

## Issues

| #    | Project  | Tracker | Status      | Priority  | Subject  | Assignee  | Updated             | Related issues   |
|------|--|---------|-------------|-----------|--|-----------|---------------------|--|
| 5683 | Osmocom Libraries                              | Bug     | New         | Immediate | How to install osmocom in China  |           | 09/18/2022 10:18 AM |  |
| 3819 | gr-osmosdr                                     | Support | New         | Urgent    | OSMO SDR blocks for GNUradio   |           | 02/28/2019 06:00 PM |  |
| 4206 | Qualcomm Linux Modems by Quectel & Co          | Support | New         | Urgent    | Unbrick cpe router without web ui interface and terminal   |           | 02/22/2021 02:01 PM |  |
| 5481 | Open Source IMS Client                         | Feature | New         | Urgent    | SIM card interface for doubango  | laforge   | 03/25/2022 11:00 AM | Related to #5482   |
| 5861 | osmo-ePDG - VoWifi Evolved Packet Data Gateway | Feature | In Progress | Urgent    | extend charon with external authentication interface   | lynxis    | 02/07/2024 04:00 PM | Related to #5868   |
| 5106 | OsmoBSC  | Feature | Feedback    | Urgent    | Watchdog that would try to un-BORKE BORKen timeslots   | keith     | 02/07/2023 06:25 PM | Related to #5106,Related to #5785,Related to #5786,Related to #5106  |
| 6096 | OsmoGGSN (former OpenGGSN)                     | Feature | In Progress | Urgent    | add support for kernel-GTP IPv6  | osmith    | 03/25/2024 12:10 PM | Related to #6096,Related to #6106,Related to #6096,Blocks #6096  |
| 5574 | OsmoBSCNAT                                     | Bug     | New         | Urgent    | OsmoBSCNAT testsuite running in jenkins  | Hoernchen | 10/06/2022 11:46 AM | Related to #5574   |
| 5559 | OsmoMSC  | Bug     | Stalled     | Urgent    | OsmoMSC at 100% CPU and unresponsive for up to several minutes!                                      | laforge   | 08/04/2022 08:14 AM | Related to #5563   |
| 4308 | Distributed GSM                                | Support | New         | High      | thoughts about incorporating credit / billing in D-GSM   |           | 12/04/2019 04:08 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   |
| 4107 | Cellular Network Infrastructure                | Feature | In Progress | High      | Start systemd services as non-root user  | osmith    | 04/26/2024 09:08 AM | Related to #4107,Related to #4821,Related to #4107,Related to #5669,Related to #5685,Related to #5687,Related to #5722 |
| 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  |
| 2604 | Cellular Network Infrastructure                | Feature | Stalled     | High      | GSUP-to-DIAMETER converter / IWF   | laforge   | 02/29/2020 11:27 AM | Related to #5646   |
| 2175 | OP25   | Feature | New         | High      | Update code for GNURadio 3.6 and later   |           | 04/22/2017 04:14 PM |  |

| #    | Project  | Tracker | Status      | Priority | Subject  | Assignee | Updated             | Related issues   |
|------|--|---------|-------------|----------|--|----------|---------------------|--|
| 2173 | OP25   | Feature | New         | High     | Remove dependency on ET++  |          | 04/22/2017 04:14 PM |  |
| 2171 | OP25   | Feature | New         | High     | Use libfftw3 for IFFT/FFT functions.                                 |          | 04/22/2017 04:14 PM |  |
| 2167 | OP25   | Feature | New         | High     | Implement Encryption/Decryption P25 blocks                           |          | 04/22/2017 04:15 PM |  |
| 2166 | OP25   | Feature | New         | High     | Add support for Max's I/Q 455khz downconverter                       |          | 04/22/2017 04:15 PM |  |
| 2160 | OP25   | Feature | New         | High     | Add "datascope" to usrp_p25_rx.py                                    |          | 04/22/2017 04:16 PM |  |
| 2158 | OP25   | Feature | New         | High     | Create a shared library for decoding for WireShark and the decoder.  |          | 04/22/2017 04:16 PM |  |
| 2157 | OP25   | Feature | New         | High     | Fix "traffic" tab so it displays data for non-HDU data units         |          | 04/22/2017 04:16 PM |  |
| 2156 | OP25   | Feature | New         | High     | Implement forward error correction for HDU.                          |          | 04/22/2017 04:16 PM |  |
| 2155 | OP25   | Feature | New         | High     | Replace FSK4 demodulation with IQ demodulator stage.                 |          | 04/22/2017 04:16 PM |  |
| 5480 | Open Source IMS Client                                 | Feature | In Progress | High     | Linux kernel IPsec plugin for doubango                               | laforge  | 03/25/2022 10:44 AM |  |
| 4522 | osmo-gbproxy   | Feature | Stalled     | High     | gbproxy: Redundancy within proxy pair                                | daniel   | 07/09/2021 06:43 PM |  |
| 5755 | OsmoBSC  | Feature | In Progress | High     | io_uring support in osmo-bsc   | jolly    | 03/02/2024 08:06 PM | Related to #5755,Related to #6357  |
| 4940 | OsmoBSC  | Feature | Stalled     | High     | VAMOS support in OsmoBSC   | neels    | 08/11/2021 02:47 PM | Related to #4941   |
| 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 #3659,Related to #3783 |
| 5256 | OsmoBTS  | Feature | New         | High     | support for random padding in LAPDm downlink messages                |          | 10/12/2021 11:17 AM | Related to #5256   |
| 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  |
| 3977 | OsmoCBC  | Feature | New         | High     | SABP stream delineation routines                                     | laforge  | 09/23/2019 04:49 AM | Related to #3979,Related to #4944  |
| 6290 | Osmocom Conferences (OsmoDevCon, OsmoCon, OsmoDevCall) | Feature | In Progress | High     | Organize OsmoDevCon 2024   | laforge  | 03/06/2024 12:06 PM |  |
| 3399 | OsmocomBB  | Feature | Stalled     | High     | mobile: refactor / finish external MNCC handler implementation       | fixeria  | 10/04/2018 09:07 PM |  |
| 2409 | OsmocomBB  | Feature | Stalled     | High     | Add GPRS support to virt_phy and L1CTL                               | fixeria  | 08/19/2022 03:06 PM |  |
| 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  |

| #    | Project                         | Tracker | Status      | Priority | Subject   | Assignee  | Updated             | Related issues                    |
|------|---------------------------------|---------|-------------|----------|---|-----------|---------------------|-----------------------------------|
| 6223 | OsmoGGSN (former OpenGGSN)      | Feature | In Progress | High     | TTCN3 unit test[s] for GTPv1U with extension headers  | osmith    | 01/31/2024 08:19 PM | Related to #6223                  |
| 1560 | OsmoPCU                         | Feature | New         | High     | EDGE benchmarking / performance optimization / tuning   |           | 01/08/2020 10:31 PM |                                   |
| 6294 | OsmoSGSN                        | Feature | New         | High     | Support GN/Gp interoperation procedures between SGSN and MME  | daniel    | 04/22/2024 06:04 PM | Related to #6294,Related to #6439 |
| 5516 | OsmoTRX                         | Feature | In Progress | High     | BladeRF 2.0 Support   | Hoernchen | 02/14/2023 02:59 PM | Is duplicate of #2430             |
| 1510 | UmTRX                           | Feature | New         | High     | Complete UHD integration  | ipse      | 02/21/2016 04:47 PM |                                   |
| 1508 | UmTRX                           | Feature | New         | High     | Implement UmSEL diversity switch control  | ipse      | 02/21/2016 04:47 PM |                                   |
| 1507 | UmTRX                           | Feature | New         | High     | Implement UmSEL tuner control   | ipse      | 02/21/2016 04:47 PM |                                   |
| 4578 | Cellular Network Infrastructure | Bug     | New         | High     | Updated slides / presentations / videos on setting up Osmocom CNI   | laforge   | 02/13/2021 05:35 PM |                                   |
| 4576 | Core testing infrastructure     | Bug     | Stalled     | High     | ttn3-hlr-tests need to route multicast traffic between ttn3-hlr-test and osmo-hlr-master containers               | neels     | 10/28/2020 09:48 PM |                                   |
| 5571 | Ericsson RBS 6xxx               | Bug     | New         | High     | DUG can come up, but with Avail: "Power Off"  | dexter    | 11/08/2022 05:10 PM |                                   |
| 5731 | gr-osmosdr                      | Bug     | New         | High     | Install gr-osmosdr on Ubuntu 20.04  |           | 10/27/2022 01:39 PM |                                   |
| 5425 | gr-osmosdr                      | Bug     | New         | High     | Problem receiving samples using dual receivers with BladeRF   |           | 01/29/2022 04:22 AM |                                   |
| 5144 | gr-osmosdr                      | Bug     | New         | High     | Support multiple Airspy devices   | horiz0n   | 10/21/2023 07:22 PM |                                   |
| 3734 | gr-osmosdr                      | Bug     | New         | High     | Cannot compile gr-osmocom   |           | 12/16/2018 12:22 AM |                                   |
| 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 |                                   |
| 5931 | libosmo-netif                   | Bug     | New         | High     | heap-use-after-free when osmo_stream_srv_destroy() is called inside read_cb()                                     | daniel    | 03/02/2023 11:03 AM |                                   |
| 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 |
| 1483 | Mobile (in)Security             | Bug     | New         | High     | USSD state is not reset when switching cells  |           | 02/21/2016 04:34 PM |                                   |
| 1481 | Mobile (in)Security             | Bug     | New         | High     | Random LAPDm MAC-block padding is not deployed yet  |           | 02/21/2016 04:34 PM | Related to #5256,Related to #5257 |
| 1480 | Mobile (in)Security             | Bug     | New         | High     | A5/3 is not deployed in GSM networks  |           | 02/21/2016 04:34 PM |                                   |
| 1478 | Mobile (in)Security             | Bug     | New         | High     | IMSI DETACH DoS   |           | 09/02/2019 09:00 AM |                                   |
| 1477 | Mobile (in)Security             | Bug     | New         | High     | RACH flood DoS  |           | 02/21/2016 04:34 PM |                                   |
| 2172 | OP25                            | Bug     | New         | High     | HDU often missing in captures   |           | 04/22/2017 04:14 PM |                                   |
| 2170 | OP25                            | Bug     | New         | High     | Implement forward error-correction code, remove IT++ dependency   |           | 04/22/2017 04:14 PM |                                   |
| 2169 | OP25                            | Bug     | New         | High     | First-cut of trunking support   |           | 04/22/2017 04:15 PM |                                   |

| #    | Project  | Tracker | Status      | Priority | Subject   | Assignee  | Updated             | Related issues                                     |
|------|--|---------|-------------|----------|---|-----------|---------------------|--|
| 2168 | OP25   | Bug     | New         | High     | Implement Forward error correction for LDU1/2   |           | 04/22/2017 04:15 PM |  |
| 2162 | OP25   | Bug     | New         | High     | Fix bit-ordering in output for VC55.  |           | 04/22/2017 04:15 PM |  |
| 6169 | osmo-e1d                                       | Bug     | New         | High     | Frame masking against network frame ordering, not frame numbers                           | laforge   | 10/18/2023 03:19 PM |  |
| 4916 | osmo-e1d                                       | Bug     | Stalled     | High     | USB unplug / replug renders e1d unusable  | laforge   | 12/04/2023 12:34 PM | Related to #5983                                   |
| 6091 | osmo-ePDG - VoWifi Evolved Packet Data Gateway | Bug     | Feedback    | High     | osmo-epdg: Implement CEAL interface (GSUP) ePDG <> strongswan                             | lynxis    | 03/14/2024 04:36 PM |  |
| 4781 | osmo-qcdiag                                    | Bug     | New         | High     | get hoernchen/gsmtap branch merged  | Hoernchen | 10/06/2020 03:18 PM |  |
| 5527 | osmo-remsim                                    | Bug     | Stalled     | High     | warn on duplicate client (id) connections   | laforge   | 07/13/2022 01:25 PM | Related to #5527                                   |
| 5257 | OsmoBTS  | Bug     | New         | High     | support random padding in SACCH downlink messages   |           | 10/12/2021 11:18 AM | Related to #5257                                   |
| 4771 | OsmoBTS  | Bug     | Stalled     | High     | Don't log NOTICE messages on missing uplink bursts  | fixeria   | 11/16/2021 03:05 PM |  |
| 4008 | OsmoBTS  | Bug     | Feedback    | High     | Channel Activation starts SACCH too early in Asynchronous Handover                        |           | 03/11/2022 12:47 PM | Related to #4008,Related to #4010,Related to #4009 |
| 3568 | OsmoBTS  | Bug     | Stalled     | High     | CBCH on SDCCH/8 not working for osmo-bts-sysmo  | laforge   | 01/14/2019 03:29 PM |  |
| 6337 | OsmocomBB                                      | Bug     | New         | High     | bad fr audio with gapk/ms-sdr   |           | 01/22/2024 09:21 PM | Related to #6337                                   |
| 6200 | OsmocomBB                                      | Bug     | New         | High     | osmo-trx-ms: lots of @Received bad frame (rc=-1, ber=444/444)@                            | Hoernchen | 10/05/2023 06:02 PM | Related to #6342,Blocks #6200                      |
| 4829 | OsmocomBB                                      | Bug     | Stalled     | High     | OsmocomBB Rx bit errors in dedicated mode   | laforge   | 02/06/2021 09:11 AM | Related to #4832                                   |
| 4658 | OsmocomBB                                      | Bug     | Stalled     | High     | Wrong burst order in a multi-trx setup  | fixeria   | 09/14/2020 10:18 AM | Related to #4658,Related to #4658                  |
| 1462 | OsmocomBB                                      | Bug     | New         | High     | ../src/utlis.c:182:7: error: only weak aliases are supported in this configuration        |           | 02/21/2016 04:48 PM |  |
| 1458 | OsmocomBB                                      | Bug     | New         | High     | AGC broken (strong cell cannot be synced  | tnt       | 07/18/2019 06:10 AM | Related to #3582                                   |
| 5396 | OsmocomDECT                                    | Bug     | New         | High     | TcpDump/WireShark will not build with libpcap(dect)                                       |           | 01/09/2022 12:57 PM |  |
| 5394 | OsmocomDECT                                    | Bug     | New         | High     | Kernel Oops when loading com_on_air_cs (unable to handle kernel NULL pointer dereference) |           | 01/09/2022 12:54 PM |  |
| 5393 | OsmocomDECT                                    | Bug     | New         | High     | tipc problems while building on Ubuntu  |           | 01/09/2022 12:48 PM |  |
| 5392 | OsmocomDECT                                    | Bug     | New         | High     | Sliding collision errors  |           | 01/09/2022 12:44 PM |  |
| 4312 | OsmoHLR  | Bug     | New         | High     | GSUP keepalives / connection loss detection   |           | 10/12/2020 02:42 PM |  |
| 3717 | OsmoHLR  | Bug     | Stalled     | High     | SS/USSD: fix SS session inactivity timeout  | fixeria   | 12/05/2018 08:45 PM |  |
| 6424 | OsmoMGW  | Bug     | In Progress | High     | TC_one_crcx_loopback_rtp_implicit consistently failing in master, but passes on latest    | neels     | 03/27/2024 08:17 PM |  |

| #    | Project  | Tracker | Status      | Priority | Subject  | Assignee  | Updated             | Related issues  |
|------|----------|---------|-------------|----------|--|-----------|---------------------|---|
| 5564 | OsmoMSC  | Bug     | Stalled     | High     | blocking database I/O by SMS database  | laforge   | 05/16/2022 08:20 PM | Related to #5564,Related to #5566,Related to #5564                  |
| 5563 | OsmoMSC  | Bug     | Stalled     | High     | OsmoMSC sometimes stalls for dozens of seconds in a production deployment                                  | laforge   | 08/04/2022 08:15 AM | Related to #5564,Related to #5563,Related to #5566                  |
| 5057 | OsmoMSC  | Bug     | New         | High     | Can only send a maximum of 15 SMPP messages?   | Hoernchen | 09/15/2021 09:53 AM |   |
| 4830 | OsmoMSC  | Bug     | In Progress | High     | LU reject when no authentication data in HLR but "authentication optional"                                 | neels     | 10/10/2022 02:03 PM |   |
| 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 |
| 6436 | OsmoPCU  | Bug     | New         | High     | high cpu usage, entire BTS unresponsive after some hours   | keith     | 04/13/2024 04:32 PM |   |
| 4879 | OsmoPCU  | Bug     | Stalled     | High     | endless pdch.cpp:809 Got CS-N RLC block: R=0, SI=0, TFI=0, CPS=0, RSB=0, rc=264                            | fixeria   | 07/28/2023 02:46 PM |   |
| 3928 | OsmoPCU  | Bug     | Stalled     | High     | Missing PCU_Tests.ttcn for various timers / time-outs  | pespin    | 11/15/2021 05:46 PM | Related to #5033  |
| 3926 | OsmoPCU  | Bug     | Stalled     | High     | Missing PCU_Tests.ttcn DL TBF tests  | pespin    | 03/01/2021 11:06 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                  |
| 1925 | OsmoPCU  | Bug     | New         | High     | Fix padding for MCS8 transition  |           | 01/08/2020 10:31 PM |   |
| 1766 | OsmoPCU  | Bug     | In Progress | High     | KPIs for OsmoPCU: EGPRS  |           | 01/22/2020 02:06 PM | Related to #1766,Related to #1766                                   |
| 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                                   |
| 5880 | OsmoSGSN | Bug     | In Progress | High     | User Manual sections 11.1.1-2 document non-existing (removed?) VTY commands                                | lynxis    | 03/28/2023 02:45 PM |   |
| 5349 | OsmoSGSN | Bug     | In Progress | High     | Message for non-existing SNDSCP Entity   |           | 07/17/2023 04:42 PM |   |
| 4605 | OsmoSGSN | Bug     | New         | High     | GMM_ATTACH_REQ_FSM: Event E_AUTH_RESP_RECV_SUCCESS not permitted   | lynxis    | 06/13/2020 06:16 PM | Related to #4605  |
| 4222 | OsmoSGSN | Bug     | New         | High     | Implement PS Paging for the Routing Areas  |           | 10/03/2020 02:20 PM | Related to #4222  |
| 2955 | OsmoSGSN | Bug     | New         | High     | No GMM ATTACH REJECT on GSUP UpdateLocation Error  | lynxis    | 09/10/2019 07:39 PM |   |
| 4622 | OsmoTRX  | Bug     | New         | High     | Lots of "dumping STALE burst in TRX->SDR interface" messages in osmo-trx after osmo-bts-trx proper restart | Hoernchen | 07/06/2020 11:57 AM |   |

| #    | Project                                      | Tracker | Status      | Priority | Subject   | Assignee  | Updated             | Related issues                                     |
|------|--|---------|-------------|----------|---|-----------|---------------------|--|
| 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     |
| 4383 | pySim  | Bug     | Stalled     | High     | Jenkins build verification is non-deterministic   | dexter    | 04/06/2021 04:58 PM | Related to #4384,Related to #5127                  |
| 1474 | SDR (Software Defined Radio)                 | Bug     | New         | High     | USB Claim Interface Error   | steve-m   | 02/20/2016 08:23 PM |  |
| 5921 | SIMtrace 2                                   | Bug     | In Progress | High     | simtrace2 cardem vs. Linux kernel USB autosuspend   | laforge   | 09/16/2023 10:47 PM | Related to #5921                                   |
| 5419 | SIMtrace 2                                   | Bug     | Stalled     | High     | cardem errors with higher baud rate   | laforge   | 11/07/2022 06:22 PM |  |
| 3379 | SIMtrace 2                                   | Bug     | Stalled     | High     | documentation on how to use SIMtrace2   | laforge   | 11/14/2022 05:31 PM | Related to #3379                                   |
| 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                  |
| 1505 | UmTRX  | Bug     | New         | High     | OHM4 footprint incorrect  |           | 02/19/2016 10:52 PM |  |
| 4333 | Cellular Network Infrastructure              | Support | Feedback    | Normal   | GSUP binary compatibility: add GSUP protocol version IE?                                      |           | 12/16/2019 01:56 PM | Related to #4333,Related to #4333,Related to #4333 |
| 6434 | E1/T1 Hardware Interface (including icE1usb) | Support | New         | Normal   | D-channel do not recover after underrun   |           | 04/27/2024 09:03 PM |  |
| 6416 | E1/T1 Hardware Interface (including icE1usb) | Support | Feedback    | Normal   | Serial debug tty port speed   | plassberg | 03/22/2024 06:52 PM |  |
| 6412 | E1/T1 Hardware Interface (including icE1usb) | Support | New         | Normal   | No alignment  | tnt       | 03/27/2024 01:46 PM |  |
| 4534 | Ericsson RBS 6xxx                            | Support | Stalled     | Normal   | Take pictures of RBS6k gear for documentation   | roh       | 05/20/2020 03:19 PM |  |
| 3512 | gr-osmosdr                                   | Support | New         | Normal   | Bug #3462 on Arch Linux; gr-osmosdr install fails   | horiz0n   | 01/26/2019 06:10 PM |  |
| 2677 | libosmocore                                  | Support | New         | Normal   | Make stat_item available over ctrl interface  |           | 09/04/2019 09:21 AM | Related to #2676                                   |
| 4593 | OP25   | Support | New         | Normal   | Link to samples on the wiki is dead   | matt      | 06/07/2020 06:53 PM |  |
| 4225 | OP25   | Support | New         | Normal   | Missing rules in cmake lists?   | 2CS350    | 10/12/2019 02:49 PM |  |
| 4621 | OsmoBSC                                      | Support | New         | Normal   | feedback: osmo-bsc modifies the LAI in LU Accept messages, and the MM info data               | neels     | 02/06/2021 09:50 AM |  |
| 3863 | OsmoBTS                                      | Support | Stalled     | Normal   | setup testing of osmo-bts-oc2g on real hardware with ttcn3 and osmocon/osmocom-bb             |           | 12/01/2019 10:52 AM |  |
| 3751 | OsmoBTS                                      | Support | New         | Normal   | Ensure BTS Tests.ttcn results of OC-2G resemble what we know/expect from osmo-bts-{sysmo,trx} |           | 12/01/2019 10:52 AM |  |
| 4581 | OsmocomBB                                    | Support | New         | Normal   | compiler error assert.h no such file  |           | 06/05/2020 09:54 AM |  |

| #    | Project                               | Tracker | Status      | Priority | Subject   | Assignee | Updated             | Related issues   |
|------|---------------------------------------|---------|-------------|----------|---|----------|---------------------|--|
| 4471 | OsmocomBB                             | Support | New         | Normal   | Received FTMT00L from phone, ramloader has aborted  |          | 03/29/2020 11:18 AM |  |
| 3931 | OsmoGSMTester                         | Support | New         | Normal   | Contact quectel to get info about modem updates (hopefully less crashes)  |          | 01/08/2020 10:56 PM | Related to #3931   |
| 2504 | OsmoGSMTester                         | Support | New         | Normal   | check whether running osmo-* from docker images is feasible on osmo-gsm-tester                                      |          | 04/06/2020 11:28 AM |  |
| 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   |
| 6153 | OsmoHNodeB                            | Support | Feedback    | Normal   | List of supported FemtoCell   | Kira     | 08/28/2023 02:24 PM |  |
| 4612 | OsmoMSC                               | Support | New         | Normal   | test handover on non-voice call conn (no CC transaction present)  |          | 06/14/2020 12:21 PM |  |
| 3920 | OsmoSGSN                              | Support | In Progress | Normal   | PCAPs files of 3G PS for Osmocom network and Commercial one   |          | 04/18/2019 02:03 PM | Related to #3920,Related to #3936,Related to #3923,Related to #3937,Related to #3922 |
| 4365 | OsmoTRX                               | Support | Stalled     | Normal   | Create testsuite to test osmo-bts-trx+osmo-trx under high channel load  | dexter   | 09/03/2020 10:33 AM | Related to #4366   |
| 4135 | Qualcomm Linux Modems by Quectel & Co | Support | New         | Normal   | how to use network inside ec20  |          | 07/31/2019 11:20 AM |  |
| 4367 | rtl-sdr                               | Support | New         | Normal   | "Communications Toolbox Support Package for RTL-SDR Radio" from "Mathworks Matlab" appears to be with broken links? | steve-m  | 01/21/2020 08:52 PM |  |
| 4080 | rtl-sdr                               | Support | New         | Normal   | Receiving UTAs on 978 Mhz   |          | 07/02/2019 12:08 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 |  |
| 2764 | SDR (Software Defined Radio)          | Support | New         | Normal   | osmocom_fft & siggen can't access the X display   |          | 12/15/2017 06:09 PM |  |
| 4638 | Altair LTE Modems                     | Feature | New         | Normal   | Mikrotik R11e-4G mtd dump   |          | 06/13/2021 10:15 AM |  |
| 4341 | BBS-Revival                           | Feature | New         | Normal   | setup for telnet access to legacy BBS software which doesn't have telnet/tcp support                                | laforge  | 10/03/2022 12:09 PM |  |
| 4525 | Cellular Modem Information            | Feature | New         | Normal   | MTK   |          | 05/03/2020 03:57 PM | Is duplicate of #4525  |
| 6069 | Cellular Network Infrastructure       | Feature | In Progress | Normal   | port hello-stk to ant-based build like mrlnc/HelloSTK2  | dexter   | 11/02/2023 12:52 PM |  |
| 5929 | Cellular Network Infrastructure       | Feature | In Progress | Normal   | document current (milestones of) nlnet funded projects; mention nlnet funding                                       | laforge  | 04/04/2023 10:05 AM |  |
| 5771 | Cellular Network Infrastructure       | Feature | New         | Normal   | series of presentations about the individual CNI network elements   |          | 11/14/2022 07:25 PM |  |
| 5446 | Cellular Network Infrastructure       | Feature | New         | Normal   | correlate git version to ttcn3 tests  |          | 02/07/2022 09:40 PM | Related to #5446   |

| #    | Project                                      | Tracker | Status      | Priority | Subject   | Assignee | Updated             | Related issues  |
|------|--|---------|-------------|----------|---|----------|---------------------|---|
| 5124 | Cellular Network Infrastructure              | Feature | Feedback    | Normal   | network:osmocom:nightly feed with "-00" builds  | laforge  | 05/11/2023 11:11 AM |   |
| 5045 | Cellular Network Infrastructure              | Feature | New         | Normal   | write libversion "major" on build files automatically based on LIBVERSION                       | pespin   | 02/24/2021 01:14 PM |   |
| 4376 | Cellular Network Infrastructure              | Feature | New         | Normal   | Define distinct X timer numbers across all osmo programs  |          | 01/23/2020 09:21 PM |   |
| 4091 | Cellular Network Infrastructure              | Feature | New         | Normal   | Osmux: Make sure all handover types work fine if a call leg is using Osmux between BSC and MSC. | pespin   | 06/08/2020 07:08 PM |   |
| 4006 | Cellular Network Infrastructure              | Feature | Stalled     | Normal   | TRX protocol: wind of change  | fixeria  | 10/27/2021 10:22 PM | Related to #4006,Related to #4006,Related to #4081,Related to #4658,Related to #4941,Related to #5283 |
| 3227 | Cellular Network Infrastructure              | Feature | New         | Normal   | general idea: separate GSUP spec document   | roh      | 12/01/2019 09:26 AM | Is duplicate of #3227   |
| 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                      |
| 6242 | Core testing infrastructure                  | Feature | New         | Normal   | Test eUPF against ttcn3-upf-test setup  |          | 12/18/2023 11:33 AM |   |
| 6023 | Core testing infrastructure                  | Feature | Stalled     | Normal   | test rack/lab power management software with usage/reference counting                           | laforge  | 10/18/2023 05:42 PM |   |
| 5762 | Core testing infrastructure                  | Feature | New         | Normal   | Develop TTCN-3 test suite for PGW   |          | 11/10/2022 06:38 PM |   |
| 5761 | Core testing infrastructure                  | Feature | New         | Normal   | Develop TTCN-3 test suite for SGW   |          | 11/09/2022 09:49 PM |   |
| 5760 | Core testing infrastructure                  | Feature | Stalled     | Normal   | Develop TTCN-3 test suite for MME   | dexter   | 10/04/2023 01:51 PM |   |
| 5323 | Core testing infrastructure                  | Feature | New         | Normal   | Add docker image containing titan.core master   |          | 12/15/2021 04:43 PM | Related to #6187  |
| 4692 | Core testing infrastructure                  | Feature | Stalled     | Normal   | finally implement testing of the actual voice audio path  | laforge  | 04/19/2021 06:27 PM |   |
| 6417 | E1/T1 Hardware Interface (including icE1usb) | Feature | In Progress | Normal   | CRC4 configuration  | tnt      | 04/27/2024 03:46 PM |   |
| 5710 | E1/T1 Hardware Interface (including icE1usb) | Feature | New         | Normal   | rs422: Merge as much of the gateway in master as possible                                       | tnt      | 10/13/2022 06:53 PM | Related to #5710  |



| #    | Project                                      | Tracker | Status      | Priority | Subject   | Assignee | Updated             | Related issues                    |
|------|--|---------|-------------|----------|---|----------|---------------------|-----------------------------------|
| 5709 | E1/T1 Hardware Interface (including icE1usb) | Feature | New         | Normal   | rs422: Merge as much of the firmware into master to avoid separate branch                 | tnt      | 10/13/2022 06:49 PM | Related to #5709                  |
| 5307 | Ericsson RBS 6xxx                            | Feature | New         | Normal   | Support for Multiple Sectors at an RBS site.  |          | 11/13/2021 08:20 PM |                                   |
| 5808 | gr-osmosdr                                   | Feature | New         | Normal   | New option, for selecting an input channel of a soapy_source_c                            |          | 12/05/2022 11:45 AM |                                   |
| 3802 | gr-osmosdr                                   | Feature | New         | Normal   | New release   | horiz0n  | 02/15/2019 07:22 AM |                                   |
| 3596 | gr-osmosdr                                   | Feature | New         | Normal   | TX Tags   |          | 09/25/2018 04:01 PM |                                   |
| 3595 | gr-osmosdr                                   | Feature | New         | Normal   | RX Tags   |          | 09/25/2018 04:01 PM |                                   |
| 3594 | gr-osmosdr                                   | Feature | New         | Normal   | Message Commands  |          | 09/25/2018 03:59 PM |                                   |
| 3414 | gr-osmosdr                                   | Feature | New         | Normal   | Include Airspy serial number in connection string.  | horiz0n  | 07/24/2018 04:52 AM |                                   |
| 4495 | IMSI Pseudonymization                        | Feature | New         | Normal   | Specification: More references  | neels    | 05/27/2020 01:11 PM |                                   |
| 4494 | IMSI Pseudonymization                        | Feature | New         | Normal   | Specification: Add bibliography   | neels    | 05/27/2020 01:11 PM |                                   |
| 4493 | IMSI Pseudonymization                        | Feature | New         | Normal   | Specification: Cover 2G, 3G and 4G separately   | neels    | 05/27/2020 01:11 PM |                                   |
| 4490 | IMSI Pseudonymization                        | Feature | New         | Normal   | Specification: how would IMSI-pseudo interact within a combined (2G-4G)+5G network?       |          | 04/16/2020 08:44 AM |                                   |
| 4489 | IMSI Pseudonymization                        | Feature | New         | Normal   | Specification: mark mandatory parts / implementation details as such                      |          | 04/16/2020 08:44 AM |                                   |
| 4486 | IMSI Pseudonymization                        | Feature | New         | Normal   | Applet: gracefully handle case where timer is set twice                                   |          | 04/16/2020 08:45 AM |                                   |
| 4479 | IMSI Pseudonymization                        | Feature | New         | Normal   | Applet: change IMSI after receiving SMS   |          | 04/16/2020 08:45 AM |                                   |
| 4478 | IMSI Pseudonymization                        | Feature | New         | Normal   | Applet: proper warning after too many LU with same IMSI                                   |          | 04/16/2020 08:45 AM | Related to #4478                  |
| 4477 | IMSI Pseudonymization                        | Feature | New         | Normal   | OsmoHLR: send next pseudo IMSI via SMS  |          | 04/16/2020 08:45 AM | Blocks #4477,Blocks #4477         |
| 4476 | IMSI Pseudonymization                        | Feature | Stalled     | Normal   | OsmoHLR: support IMSI pseudo in location update   | neels    | 05/27/2020 01:11 PM | Blocks #4477                      |
| 4404 | IMSI Pseudonymization                        | Feature | Stalled     | Normal   | Research: Make sure that we can silently detach the IMSI                                  |          | 04/15/2020 10:06 AM | Related to #4404,Related to #4480 |
| 4403 | IMSI Pseudonymization                        | Feature | Feedback    | Normal   | OsmoHLR: How to interface with SMS service?   |          | 04/16/2020 08:45 AM | Blocks #4477                      |
| 5691 | libosmo-abis                                 | Feature | Stalled     | Normal   | Expose DAHDI statistics to prometheus   | laforge  | 01/05/2023 06:06 PM |                                   |
| 5648 | libosmo-pfcp                                 | Feature | New         | Normal   | implement common PFCP CPF client VTY config   |          | 08/17/2022 03:29 PM | Related to #5648                  |
| 6239 | libosmo-sccp + libosmo-sigtran               | Feature | New         | Normal   | finally deprecate libosmo-sccp (headers, static lib)                                      |          | 10/31/2023 07:31 PM |                                   |
| 5917 | libosmo-sccp + libosmo-sigtran               | Feature | Feedback    | Normal   | immediately detect SCTP SHUTDOWN in SCCP link / in SCCP user / in active SCCP connections | neels    | 03/20/2023 10:23 AM |                                   |
| 5679 | libosmo-sccp + libosmo-sigtran               | Feature | In Progress | Normal   | unsupported SCCP user primitive N-PCSTATE.indication                                      | neels    | 02/18/2023 01:46 AM |                                   |
| 4635 | libosmo-sccp + libosmo-sigtran               | Feature | New         | Normal   | quirks when initializing SS7 ASP  |          | 06/25/2020 04:46 PM | Related to #4635                  |

| #    | Project                                  | Tracker | Status   | Priority | Subject   | Assignee   | Updated             | Related issues                         |
|------|--|---------|----------|----------|---|------------|---------------------|--|
| 6388 | libosmocore                              | Feature | New      | Normal   | stats_reporter via osmo_io / io_uring?  |            | 03/02/2024 04:54 PM | Related to #6388                       |
| 6344 | libosmocore                              | Feature | New      | Normal   | New TS 24.008 Bearer Capability codec API   |            | 01/24/2024 11:19 PM | Related to #6344                       |
| 5507 | libosmocore                              | Feature | New      | Normal   | Optimize reset time after SGSN is restarted                                       | lynxis     | 03/31/2022 12:33 PM |  |
| 4727 | libosmocore                              | Feature | Feedback | Normal   | Add more distro/platform/archs to jenkins CI                                      | laforge    | 05/15/2023 09:48 AM | Is duplicate of #4789                  |
| 4591 | libosmocore                              | Feature | New      | Normal   | Export FSM states and statistics with counters                                    |            | 03/24/2021 12:34 PM |  |
| 4590 | libosmocore                              | Feature | New      | Normal   | Export talloc data as counters for better memory leakage monitoring in production |            | 09/12/2022 03:53 PM |  |
| 4105 | libosmocore                              | Feature | New      | Normal   | Support for LTE key derivation functions  | laforge    | 07/13/2019 02:07 AM | Related to #4105                       |
| 3521 | libosmocore                              | Feature | New      | Normal   | core/utills: engineering notation helpers   | fixeria    | 09/04/2018 08:32 PM |  |
| 3309 | libosmocore                              | Feature | New      | Normal   | osmo_timer_* should use monotonic clock   |            | 05/31/2018 03:59 PM | Related to #3309                       |
| 1987 | libosmocore                              | Feature | New      | Normal   | gcov code coverage test support   |            | 12/01/2019 01:42 PM | Related to #1987,Is duplicate of #1987 |
| 1716 | libosmocore                              | Feature | New      | Normal   | enhance unit test coverage  |            | 08/17/2016 03:57 PM | Related to #1987,Precedes #1717        |
| 2815 | linmodem                                 | Feature | New      | Normal   | modern ptmx / pty handling (UNIX 98)  |            | 01/01/2018 02:48 PM |  |
| 2801 | linmodem                                 | Feature | New      | Normal   | V.90 completion   |            | 01/01/2018 12:18 PM |  |
| 2800 | linmodem                                 | Feature | New      | Normal   | Interop testing with real modems  |            | 01/01/2018 12:16 PM |  |
| 2799 | linmodem                                 | Feature | New      | Normal   | SIP client support  |            | 01/01/2020 08:05 PM |  |
| 2798 | linmodem                                 | Feature | New      | Normal   | ALSA Soundcard Support  |            | 01/01/2018 12:02 PM |  |
| 6103 | Linux Kernel GTP-U                       | Feature | Feedback | Normal   | move from 1:1 relationship of UDP socket and net-device to a N:M relationship     | pablo      | 10/06/2023 10:49 AM | Related to #6106                       |
| 1832 | Linux Kernel GTP-U                       | Feature | New      | Normal   | OpenvSwitch GTP-u patch for 2.5   |            | 10/27/2016 08:56 AM |  |
| 5002 | M.2 (NGFF) WWAN modem USB breakout board | Feature | New      | Normal   | Ensure current return paths via M.2 connector are sufficient                      | mschramm   | 03/23/2021 06:48 PM |  |
| 3566 | Misc Hardware Projects                   | Feature | Stalled  | Normal   | power supply / battery / charge for our GSM-R OPS 940                             | laforge    | 04/02/2023 09:05 AM |  |
| 3847 | Miscellaneous Projects                   | Feature | New      | Normal   | Osmocom logo with/for black background  | tsaitgaist | 12/10/2019 11:53 AM |  |
| 3038 | multi-voltage USB UART                   | Feature | New      | Normal   | Add mounting holes?   |            | 03/07/2018 02:12 AM |  |
| 5546 | OCTOI - Osmocom Community TDM over IP    | Feature | New      | Normal   | build frame relay "hub" similar to ISDN "hub"                                     |            | 04/24/2022 03:03 PM |  |
| 5443 | OCTOI - Osmocom Community TDM over IP    | Feature | New      | Normal   | possibility to transmit frames from multiple lines in one packet                  |            | 02/06/2022 08:15 AM |  |
| 5442 | OCTOI - Osmocom Community TDM over IP    | Feature | New      | Normal   | ensure sequence number covers longer duration than default PRI LOS timer          | laforge    | 02/06/2022 08:16 AM |  |

| #    | Project  | Tracker | Status      | Priority | Subject   | Assignee | Updated             | Related issues                     |
|------|--|---------|-------------|----------|---|----------|---------------------|------------------------------------|
| 5434 | OCTOI - Osmocom Community TDM over IP          | Feature | Stalled     | Normal   | more statistics / counters  |          | 12/03/2023 11:17 AM |                                    |
| 5429 | OCTOI - Osmocom Community TDM over IP          | Feature | New         | Normal   | authentication in TDMoIP protocol   | laforge  | 11/07/2022 05:29 PM |                                    |
| 4455 | OP25   | Feature | New         | Normal   | AMBE CODEC  |          | 03/28/2020 09:53 PM |                                    |
| 5484 | Open Source IMS Client                         | Feature | New         | Normal   | create setup for nested IPsec (doubango on top of StrongSWAN)                 |          | 03/07/2022 11:19 AM |                                    |
| 5483 | Open Source IMS Client                         | Feature | New         | Normal   | SIM card interface for strongswan   |          | 03/07/2022 03:19 PM |                                    |
| 5482 | Open Source IMS Client                         | Feature | New         | Normal   | VoWiFi client for creating [outer] IPsec tunnel to ePDG                       |          | 03/07/2022 09:33 PM | Related to #5482                   |
| 6319 | Osmo-CC  | Feature | New         | Normal   | protocol version should have a defined end marker                             | neels    | 01/10/2024 01:31 PM |                                    |
| 4810 | osmo-clock-conv                                | Feature | New         | Normal   | horizontal DC input on rear side of PCB                                       | mschramm | 10/15/2020 10:53 PM |                                    |
| 5633 | osmo-clock-gen                                 | Feature | New         | Normal   | towards a first osmo-clock-gen production batch                               | laforge  | 07/26/2022 12:39 PM |                                    |
| 4917 | osmo-e1d                                       | Feature | Stalled     | Normal   | reporting of alarms/errors known to the icE1usb                               | laforge  | 04/10/2022 10:36 AM |                                    |
| 6408 | osmo-ePDG - VoWiFi Evolved Packet Data Gateway | Feature | New         | Normal   | osmo-epdg: Support check IMEI   |          | 03/15/2024 06:45 PM |                                    |
| 6407 | osmo-ePDG - VoWiFi Evolved Packet Data Gateway | Feature | New         | Normal   | osmo-epdg: Support Emergency services (no IMSI)                               |          | 03/15/2024 06:43 PM |                                    |
| 6332 | osmo-ePDG - VoWiFi Evolved Packet Data Gateway | Feature | New         | Normal   | osmo-epdg: Write User Manual  |          | 01/18/2024 04:15 PM | Related to #6332                   |
| 4961 | osmo-gbproxy                                   | Feature | New         | Normal   | gbproxy support for "network sharing" via MOCN                                |          | 01/20/2021 08:38 PM |                                    |
| 4951 | osmo-gbproxy                                   | Feature | In Progress | Normal   | more TTCN3 tests for SGSN pooling   | daniel   | 07/08/2021 08:36 PM | Related to #4951, Related to #4952 |
| 4521 | osmo-gbproxy                                   | Feature | New         | Normal   | gbproxy: Redundancy between NS-VCs (SGSN Side)                                | laforge  | 01/19/2021 05:24 PM | Related to #4959                   |
| 4520 | osmo-gbproxy                                   | Feature | In Progress | Normal   | gbproxy: Redundancy between NS-VCs (BSS Side)                                 | lynxis   | 02/19/2021 04:50 PM | Related to #4520                   |
| 2697 | osmo-qcdiag                                    | Feature | New         | Normal   | Create and add debian packages for osmo-qcdiag to osmocom debian repositories |          | 11/30/2017 06:03 PM |                                    |
| 1908 | osmo-qcdiag                                    | Feature | New         | Normal   | add VTY interface to osmo-qcdiag  | laforge  | 01/12/2017 01:15 PM |                                    |
| 1901 | osmo-qcdiag                                    | Feature | New         | Normal   | osmo-qcdiag: Ability to read/write NV data                                    |          | 01/11/2017 12:15 PM |                                    |
| 1900 | osmo-qcdiag                                    | Feature | New         | Normal   | osmo-qcdiag: Add FUSE based access for EFS                                    |          | 01/11/2017 12:15 PM |                                    |
| 5614 | osmo-remsim                                    | Feature | New         | Normal   | log also application-level errors   | laforge  | 07/11/2022 08:09 PM |                                    |
| 4249 | osmo-remsim                                    | Feature | New         | Normal   | ability to explicitly provision an "empty SIM card slot" to a modem           | laforge  | 09/08/2021 07:48 PM | Related to #5216                   |
| 3886 | osmo-remsim                                    | Feature | New         | Normal   | expose ICCID or even IMSI of all cards on remsim-server                       | laforge  | 05/08/2019 03:31 PM | Precedes #3886                     |
| 3885 | osmo-remsim                                    | Feature | New         | Normal   | remsim-server should expose status information                                | laforge  | 04/01/2019 07:23 PM | Precedes #3885                     |

| #    | Project            | Tracker | Status      | Priority | Subject   | Assignee | Updated             | Related issues  |
|------|--------------------|---------|-------------|----------|---|----------|---------------------|---|
| 3884 | osmo-remsim        | Feature | New         | Normal   | redesign bankd thread architecture  | laforge  | 05/08/2019 03:31 PM | Related to #5527,Precedes #3885,Precedes #3886                      |
| 1686 | osmo-sip-connector | Feature | New         | Normal   | osmo-sip-connector: Implement call holding on SIP   |          | 10/20/2020 08:36 AM |   |
| 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 |   |
| 4498 | osmo-uecups        | Feature | New         | Normal   | IPv6 neighbor discovery   | laforge  | 04/17/2020 08:33 AM |   |
| 5586 | OsmoBSC            | Feature | New         | Normal   | Ericsson RBS could recover Unlocked state without osmo-bsc restart                                      |          | 06/21/2022 10:23 PM | Related to #5983  |
| 4922 | OsmoBSC            | Feature | In Progress | Normal   | Implement MS Power Control  | keith    | 11/04/2021 06:37 PM |   |
| 4716 | OsmoBSC            | Feature | Stalled     | Normal   | support handover between different codec types, like TCH/F FR1 <--> TCH/H HR1                           | neels    | 10/28/2020 08:22 PM | Related to #4717  |
| 4650 | OsmoBSC            | Feature | New         | Normal   | Add BIG FAT error message in case OM2000 BTS fail to start up   | laforge  | 07/04/2020 07:30 PM |   |
| 4541 | OsmoBSC            | Feature | New         | Normal   | add ttcn3 tests for situations of Abis latency spikes, where chan act/deact ACK messages arrive late    |          | 11/20/2023 05:03 PM | Related to #4541,Related to #6375                                   |
| 4537 | OsmoBSC            | Feature | In Progress | Normal   | OsmoBSC needs strategies to recover broken lchans (lchan state BORKEN)                                  |          | 11/20/2023 05:03 PM | Related to #4537,Related to #4540,Related to #4541,Related to #5106 |
| 4536 | OsmoBSC            | Feature | New         | Normal   | Multi BTS support within a single physical device   |          | 06/21/2020 01:10 PM |   |
| 3872 | OsmoBSC            | Feature | New         | Normal   | osmo_scu_prim.conn_id should be picked from a distinct number space for outgoing and incoming N-CONNECT | osmith   | 03/28/2019 08:06 PM | Blocks #3872  |
| 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  |
| 3586 | OsmoBSC            | Feature | New         | Normal   | support LCLS for inter-BSC handover   | neels    | 01/17/2019 04:18 PM | Related to #3586,Related to #3659                                   |
| 3505 | OsmoBSC            | Feature | New         | Normal   | ttcn3: test inter-BSC HO with encryption enabled  | neels    | 08/28/2018 06:38 PM | Related to #3505  |
| 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  |
| 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                                   |
| 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                                   |
| 3479 | OsmoBSC            | Feature | New         | Normal   | test "every single failure" in osmo-bsc FSMs  |          | 08/20/2018 11:15 AM | Related to #3479  |

| #    | Project  | Tracker | Status   | Priority | Subject  | Assignee | Updated             | Related issues   |
|------|--|---------|----------|----------|--|----------|---------------------|--|
| 3330 | OsmoBSC  | Feature | New      | Normal   | osmo-bsc: Implement IMMEDIATE ASSIGNMENT EXTENDED                                      |          | 06/08/2018 12:14 PM | Related to #3330   |
| 3097 | OsmoBSC  | Feature | New      | Normal   | ramping of "rxlev access min"  |          | 03/22/2018 11:51 AM | Related to #3097   |
| 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  |
| 2724 | OsmoBSC  | Feature | New      | Normal   | Improve default timers   | laforge  | 01/04/2018 11:06 AM | Related to #2724   |
| 1858 | OsmoBSC  | Feature | New      | Normal   | make BSC also generate ALERTs  |          | 12/10/2017 07:59 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  |
| 4124 | OsmoBSCNAT   | Feature | New      | Normal   | OsmoBSCNAT : Write user manual   |          | 01/08/2020 10:56 PM | Related to #4124   |
| 6036 | OsmoBTS  | Feature | New      | Normal   | Implement ternary SID classification for HR1 uplink                                    |          | 05/17/2023 09:48 PM | Related to #6036,Related to #6036  |
| 5025 | OsmoBTS  | Feature | New      | Normal   | Missing TTCN-3 coverage for the Timing Advance loop                                    | fixeria  | 07/02/2021 04:28 PM |  |
| 4941 | OsmoBTS  | Feature | Stalled  | Normal   | VAMOS support in OsmoBTS   | fixeria  | 03/18/2022 01:19 AM | Related to #4941,Related to #4941,Blocks #4941   |
| 3329 | OsmoBTS  | Feature | New      | Normal   | osmo-bts: Implement IMMEDIATE ASSIGNMENT EXTENDED                                      |          | 06/08/2018 12:02 PM | Related to #3330   |
| 2977 | OsmoBTS  | Feature | Stalled  | Normal   | OsmoBTS measurment 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 |
| 5721 | OsmoCBC  | Feature | New      | Normal   | CBC messages Geographical Scope and CBS Index  |          | 10/19/2022 07:23 AM |  |
| 5641 | OsmoCBC  | Feature | New      | Normal   | OsmoCBC doesn't yet support reloading cells becoming operational with active messages  |          | 08/05/2022 05:10 PM |  |
| 3672 | Osmocom Analog   | Feature | New      | Normal   | Custom announcement and tones  | jolly    | 02/01/2021 10:25 AM |  |
| 6392 | Osmocom Conferences (OsmoDevCon, OsmoCon, OsmoDevCall) | Feature | New      | Normal   | video recording / c3voc at OsmoDevCon 2024   | laforge  | 03/06/2024 12:08 PM |  |
| 6348 | OsmocomBB  | Feature | New      | Normal   | virtphy: add Circuit Switched Data (CSD) support                                       |          | 01/26/2024 10:03 PM | Related to #6348   |
| 6347 | OsmocomBB  | Feature | New      | Normal   | mobile: support data calls @ 300 bps and 1200/75 bps (TCH/[FH]2.4)                     |          | 01/26/2024 09:54 PM | Related to #6347   |

| #    | Project                    | Tracker | Status      | Priority | Subject   | Assignee | Updated             | Related issues  |
|------|----------------------------|---------|-------------|----------|---|----------|---------------------|---|
| 6346 | OsmocomBB                  | Feature | New         | Normal   | mobile: support data calls @ 14400 bps (TCH/F14.4)                          |          | 01/26/2024 10:03 PM | Related to #6346,Related to #6346                                   |
| 6132 | OsmocomBB                  | Feature | New         | Normal   | Add MS_GPRS_Tests to osmo-ttcn3-hacks                                       | fixeria  | 10/04/2023 10:29 PM | Related to #6132  |
| 6115 | OsmocomBB                  | Feature | Feedback    | Normal   | modem: MTU not set properly on tun iface                                    | pespin   | 12/08/2023 05:48 PM | Related to #6115,Related to #6298                                   |
| 5505 | OsmocomBB                  | Feature | New         | Normal   | GPRS mobility (cell change) support   |          | 07/01/2022 06:24 AM | Related to #5505  |
| 5504 | OsmocomBB                  | Feature | New         | Normal   | GSM/GPRS coordination (RR/GRR)  |          | 05/23/2023 12:31 PM | Related to #5504  |
| 5503 | OsmocomBB                  | Feature | Feedback    | Normal   | expose GPRS user plane via tun device                                       | pespin   | 08/28/2023 10:38 PM | Related to #6115  |
| 5502 | OsmocomBB                  | Feature | Stalled     | Normal   | MS-side LLC implementation  | pespin   | 09/14/2023 03:59 PM | Related to #5502,Related to #5502                                   |
| 5501 | OsmocomBB                  | Feature | Stalled     | Normal   | MS-side GPRS Mobility Management (GMM) + Session Management (SM)            | pespin   | 09/14/2023 04:03 PM | Related to #5501,Related to #5502,Related to #5504,Related to #5505 |
| 5466 | OsmocomBB                  | Feature | New         | Normal   | CP2102N evaluation for burst_ind baudrate                                   | laforge  | 02/22/2022 07:17 PM |   |
| 4418 | OsmocomBB                  | Feature | New         | Normal   | test-sim: support all libosmocore algorithms (comp128 v1, v2, v3; MILENAGE) |          | 02/26/2020 11:41 PM |   |
| 4030 | OsmocomBB                  | Feature | In Progress | Normal   | design breakout board for GTM900-B  | mschramm | 01/05/2024 08:00 AM | Related to #4575,Related to #4610                                   |
| 3666 | OsmocomBB                  | Feature | New         | Normal   | trxcon: Introduce VTY interface   | fixeria  | 02/26/2020 02:43 PM | Related to #3667  |
| 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                      |
| 2379 | OsmocomBB                  | Feature | New         | Normal   | package as .deb   |          | 02/27/2020 02:39 PM |   |
| 2378 | OsmocomBB                  | Feature | New         | Normal   | Remove copy-pasted libosmocore ("git subtree") from osmocom-bb.git          |          | 10/24/2018 02:13 PM |   |
| 3424 | OsmocomBB SDR PHY          | Feature | Stalled     | Normal   | Transceiver: implement automatic TX delay measurement                       |          | 07/09/2023 07:46 PM |   |
| 3423 | OsmocomBB SDR PHY          | Feature | Stalled     | Normal   | Receiver: hard-coded GSM 05.02 channel configuration                        |          | 07/09/2023 07:45 PM |   |
| 5395 | OsmocomDECT                | Feature | New         | Normal   | Support for LMX3161   |          | 01/09/2022 12:55 PM |   |
| 4596 | OsmocomTETRA               | Feature | New         | Normal   | Port to GR3.8   |          | 01/08/2021 05:23 PM |   |
| 5758 | OsmoDia2GSUP               | Feature | New         | Normal   | bring osmo_dia2gsup to production quality                                   | lynxis   | 03/30/2023 08:13 PM |   |
| 5757 | OsmoDia2GSUP               | Feature | Feedback    | Normal   | functional test suite for osmo_dia2gsup                                     | lynxis   | 09/06/2023 02:48 PM |   |
| 6298 | OsmoGGSN (former OpenGGSN) | Feature | New         | Normal   | osmo-ggsn not providing MTU of the GTP tunnel to the MS                     |          | 02/15/2024 10:30 PM | Related to #6298  |

| #    | Project                    | Tracker | Status   | Priority | Subject  | Assignee | Updated             | Related issues                         |
|------|----------------------------|---------|----------|----------|--|----------|---------------------|--|
| 4433 | OsmoGGSN (former OpenGGSN) | Feature | New      | Normal   | sgsnemu: Add support for IPv4v6 EUAs   |          | 03/04/2020 10:44 AM |  |
| 4415 | OsmoGGSN (former OpenGGSN) | Feature | New      | Normal   | Document in OsmoGGSN User Manual the IPv6 allocation process over GTP                            |          | 02/25/2020 03:05 PM |  |
| 4033 | OsmoGGSN (former OpenGGSN) | Feature | New      | Normal   | ttn3-ggsn-test: Add tests to verify secondary pdp context management                             |          | 05/30/2019 03:19 PM |  |
| 5839 | OsmoGSMTester              | Feature | New      | Normal   | Ability to switch off the osmo-trx machine   | pespin   | 12/20/2022 05:43 PM |  |
| 5838 | OsmoGSMTester              | Feature | New      | Normal   | Implement power switching for all BTSs   |          | 12/20/2022 05:30 PM |  |
| 3564 | OsmoGSMTester              | Feature | New      | Normal   | Investigate ofono and modems Cell Broadcast support  |          | 01/08/2020 10:42 PM | Related to #3564                       |
| 2861 | OsmoGSMTester              | Feature | New      | Normal   | osmo-gsm-tester: Add 3g support for systocell-5k   |          | 12/02/2019 01:36 PM | Related to #2860                       |
| 2707 | OsmoGSMTester              | Feature | New      | Normal   | Add support for verifying content of log files after test is run                                 |          | 12/04/2017 05:05 PM |  |
| 2646 | OsmoGSMTester              | Feature | New      | Normal   | osmo-gsm-tester: Add osmo-sip-connector support  |          | 04/23/2018 10:40 AM |  |
| 2399 | OsmoGSMTester              | Feature | New      | Normal   | add tests for graceful restart of individual components  |          | 07/25/2017 12:02 AM |  |
| 2374 | OsmoGSMTester              | Feature | New      | Normal   | osmo-gsm-tester: add test case: sms between MS with delivery report                              |          | 08/10/2017 04:37 PM |  |
| 2318 | OsmoGSMTester              | Feature | New      | Normal   | testing systobts: skip copying of binaries when the same are already installed                   |          | 06/07/2017 03:55 PM |  |
| 2314 | OsmoGSMTester              | Feature | New      | Normal   | osmo-gsm-tester: add test case: smpp: correct ESME routing                                       |          | 05/31/2017 04:29 PM |  |
| 2313 | OsmoGSMTester              | Feature | New      | Normal   | osmo-gsm-tester: add test case: smpp: imsi extension   |          | 05/31/2017 04:27 PM |  |
| 2311 | OsmoGSMTester              | Feature | New      | Normal   | osmo-gsm-tester: add test case: smpp: smpp_first feature   |          | 05/31/2017 04:21 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 |  |
| 2230 | OsmoGSMTester              | Feature | New      | Normal   | osmo-gsm-tester: arfcn as resource   |          | 12/14/2017 04:08 PM | Related to #2230                       |
| 2197 | OsmoGSMTester              | Feature | Stalled  | Normal   | osmo-gsm-tester: use MNCC interface  |          | 11/30/2017 10:41 AM | Related to #2194,Is duplicate of #2197 |
| 6135 | OsmoHLR                    | Feature | Stalled  | Normal   | Implement routing of SMS-over-GSUP messages between connected MSC/VLRs and SMSCs                 | falconia | 01/09/2024 01:11 PM | Related to #6312                       |
| 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      |
| 6137 | OsmoHNBGW                  | Feature | New      | Normal   | ip.access Nano3G   | lynxis   | 10/21/2023 07:24 PM |  |
| 6127 | OsmoHNBGW                  | Feature | Feedback | Normal   | Submit RAB Modification Req towards HNB to update its peer luUP address if MGW changed it        | pespin   | 11/29/2023 06:45 PM |  |
| 5904 | OsmoHNBGW                  | Feature | New      | Normal   | HNBAP Register Request handling does checks that seem to make no sense                           | neels    | 09/01/2023 05:00 AM |  |
| 5867 | OsmoHNBGW                  | Feature | New      | Normal   | HNBGW_Tests.ttcn should do HNBAP UE Register and De-Register tests                               |          | 01/21/2023 02:30 AM |  |

| #    | Project   | Tracker | Status      | Priority | Subject  | Assignee  | Updated             | Related issues                                     |
|------|-----------|---------|-------------|----------|--|-----------|---------------------|--|
| 5647 | OsmoHNBGW | Feature | New         | Normal   | cfg: separate PFCP Node ID from PFCP local address   |           | 08/17/2022 03:38 PM | Related to #5648,Related to #5682                  |
| 5153 | OsmoHNBGW | Feature | In Progress | Normal   | support hnbgw co-located GTP-U proxy (UPF)   | neels     | 11/15/2022 09:54 AM | Related to #5154,Related to #5153                  |
| 1997 | OsmoHNBGW | Feature | New         | Normal   | Improve error check at compilation time  |           | 10/21/2021 04:28 PM |  |
| 6387 | OsmoMGW   | Feature | In Progress | Normal   | osmo_io / io_uring support for RTP/RTCP  | laforge   | 03/26/2024 06:45 PM | Related to #6387                                   |
| 6171 | OsmoMGW   | Feature | In Progress | Normal   | mgcp-client API: there should be a separate mgcp_codec_param for each codec in mgcp_msg.codecs[] | dexter    | 11/01/2023 04:15 PM | Related to #6171                                   |
| 6136 | OsmoMGW   | Feature | Stalled     | Normal   | libosmo-mgcp-client should ignore unknown codecs in SDP  | jolly     | 12/07/2023 06:27 AM | Related to #6136,Related to #6177,Blocks #6136     |
| 5468 | OsmoMGW   | Feature | New         | Normal   | osmo-mgw: 2g->3g call support  |           | 06/03/2022 10:39 AM | Related to #5468,Related to #5468,Related to #5468 |
| 5279 | OsmoMGW   | Feature | New         | Normal   | systemd service / unit for multiple osmo-mgw on one machine                                      | osmith    | 10/25/2021 11:41 AM |  |
| 5214 | OsmoMGW   | Feature | In Progress | Normal   | osmo-mgw multithreading  | Hoernchen | 08/31/2021 09:20 AM |  |
| 4551 | OsmoMGW   | Feature | New         | Normal   | Dynamic/runtime allocation of new endpoints  |           | 05/14/2020 10:56 PM |  |
| 4092 | OsmoMGW   | Feature | New         | Normal   | Osmux: Support dynamic allocation of osmux sockets   | pespin    | 08/10/2022 07:50 AM | Related to #4092                                   |
| 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 |  |
| 6258 | OsmoMSC   | Feature | In Progress | Normal   | if MT call leg does not support the assigned codec, re-assign to a compatible codec              |           | 01/12/2024 06:26 AM | Related to #6328                                   |
| 6151 | OsmoMSC   | Feature | Feedback    | Normal   | osmo-msc: Ability to configure (VTY) the AMR(-WB) formats used in RAB-Assignment-Req             | neels     | 08/30/2023 08:16 PM |  |
| 6000 | OsmoMSC   | Feature | New         | Normal   | Allow emergency calls without IMSI (using IMEI as MI)  |           | 04/12/2023 11:03 AM | Related to #6000                                   |
| 5780 | OsmoMSC   | Feature | New         | Normal   | Implement/Support UUS1   |           | 01/24/2023 10:48 AM |  |
| 5403 | OsmoMSC   | Feature | New         | Normal   | Can't connect Call from 2G to 4G network   | laforge   | 01/14/2022 10:41 PM |  |
| 4717 | OsmoMSC   | Feature | New         | Normal   | support Handover with changing codec   |           | 08/18/2020 05:14 PM | Related to #4717                                   |
| 4633 | OsmoMSC   | Feature | New         | Normal   | update the Cell ID in the VLR after an inter-BSC / inter-MSC handover                            |           | 06/24/2020 12:40 PM |  |
| 4632 | OsmoMSC   | Feature | New         | Normal   | update the cell id in the VLR when receiving BSSMAP HANDOVER PERFORMED from the BSC              |           | 06/24/2020 12:35 PM | Related to #4632                                   |
| 4374 | OsmoMSC   | Feature | New         | Normal   | send GSUP PurgeMS Request (CN-Domain = CS) to the HLR upon IMSI-Detach                           |           | 01/23/2020 03:19 AM |  |
| 4336 | OsmoMSC   | Feature | New         | Normal   | Convert vlr_lu_fsm.c to use osmo_tdef (and drop vlr_timer())                                     |           | 01/02/2020 05:32 PM | Related to #4337                                   |
| 4200 | OsmoMSC   | Feature | In Progress | Normal   | Work around nano3G-S16 requiring RAB ID to be below 16   | efistokl  | 09/14/2019 09:48 AM |  |



| #    | Project  | Tracker | Status  | Priority | Subject   | Assignee | Updated             | Related issues   |
|------|----------|---------|---------|----------|---|----------|---------------------|--|
| 4196 | OsmoMSC  | Feature | New     | Normal   | CC Setup, Call Confirmed: decode and use the Supported Codec List IE                          |          | 09/25/2019 05:27 PM |  |
| 4065 | OsmoMSC  | Feature | New     | Normal   | osmo-msc: Support instructing MSC_MGW to use Osmux between 2 endp/call-leg of same voice call | pespin   | 06/19/2019 04:54 PM | Related to #4065   |
| 3738 | OsmoMSC  | Feature | New     | Normal   | Clarify PS-part of struct vlr_subscr  |          | 12/19/2018 12:34 PM |  |
| 3687 | OsmoMSC  | Feature | New     | Normal   | Expand "show bsc" command   |          | 11/11/2018 09:50 PM |  |
| 3636 | OsmoMSC  | Feature | New     | Normal   | detailed call statistics (with rate counters)   | osmith   | 10/08/2018 11:14 AM | Related to #3636   |
| 3620 | OsmoMSC  | Feature | Stalled | Normal   | Implement TTCN-3 testsuite for Inter-MSC HO   | neels    | 09/04/2019 09:08 AM |  |
| 3445 | OsmoMSC  | Feature | Stalled | Normal   | SS/USSD: clean up the local GSM 04.80 API   |          | 12/14/2018 01:57 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  |
| 2795 | OsmoMSC  | Feature | New     | Normal   | Handle UTRAN_CLSM_CHG in MSC  | neels    | 04/30/2018 12:06 PM | Related to #3043   |
| 2788 | OsmoMSC  | Feature | New     | Normal   | OsmoMSC should handle CM Service Abort message  | neels    | 01/04/2018 10:37 AM |  |
| 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 |
| 2390 | OsmoMSC  | Feature | New     | Normal   | re-add osmocom specific TLVs to SMPP messages   |          | 12/23/2017 05:48 PM |  |
| 2191 | OsmoMSC  | Feature | New     | Normal   | raw PDU mode for SMPP   |          | 12/23/2017 05:48 PM |  |
| 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  |
| 1812 | OsmoNITB | Feature | New     | Normal   | Report gsm0408_dispatch() failures to MS / UE   |          | 01/08/2020 10:56 PM |  |
| 1667 | OsmoNITB | Feature | New     | Normal   | Handle callref better   |          | 09/04/2019 09:31 AM | Related to #3294   |
| 6150 | OsmoPCU  | Feature | New     | Normal   | PCUIF: Use unique identifiers instead of the TLLI as msg_id.                                  | dexter   | 10/24/2023 03:15 PM |  |
| 5834 | OsmoPCU  | Feature | New     | Normal   | VTY option "two-phase-access" is misleading   |          | 12/19/2022 06:55 PM |  |
| 5827 | OsmoPCU  | Feature | New     | Normal   | osmo-pcu: Hardcoded limit of maximum number of 8 TRX per BTS                                  | pespin   | 12/16/2022 11:55 AM |  |
| 5122 | OsmoPCU  | Feature | New     | Normal   | Choose SBA allocation offset based on AGCH queue load in the BTS                              | pespin   | 04/20/2021 12:51 PM | Related to #5122   |
| 4967 | OsmoPCU  | Feature | New     | Normal   | osmo-pcu: Avoid sending new DL EGPRS blocks to MS announcing MS_OUT_OF_MEMORY                 |          | 01/21/2021 02:26 PM |  |
| 4846 | OsmoPCU  | Feature | New     | Normal   | change RBB received block bitmap into 1s when everything was acked                            |          | 11/04/2020 02:29 AM |  |

| #    | Project  | Tracker | Status  | Priority | Subject  | Assignee | Updated             | Related issues   |
|------|----------|---------|---------|----------|--|----------|---------------------|--|
| 4488 | OsmoPCU  | Feature | New     | Normal   | have uplink/downlink tests for all CS/MCS  |          | 11/25/2020 07:28 PM | Related to #4488,Related to #4510  |
| 3285 | OsmoPCU  | Feature | New     | Normal   | design + implement tools to analyze inter-PCU cell changes                               | daniel   | 02/06/2021 11:12 AM | Related to #3284   |
| 1554 | OsmoPCU  | Feature | New     | Normal   | per-MS BSSGP flow control  |          | 02/23/2016 03:12 PM | Related to #1554   |
| 1549 | OsmoPCU  | Feature | New     | Normal   | DRX support for GPRS   |          | 02/04/2017 08:11 AM | Related to #1942   |
| 1547 | OsmoPCU  | Feature | New     | Normal   | downlink power control on PDTCH  |          | 02/23/2016 03:04 PM |  |
| 1545 | OsmoPCU  | Feature | Stalled | Normal   | continuous timing advance loop using PTCH  | fixeria  | 03/24/2020 09:49 PM | Related to #1545,Related to #4102,Related to #4500,Blocks #1545                      |
| 1543 | OsmoPCU  | Feature | New     | Normal   | link/rate adaption as per spec   |          | 01/08/2020 10:43 PM | Related to #1543,Related to #1543  |
| 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 |
| 5047 | OsmoSDR  | Feature | New     | Normal   | Inconsistencies between SDR's in bias-tee parameter                                      |          | 12/19/2021 01:17 PM |  |
| 6139 | OsmoSGSN | Feature | New     | Normal   | test mobility between GERAN (OsmoPCU) and EUTRAN (Open5GS) end to end on real hardware   | dexter   | 04/02/2024 09:38 AM |  |
| 5853 | OsmoSGSN | Feature | New     | Normal   | osmo-sgsn: Rework to use libosmo-gprs  |          | 01/11/2023 03:14 PM |  |
| 5759 | OsmoSGSN | Feature | Stalled | Normal   | Support for Mobility between SGSN (2G/3G) and S-GW (4G)                                  | dexter   | 12/07/2023 12:40 PM | Related to #5759   |
| 1655 | OsmoSGSN | Feature | Stalled | Normal   | KPIs for OsmoSGSN  |          | 01/08/2020 10:49 PM | Related to #1652,Related to #1655,Related to #1655                                   |
| 1588 | OsmoSGSN | Feature | New     | Normal   | Inter-RAT hand-over  |          | 02/23/2016 03:46 PM |  |
| 1587 | OsmoSGSN | Feature | Stalled | Normal   | SMS over GPRS support  |          | 11/25/2018 08:14 PM | Related to #3587   |
| 1586 | OsmoSGSN | Feature | New     | Normal   | Implement QoS profile support  |          | 02/23/2016 03:45 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                                   |
| 1689 | OsmoSMSC | Feature | New     | Normal   | insert: Change destination number based on criteria similiar to route handling on output | zecke    | 04/06/2016 12:18 PM |  |
| 1623 | OsmoSMSC | Feature | New     | Normal   | Configure delivery report for the SMPP delivery links                                    | zecke    | 02/24/2016 01:49 PM |  |
| 3607 | OsmoSTP  | Feature | New     | Normal   | Support for capability point codes   |          | 10/03/2018 08:58 AM |  |

| #    | Project                               | Tracker | Status      | Priority | Subject   | Assignee  | Updated             | Related issues  |
|------|---------------------------------------|---------|-------------|----------|---|-----------|---------------------|---|
| 3606 | OsmoSTP                               | Feature | New         | Normal   | Support for multiple NI (network indicator)                             |           | 10/03/2018 08:58 AM |   |
| 3605 | OsmoSTP                               | Feature | New         | Normal   | Global Title Translation  |           | 07/18/2019 05:15 AM |   |
| 3604 | OsmoSTP                               | Feature | New         | Normal   | Global Title Routing  |           | 07/18/2019 05:15 AM |   |
| 6231 | OsmoTRX                               | Feature | New         | Normal   | add support / calibration values for AntSDR E200                        | roh       | 10/21/2023 03:25 PM |   |
| 5859 | OsmoTRX                               | Feature | New         | Normal   | remove non-neon and non-sse support                                     | Hoernchen | 01/16/2023 10:17 PM |   |
| 5283 | OsmoTRX                               | Feature | New         | Normal   | Implement TRXDv2 support  | fixeria   | 10/27/2021 10:35 PM | Related to #5283  |
| 4362 | OsmoTRX                               | Feature | Stalled     | Normal   | osmo-trx-lms: Support multi-arfcn feature                               |           | 09/30/2020 08:09 PM | Related to #4362,Related to #4362                                   |
| 3344 | OsmoTRX                               | Feature | New         | Normal   | merge ttsou/siggen  |           | 06/13/2018 07:26 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 |
| 5900 | OsmoUPF                               | Feature | In Progress | Normal   | make sure chain ids used in the tunmap nft ruleset are unused           |           | 02/09/2023 05:34 PM |   |
| 5814 | OsmoUPF                               | Feature | New         | Normal   | tunmap: more concisely match on GTP-U packets                           |           | 12/06/2022 07:30 PM |   |
| 5662 | OsmoUPF                               | Feature | New         | Normal   | add Linux kernel options to manual                                      |           | 08/24/2022 03:13 PM |   |
| 6367 | pySim                                 | Feature | New         | Normal   | PC/SC <-> Android OMAPI bridge for pySim and others                     |           | 02/17/2024 01:34 PM |   |
| 6316 | pySim                                 | Feature | New         | Normal   | include test data in user manual  |           | 12/23/2023 03:10 PM |   |
| 6265 | pySim                                 | Feature | New         | Normal   | decode numeric SW in case of errors                                     | dexter    | 12/11/2023 01:01 PM |   |
| 6089 | pySim                                 | Feature | Feedback    | Normal   | log the current file / operation during execeution of a script          | laforge   | 11/27/2023 04:37 PM |   |
| 5268 | pySim                                 | Feature | New         | Normal   | pySim-shell: GlobalPlatform SCP02 support                               | laforge   | 10/14/2021 07:12 PM | Related to #5268  |
| 5267 | pySim                                 | Feature | New         | Normal   | pySim-shell: Ability to deactivate entire applications on the card      |           | 10/14/2021 07:12 PM | Related to #5268  |
| 5127 | pySim                                 | Feature | New         | Normal   | tool for "re-formatting" [sysmocom] cards in tester                     | laforge   | 10/14/2021 07:16 PM | Related to #5127  |
| 4384 | pySim                                 | Feature | Stalled     | Normal   | Jenkins program-read verification on daily (or weekly) basis            | dexter    | 03/27/2023 04:13 PM | Related to #4384  |
| 1815 | Qualcomm Linux Modems by Quectel & Co | Feature | New         | Normal   | tool for building binary ipk from .list/.control                        |           | 10/02/2016 05:06 AM |   |
| 5938 | Retrocomputing                        | Feature | In Progress | Normal   | assemble "fake parallel printer"  | laforge   | 09/13/2023 09:32 AM |   |
| 6224 | Retronetworking                       | Feature | Feedback    | Normal   | how to document the rescued EWSD  |           | 10/18/2023 04:51 PM |   |
| 6219 | Retronetworking                       | Feature | New         | Normal   | Publish pics/videos for EWSD rescue/move                                | laforge   | 10/17/2023 02:10 PM |   |
| 6218 | Retronetworking                       | Feature | New         | Normal   | write article/report on EWSD rescue for IGHFT / Fernmeldemuseum Dresden | laforge   | 10/17/2023 02:11 PM |   |
| 5855 | Retronetworking                       | Feature | New         | Normal   | Establishing a German non-profit for retronetworking                    | laforge   | 01/13/2023 11:59 AM |   |
| 5768 | Retronetworking                       | Feature | New         | Normal   | retronetworking logo / artwork  |           | 04/07/2024 10:40 PM |   |

| #    | Project                         | Tracker | Status      | Priority | Subject  | Assignee      | Updated             | Related issues                    |
|------|---------------------------------|---------|-------------|----------|--|---------------|---------------------|-----------------------------------|
| 5543 | Retronetworking                 | Feature | New         | Normal   | Contact manufacturers for leftover stock                                     |               | 06/27/2023 09:05 PM |                                   |
| 5291 | rtl-sdr                         | Feature | New         | Normal   | Ship the udev rules upstream   | steve-m       | 11/05/2021 11:04 AM |                                   |
| 3315 | rtl-sdr                         | Feature | New         | Normal   | review and possibly apply patches from debian package                        | steve-m       | 06/03/2018 01:17 PM |                                   |
| 4580 | SDR (Software Defined Radio)    | Feature | New         | Normal   | gr-osmosdr compilation under GnuRadio 3.9.0                                  |               | 06/04/2020 01:13 AM |                                   |
| 2224 | SDR (Software Defined Radio)    | Feature | New         | Normal   | New Fospor Benchmark Performance   |               | 05/04/2017 01:23 PM |                                   |
| 5826 | SIMtrace 2                      | Feature | Stalled     | Normal   | SAM4S4BA support in firmware   | laforge       | 01/31/2023 08:06 PM | Related to #5826                  |
| 5805 | SIMtrace 2                      | Feature | New         | Normal   | SIM Trace 2 Build for Windows  | jelson_simEng | 04/02/2023 09:56 AM |                                   |
| 5600 | SIMtrace 2                      | Feature | Feedback    | Normal   | SIMtrace2 fails to emulate EMV cards   | boggy123      | 12/14/2022 01:07 PM |                                   |
| 5422 | SIMtrace 2                      | Feature | In Progress | Normal   | "cardem" continuous testing setup  | laforge       | 01/27/2022 12:22 PM | Related to #5422                  |
| 5276 | SIMtrace 2                      | Feature | Stalled     | Normal   | jenkins CI integration like for osmo-ccid-firmware                           | roh           | 11/14/2022 05:24 PM | Related to #5422                  |
| 3711 | SIMtrace 2                      | Feature | New         | Normal   | Add screw holes for permanent installations                                  | mschramm      | 11/01/2023 08:28 PM |                                   |
| 3371 | SIMtrace 2                      | Feature | New         | Normal   | migrate to use arm-none-eabi build of libosmocore.git                        | laforge       | 08/09/2018 12:14 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 |                                   |
| 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 |
| 3747 | UmTRX                           | Feature | New         | Normal   | LMS6002D RX Gain Control   | ipse          | 01/08/2019 09:46 AM |                                   |
| 1518 | UmTRX                           | Feature | New         | Normal   | Upper limit of the clock is too low  |               | 02/19/2016 10:52 PM |                                   |
| 1517 | UmTRX                           | Feature | New         | Normal   | U_FL (UMC) connectors are not reliable after few connections                 |               | 02/19/2016 10:52 PM |                                   |
| 1516 | UmTRX                           | Feature | New         | Normal   | There are no port to control external equipment like PA                      |               | 02/19/2016 10:52 PM |                                   |
| 1515 | UmTRX                           | Feature | New         | Normal   | Heat dissipation and mounting issue  |               | 02/19/2016 10:52 PM |                                   |
| 1511 | UmTRX                           | Feature | New         | Normal   | Solve Tx and Rx I/Q imbalance for wideband signals                           |               | 02/19/2016 10:52 PM |                                   |
| 1509 | UmTRX                           | Feature | New         | Normal   | Store calibration values in EEPROM   | ipse          | 02/21/2016 04:47 PM |                                   |
| 1506 | UmTRX                           | Feature | New         | Normal   | Move to the latest stable UHD  | ipse          | 02/21/2016 04:47 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 |                                   |
| 2814 | Z-Netz                          | Feature | New         | Normal   | Create + Document classic CrossPoint setup on DOS (dosemu)                   |               | 01/01/2018 01:41 PM |                                   |
| 2813 | Z-Netz                          | Feature | New         | Normal   | Create + Document OpenXP setup on Linux                                      |               | 01/01/2018 01:41 PM |                                   |
| 6411 | Cellular Network Infrastructure | Bug     | Stalled     | Normal   | ttcn3: execute testsuites with a more realistic link performance             |               | 04/03/2024 06:25 PM |                                   |
| 6349 | Cellular Network Infrastructure | Bug     | Feedback    | Normal   | example configs missing in release tarballs                                  | fixeria       | 01/29/2024 04:04 PM |                                   |
| 6215 | Cellular Network Infrastructure | Bug     | New         | Normal   | Rebase open5gs pcrf_simple patches and submit upstream                       | lynxis        | 10/18/2023 02:53 PM |                                   |

| #    | Project                         | Tracker | Status      | Priority | Subject  | Assignee | Updated             | Related issues                    |
|------|---------------------------------|---------|-------------|----------|--|----------|---------------------|-----------------------------------|
| 6198 | Cellular Network Infrastructure | Bug     | In Progress | Normal   | Patch releases for September 2023 Osmocom CNI releases                                     | roh      | 12/19/2023 01:29 PM | Related to #6253                  |
| 6188 | Cellular Network Infrastructure | Bug     | New         | Normal   | Osmocom manuals have "draft" in debian packages of released versions                       | osmith   | 09/21/2023 04:37 PM |                                   |
| 5985 | Cellular Network Infrastructure | Bug     | New         | Normal   | tests: not all Osmocom projects have @osmoappdesc.py@                                      |          | 03/29/2023 08:09 PM |                                   |
| 5809 | Cellular Network Infrastructure | Bug     | Feedback    | Normal   | applications disrespect potentially VTY-configured tcp/telnet port                         | osmith   | 10/31/2023 09:34 AM |                                   |
| 5764 | Cellular Network Infrastructure | Bug     | New         | Normal   | GCC does not check format strings in LOGPFSM macros  |          | 11/11/2022 06:30 AM |                                   |
| 5750 | Cellular Network Infrastructure | Bug     | New         | Normal   | contrib/jenkins.sh: build with -Wunused-macros and -Wundef                                 |          | 11/08/2022 08:07 PM |                                   |
| 5749 | Cellular Network Infrastructure | Bug     | New         | Normal   | configure.ac: default CFLAGS, LT_INIT adds "-g -O2"  | fixeria  | 01/31/2023 08:12 PM |                                   |
| 5685 | Cellular Network Infrastructure | Bug     | Feedback    | Normal   | Dropping debian 10 (buster)  | osmith   | 04/04/2023 10:10 AM | Related to #5685,Related to #5685 |
| 5669 | Cellular Network Infrastructure | Bug     | New         | Normal   | Test .deb packages built by our OBS  |          | 09/21/2022 01:03 PM | Related to #5669,Related to #5669 |
| 5188 | Cellular Network Infrastructure | Bug     | New         | Normal   | BSSMAP Cell Identifier IE vs. Cell Identifier List IE: difference in allowed cell id types | neels    | 08/23/2022 04:24 PM |                                   |
| 4883 | Cellular Network Infrastructure | Bug     | New         | Normal   | update OsmoNITB migration guide  | neels    | 12/01/2020 08:32 AM |                                   |
| 4141 | Cellular Network Infrastructure | Bug     | New         | Normal   | No osmux specific code in place during codec negotiation                                   |          | 08/05/2019 03:57 PM |                                   |
| 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 |
| 6386 | Core testing infrastructure     | Bug     | In Progress | Normal   | eclipse-titan 9.0.0 not building in debian unstable  | osmith   | 03/04/2024 02:10 PM |                                   |
| 6273 | Core testing infrastructure     | Bug     | Feedback    | Normal   | TTCN3 tests keep suffering from race conditions on shutdown                                | daniel   | 12/05/2023 03:29 PM |                                   |
| 6185 | Core testing infrastructure     | Bug     | New         | Normal   | Submit titan.ProtocolEmulations.SCCP patch upstream  | neels    | 09/20/2023 06:22 PM |                                   |
| 6029 | Core testing infrastructure     | Bug     | New         | Normal   | Single TTCN3 BSC handover test fails   |          | 10/18/2023 05:31 PM |                                   |
| 5858 | Core testing infrastructure     | Bug     | Feedback    | Normal   | osmo-python-tests: Ignore, at least clean up 'tmp_dummy_sock'                              |          | 02/22/2023 06:25 PM | Related to #5858                  |

| #    | Project                                      | Tracker | Status      | Priority | Subject   | Assignee | Updated             | Related issues                    |
|------|--|---------|-------------|----------|---|----------|---------------------|-----------------------------------|
| 5665 | Core testing infrastructure                  | Bug     | Stalled     | Normal   | ERROR: files left in build directory after distclean: ./tests/core  | fixeria  | 11/14/2023 12:39 PM | Related to #5665,Related to #5858 |
| 5632 | Core testing infrastructure                  | Bug     | In Progress | Normal   | better test result summary / notifications  | lynxis   | 08/31/2022 11:58 AM |                                   |
| 5301 | Core testing infrastructure                  | Bug     | Stalled     | Normal   | Run TTCN3 docker tests with sanitizer enabled   | osmith   | 03/20/2024 09:28 AM | Related to #5302                  |
| 5011 | Core testing infrastructure                  | Bug     | New         | Normal   | Warning about unrecognized escape sequence in Osmocom_CTRL_Types  |          | 02/05/2021 11:21 AM |                                   |
| 4705 | Distributed GSM                              | Bug     | New         | Normal   | osmo-hlr user manual: explain the mslookup domain suffix "mdns.osmocom.org", it has no mention in the user manual |          | 08/13/2020 12:54 AM |                                   |
| 4268 | Distributed GSM                              | Bug     | In Progress | Normal   | duplicate SMS when SMPP handler sends back to the originating MSC   | neels    | 06/08/2020 03:11 PM |                                   |
| 5708 | E1/T1 Hardware Interface (including icE1usb) | Bug     | New         | Normal   | rs422: Support runtime re-init of the GPS receiver  | tnt      | 10/13/2022 06:46 PM | Related to #5708                  |
| 5490 | E1/T1 Hardware Interface (including icE1usb) | Bug     | Feedback    | Normal   | ISO IN urb sometimes completes with less than full data / incomplete frame  | tnt      | 09/15/2022 12:34 PM |                                   |
| 5402 | E1/T1 Hardware Interface (including icE1usb) | Bug     | New         | Normal   | no2e1 gateway improvements  |          | 01/13/2022 12:02 PM |                                   |
| 6377 | erlang/osmo_ss7                              | Bug     | Feedback    | Normal   | ipa: Failure decoding ipa frames split between several tcp packets  | pespin   | 02/28/2024 03:00 PM |                                   |
| 5378 | erlang/osmo_ss7                              | Bug     | New         | Normal   | ipa: add support for client application   | laforge  | 01/05/2022 08:36 PM |                                   |
| 6443 | gr-osmosdr                                   | Bug     | New         | Normal   | RF gain: erroneously using 14   | horiz0n  | 04/27/2024 06:21 PM |                                   |
| 5460 | gr-osmosdr                                   | Bug     | New         | Normal   | Please use double for ppm with fcdp/pp  |          | 02/17/2022 10:43 PM |                                   |
| 5445 | gr-osmosdr                                   | Bug     | New         | Normal   | Please switch to the gr-funcube   |          | 02/15/2022 11:56 PM |                                   |
| 5352 | gr-osmosdr                                   | Bug     | New         | Normal   | ImportError: generic_type: type "sink" referenced unknown base type "gr::hier_block2"                             |          | 12/11/2021 08:19 AM |                                   |
| 5298 | gr-osmosdr                                   | Bug     | New         | Normal   | object has no attribute 'pyqwidget' on arch linux   |          | 11/09/2021 01:25 AM |                                   |
| 5218 | gr-osmosdr                                   | Bug     | New         | Normal   | compilation fails: "no matching function for call to fcd_source_c::connect"                                       |          | 09/05/2021 10:58 PM |                                   |
| 5008 | gr-osmosdr                                   | Bug     | New         | Normal   | Quoted whitespace parsing problem in source_impl::source_impl   |          | 02/04/2021 02:16 AM |                                   |
| 4950 | gr-osmosdr                                   | Bug     | New         | Normal   | gr-osmosdr doesn't find iqbalance during build  |          | 02/22/2021 02:46 AM |                                   |
| 4942 | gr-osmosdr                                   | Bug     | New         | Normal   | XTRX: Unable to compile due to error  | RFNOD    | 01/12/2021 08:29 PM |                                   |
| 4484 | gr-osmosdr                                   | Bug     | New         | Normal   | CMakeFiles.txt  |          | 04/06/2020 05:19 PM |                                   |
| 4359 | gr-osmosdr                                   | Bug     | New         | Normal   | Compiling from Git Bramcj gr3.8 fails   |          | 01/12/2020 05:08 PM |                                   |
| 4325 | gr-osmosdr                                   | Bug     | New         | Normal   | can't open hackrf_sink with device index  |          | 12/13/2019 09:18 AM |                                   |

| #    | Project                | Tracker | Status      | Priority | Subject   | Assignee | Updated             | Related issues                                 |
|------|------------------------|---------|-------------|----------|---|----------|---------------------|--|
| 4098 | gr-osmosdr             | Bug     | New         | Normal   | [BladeRF micro] Arguments set in osmocom Sink and Source are not passed to libbladerf | horiz0n  | 07/18/2019 05:35 AM |  |
| 3882 | gr-osmosdr             | Bug     | New         | Normal   | Cannot compile gr-osmosdr!  | horiz0n  | 07/18/2019 05:35 AM |  |
| 3855 | gr-osmosdr             | Bug     | New         | Normal   | Cannot build gr-osmosdr with Gnuradio 3.8   | horiz0n  | 07/13/2020 10:05 PM |  |
| 3663 | gr-osmosdr             | Bug     | New         | Normal   | Can't compile gr-osmosdr on macOS Mojave  |          | 10/19/2018 02:37 PM |  |
| 3592 | gr-osmosdr             | Bug     | New         | Normal   | rtl: Race Conditions  | horiz0n  | 07/18/2019 05:35 AM |  |
| 3462 | gr-osmosdr             | Bug     | New         | Normal   | gr-osmosdr installation bladerf conversion errors                                     | horiz0n  | 07/18/2019 05:35 AM |  |
| 3240 | gr-osmosdr             | Bug     | New         | Normal   | Expose airspy gain setting in gr-osmosdr block  |          | 06/03/2018 12:08 PM |  |
| 2216 | gr-osmosdr             | Bug     | New         | Normal   | uhd: LO offset doesn't seem to work properly  |          | 06/03/2018 12:08 PM |  |
| 2514 | GSM Audio Pocket Knife | Bug     | Stalled     | Normal   | GSM HR encoding result does not match the reference                                   | fixeria  | 04/03/2019 08:37 AM |  |
| 4480 | IMSI Pseudonymization  | Bug     | New         | Normal   | Applet/OsmoMSC: fix or workaround for OsmoMSC only paging attached MS                 |          | 04/16/2020 08:45 AM | Related to #4480                               |
| 4417 | IMSI Pseudonymization  | Bug     | New         | Normal   | Applet: LU counter should only increase on successful location update                 |          | 04/16/2020 08:45 AM | Related to #4478                               |
| 5896 | libosmo-abis           | Bug     | Feedback    | Normal   | libosmo-abis built without --enable-e1d in deb and rpm packages                       | laforge  | 02/07/2023 11:40 AM | Blocks #5896                                   |
| 5756 | libosmo-abis           | Bug     | New         | Normal   | io_uring support in libosmo-abis  |          | 03/20/2024 03:58 PM | Related to #5756,Related to #6357,Blocks #5896 |
| 5356 | libosmo-abis           | Bug     | New         | Normal   | libosmo-abis: osmo_rtp_socket_connect() not calling connect() on sockets              |          | 12/13/2021 12:50 PM |  |
| 4464 | libosmo-abis           | Bug     | In Progress | Normal   | "osmo_rtp_socket_poll(): ERROR!" messages during normal osmo-bts usage                | laforge  | 02/06/2021 02:27 PM | Related to #4467                               |
| 3622 | libosmo-abis           | Bug     | New         | Normal   | Clear API mess in sign_link_up callback   | pespin   | 10/02/2018 07:34 PM |  |
| 3812 | libosmo-netif          | Bug     | Stalled     | Normal   | stream_test fails depending on where it is run  |          | 03/13/2019 04:15 PM |  |
| 2440 | libosmo-netif          | Bug     | New         | Normal   | Osmux: Improve lost packet recreation mechanism                                       |          | 12/01/2019 10:11 AM | Blocks #2439                                   |
| 2439 | libosmo-netif          | Bug     | New         | Normal   | Osmux: overwrite duplicated RTP packets instead of dropping them                      |          | 12/01/2019 10:11 AM | Blocks #2439                                   |

...