

## 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 |                                   |
| 44   | OsmoSGSN               | Bug     | New    | Normal   | TLLI clash possible   | pespin   | 02/06/2021 01:31 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 |                                   |
| 64   | Miscellaneous Projects | Bug     | New    | Normal   | osmo-bts-amp: 2.2uF capacitors next to PA need to be 0603, not 0805                                     | tnt      | 02/21/2016 04:48 PM |                                   |
| 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 |                                   |
| 1457 | SIMtrace 2             | Feature | New    | Low      | Spacing between JTAG and JP1/JP2  | mschramm | 09/13/2018 07:07 PM |                                   |
| 1458 | OsmocomBB              | Bug     | New    | High     | AGC broken (strong cell cannot be synced)   | tnt      | 07/18/2019 06:10 AM | Related to #3582                  |
| 1460 | SIMtrace 2             | Feature | New    | Normal   | include some version information / negotiation in the USB protocol                                      | laforge  | 12/06/2019 01:39 PM | Related to #1461,Related to #4041 |

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|------|------------------------------|---------|---------|----------|--|----------|---------------------|-----------------------------------|
| 1461 | OsmocomBB                    | Feature | Stalled | High     | include some version information / negotiation in the L1CTL protocol               | fixeria  | 10/27/2021 10:17 PM | Related to #1461,Related to #5815 |
| 1462 | OsmocomBB                    | Bug     | New     | High     | ././src/utls.c:182:7: error: only weak aliases are supported in this configuration |          | 02/21/2016 04:48 PM |                                   |
| 1463 | SIMtrace 2                   | Feature | New     | Low      | Add VCC current sensing circuit for SPA & DPA attacks                              | laforge  | 08/27/2018 07:05 AM | Related to #1706                  |
| 1474 | SDR (Software Defined Radio) | Bug     | New     | High     | USB Claim Interface Error  | steve-m  | 02/20/2016 08:23 PM |                                   |
| 1477 | Mobile (in)Security          | Bug     | New     | High     | RACH flood DoS   |          | 02/21/2016 04:34 PM |                                   |
| 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 |                                   |
| 1504 | UmTRX                        | Feature | New     | Normal   | LMS6002 phase error increases when Rx is enabled and varies with temperature       | ttsou    | 02/19/2016 10:52 PM |                                   |
| 1505 | UmTRX                        | Bug     | New     | High     | OHM4 footprint incorrect   |          | 02/19/2016 10:52 PM |                                   |
| 1506 | UmTRX                        | Feature | New     | Normal   | Move to the latest stable UHD  | ipse     | 02/21/2016 04:47 PM |                                   |
| 1507 | UmTRX                        | Feature | New     | High     | Implement UmSEL tuner control  | ipse     | 02/21/2016 04:47 PM |                                   |
| 1508 | UmTRX                        | Feature | New     | High     | Implement UmSEL diversity switch control   | ipse     | 02/21/2016 04:47 PM |                                   |
| 1509 | UmTRX                        | Feature | New     | Normal   | Store calibration values in EEPROM   | ipse     | 02/21/2016 04:47 PM |                                   |
| 1510 | UmTRX                        | Feature | New     | High     | Complete UHD integration   | ipse     | 02/21/2016 04:47 PM |                                   |
| 1511 | UmTRX                        | Feature | New     | Normal   | Solve Tx and Rx I/Q imbalance for wideband signals                                 |          | 02/19/2016 10:52 PM |                                   |
| 1515 | UmTRX                        | Feature | New     | Normal   | Heat dissipation and mounting issue  |          | 02/19/2016 10:52 PM |                                   |
| 1516 | UmTRX                        | Feature | New     | Normal   | There are no port to control external equipment like PA                            |          | 02/19/2016 10:52 PM |                                   |
| 1517 | UmTRX                        | Feature | New     | Normal   | U_FL (UMC) connectors are not reliable after few connections                       |          | 02/19/2016 10:52 PM |                                   |
| 1518 | UmTRX                        | Feature | New     | Normal   | Upper limit of the clock is too low  |          | 02/19/2016 10:52 PM |                                   |

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|------|---------|---------|----------|----------|---|----------|---------------------|--|
| 1524 | OsmoPCU | Bug     | Feedback | Normal   | PACCH on the wrong timeslot   | roh      | 10/19/2021 11:50 AM | Related to #1524,Related to #1524,Related to #1524,Related to #2709,Related to #1524,Related to #1524,Related to #3014 |
| 1526 | OsmoPCU | Feature | Stalled  | Normal   | Acquire/update timing advance (TA)                                      | fixeria  | 03/25/2021 12:04 PM | Related to #1545,Related to #1531,Related to #1524,Related to #3472,Related to #2977                                   |
| 1527 | OsmoPCU | Feature | New      | Low      | Set correct values of the puncturing scheme and the retransmission flag | pespin   | 02/08/2021 07:10 PM |  |
| 1528 | OsmoPCU | Bug     | New      | Low      | Find a real fix for EGPRS_AckNack_w_len_t decoding                      | pespin   | 02/06/2021 01:04 PM |  |
| 1530 | OsmoPCU | Feature | New      | Low      | Assign same TFI number in downlink/uplink                               |          | 01/26/2020 08:50 AM |  |
| 1532 | OsmoPCU | Bug     | New      | Low      | Increased number of poll timeouts on shared PDCHs                       | pespin   | 02/08/2021 05:22 PM | Related to #1524   |
| 1533 | OsmoPCU | Feature | Feedback | Low      | Separate the window handling from the TBF more clearly                  | zecke    | 07/21/2017 02:46 PM | Related to #1533   |
| 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  |
| 1545 | OsmoPCU | Feature | Stalled  | Normal   | continuous timing advance loop using PTCCH                              | fixeria  | 03/24/2020 09:49 PM | Related to #1545,Related to #4102,Related to #4500,Blocks #1545  |
| 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 |  |
| 1558 | OsmoPCU | Feature | New      | Low      | Generate BSSGP LLC Discarded messages on TBF/MS free                    | osmith   | 02/13/2021 05:44 PM | Related to #4847   |
| 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 |  |

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|------|---------------------------------|---------|-------------|----------|---|----------|---------------------|---|
| 1568 | OsmoBTS                         | Feature | New         | Low      | Move various code bits to libosmocore                                     | fixeria  | 07/18/2019 06:08 AM |   |
| 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 |   |
| 1587 | OsmoSGSN                        | Feature | Stalled     | Normal   | SMS over GPRS support   |          | 11/25/2018 08:14 PM | Related to #3587  |
| 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 |   |
| 1596 | Cellular Network Infrastructure | Feature | New         | Low      | Generation of accounting/billing data                                     |          | 12/10/2017 08:03 PM |   |
| 1597 | OsmoMSC                         | Feature | Stalled     | Low      | External interface for USSD   | fixeria  | 11/27/2018 11:08 PM | Related to #1597,Related to #3433                                   |
| 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 |   |
| 1605 | OsmoBSC                         | Feature | In Progress | Low      | logging / ring buffer for ALERT messages from A-bis OML from the BTS side | osmith   | 03/27/2020 09:40 AM | Related to #1605  |

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|------|---------------------------------|---------|-------------|----------|---|----------|---------------------|--|
| 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 |  |
| 1614 | OsmoBSC                         | Bug     | Stalled     | Normal   | better identification of BTS model / capabilities to BSC                                  |          | 05/12/2020 12:11 PM | Related to #1614,Related to #2316,Related to #2317,Related to #3799,Related to #3938 |
| 1623 | OsmoSMSC                        | Feature | New         | Normal   | Configure delivery report for the SMPP delivery links                                     | zecke    | 02/24/2016 01:49 PM |  |
| 1624 | OsmoPCU                         | Bug     | New         | Normal   | add CRBB support to write_packet_ack_nack_desc_egprs                                      |          | 10/20/2020 08:37 AM |  |
| 1627 | OsmocomBB                       | Support | Stalled     | Low      | DCS_8BIT and DCS_UCS2 encoding supprot  |          | 07/16/2018 06:53 PM |  |
| 1640 | OsmoPCU                         | Bug     | Feedback    | Low      | Missing release field/length in MS RA capability container                                |          | 10/20/2020 09:19 AM |  |
| 1643 | OsmoHLR                         | Feature | New         | Low      | programmatic access to new asynchronous external HLR                                      |          | 12/10/2017 08:06 PM | Related to #1643,Blocks #1643  |
| 1655 | OsmoSGSN                        | Feature | Stalled     | Normal   | KPIs for OsmoSGSN   |          | 01/08/2020 10:49 PM | Related to #1652,Related to #1655,Related to #1655                                   |
| 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   |
| 1671 | OsmoNITB                        | Bug     | Stalled     | Low      | Combined 850/1800 NITB not seen by Option Icon2 stick                                     |          | 03/05/2018 07:35 PM |  |
| 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 |  |
| 1683 | osmo-sip-connector              | Bug     | Stalled     | Low      | osmo-sip-connector: Implement codec selection / move codec selection to osmo-msc          | neels    | 09/23/2020 02:02 PM | Related to #1683,Related to #1683,Related to #1683,Related to #3650,Related to #5177 |
| 1685 | osmo-sip-connector              | Feature | In Progress | Normal   | osmo-sip-connector: Review and define log statements and which info to include            | osmith   | 09/04/2019 09:31 AM |  |
| 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 |  |

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|------|-------------|---------|-------------|----------|---|----------|---------------------|--|
| 1689 | OsmoSMSC    | Feature | New         | Normal   | insert: Change destination number based on criteria similar to route handling on output | zecke    | 04/06/2016 12:18 PM |  |
| 1690 | OsmoSMSC    | Bug     | New         | Normal   | Insert: Generate message ID (e.g. UUID)   | zecke    | 04/06/2016 12:26 PM |  |
| 1692 | OsmoBTS     | Feature | New         | Low      | clock source monitoring   |          | 04/13/2016 09:49 AM |  |
| 1705 | SIMtrace 2  | Bug     | Stalled     | High     | re-integrate tracing + card reader modes into SIMtrace2 firmware (SAM3S)                | laforge  | 04/06/2021 01:19 AM | Related to #1705,Related to #3379  |
| 1706 | SIMtrace 2  | Feature | In Progress | Low      | Hardware / Circuit board update for SAM3S based SIMtrace2 with 1.8V/5V support          | mschramm | 10/28/2023 11:25 AM | Related to #1706,Related to #5464,Related to #4118,Related to #5826          |
| 1716 | libosmocore | Feature | New         | Normal   | enhance unit test coverage  |          | 08/17/2016 03:57 PM | Related to #1987,Precedes #1717  |
| 1725 | OsmoNITB    | Bug     | Stalled     | Low      | iPhone6 network selection issue with GSM1900  |          | 03/05/2018 07:35 PM |  |
| 1744 | OsmoBTS     | Bug     | New         | Low      | 1-way voice between sysmobts and nanobts if DTX is enabled                              |          | 07/18/2019 06:08 AM | Related to #1562   |
| 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   |
| 1759 | OsmoPCU     | Bug     | Stalled     | High     | Wrong calculation of DL window size for DL assignment                                   |          | 01/22/2020 04:01 PM | Related to #1533,Related to #1524  |
| 1762 | libosmocore | Bug     | New         | Normal   | Review LAPD code for race conditions regarding state, particularly in RELEASE           | laforge  | 03/24/2021 12:37 PM | Related to #1760,Related to #1761,Related to #1982,Related to #2694          |
| 1766 | OsmoPCU     | Bug     | In Progress | High     | KPIs for OsmoPCU: EGPRS   |          | 01/22/2020 02:06 PM | Related to #1766,Related to #1766  |
| 1768 | OsmoSGSN    | Bug     | Stalled     | Low      | VTY show llc displays State TLLI Unassigned permanently                                 |          | 01/08/2020 10:52 PM |  |
| 1771 | OsmoBTS     | Feature | New         | Low      | osmo-bts-trx: clarify check_transceiver_availability()                                  |          | 03/01/2018 11:17 PM | Related to #1770   |
| 1794 | OsmoSGSN    | Bug     | Stalled     | Normal   | support random IV for GEA (via XID)   |          | 03/01/2018 11:17 PM | Related to #1910,Related to #1672,Related to #2843,Blocks #1794,Blocks #1582 |
| 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 |
| 1823 | OsmoPCU                               | Feature | Stalled     | Low      | Ericsson PCU TRAU frame encoding/decoding  |           | 09/04/2019 09:26 AM | Related to #5198                                   |
| 1829 | OsmoNITB                              | Bug     | New         | Normal   | Fix warnings introduced by ctrl constify   |           | 03/05/2018 07:34 PM |  |
| 1831 | OsmoPCU                               | Bug     | Stalled     | Low      | No handling for padding octets(LI 127) for EGPRS. row 3rd of Table 10.4.14a.1 TS 44.060 version 7.27.0 Release | pespin    | 10/20/2020 08:39 AM |  |
| 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 |  |
| 1838 | OsmoPCU                               | Bug     | Stalled     | Normal   | Nokia E52 doest reply to PUAN message properly   |           | 10/29/2017 06:47 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 |  |
| 1881 | OsmoSGSN                              | Bug     | In Progress | Normal   | don't send PDP CTX DEACT ACK to MS when destroying PDP ctx indepent from MS requests                           |           | 01/08/2020 10:49 PM |  |
| 1897 | OsmocomTETRA                          | Bug     | New         | Low      | Inefficient sequence search in tetra_find_train_seq  |           | 04/10/2017 01:04 AM |  |
| 1898 | OsmoBTS                               | Bug     | Feedback    | Low      | Wrong handover detection with l1sap on wrong ss=0/ts=0   |           | 11/07/2017 09:54 PM |  |
| 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 |  |
| 1906 | osmo-qcdiag                           | Bug     | Feedback    | Normal   | wireshark: fix decoding of (E)GPRS RLC/MAC frames  | Hoernchen | 02/08/2021 08:07 PM |  |

| #    | Project                         | Tracker | Status      | Priority | Subject  | Assignee   | Updated             | Related issues                         |
|------|---------------------------------|---------|-------------|----------|--|------------|---------------------|--|
| 1907 | osmo-qcdiag                     | Bug     | New         | Normal   | osmo-qcdiag detects CRC errors relatively often                                    |            | 01/23/2017 01:47 AM |  |
| 1908 | osmo-qcdiag                     | Feature | New         | Normal   | add VTY interface to osmo-qcdiag   | laforge    | 01/12/2017 01:15 PM |  |
| 1911 | SIMtrace 2                      | Feature | New         | Normal   | check if we can have an enclosed version of simtrace v2                            | tsaitgaist | 09/13/2018 12:40 PM |  |
| 1912 | SIMtrace 2                      | Feature | Stalled     | Low      | do proper re-layout of the board   | mschramm   | 10/20/2020 08:39 AM | Related to #4118                       |
| 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 grcardsim from Greencard (grcard.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 |  |
| 1942 | OsmoSGSN                        | Bug     | Feedback    | Normal   | Gb: implement paging in case of MM state == STANDBY && rx DL PDU                   |            | 01/08/2020 10:48 PM | Related to #1942,Related to #4222      |
| 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                       |
| 1952 | Linux Kernel GTP-U              | Bug     | In Progress | High     | IPv6 support for inner (user) IP layer missing                                     | pablo      | 03/05/2024 11:47 PM | Related to #6096,Related to #6123      |
| 1954 | OsmocomBB                       | Bug     | In Progress | Normal   | Motorola C188 with Osmocombb firmwre(RAM version) can't scan out any base stations |            | 07/10/2017 10:24 PM |  |
| 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                       |
| 1974 | OsmoMSC                         | Feature | New         | Low      | VLR: high water mark on subscriber storage   |            | 05/15/2022 01:45 PM | Related to #1973                       |
| 1975 | Cellular Network Infrastructure | Feature | New         | Low      | Redesigned configuration management / MIB  | laforge    | 02/16/2021 05:59 PM |  |
| 1983 | rtl-sdr                         | Support | New         | Normal   | Add welle.io and rtl_fm_streamer to rtl-sdr app list                               |            | 06/03/2018 12:24 PM |  |
| 1987 | libosmocore                     | Feature | New         | Normal   | gcov code coverage test support  |            | 12/01/2019 01:42 PM | Related to #1987,Is duplicate of #1987 |
| 1990 | OsmocomBB                       | Bug     | Feedback    | Normal   | bb nand flash  | yangkkokk  | 07/10/2017 10:22 PM |  |
| 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 |  |

| #    | Project  | Tracker | Status | Priority | Subject  | Assignee | Updated             | Related issues                                       |
|------|--|---------|--------|----------|--|----------|---------------------|--|
| 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                                     |
| 2013 | libosmo-sccp + libosmo-sigtran                         | Bug     | New    | Low      | OAP (Osmo Auth Protocol) missing from IPA support in libosmo-sigtran                               | neels    | 09/16/2018 10:35 AM | Related to #1843, Related to #2013, Related to #2554 |
| 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 |  |
| 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 libosmocrypto  |          | 10/05/2017 06:25 AM |  |
| 2189 | OsmoGSMTester  | Bug     | New    | Normal   | ofono: EC20: cannot send SMS   | lynxis   | 11/28/2017 04:21 PM |  |
| 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 |  |

| #    | Project  | Tracker | Status      | Priority | Subject   | Assignee | Updated             | Related issues                                 |
|------|--|---------|-------------|----------|---|----------|---------------------|--|
| 2197 | OsmoGSMTester  | Feature | Stalled     | Normal   | osmo-gsm-tester: use MNCC interface   |          | 11/30/2017 10:41 AM | Related to #2194,Is duplicate of #2197         |
| 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 |  |
| 2237 | OsmoGSMTester  | Bug     | Feedback    | Normal   | ofono: Gobi modem: successful SMS delivery is evaluated as not successful             | lynxis   | 06/07/2018 02:08 PM | Related to #2237,Related to #2237,Blocks #2237 |
| 2238 | OsmoGSMTester  | Bug     | In Progress | Normal   | ofono: Gobi modem: cannot receive SMS   |          | 01/08/2020 10:42 PM | Related to #2238                               |
| 2245 | OsmoGSMTester  | Bug     | New         | Low      | osmo-bts cfg: fix band string   |          | 05/15/2017 12:58 PM | Related to #2230                               |
| 2259 | libosmo-sccp + libosmo-sigtran                         | Bug     | New         | Normal   | problem with local reference  | laforge  | 07/19/2017 04:25 PM |  |
| 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 | OsmoSGSN   | 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 |  |

| #    | Project       | Tracker | Status   | Priority | Subject  | Assignee | Updated             | Related issues                                     |
|------|---------------|---------|----------|----------|--|----------|---------------------|--|
| 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                                   |
| 2356 | OsmoBTS       | Feature | New      | Low      | have per-SAPI logging in OsmoBTS DL1P / DL1C   | osmith   | 03/19/2020 08:06 PM | Related to #2355                                   |
| 2364 | OsmoBTS       | Bug     | New      | Low      | OsmoBTS sends SI1 even if it is not specified/needed   |          | 07/15/2017 10:06 AM |  |
| 2366 | OsmoBTS       | Feature | New      | Low      | OsmoBTS lacks EXTENDED BCCH support  |          | 07/15/2017 10:42 AM | Related to #1575,Related to #2014                  |
| 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 |  |
| 2383 | OsmoPCU       | Bug     | New      | Normal   | incompatibility with some SGSNs during P-TMSI allocation   | laforge  | 07/04/2018 12:50 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 |  |
| 2394 | OsmoHNBGW     | Feature | New      | Low      | Implement SABP (Service Area Broadcast Protocol)   | laforge  | 12/30/2020 01:19 AM | Related to #2392,Related to #3979                  |
| 2399 | OsmoGSMTester | Feature | New      | Normal   | add tests for graceful restart of individual components  |          | 07/25/2017 12:02 AM |  |
| 2400 | OsmoPCU       | Bug     | Stalled  | High     | transmit SI13 on PACCH during long TBFs  | fixeria  | 05/12/2020 12:19 PM | Related to #2400,Related to #3472,Related to #4506 |
| 2404 | OsmoPCU       | Bug     | Feedback | Low      | PAGING-PS doesn't use QoS parameters from BSSGP  | osmith   | 09/10/2019 11:54 AM |  |
| 2405 | OsmoPCU       | Feature | New      | Low      | RLC/MAC encoding routines don't use bitvec L/H   |          | 07/29/2017 09:01 AM |  |
| 2409 | OsmocomBB     | Feature | Stalled  | High     | Add GPRS support to virt_phy and L1CTL   | fixeria  | 08/19/2022 03:06 PM |  |
| 2411 | OsmoMGW       | Feature | New      | Low      | No support for RTP dynamic payload types - AMR/HR/EFR payload types are hardcoded                  |          | 03/05/2018 07:04 PM |  |
| 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                  |

| #    | Project                         | Tracker | Status  | Priority | Subject   | Assignee | Updated             | Related issues   |
|------|---------------------------------|---------|---------|----------|---|----------|---------------------|--|
| 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 |  |
| 2433 | OsmoNITB                        | Bug     | New     | Low      | Drop MGCP_DUMMY_LOAD frames and use proper Osmux Dummy frames           | pespin   | 08/21/2017 02:23 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   |
| 2451 | Cellular Network Infrastructure | Feature | New     | Low      | Add static builds to jenkins jobs                                       | osmith   | 09/30/2018 08:18 AM |  |
| 2452 | OsmoGSMTester                   | Bug     | New     | Low      | osmo-gsm-tester: ESME should send submit_sm as a response to deliver_sm | pespin   | 10/29/2017 06:33 PM | Related to #2429   |
| 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 |  |
| 2487 | OsmoMSC                         | Feature | Stalled | Normal   | MSC side of LCLS (local call local switching) as per the 3GPP specs     | keith    | 10/17/2022 04:31 AM | Related to #1602,Related to #3659,Related to #3691,Related to #3618,Related to #3294,Related to #5712,Blocks #2487 |
| 2494 | OsmoGGSN (former OpenGGSN)      | Feature | New     | Low      | IPv6 support on the outer (transport) layer                             |          | 02/06/2021 12:09 PM |  |
| 2497 | OsmoGSMTester                   | Support | Stalled | Normal   | Set up SIM cards with auth algo other than comp128v1                    | daniel   | 10/15/2019 11:44 AM | Related to #2475   |

| #    | Project                         | Tracker | Status      | Priority | Subject   | Assignee | Updated             | Related issues   |
|------|---------------------------------|---------|-------------|----------|---|----------|---------------------|--|
| 2501 | OsmoSGSN                        | Bug     | In Progress | Normal   | suspected problem with unanswered neighbor solicitation                                 | osmith   | 09/11/2019 12:58 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 |  |
| 2514 | GSM Audio Pocket Knife          | Bug     | Stalled     | Normal   | GSM HR encoding result does not match the reference                                     | fixeria  | 04/03/2019 08:37 AM |  |
| 2523 | OsmoMGW                         | Feature | New         | Normal   | transcoding: remove "not yet implemented" from MNCC manual once transcoding is in place | daniel   | 03/16/2018 07:54 PM |  |
| 2542 | OsmoHLR                         | Feature | Stalled     | Low      | have subscriber create-on-demand  | osmith   | 03/10/2022 03:40 PM | Related to #2541,Related to #5183  |
| 2545 | OsmoBSCNAT                      | Feature | Stalled     | Low      | OsmoBSCNAT misses 3GPP AoIP   | osmith   | 10/12/2022 01:15 PM | Related to #5152,Related to #5359,Related to #5574                               |
| 2546 | OsmoMGW                         | Feature | New         | Low      | support play-out/announcement endpoint type   |          | 10/06/2017 12:30 PM |  |
| 2554 | Cellular Network Infrastructure | Feature | New         | Low      | Reference/Demo setup + documentation for use of OsmoBSC+OsmoBSCNAT with OSMUX           | pespin   | 06/08/2020 07:07 PM | Related to #2553,Related to #2552,Related to #2551,Related to #2554              |
| 2555 | OsmocomBB                       | Feature | Stalled     | Normal   | script interface to OsmocomBB "mobile"  | zecke    | 06/08/2020 07:07 PM | Related to #2555,Related to #2555,Blocks #2893                                   |
| 2558 | Cellular Network Infrastructure | Feature | Stalled     | Normal   | Scripts to manage thousands of "mobile" and hundreds of osmo-bts-virtual instances      |          | 06/08/2020 07:07 PM | Related to #2557,Related to #2556,Related to #2555,Related to #2558,Blocks #2893 |
| 2567 | OsmoHLR                         | Feature | New         | Low      | tell the MSC(s) when subscriber data has changed  |          | 10/11/2017 01:50 AM |  |
| 2571 | libosmo-abis                    | Bug     | New         | Low      | libosmo-abis API documentation missing (doxygen)  | osmith   | 02/06/2021 02:27 PM |  |
| 2580 | OsmoMGW                         | Feature | New         | Low      | implement timeout/resend mechanism for mgcp_client                                      |          | 09/04/2019 09:26 AM |  |
| 2584 | Cellular Network Infrastructure | Feature | New         | Low      | Have "osmo-network-check" to verify "Network In The Box" setup                          | neels    | 10/05/2018 04:20 PM | Related to #2618   |
| 2601 | libosmo-sccp + libosmo-sigtran  | Feature | New         | Low      | osmo-msc still needs libosmo-sccp-dev for SCCP CAUSE definitions                        | laforge  | 02/13/2021 06:07 PM |  |
| 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   |
| 2604 | Cellular Network Infrastructure | Feature | Stalled     | High     | GSUP-to-DIAMETER converter / IWF  | laforge  | 02/29/2020 11:27 AM | Related to #5646   |
| 2607 | rtl-sdr                         | Bug     | New         | Normal   | rtl-sdr gnuradio cfile is outdated  |          | 06/03/2018 12:23 PM |  |

| #    | Project                         | Tracker | Status   | Priority | Subject  | Assignee | Updated             | Related issues                                     |
|------|---------------------------------|---------|----------|----------|--|----------|---------------------|--|
| 2610 | libosmcore                      | 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 |  |
| 2622 | OsmoBSC                         | Support | Stalled  | High     | Prepare automatic interop testing of OsmoBSC against NG40 core simulator + osmo-bts-virtual + mobile |          | 09/04/2019 09:18 AM | Related to #2478,Related to #2558,Related to #2555 |
| 2623 | Cellular Network Infrastructure | Feature | New      | High     | SCCP/M3UA: detect restart of osmo-msc and osmo-sgsn  | neels    | 02/07/2021 12:55 PM | Related to #3403,Related to #4701                  |
| 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 |  |
| 2669 | OsmoMSC                         | Bug     | New      | Low      | osm-msc doesn't clean up BSC state   | osmith   | 09/30/2018 11:37 AM |  |
| 2674 | OsmoBTS                         | Bug     | New      | Low      | osmo-bts-sysmo GPRS failing if running without "-M"  | pespin   | 07/18/2019 06:08 AM |  |
| 2675 | OsmoBTS                         | Bug     | New      | Low      | /usr/bin/lc15bts-mgr can't find GPS 3D fix to for calibration  | pespin   | 02/13/2018 03:34 PM |  |
| 2677 | libosmcore                      | Support | New      | Normal   | Make stat_item available over ctrl interface   |          | 09/04/2019 09:21 AM | Related to #2676                                   |
| 2688 | libosmcore                      | 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 |  |
| 2691 | OsmoNITB                        | Bug     | Feedback | Normal   | Old TMSI paged after LU  |          | 05/17/2018 11:47 AM |  |
| 2692 | OsmoSGSN                        | Bug     | New      | Low      | HLR string in CDR and VTY is empty   | pespin   | 09/30/2018 11:39 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 | libosmcore                      | Feature | New      | Low      | implement reproducible talloc context printout, i.e. without memory addresses                        |          | 01/08/2020 10:21 PM | Related to #2781                                   |

| #    | Project                      | Tracker | Status   | Priority | Subject   | Assignee | Updated             | Related issues  |
|------|------------------------------|---------|----------|----------|---|----------|---------------------|---|
| 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  |
| 2717 | libosmo-abis                 | Bug     | New      | Low      | libosmo-abis doesn't use ipa_ccm_make_id_resp()   |          | 12/06/2017 05:47 PM |   |
| 2724 | OsmoBSC                      | Feature | New      | Normal   | Improve default timers  | laforge  | 01/04/2018 11:06 AM | Related to #2724  |
| 2764 | SDR (Software Defined Radio) | Support | New      | Normal   | osmocom_fft & siggen can't access the X display   |          | 12/15/2017 06:09 PM |   |
| 2781 | OsmoBSC                      | Feature | Feedback | Normal   | Extend OsmBSC TTCN-3 test coverage regarding resource leaks   | neels    | 03/25/2022 05:56 AM | Related to #2781,Related to #2781,Related to #5355,Related to #5337 |
| 2788 | OsmoMSC                      | Feature | New      | Normal   | OsmoMSC should handle CM Service Abort message  | neels    | 01/04/2018 10:37 AM |   |
| 2795 | OsmoMSC                      | Feature | New      | Normal   | Handle UTRAN_CLSM_CHG in MSC  | neels    | 04/30/2018 12:06 PM | Related to #3043  |
| 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 |   |
| 2807 | Z-Netz                       | Bug     | Stalled  | Normal   | Obtain ZERBERUS software build[s] and manual[s]   | laforge  | 01/01/2020 01:51 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 |   |

| #    | Project                         | Tracker | Status   | Priority | Subject   | Assignee | Updated             | Related issues  |
|------|---------------------------------|---------|----------|----------|---|----------|---------------------|---|
| 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 |   |
| 2840 | OsmoHLR                         | Feature | New      | Low      | HLR should allow 2g-only or 3g-only subscribers   | neels    | 10/28/2020 09:22 PM |   |
| 2846 | OsmoMSC                         | Bug     | New      | Normal   | MSC doesn't close SCCP/BSSAP connection on CM SERV REQ tht cannot be parsed                         | osmith   | 07/18/2019 05:44 AM |   |
| 2851 | OsmoMSC                         | Bug     | Stalled  | Normal   | a_iface.c:534 Unhandled SIGTRAN primitive: 3:2  |          | 07/18/2019 05:45 AM |   |
| 2860 | OsmoGSMTester                   | Feature | New      | Low      | osmo-gsm-tester: Add 3g support with nano3G board   | pespin   | 03/31/2023 03:26 PM | Related to #2860  |
| 2861 | OsmoGSMTester                   | Feature | New      | Normal   | osmo-gsm-tester: Add 3g support for sysmocell-5k  |          | 12/02/2019 01:36 PM | Related to #2860  |
| 2872 | OsmoMSC                         | Bug     | Feedback | Normal   | OsmoMSC doesn't check if CIPHER MODE COMPLETE contains cipher that matches REQUEST                  | neels    | 07/29/2019 01:15 PM |   |
| 2877 | OsmoMSC                         | Bug     | New      | Normal   | OsmoMSC fails on bearer capability without octet 3a   | osmith   | 07/18/2019 05:45 AM |   |
| 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 |   |
| 2893 | OsmoBSC                         | Feature | Stalled  | Low      | automatic simulator for large LU load   |          | 09/04/2019 09:23 AM | Related to #2722,Related to #2591,Blocks #2893,Blocks #2893 |
| 2895 | OsmoMSC                         | Bug     | New      | Normal   | OsmoMSC excessively uses LU Reject Cause 22 (congestion)  | osmith   | 07/18/2019 05:41 AM |   |
| 2899 | OsmoBSC                         | Bug     | New      | Low      | channel attributes are sent to BTS even for NONE channels   | osmith   | 09/30/2018 10:42 AM |   |
| 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 |   |
| 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 |   |

| #    | Project                    | Tracker | Status   | Priority | Subject   | Assignee | Updated             | Related issues   |
|------|----------------------------|---------|----------|----------|---|----------|---------------------|--|
| 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<br>gsm_subscriber_conn state machine   |          | 09/04/2019 09:21 AM |  |
| 2946 | OsmoGGSN (former OpenGGSN) | Feature | New      | Low      | Add test suite for sgsnemu  | pespin   | 11/21/2019 05:03 PM |  |
| 2951 | OsmoSGSN                   | Bug     | Feedback | Normal   | OsmoSGSN Accepts two MO L3 Messages with N(U) set to zero   | osmith   | 09/11/2019 12:24 PM |  |
| 2953 | OsmoSGSN                   | Bug     | New      | Normal   | No timeout waiting for UpdateLocation Response on GSUP  |          | 01/08/2020 10:47 PM | Related to #2952   |
| 2955 | OsmoSGSN                   | Bug     | New      | High     | No GMM ATTACH REJECT on GSUP UpdateLocation Error   | lynxis   | 09/10/2019 07:39 PM |  |
| 2957 | OsmoSGSN                   | Bug     | New      | Normal   | No timeout during GSUP PURGE MS to HLR  |          | 01/08/2020 10:47 PM |  |
| 2958 | OsmoSGSN                   | Bug     | Stalled  | Normal   | OsmoSGSN doesn't authenticate on second/further ATTACH REQUEST  |          | 01/08/2020 10:49 PM | Related to #2958,Related to #4221  |
| 2959 | OsmoSGSN                   | Bug     | New      | Low      | OsmoSGSN puts bogus LAC/RAC in GTP Create PDP CTX ACT REQ   | osmith   | 09/30/2018 11:41 AM |  |
| 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 |  |
| 2964 | OsmoBSC                    | Bug     | New      | Low      | handover_decision_2: measurement report number compared to lchan->meas_rep_last_seen_nr often overflows to zero (255 range) and hence an old report may be seen as new every once per 255 cycle | neels    | 12/16/2019 03:02 PM | Related to #1606   |
| 2974 | OsmoBTS                    | Bug     | New      | Low      | OsmoBTS doesn't use the "Diagnostics" part of the RSL Cause IE  |          | 07/18/2019 05:48 AM |  |
| 2977 | OsmoBTS                    | Feature | Stalled  | Normal   | OsmoBTS measurement processing at L1SAP too complex / pass measurements along with data   | dexter   | 05/18/2020 06:47 PM | Related to #2977,Related to #2977,Related to #3530,Related to #3428,Related to #3395,Related to #2977,Related to #3803 |
| 2979 | OsmoBTS                    | Bug     | Stalled  | Low      | osmo-bts-virtual reports bogus measurement values   | laforge  | 07/18/2019 06:06 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  |

| #    | Project                         | Tracker | Status  | Priority | Subject   | Assignee | Updated             | Related issues  |
|------|---------------------------------|---------|---------|----------|---|----------|---------------------|---|
| 3002 | OsmoBSC                         | Bug     | New     | Normal   | HO2: handover decision for dynamic timeslots                        | neels    | 10/28/2020 08:46 PM | Related to #1606,Related to #1608,Blocks #3002                      |
| 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 |   |
| 3020 | OsmoBSC                         | Bug     | New     | Normal   | OsmoBSC PCU socket interface not yet tested by BSC_Tests.ttcn       | laforge  | 05/21/2019 06:29 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 |   |
| 3054 | OsmoTRX                         | Feature | Stalled | Normal   | Extended (11-bit) RACH support in OsmoTRX                           | tnt      | 02/03/2019 11:45 AM | Related to #1854,Related to #3054,Related to #3054,Related to #4006 |
| 3058 | OsmoBTS                         | Bug     | New     | Low      | RSL SACCH FILLING are per TRX, not BTS scope                        |          | 03/11/2018 08:55 PM |   |
| 3061 | OsmoTRX                         | Bug     | New     | Normal   | OsmoTRX ARM chroot build jobs failing due to proot bug              | pespin   | 12/02/2019 04:54 PM | Related to #3766,Related to #4301                                   |
| 3067 | OsmoTRX                         | Bug     | New     | Normal   | osmo-trx usrp b100 time out and packet loss between host and device | ttsou    | 03/15/2018 06:36 PM |   |
| 3068 | OsmoGSMTester                   | Bug     | New     | Low      | osmo-gsm-tester: resource objects leaked or destroyed too late      | pespin   | 03/31/2023 03:28 PM |   |
| 3069 | OsmoMSC                         | Feature | New     | Normal   | investigate multiple CM Service Request on the same conn            | neels    | 10/28/2020 08:36 PM | Is duplicate of #3069   |
| 3097 | OsmoBSC                         | Feature | New     | Normal   | ramping of "rxlev access min"                                       |          | 03/22/2018 11:51 AM | Related to #3097  |
| 3110 | OsmoMSC                         | Bug     | New     | Normal   | Test and possibly fix ID Request after Auth failure                 | neels    | 09/30/2018 11:36 AM |   |
| 3125 | OsmoMSC                         | Bug     | New     | Low      | testcase for fixed "osmo-msc crashes while handling a call"         | neels    | 06/23/2018 07:26 PM | Related to #3122,Related to #2880                                   |
| 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 |   |

| #    | Project  | Tracker | Status   | Priority | Subject  | Assignee | Updated             | Related issues                                     |
|------|--|---------|----------|----------|--|----------|---------------------|--|
| 3155 | OsmoBTS  | Feature | Stalled  | High     | execute BTS_Tests.ttcn with real (C123) phone hardware in LTHW setup                               | pespin   | 12/04/2020 07:30 PM | Related to #3353,Related to #3155                  |
| 3163 | OsmoMSC  | Bug     | New      | Low      | RANAP: reject Level 3 Complete from cells with invalid LAI   | osmith   | 07/18/2019 05:47 AM | Related to #3162,Related to #3163                  |
| 3164 | OsmoMSC  | Bug     | Feedback | Low      | invalid LAI in level 3 complete: unify BSSMAP and RANAP verification                               | neels    | 07/29/2019 01:34 PM | Related to #3162,Related to #3163,Related to #3164 |
| 3165 | OsmoMSC  | Feature | New      | Low      | Verify LU Request's LAI  | osmith   | 07/18/2019 05:48 AM | Related to #3164                                   |
| 3167 | Cellular Network Infrastructure                        | Bug     | New      | Low      | Build osmo-*-master docker containers with address sanitizer                                       | osmith   | 07/18/2019 05:22 AM | Related to #3167                                   |
| 3169 | OsmoMSC  | Bug     | New      | Low      | OsmoMSC rejects SMPP messages with empty SMS   |          | 01/08/2020 10:56 PM |  |
| 3192 | Cellular Network Infrastructure                        | Bug     | New      | Low      | meas_vis: use the lchan identity as primary key, not the IMSI                                      | laforge  | 12/01/2019 09:20 AM | Related to #3192,Related to #3192                  |
| 3200 | Osmocom Conferences (OsmoDevCon, OsmoCon, OsmoDevCall) | Bug     | New      | Normal   | OsmoDevCon: Use loudspeakers even at IN-Berlin   |          | 05/07/2024 11:49 AM |  |
| 3207 | OsmoMGW  | Feature | New      | Low      | Support for RTP Payload Format according to "ETSI TS 101 318"                                      |          | 04/24/2018 03:53 PM |  |
| 3210 | osmo-fl2k  | Feature | New      | Low      | man pages  | steve-m  | 04/24/2018 08:55 PM |  |
| 3222 | OsmoTRX  | Bug     | Stalled  | Low      | include (tested) example config files for usrp1, uhd/b200 as well as umtrx                         | tnt      | 10/20/2018 07:27 PM |  |
| 3224 | OsmoSGSN   | Bug     | New      | Normal   | verify ciphering after UMTS AKA  |          | 01/08/2020 10:48 PM | Related to #3193,Related to #3224                  |
| 3227 | Cellular Network Infrastructure                        | Feature | New      | Normal   | general idea: separate GSUP spec document  | roh      | 12/01/2019 09:26 AM | Is duplicate of #3227                              |
| 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                                   |
| 3234 | OsmoGSMTester  | Feature | New      | Low      | osmo-gsm-tester: poll the python-smplib socket using non-busy approach                             | pespin   | 03/31/2023 03:28 PM | Related to #2512                                   |
| 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 |  |

| #    | Project                         | Tracker | Status      | Priority | Subject   | Assignee  | Updated             | Related issues  |
|------|---------------------------------|---------|-------------|----------|---|-----------|---------------------|---|
| 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                                   |
| 3285 | OsmoPCU                         | Feature | New         | Normal   | design + implement tools to analyze inter-PCU cell changes                  | daniel    | 02/06/2021 11:12 AM | Related to #3284  |
| 3294 | OsmoMSC                         | Bug     | Stalled     | High     | transaction: refactor callref allocation                                    | neels     | 12/16/2019 02:37 PM | Related to #3294,Related to #3294,Related to #4333,Related to #4854 |
| 3309 | libosmocore                     | Feature | New         | Normal   | osmo_timer_* should use monotonic clock                                     |           | 05/31/2018 03:59 PM | Related to #3309  |
| 3315 | rtl-sdr                         | Feature | New         | Normal   | review and possibly apply patches from debian package                       | steve-m   | 06/03/2018 01:17 PM |   |
| 3329 | OsmoBTS                         | Feature | New         | Normal   | osmo-bts: Implement IMMEDIATE ASSIGNMENT EXTENDED                           |           | 06/08/2018 12:02 PM | Related to #3330  |
| 3330 | OsmoBSC                         | Feature | New         | Normal   | osmo-bsc: Implement IMMEDIATE ASSIGNMENT EXTENDED                           |           | 06/08/2018 12:14 PM | Related to #3330  |
| 3341 | OsmoTRX                         | Bug     | Stalled     | High     | osmo-trx-lms RF Envelope FAIL on LimeSDR, but not on LimeSDR-mini           |           | 09/30/2020 08:08 PM | Related to #3341,Related to #3861,Blocks #3341                      |
| 3342 | OsmoTRX                         | Bug     | Stalled     | Normal   | osmo-trx-lms: low tx output power level                                     | Hoernchen | 04/06/2022 09:25 AM | Related to #3342,Blocks #3342                                       |
| 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 |   |
| 3352 | OsmoMGW                         | Feature | Feedback    | Low      | osmo-mgw does not allow multiple codecs in LCO                              | neels     | 01/08/2020 10:25 PM |   |
| 3356 | OsmoSGSN                        | Bug     | In Progress | Normal   | OsmoSGSN doesn't provide unique IDTAG_SERNR in IPA CCM                      | osmith    | 04/09/2019 11:22 AM | Related to #3356,Related to #3356,Related to #3644                  |
| 3371 | SIMtrace 2                      | Feature | New         | Normal   | migrate to use arm-none-eabi build of libosmocore.git                       | laforge   | 08/09/2018 12:14 PM |   |
| 3379 | SIMtrace 2                      | Bug     | Stalled     | High     | documentation on how to use SIMtrace2                                       | laforge   | 11/14/2022 05:31 PM | Related to #3379  |
| 3382 | Cellular Network Infrastructure | Bug     | New         | Low      | Investigate and fix lintian issues listed by Debian Lintian Report          | osmith    | 12/01/2019 09:27 AM |   |
| 3386 | Cellular Network Infrastructure | Feature | New         | Low      | Generate man pages at build time from adoc files                            | osmith    | 05/11/2023 11:24 AM | Precedes #3386  |
| 3387 | OsmocomBB                       | Feature | New         | Low      | osmocon: Use libosmocore logging system                                     |           | 10/05/2018 04:21 PM |   |
| 3398 | GSM Audio Pocket Knife          | Bug     | New         | Low      | build: configure fails if (optional) libalsa wasn't found                   | fixeria   | 12/01/2019 10:08 AM |   |

| #    | Project                         | Tracker | Status   | Priority | Subject   | Assignee                      | Updated             | Related issues                    |
|------|---------------------------------|---------|----------|----------|---|-------------------------------|---------------------|-----------------------------------|
| 3399 | OsmocomBB                       | Feature | Stalled  | High     | mobile: refactor / finish external MNCC handler implementation  | fixeria                       | 10/04/2018 09:07 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 |                                   |
| 3403 | OsmoSGSN                        | Bug     | New      | Normal   | osmo-sgsn doesn not connect properly with via SCCP when restarted   | lynxis                        | 02/07/2021 12:57 PM | Related to #3403                  |
| 3414 | gr-osmosdr                      | Feature | New      | Normal   | Include Airspy serial number in connection string.  | horiz0n                       | 07/24/2018 04:52 AM |                                   |
| 3417 | Cellular Network Infrastructure | Bug     | New      | Normal   | show asciidoc counters does not show all the counters available   | osmith                        | 12/01/2019 09:28 AM | Related to #3417,Related to #4848 |
| 3420 | libosmo-ranap                   | Bug     | Stalled  | Normal   | ranap_transp_assoc_decode() decodes X.213 NSAP address headers as IP address  | osmith                        | 07/17/2021 10:14 AM |                                   |
| 3422 | OsmocomBB SDR PHY               | Bug     | Stalled  | Normal   | Receiver: sample / burst buffering problem  |                               | 07/09/2023 07:39 PM |                                   |
| 3423 | OsmocomBB SDR PHY               | Feature | Stalled  | Normal   | Receiver: hard-coded GSM 05.02 channel configuration  |                               | 07/09/2023 07:45 PM |                                   |
| 3424 | OsmocomBB SDR PHY               | Feature | Stalled  | Normal   | Transceiver: implement automatic TX delay measurement   |                               | 07/09/2023 07:46 PM |                                   |
| 3425 | OsmocomBB SDR PHY               | Bug     | Stalled  | Normal   | Receiver: missing AGC (Automatic Gain Control)  |                               | 07/09/2023 07:44 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 |                                   |
| 3445 | OsmoMSC                         | Feature | Stalled  | Normal   | SS/USSD: clean up the local GSM 04.80 API   |                               | 12/14/2018 01:57 PM |                                   |
| 3458 | OsmocomBB SDR PHY               | Bug     | Stalled  | Normal   | apps/grgsm_trx: [ERROR] [STREAMER] recv packet demuxer unexpected sid 0xXX  |                               | 07/09/2023 07:48 PM | Related to #3692                  |
| 3459 | OsmocomBB SDR PHY               | Bug     | Stalled  | Normal   | apps/grgsm_trx: AssertionError: packe t_info.packet_count == (seq_to_ack & 0xff)  |                               | 07/09/2023 07:48 PM |                                   |
| 3462 | gr-osmosdr                      | Bug     | New      | Normal   | gr-osmosdr installation bladerf conversion errors   | horiz0n                       | 07/18/2019 05:35 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                  |
| 3474 | OsmoBSC                         | Bug     | Feedback | Normal   | SDCCH not released if Radio Link Failure / Sending Connection Failure: cause = 0x001 Experienced in osmo-bsc and osmo-bts-trx | ron.menez@entropysolution.com | 10/05/2020 09:33 PM |                                   |
| 3477 | Cellular Network Infrastructure | Feature | New      | Low      | add a wiki page explaining interconnection between components across several machines   | osmith                        | 12/01/2019 09:29 AM |                                   |
| 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 |

| #    | Project                         | Tracker | Status  | Priority | Subject   | Assignee | Updated             | Related issues   |
|------|---------------------------------|---------|---------|----------|---|----------|---------------------|--|
| 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 immedate re-assignment, assigning the other TCH kind from the start |          | 10/16/2018 01:15 PM | Related to #3482   |
| 3483 | OsmoBSC                         | Feature | New     | Normal   | handover decision: if rxlev is ok but rxqual is bad, move from TCH/H to TCH/F   | neels    | 10/16/2018 01:53 PM | Related to #3483   |
| 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 |  |
| 3505 | OsmoBSC                         | Feature | New     | Normal   | ttn3: test inter-BSC HO with encryption enabled   | neels    | 08/28/2018 06:38 PM | Related to #3505   |
| 3512 | gr-osmosdr                      | Support | New     | Normal   | Bug #3462 on Arch Linux; gr-osmosdr install fails   | horiz0n  | 01/26/2019 06:10 PM |  |
| 3521 | libosmocore                     | Feature | New     | Normal   | core/utls: engineering notation helpers   | fixeria  | 09/04/2018 08:32 PM |  |
| 3522 | libosmocore                     | Feature | New     | Low      | libosmocoding: move TCH ordering functions to libosmocodec and share them   | fixeria  | 09/04/2018 08:49 PM |  |
| 3531 | OP25                            | Bug     | New     | Normal   | Unknown status of the p25 wireshark plugin  |          | 10/06/2022 05:52 AM |  |
| 3557 | OsmocomBB                       | Bug     | New     | Normal   | trxcon: decoding errors after applying a new TCH mode   | fixeria  | 06/21/2019 11:56 AM |  |
| 3560 | OsmoGSMTester                   | Bug     | Stalled | Normal   | nanoBTS multiTRX tests in osmo-gsm-tester Prod setup failing  | pespin   | 09/04/2019 09:16 AM | Related to #3560,Related to #3560,Related to #3628,Is duplicate of #3475 |
| 3564 | OsmoGSMTester                   | Feature | New     | Normal   | Investigate ofono and modems Cell Broadcast support   |          | 01/08/2020 10:42 PM | Related to #3564   |
| 3566 | Misc Hardware Projects          | Feature | Stalled | Normal   | power supply / battery / charge for our GSM-R OPS 940   | laforge  | 04/02/2023 09:05 AM |  |
| 3567 | Cellular Network Infrastructure | Bug     | New     | Low      | coverity: move the secret token out of \$HOME/osmo-ci/.../  | lynxis   | 07/18/2019 05:22 AM |  |
| 3568 | OsmoBTS                         | Bug     | Stalled | High     | CBCH on SDCCH/8 not working for osmo-bts-sysmo  | laforge  | 01/14/2019 03:29 PM |  |
| 3569 | OsmoBTS                         | Bug     | Stalled | Normal   | Some phones don't receive SMS CB  | laforge  | 01/14/2019 03:32 PM |  |
| 3586 | OsmoBSC                         | Feature | New     | Normal   | support LCLS for inter-BSC handover   | neels    | 01/17/2019 04:18 PM | Related to #3586,Related to #3659  |
| 3588 | rtl-sdr                         | Bug     | New     | Normal   | Error Values Inconsistent   |          | 09/25/2018 12:47 PM |  |

| #    | Project                         | Tracker | Status   | Priority | Subject  | Assignee | Updated             | Related issues                                     |
|------|---------------------------------|---------|----------|----------|--|----------|---------------------|--|
| 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 |  |
| 3592 | gr-osmosdr                      | Bug     | New      | Normal   | rtl: Race Conditions   | horiz0n  | 07/18/2019 05:35 AM |  |
| 3593 | gr-osmosdr                      | Bug     | New      | Low      | rtl: 'len' argument ignored in librtlsdr callback  | horiz0n  | 07/18/2019 05:35 AM |  |
| 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 |  |
| 3597 | gr-osmosdr                      | Feature | New      | Low      | rtl: send final samples when device is lost  | horiz0n  | 07/18/2019 05:35 AM |  |
| 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 |  |
| 3620 | OsmoMSC                         | Feature | Stalled  | Normal   | Implement TTCN-3 testsuite for Inter-MSC HO  | neels    | 09/04/2019 09:08 AM |  |
| 3622 | libosmo-abis                    | Bug     | New      | Normal   | Clear API mess in sign_link_up callback  | pespin   | 10/02/2018 07:34 PM |  |
| 3628 | Cellular Network Infrastructure | Feature | New      | Low      | document nanoBTS calibration procedure using ipaccess-config tool                                | fixeria  | 02/06/2021 02:03 PM | Related to #3628                                   |
| 3629 | OsmocomBB                       | Bug     | New      | Normal   | mobile aborting after 'test re-selection 1' on vty   |          | 10/04/2018 02:58 PM |  |
| 3636 | OsmoMSC                         | Feature | New      | Normal   | detailed call statistics (with rate counters)  | osmith   | 10/08/2018 11:14 AM | Related to #3636                                   |
| 3637 | OsmoBSC                         | Bug     | Feedback | Normal   | handover decision 2: properly check available codecs   | neels    | 10/09/2018 09:45 AM | Related to #3637,Related to #3637                  |
| 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 |  |
| 3644 | OsmoHLR                         | Feature | New      | Normal   | allow arbitrary bytes in Global Title (GT), a.k.a. the VLR,SGSN's identification towards the HLR | neels    | 12/01/2019 10:02 AM | Related to #3644,Related to #3644                  |
| 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                                   |

| #    | Project                         | Tracker | Status      | Priority | Subject  | Assignee | Updated             | Related issues  |
|------|---------------------------------|---------|-------------|----------|--|----------|---------------------|---|
| 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  |
| 3656 | OsmoBSC                         | Feature | New         | Normal   | inter-BSC handover outgoing: compose Cell Identifier List from several ARFCN+BSIC                | neels    | 06/08/2020 07:08 PM | Related to #3656  |
| 3658 | Cellular Modem Information      | Feature | New         | Low      | Create a "osmocom-bb-host-latest" docker container   |          | 12/01/2019 09:07 AM | Related to #3658  |
| 3659 | OsmoBSC                         | Feature | Stalled     | High     | handover during LCLS directly between BTSs   | dexter   | 05/22/2023 09:23 AM | Related to #3659,Related to #3659,Related to #3659,Related to #3659,Related to #3659,Related to #3783 |
| 3663 | gr-osmosdr                      | Bug     | New         | Normal   | Can't compile gr-osmosdr on macOS Mojave   |          | 10/19/2018 02:37 PM |   |
| 3666 | OsmocomBB                       | Feature | New         | Normal   | trxcon: Introduce VTY interface  | fixeria  | 02/26/2020 02:43 PM | Related to #3667  |
| 3670 | Cellular Network Infrastructure | Feature | New         | Low      | TTCN-3 tests for statsd exporter code  |          | 09/04/2019 09:03 AM |   |
| 3672 | Osmocom Analog                  | Feature | New         | Normal   | Custom announcement and tones  | jolly    | 02/01/2021 10:25 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 libosmocore   |          | 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 |   |
| 3693 | libosmocore                     | Bug     | In Progress | Low      | gsm_04_08.h: numerous packed structs with sub-byte ints lack the order-swap shims for big endian |          | 11/19/2018 02:05 PM |   |
| 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 |   |

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