

## 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 |   |
| 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 |   |
| 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  |
| 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  |
| 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 |
| 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  |
| 5481 | Open Source IMS Client                         | Feature | New         | Urgent    | SIM card interface for doubango  | laforge   | 03/25/2022 11:00 AM | Related to #5482  |
| 3819 | gr-osmosdr                                     | Support | New         | Urgent    | OSMO SDR blocks for GNUradio   |           | 02/28/2019 06:00 PM |   |
| 1505 | UmTRX  | Bug     | New         | High      | OHM4 footprint incorrect   |           | 02/19/2016 10:52 PM |   |
| 1507 | UmTRX  | Feature | New         | High      | Implement UmSEL tuner control  | ipse      | 02/21/2016 04:47 PM |   |
| 1508 | UmTRX  | Feature | New         | High      | Implement UmSEL diversity switch control                                 | ipse      | 02/21/2016 04:47 PM |   |
| 1510 | UmTRX  | Feature | New         | High      | Complete UHD integration   | ipse      | 02/21/2016 04:47 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  |
| 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                                   |
| 3379 | SIMtrace 2                                     | Bug     | Stalled     | High      | documentation on how to use SIMtrace2                                    | laforge   | 11/14/2022 05:31 PM | Related to #3379  |
| 5419 | SIMtrace 2                                     | Bug     | Stalled     | High      | cardem errors with higher baud rate                                      | laforge   | 11/07/2022 06:22 PM |   |
| 1474 | SDR (Software Defined Radio)                   | Bug     | New         | High      | USB Claim Interface Error  | steve-m   | 02/20/2016 08:23 PM |   |
| 4383 | pySim  | Bug     | Stalled     | High      | Jenkins build verification is non-deterministic                          | dexter    | 04/06/2021 04:58 PM | Related to #4384,Related to #5127                                   |

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| 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                      |
| 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 |   |
| 5516 | OsmoTRX  | Feature | In Progress | High     | BladeRF 2.0 Support  | Hoernchen | 02/14/2023 02:59 PM | Is duplicate of #2430   |
| 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 |   |
| 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                                   |
| 2955 | OsmoSGSN | Bug     | New         | High     | No GMM ATTACH REJECT on GSUP UpdateLocation Error  | lynxis    | 09/10/2019 07:39 PM |   |
| 5349 | OsmoSGSN | Bug     | In Progress | High     | Message for non-existing SNDCCP Entity   |           | 07/17/2023 04:42 PM |   |
| 4222 | OsmoSGSN | Bug     | New         | High     | Implement PS Paging for the Routing Areas  |           | 10/03/2020 02:20 PM | Related to #4222  |
| 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  |
| 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                                   |
| 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                  |
| 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 |   |
| 1766 | OsmoPCU  | Bug     | In Progress | High     | KPIs for OsmoPCU: EGPRS  |           | 01/22/2020 02:06 PM | Related to #1766,Related to #1766                                   |
| 6436 | OsmoPCU  | Bug     | New         | High     | high cpu usage, entire BTS unresponsive after some hours   | keith     | 04/13/2024 04:32 PM |   |
| 1925 | OsmoPCU  | Bug     | New         | High     | Fix padding for MCS8 transition  |           | 01/08/2020 10:31 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 |   |
| 1560 | OsmoPCU  | Feature | New         | High     | EDGE benchmarking / performance optimization / tuning  |           | 01/08/2020 10:31 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 |

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| 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 |
| 4830 | OsmoMSC                    | Bug     | In Progress | High     | LU reject when no authentication data in HLR but "authentication optional"                | neels     | 10/10/2022 02:03 PM |  |
| 5057 | OsmoMSC                    | Bug     | New         | High     | Can only send a maximum of 15 SMPP messages?  | Hoernchen | 09/15/2021 09:53 AM |  |
| 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 |
| 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 |  |
| 3717 | OsmoHLR                    | Bug     | Stalled     | High     | SS/USSD: fix SS session inactivity timeout  | fixeria   | 12/05/2018 08:45 PM |  |
| 4312 | OsmoHLR                    | Bug     | New         | High     | GSUP keepalives / connection loss detection   |           | 10/12/2020 02:42 PM |  |
| 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                                   |
| 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 |  |
| 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 |  |
| 5396 | OsmocomDECT                | Bug     | New         | High     | TcpDump/WireShark will not build with libpcap(dect)                                       |           | 01/09/2022 12:57 PM |  |
| 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                  |
| 4829 | OsmocomBB                  | Bug     | Stalled     | High     | OsmocomBB Rx bit errors in dedicated mode   | laforge   | 02/06/2021 09:11 AM | Related to #4832                                   |
| 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                      |
| 3399 | OsmocomBB                  | Feature | Stalled     | High     | mobile: refactor / finish external MNCC handler implementation                            | fixeria   | 10/04/2018 09:07 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                  |
| 6337 | OsmocomBB                  | Bug     | New         | High     | bad fr audio with gapk/ms-sdr   |           | 01/22/2024 09:21 PM | Related to #6337                                   |
| 1458 | OsmocomBB                  | Bug     | New         | High     | AGC broken (strong cell cannot be synced)   | tnt       | 07/18/2019 06:10 AM | Related to #3582                                   |
| 2409 | OsmocomBB                  | Feature | Stalled     | High     | Add GPRS support to virt_phy and L1CTL  | fixeria   | 08/19/2022 03:06 PM |  |
| 1462 | OsmocomBB                  | Bug     | New         | High     | ../src/utlis.c:182:7: error: only weak aliases are supported in this configuration        |           | 02/21/2016 04:48 PM |  |

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| 6290 | Osmocom Conferences (OsmoDevCon, OsmoCon, OsmoDevCall) | Feature | In Progress | High     | Organize OsmoDevCon 2024   | laforge   | 03/06/2024 12:06 PM |   |
| 3977 | OsmoCBC  | Feature | New         | High     | SABP stream delineation routines   | laforge   | 09/23/2019 04:49 AM | Related to #3979,Related to #4944   |
| 5257 | OsmoBTS  | Bug     | New         | High     | support random padding in SACCH downlink messages  |           | 10/12/2021 11:18 AM | Related to #5257  |
| 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   |
| 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 |   |
| 4940 | OsmoBSC  | Feature | Stalled     | High     | VAMOS support in OsmoBSC   | neels     | 08/11/2021 02:47 PM | Related to #4941  |
| 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  |
| 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   |
| 3659 | OsmoBSC  | Feature | Stalled     | High     | handover during LCLS directly between BTSs   | dexter    | 05/22/2023 09:23 AM | Related to #3659,Related to #3659,Related to #3659,Related to #3659,Related to #3659,Related to #3783 |
| 5527 | osmo-remsim  | Bug     | Stalled     | High     | warn on duplicate client (id) connections  | laforge   | 07/13/2022 01:25 PM | Related to #5527  |
| 4781 | osmo-qcdiag  | Bug     | New         | High     | get hoernchen/gsmtdp branch merged   | Hoernchen | 10/06/2020 03:18 PM |   |
| 4522 | osmo-gbproxy   | Feature | Stalled     | High     | gbproxy: Redundancy within proxy pair  | daniel    | 07/09/2021 06:43 PM |   |
| 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 |   |
| 4916 | osmo-e1d   | Bug     | Stalled     | High     | USB unplug / replug renders e1d unusable   | laforge   | 12/04/2023 12:34 PM | Related to #5983  |

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|------|------------------------|---------|-------------|----------|---|----------|---------------------|------------------------------------|
| 6169 | osmo-e1d               | Bug     | New         | High     | Frame masking against network frame ordering, not frame numbers   | laforge  | 10/18/2023 03:19 PM |                                    |
| 5480 | Open Source IMS Client | Feature | In Progress | High     | Linux kernel IPsec plugin for doubango  | laforge  | 03/25/2022 10:44 AM |                                    |
| 2171 | OP25                   | Feature | New         | High     | Use libfftw3 for IFFT/FFT functions.  |          | 04/22/2017 04:14 PM |                                    |
| 2175 | OP25                   | Feature | New         | High     | Update code for GNURadio 3.6 and later  |          | 04/22/2017 04:14 PM |                                    |
| 2155 | OP25                   | Feature | New         | High     | Replace FSK4 demodulation with IQ demodulator stage.  |          | 04/22/2017 04:16 PM |                                    |
| 2173 | OP25                   | Feature | New         | High     | Remove dependency on ET++   |          | 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 |                                    |
| 2168 | OP25                   | Bug     | New         | High     | Implement Forward error correction for LDU1/2   |          | 04/22/2017 04:15 PM |                                    |
| 2156 | OP25                   | Feature | New         | High     | Implement forward error correction for HDU.   |          | 04/22/2017 04:16 PM |                                    |
| 2167 | OP25                   | Feature | New         | High     | Implement Encryption/Decryption P25 blocks  |          | 04/22/2017 04:15 PM |                                    |
| 2172 | OP25                   | Bug     | New         | High     | HDU often missing in captures   |          | 04/22/2017 04:14 PM |                                    |
| 2162 | OP25                   | Bug     | New         | High     | Fix bit-ordering in output for VC55.  |          | 04/22/2017 04:15 PM |                                    |
| 2157 | OP25                   | Feature | New         | High     | Fix "traffic" tab so it displays data for non-HDU data units  |          | 04/22/2017 04:16 PM |                                    |
| 2169 | OP25                   | Bug     | New         | High     | First-cut of trunking support   |          | 04/22/2017 04:15 PM |                                    |
| 2158 | OP25                   | Feature | New         | High     | Create a shared library for decoding for WireShark and the decoder.   |          | 04/22/2017 04:16 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 |                                    |
| 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 |
| 1477 | Mobile (in)Security    | Bug     | New         | High     | RACH flood DoS  |          | 02/21/2016 04:34 PM |                                    |
| 1478 | Mobile (in)Security    | Bug     | New         | High     | IMSI DETACH DoS   |          | 09/02/2019 09:00 AM |                                    |
| 1480 | Mobile (in)Security    | Bug     | New         | High     | A5/3 is not deployed in GSM networks  |          | 02/21/2016 04:34 PM |                                    |
| 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 |
| 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 |                                    |
| 5144 | gr-osmosdr             | Bug     | New         | High     | Support multiple Airspy devices   | horiz0n  | 10/21/2023 07:22 PM |                                    |
| 5425 | gr-osmosdr             | Bug     | New         | High     | Problem receiving samples using dual receivers with BladeRF   |          | 01/29/2022 04:22 AM |                                    |
| 5731 | gr-osmosdr             | Bug     | New         | High     | Install gr-osmosdr on Ubuntu 20.04  |          | 10/27/2022 01:39 PM |                                    |
| 2824 | gr-osmosdr             | Bug     | New         | High     | Corrupted double-linked for Raspbian Stretch when running osmocom_fft (and any other program using osmosdr.source |          | 06/03/2018 12:08 PM |                                    |

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| 3734 | gr-osmosdr                      | Bug     | New         | High     | Cannot compile gr-osmocom   |          | 12/16/2018 12:22 AM |  |
| 5571 | Ericsson RBS 6xxx               | Bug     | New         | High     | DUG can come up, but with Avail: "Power Off"  | dexter   | 11/08/2022 05:10 PM |  |
| 4308 | Distributed GSM                 | Support | New         | High     | thoughts about incorporating credit / billing in D-GSM  |          | 12/04/2019 04:08 PM |  |
| 4576 | Core testing infrastructure     | Bug     | Stalled     | High     | ttcn3-hlr-tests need to route multicast traffic between ttcn3-hlr-test and osmo-hlr-master containers | neels    | 10/28/2020 09:48 PM |  |
| 4578 | Cellular Network Infrastructure | Bug     | New         | High     | Updated slides / presentations / videos on setting up Osmocom CNI                                     | laforge  | 02/13/2021 05:35 PM |  |
| 4107 | Cellular Network Infrastructure | Feature | In Progress | High     | Start systemd services as non-root user   | osmith   | 04/24/2024 10:05 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   |
| 2807 | Z-Netz                          | Bug     | Stalled     | Normal   | Obtain ZERBERUS software build[s] and manual[s]   | laforge  | 01/01/2020 01:51 PM |  |
| 2808 | Z-Netz                          | Bug     | New         | Normal   | Create + Document VM/emulation setup for running ZERBERUS   |          | 01/01/2018 01:09 PM |  |
| 2813 | Z-Netz                          | Feature | New         | Normal   | Create + Document OpenXP setup on Linux   |          | 01/01/2018 01:41 PM |  |
| 2814 | Z-Netz                          | Feature | New         | Normal   | Create + Document classic CrossPoint setup on DOS (dosemu)  |          | 01/01/2018 01:41 PM |  |
| 2809 | Z-Netz                          | Bug     | New         | Normal   | Build ZConnect <-> UseNet gateway   |          | 01/01/2018 01:33 PM |  |
| 1518 | UmTRX                           | Feature | New         | Normal   | Upper limit of the clock is too low   |          | 02/19/2016 10:52 PM |  |
| 1517 | UmTRX                           | Feature | New         | Normal   | U_FL (UMC) connectors are not reliable after few connections  |          | 02/19/2016 10:52 PM |  |
| 1516 | UmTRX                           | Feature | New         | Normal   | There are no port to control external equipment like PA   |          | 02/19/2016 10:52 PM |  |
| 1509 | UmTRX                           | Feature | New         | Normal   | Store calibration values in EEPROM  | ipse     | 02/21/2016 04:47 PM |  |
| 1511 | UmTRX                           | Feature | New         | Normal   | Solve Tx and Rx I/Q imbalance for wideband signals  |          | 02/19/2016 10:52 PM |  |
| 1506 | UmTRX                           | Feature | New         | Normal   | Move to the latest stable UHD   | ipse     | 02/21/2016 04:47 PM |  |
| 3747 | UmTRX                           | Feature | New         | Normal   | LMS6002D RX Gain Control  | ipse     | 01/08/2019 09:46 AM |  |
| 1504 | UmTRX                           | Feature | New         | Normal   | LMS6002 phase error increases when Rx is enabled and varies with temperature                          | ttsou    | 02/19/2016 10:52 PM |  |
| 1515 | UmTRX                           | Feature | New         | Normal   | Heat dissipation and mounting issue   |          | 02/19/2016 10:52 PM |  |
| 4118 | SIMtrace 2                      | Bug     | New         | Normal   | VCC_PHONE strong pull on SIMtrace board   | mschramm | 02/01/2023 12:16 PM | Related to #4118,Related to #4118  |

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| 6181 | SIMtrace 2                   | Bug     | Feedback    | Normal   | Unexpected INS code with simtrace2-sniff: 0x7f  | v.marinos     | 10/18/2023 09:41 PM |                                   |
| 5770 | SIMtrace 2                   | Bug     | Feedback    | Normal   | simtrace2 firmware ignores any but the first USB message sent by simtrace2-list after a reset | jtavares      | 11/23/2022 04:01 AM |                                   |
| 3815 | SIMtrace 2                   | Bug     | New         | Normal   | simtrace2 fails USB-IF CH9 test   | Hoernchen     | 05/12/2020 07:24 PM |                                   |
| 5600 | SIMtrace 2                   | Feature | Feedback    | Normal   | SIMtrace2 fails to emulate EMV cards  | boggy123      | 12/14/2022 01:07 PM |                                   |
| 5805 | SIMtrace 2                   | Feature | New         | Normal   | SIM Trace 2 Build for Windows   | jelson_simEng | 04/02/2023 09:56 AM |                                   |
| 5826 | SIMtrace 2                   | Feature | Stalled     | Normal   | SAM4S4BA support in firmware  | laforge       | 01/31/2023 08:06 PM | Related to #5826                  |
| 5639 | SIMtrace 2                   | Bug     | Feedback    | Normal   | No packet captured but only "Card state change:"  | g1bbs         | 09/20/2023 01:29 PM |                                   |
| 3371 | SIMtrace 2                   | Feature | New         | Normal   | migrate to use arm-none-eabi build of libosmocore.git   | laforge       | 08/09/2018 12:14 PM |                                   |
| 5276 | SIMtrace 2                   | Feature | Stalled     | Normal   | jenkins CI integration like for osmo-ccid-firmware  | roh           | 11/14/2022 05:24 PM | Related to #5422                  |
| 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 |
| 4041 | SIMtrace 2                   | Bug     | New         | Normal   | implement SIMTRACE_CMD_BD_BOARD_INFO  | laforge       | 12/06/2019 01:38 PM | Related to #4041                  |
| 4430 | SIMtrace 2                   | Bug     | New         | Normal   | firmware can get in endless out-of-memory loop on OUT EP flood                                | laforge       | 11/14/2022 11:46 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 |                                   |
| 5415 | SIMtrace 2                   | Bug     | New         | Normal   | cardem: watchdog triggers firmware reset  | lynxis        | 02/15/2022 08:07 PM |                                   |
| 5464 | SIMtrace 2                   | Bug     | In Progress | Normal   | cardem firmware unable to attach to card  | laforge       | 11/18/2022 06:41 PM | Related to #5464                  |
| 3711 | SIMtrace 2                   | Feature | New         | Normal   | Add screw holes for permanent installations   | mschramm      | 11/01/2023 08:28 PM |                                   |
| 5422 | SIMtrace 2                   | Feature | In Progress | Normal   | "cardem" continuous testing setup   | laforge       | 01/27/2022 12:22 PM | Related to #5422                  |
| 1678 | SDR (Software Defined Radio) | Bug     | New         | Normal   | Use -undefined dynamic_lookup when using Python and building on Mac OS X                      |               | 03/30/2016 11:25 PM |                                   |
| 3817 | SDR (Software Defined Radio) | Bug     | New         | Normal   | Unable to use fospor display on Ubuntu 18.10  |               | 02/26/2019 06:56 PM |                                   |
| 2764 | SDR (Software Defined Radio) | Support | New         | Normal   | osmocom_fft & siggen can't access the X display   |               | 12/15/2017 06:09 PM |                                   |
| 5850 | SDR (Software Defined Radio) | Bug     | New         | Normal   | OBS mingw builds not updated since 2019   | roox          | 01/04/2023 12:15 PM |                                   |
| 2224 | SDR (Software Defined Radio) | Feature | New         | Normal   | New Fospor Benchmark Performance  |               | 05/04/2017 01:23 PM |                                   |
| 4580 | SDR (Software Defined Radio) | Feature | New         | Normal   | gr-osmosdr compilation under GnuRadio 3.9.0   |               | 06/04/2020 01:13 AM |                                   |
| 4677 | SDR (Software Defined Radio) | Bug     | New         | Normal   | fopher crash on OSX with Qt   |               | 07/27/2020 03:27 AM |                                   |
| 4685 | SDR (Software Defined Radio) | Bug     | New         | Normal   | Can't compile libusrp   |               | 08/04/2020 08:52 AM |                                   |

| #    | Project                      | Tracker | Status   | Priority | Subject  | Assignee | Updated             | Related issues |
|------|------------------------------|---------|----------|----------|--|----------|---------------------|----------------|
| 4653 | SDR (Software Defined Radio) | Bug     | New      | Normal   | cannot import name 'fospor'  |          | 07/07/2020 02:39 AM |                |
| 3589 | rtl-sdr                      | Bug     | New      | Normal   | ZeroCopy Buffers Unusable Outside Callback Without memcpy()  |          | 09/25/2018 12:58 PM |                |
| 6012 | rtl-sdr                      | Bug     | New      | Normal   | Update wiki for macos build  | steve-m  | 05/01/2023 02:38 AM |                |
| 5220 | rtl-sdr                      | Bug     | New      | Normal   | Undefined reference to libusb_dev_mem_free   | steve-m  | 08/31/2021 09:21 AM |                |
| 5291 | rtl-sdr                      | Feature | New      | Normal   | Ship the udev rules upstream   | steve-m  | 11/05/2021 11:04 AM |                |
| 5120 | rtl-sdr                      | Bug     | New      | Normal   | rtlsdr_demod_write_reg failed with -9  |          | 04/18/2021 08:55 PM |                |
| 6005 | rtl-sdr                      | Bug     | New      | Normal   | rtl-test and rtl-sdr exit code=-5 when running on Windows 10 WSL and Ubuntu  | steve-m  | 10/18/2023 05:45 PM |                |
| 6225 | rtl-sdr                      | Bug     | New      | Normal   | rtl-sdr reelease tarballs missing from <a href="https://ftp.osmocom.org/releases/">https://ftp.osmocom.org/releases/</a> | osmith   | 10/19/2023 09:46 AM |                |
| 2607 | rtl-sdr                      | Bug     | New      | Normal   | rtl-sdr gnuradio cfile is outdated   |          | 06/03/2018 12:23 PM |                |
| 4758 | rtl-sdr                      | Bug     | New      | Normal   | rtl_tcp no longer works on macos 10.15 via macports  | steve-m  | 04/30/2023 11:59 AM |                |
| 6329 | rtl-sdr                      | Bug     | New      | Normal   | rtl_sdr does not have correct rpath set on OSX build   |          | 01/12/2024 09:57 PM |                |
| 5922 | rtl-sdr                      | Bug     | New      | Normal   | rtl_sdr bytes_to_read wraparound for n > 2**31   | steve-m  | 03/20/2023 10:16 AM |                |
| 4720 | rtl-sdr                      | Bug     | New      | Normal   | rtl_power reports invalid values   |          | 08/19/2020 02:47 PM |                |
| 3315 | rtl-sdr                      | Feature | New      | Normal   | review and possibly apply patches from debian package  | steve-m  | 06/03/2018 01:17 PM |                |
| 4080 | rtl-sdr                      | Support | New      | Normal   | Receiving UTAs on 978 Mhz  |          | 07/02/2019 12:08 PM |                |
| 6032 | rtl-sdr                      | Bug     | New      | Normal   | Poor APRS demodulation using RTL_FM on RaspberryPI or on old PC  |          | 05/15/2023 12:14 PM |                |
| 4513 | rtl-sdr                      | Bug     | New      | Normal   | PKG information broken   |          | 04/26/2020 03:21 PM |                |
| 3591 | rtl-sdr                      | Bug     | New      | Normal   | No Way To Detect Occasional Failed Bulk Transfers  |          | 09/25/2018 01:29 PM |                |
| 3590 | rtl-sdr                      | Bug     | New      | Normal   | Key Functions Missing Documentation  |          | 09/25/2018 01:04 PM |                |
| 6413 | rtl-sdr                      | Bug     | New      | Normal   | Incorrect Debian/Debian-like binary packages   | steve-m  | 03/22/2024 05:09 PM |                |
| 3797 | rtl-sdr                      | Bug     | New      | Normal   | Exits with "Bus error"   |          | 02/12/2019 02:28 PM |                |
| 3588 | rtl-sdr                      | Bug     | New      | Normal   | Error Values Inconsistent  |          | 09/25/2018 12:47 PM |                |
| 4427 | rtl-sdr                      | Bug     | New      | Normal   | docker + rtl_sdr issue   |          | 02/29/2020 01:16 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 |                |
| 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 |                |
| 6218 | Retronetworking              | Feature | New      | Normal   | write article/report on EWSD rescue for IGHFT / Fernmeldemuseum Dresden  | laforge  | 10/17/2023 02:11 PM |                |
| 5768 | Retronetworking              | Feature | New      | Normal   | retronetworking logo / artwork   |          | 04/07/2024 10:40 PM |                |
| 6219 | Retronetworking              | Feature | New      | Normal   | Publish pics/videos for EWSD rescue/move   | laforge  | 10/17/2023 02:10 PM |                |
| 6224 | Retronetworking              | Feature | Feedback | Normal   | how to document the rescued EWSD   |          | 10/18/2023 04:51 PM |                |
| 5681 | Retronetworking              | Bug     | New      | Normal   | Figure out suitable connectors for EKSOS   | laforge  | 07/31/2023 10:22 AM |                |



| #    | Project                               | Tracker | Status      | Priority | Subject   | Assignee  | Updated             | Related issues   |
|------|---------------------------------------|---------|-------------|----------|---|-----------|---------------------|------------------|
| 5855 | Retronetworking                       | Feature | New         | Normal   | Establishing a German non-profit for retronetworking                          | laforge   | 01/13/2023 11:59 AM |                  |
| 5543 | Retronetworking                       | Feature | New         | Normal   | Contact manufacturers for leftover stock                                      |           | 06/27/2023 09:05 PM |                  |
| 5938 | Retrocomputing                        | Feature | In Progress | Normal   | assemble "fake parallel printer"  | laforge   | 09/13/2023 09:32 AM |                  |
| 1815 | Qualcomm Linux Modems by Quectel & Co | Feature | New         | Normal   | tool for building binary ipk from .list/.control                              |           | 10/02/2016 05:06 AM |                  |
| 4135 | Qualcomm Linux Modems by Quectel & Co | Support | New         | Normal   | how to use network inside ec20  |           | 07/31/2019 11:20 AM |                  |
| 1813 | Qualcomm Linux Modems by Quectel & Co | Bug     | New         | Normal   | cat /dev/snd/* causes kernel oops   |           | 09/30/2016 04:00 PM |                  |
| 5714 | pySim                                 | Bug     | Stalled     | Normal   | update_record_decoded does not use real record length when writing EF.MSISDN  | dexter    | 09/17/2023 09:46 AM |                  |
| 5127 | pySim                                 | Feature | New         | Normal   | tool for "re-formatting" [sysmocom] cards in tester                           | laforge   | 10/14/2021 07:16 PM | Related to #5127 |
| 5630 | pySim                                 | Bug     | Stalled     | Normal   | pySim-trace doesn't support decoding classic SIM cards (TS 11.11 / TS 51.011) | laforge   | 07/24/2022 11:06 AM |                  |
| 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 |
| 5878 | pySim                                 | Bug     | New         | Normal   | pySim shell: version fails with DistributionNotFound                          | fixeria   | 10/06/2023 09:03 AM |                  |
| 6367 | pySim                                 | Feature | New         | Normal   | PC/SC <-> Android OMAPI bridge for pySim and others                           |           | 02/17/2024 01:34 PM |                  |
| 6418 | pySim                                 | Bug     | New         | Normal   | osmo-smdpp docs   |           | 03/25/2024 05:54 PM |                  |
| 6089 | pySim                                 | Feature | Feedback    | Normal   | log the current file / operation during execution of a script                 | laforge   | 11/27/2023 04:37 PM |                  |
| 4384 | pySim                                 | Feature | Stalled     | Normal   | Jenkins program-read verification on daily (or weekly) basis                  | dexter    | 03/27/2023 04:13 PM | Related to #4384 |
| 6316 | pySim                                 | Feature | New         | Normal   | include test data in user manual  |           | 12/23/2023 03:10 PM |                  |
| 5550 | pySim                                 | Bug     | New         | Normal   | EF.ARR file decoding would need to be context dependent                       | chrysn    | 06/24/2022 08:50 AM |                  |
| 6265 | pySim                                 | Feature | New         | Normal   | decode numeric SW in case of errors   | dexter    | 12/11/2023 01:01 PM |                  |
| 6317 | pySim                                 | Bug     | Stalled     | Normal   | data driven tests for TLV decoders  | laforge   | 02/15/2024 09:21 PM |                  |
| 6119 | pySim                                 | Bug     | In Progress | Normal   | aram_get_config runs into an exception on a sysmocomSJA2                      | laforge   | 12/05/2023 05:26 PM |                  |
| 6398 | pySim                                 | Bug     | New         | Normal   | Add helper for SwMatchError   |           | 03/09/2024 09:34 PM |                  |
| 5814 | OsmoUPF                               | Feature | New         | Normal   | tunmap: more concisely match on GTP-U packets                                 |           | 12/06/2022 07:30 PM |                  |
| 5900 | OsmoUPF                               | Feature | In Progress | Normal   | make sure chain ids used in the tunmap nft ruleset are unused                 |           | 02/09/2023 05:34 PM |                  |
| 5662 | OsmoUPF                               | Feature | New         | Normal   | add Linux kernel options to manual  |           | 08/24/2022 03:13 PM |                  |
| 5859 | OsmoTRX                               | Feature | New         | Normal   | remove non-neon and non-sse support   | Hoernchen | 01/16/2023 10:17 PM |                  |
| 3141 | OsmoTRX                               | Bug     | New         | Normal   | Refactor / clean up TRX CTRL / DATA interfaces implementation                 |           | 04/05/2018 05:46 PM |                  |

| #    | Project | Tracker | Status   | Priority | Subject  | Assignee  | Updated             | Related issues  |
|------|---------|---------|----------|----------|--|-----------|---------------------|---|
| 3775 | OsmoTRX | Bug     | Stalled  | Normal   | properly debug limesdr usb and limesdr mini clocking requirements and osmo-trx support       |           | 09/30/2020 08:09 PM | Blocks #3341,Blocks #3342,Blocks #3775                              |
| 3061 | OsmoTRX | Bug     | New      | Normal   | OsmoTRX ARM chroot build jobs failing due to proot bug                                       | pespin    | 12/02/2019 04:54 PM | Related to #3766,Related to #4301                                   |
| 4469 | OsmoTRX | Bug     | New      | Normal   | osmo-trx-uhd is sending UDP packets to port 49600 at various addresses on startup            | laforge   | 06/13/2020 06:07 PM |   |
| 4362 | OsmoTRX | Feature | Stalled  | Normal   | osmo-trx-lms: Support multi-arfcn feature  |           | 09/30/2020 08:09 PM | Related to #4362,Related to #4362                                   |
| 3981 | OsmoTRX | Bug     | New      | Normal   | osmo-trx-lms: Overruns appear from time to time  |           | 09/30/2020 08:08 PM | Related to #3981  |
| 3342 | OsmoTRX | Bug     | Stalled  | Normal   | osmo-trx-lms: low tx output power level  | Hoernchen | 04/06/2022 09:25 AM | Related to #3342,Blocks #3342                                       |
| 3949 | OsmoTRX | Bug     | New      | Normal   | osmo-trx-lms: improve runtime gain setting (missing calibration)                             |           | 09/30/2020 08:08 PM | Related to #4468  |
| 3067 | OsmoTRX | Bug     | New      | Normal   | osmo-trx usrp b100 time out and packet loss between host and device                          | ttsou     | 03/15/2018 06:36 PM |   |
| 3344 | OsmoTRX | Feature | New      | Normal   | merge ttsou/siggen   |           | 06/13/2018 07:26 PM |   |
| 4637 | OsmoTRX | Bug     | New      | Normal   | limesdr usb gain setting changes break gsm phasenoise constraints                            |           | 06/29/2020 04:43 PM |   |
| 5178 | OsmoTRX | Bug     | New      | Normal   | LimeNET Micro clock error  | Hoernchen | 09/15/2021 09:42 AM |   |
| 5283 | OsmoTRX | Feature | New      | Normal   | Implement TRXDv2 support   | fixeria   | 10/27/2021 10:35 PM | Related to #5283  |
| 5050 | OsmoTRX | Bug     | New      | Normal   | How can I solve limesdr mini clock problem with osmocom ?                                    |           | 02/27/2021 01:55 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 |
| 4366 | OsmoTRX | Bug     | New      | Normal   | Create testsuite to test osmo-bts-trx+osmo-trx under high channel load (w/ RACH correlation) | pespin    | 01/15/2020 01:59 PM | Related to #4366  |
| 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  |
| 6231 | OsmoTRX | Feature | New      | Normal   | add support / calibration values for AntSDR E200   | roh       | 10/21/2023 03:25 PM |   |
| 4468 | OsmoTRX | Bug     | Feedback | Normal   | "RSSI offset" default of 0 is not useful   | Hoernchen | 10/14/2020 02:40 PM | Related to #4468,Related to #4468,Related to #4583                  |
| 3606 | OsmoSTP | Feature | New      | Normal   | Support for multiple NI (network indicator)  |           | 10/03/2018 08:58 AM |   |
| 3607 | OsmoSTP | Feature | New      | Normal   | Support for capability point codes   |           | 10/03/2018 08:58 AM |   |

| #    | Project  | Tracker | Status      | Priority | Subject   | Assignee | Updated             | Related issues   |
|------|----------|---------|-------------|----------|---|----------|---------------------|--|
| 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 |  |
| 4274 | OsmoSTP  | Bug     | New         | Normal   | AS Name isn't displayed   |          | 03/14/2024 10:33 AM |  |
| 1690 | OsmoSMSC | Bug     | New         | Normal   | Insert: Generate message ID (e.g. UUID)   | zecke    | 04/06/2016 12:26 PM |  |
| 1689 | OsmoSMSC | Feature | New         | Normal   | insert: Change destination number based on criteria similar to route handling on output | zecke    | 04/06/2016 12:18 PM |  |
| 1623 | OsmoSMSC | Feature | New         | Normal   | Configure delivery report for the SMPP delivery links                                   | zecke    | 02/24/2016 01:49 PM |  |
| 3224 | OsmoSGSN | Bug     | New         | Normal   | verify ciphering after UMTS AKA   |          | 01/08/2020 10:48 PM | Related to #3193,Related to #3224  |
| 6441 | OsmoSGSN | Bug     | New         | Normal   | use-after-free on RAU with invalid Old RAI  |          | 04/22/2024 01:23 PM | Related to #6441   |
| 4886 | OsmoSGSN | Bug     | New         | Normal   | UE does not connect data when moving from 2G->3G  |          | 12/04/2020 01:29 AM |  |
| 6439 | OsmoSGSN | Bug     | Feedback    | Normal   | ttn3-sgsn-test: SGSN_Tests.TC_attach_rau_a_b crashes osmo-sgsn                          | fixeria  | 04/21/2024 02:07 PM | Related to #6439,Related to #6441  |
| 3939 | OsmoSGSN | Bug     | New         | Normal   | TTCN: do a GMM Attach Request when in GMM Connected and have a PDP Request              |          | 04/24/2019 08:25 AM |  |
| 3940 | OsmoSGSN | Bug     | New         | Normal   | TTCN-3: lu: test UMTS Auth  |          | 04/24/2019 08:24 AM |  |
| 6295 | OsmoSGSN | Bug     | New         | Normal   | TMSI realloc complete leads to SecurityModeReject                                       | osmith   | 12/07/2023 03:15 PM |  |
| 44   | OsmoSGSN | Bug     | New         | Normal   | TLLI clash possible   | pespin   | 02/06/2021 01:31 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 |  |
| 2501 | OsmoSGSN | Bug     | In Progress | Normal   | suspected problem with unanswered neighbor solicitation                                 | osmith   | 09/11/2019 12:58 PM |  |
| 1794 | OsmoSGSN | Bug     | Stalled     | Normal   | support random IV for GEA (via XID)   |          | 03/01/2018 11:17 PM | Related to #1910,Related to #1672,Related to #2843,Blocks #1794,Blocks #1582 |
| 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   |
| 3689 | OsmoSGSN | Bug     | New         | Normal   | Support Cisco GGSN (Cisco 7200 with IOS 12.4.x)   |          | 04/09/2019 11:21 AM |  |
| 1587 | OsmoSGSN | Feature | Stalled     | Normal   | SMS over GPRS support   |          | 11/25/2018 08:14 PM | Related to #3587   |
| 3964 | OsmoSGSN | Bug     | New         | Normal   | SIGSEGV in sndcp_sm_deactivate_ind()  |          | 10/10/2019 07:11 PM | Related to #3964,Related to #4221,Related to #4602                           |
| 6442 | OsmoSGSN | Bug     | New         | Normal   | SGSN does not answer to first GMM ATTACH REQUEST  |          | 04/24/2024 05:48 PM |  |

| #    | Project  | Tracker | Status      | Priority | Subject   | Assignee | Updated             | Related issues   |
|------|----------|---------|-------------|----------|---|----------|---------------------|--|
| 4602 | OsmoSGSN | Bug     | Feedback    | Normal   | SGSN crash with "Assert failed mm->gb.llme == NULL<br>gprs_sgsn.c:358"              | lynxis   | 02/26/2021 07:34 PM | Related to #4604,Related to #4605,Related to #4602                                   |
| 4825 | OsmoSGSN | Bug     | New         | Normal   | security command is missing sometimes   |          | 10/22/2020 02:40 AM |  |
| 2305 | OsmoSGSN | Bug     | New         | Normal   | review 'laforge/santos' branch and check if there are pending fixes                 |          | 01/08/2020 10:56 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 |
| 5154 | OsmoSGSN | Bug     | New         | Normal   | OsmoSGSN doesn't trigger 3G paging if downlink GTP traffic arrives after long break |          | 05/13/2021 12:28 PM | Related to #5154   |
| 3356 | OsmoSGSN | Bug     | In Progress | Normal   | OsmoSGSN doesn't provide unique IDTAG_SERNR in IPA CCM                              | osmith   | 04/09/2019 11:22 AM | Related to #3356,Related to #3356,Related to #3644                                   |
| 2958 | OsmoSGSN | Bug     | Stalled     | Normal   | OsmoSGSN doesn't authenticate on second/further ATTACH REQUEST                      |          | 01/08/2020 10:49 PM | Related to #2958,Related to #4221  |
| 2960 | OsmoSGSN | Bug     | New         | Normal   | OsmoSGSN confirms PDP CTX ACT to MS/Gb despite missing conditional IEs on GTP       |          | 01/08/2020 10:48 PM |  |
| 2951 | OsmoSGSN | Bug     | Feedback    | Normal   | OsmoSGSN Accepts two MO L3 Messages with N(U) set to zero                           | osmith   | 09/11/2019 12:24 PM |  |
| 5853 | OsmoSGSN | Feature | New         | Normal   | osmo-sgsn: Rework to use libosmo-gprs   |          | 01/11/2023 03:14 PM |  |
| 5852 | OsmoSGSN | Bug     | New         | Normal   | osmo-sgsn: Keep TLLI<->NSEI+BVCI relation knowledge in BSSGP layer                  |          | 01/11/2023 03:08 PM |  |
| 3403 | OsmoSGSN | Bug     | New         | Normal   | osmo-sgsn doesn not connect properly with via SCCP when restarted                   | lynxis   | 02/07/2021 12:57 PM | Related to #3403   |
| 5398 | OsmoSGSN | Bug     | New         | Normal   | Null pointer access at "uectx" in ranap_iu_tx                                       | pespin   | 01/10/2022 01:14 PM |  |
| 2953 | OsmoSGSN | Bug     | New         | Normal   | No timeout waiting for UpdateLocation Response on GSUP                              |          | 01/08/2020 10:47 PM | Related to #2952   |
| 2957 | OsmoSGSN | Bug     | New         | Normal   | No timeout during GSUP PURGE MS to HLR  |          | 01/08/2020 10:47 PM |  |
| 2962 | OsmoSGSN | Bug     | New         | Normal   | Missing TTCN-3 test cases   |          | 01/08/2020 10:47 PM |  |
| 4604 | OsmoSGSN | Bug     | New         | Normal   | Lots of "Unusual event"   | lynxis   | 06/13/2020 06:19 PM | Related to #4604,Related to #4604,Related to #4604,Related to #4604                  |
| 5509 | OsmoSGSN | Bug     | New         | Normal   | llc/pdu lifetime: add vty config option to define default lifetime                  |          | 03/31/2022 04:11 PM |  |

| #    | Project  | Tracker | Status      | Priority | Subject  | Assignee | Updated             | Related issues                                     |
|------|----------|---------|-------------|----------|--|----------|---------------------|--|
| 1655 | OsmoSGSN | Feature | Stalled     | Normal   | KPIs for OsmoSGSN  |          | 01/08/2020 10:49 PM | Related to #1652,Related to #1655,Related to #1655 |
| 1818 | OsmoSGSN | Bug     | New         | Normal   | luPS: CN should lu Release in certain situations   |          | 01/08/2020 10:47 PM | Related to #1818,Related to #3302,Related to #3908 |
| 3937 | OsmoSGSN | Bug     | In Progress | Normal   | lu: verify handling of GMM Service Request (data)when no PDP Context present.            |          | 05/21/2019 10:28 AM | Related to #3937                                   |
| 3923 | OsmoSGSN | Bug     | New         | Normal   | lu: Respond to SecurityCommandReject messages  |          | 04/24/2019 08:26 AM | Related to #3923                                   |
| 3936 | OsmoSGSN | Bug     | New         | Normal   | lu: first GMM Service Request does not find a MM ctx                                     |          | 05/07/2019 01:37 PM | Related to #3936                                   |
| 3696 | OsmoSGSN | Bug     | New         | Normal   | Intermittent Connection Drop   |          | 01/08/2020 10:48 PM |  |
| 1588 | OsmoSGSN | Feature | New         | Normal   | Inter-RAT hand-over  |          | 02/23/2016 03:46 PM |  |
| 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 |
| 4601 | OsmoSGSN | Bug     | Feedback    | Normal   | gmm_fsm{Registered.SUSPENDED}: Event E_GMM_COMMON_PROC_INIT_REQ not permitted            | lynxis   | 06/08/2020 06:11 PM | Related to #4604                                   |
| 4600 | OsmoSGSN | Bug     | Feedback    | Normal   | gmm_fsm{CommonProcedureInitiated}: Event E_GMM_COMMON_PROC_INIT_REQ not permitted        | lynxis   | 06/08/2020 06:08 PM | Related to #4604                                   |
| 1942 | OsmoSGSN | Bug     | Feedback    | Normal   | Gb: implement paging in case of MM state == STANDBY && rx DL PDU                         |          | 01/08/2020 10:48 PM | Related to #1942,Related to #4222                  |
| 1881 | OsmoSGSN | Bug     | In Progress | Normal   | don't send PDP CTX DEACT ACK to MS when destroying PDP ctx indepent from MS requests     |          | 01/08/2020 10:49 PM |  |
| 4599 | OsmoSGSN | Bug     | New         | Normal   | counter group sgsn:pdpcx already exists for index X, instead using Y                     |          | 09/09/2020 10:05 AM | Related to #4604                                   |
| 5851 | OsmoSGSN | Bug     | New         | Normal   | check if rate ctr GMM_CTR_PKTS_UDATA_IN is correct increased in sgsn_gtp_data_req() func |          | 01/10/2023 06:40 PM |  |
| 5031 | OsmoSDR  | Bug     | New         | Normal   | Please switch to gr-funcube  |          | 06/17/2021 09:23 AM |  |
| 5047 | OsmoSDR  | Feature | New         | Normal   | Inconsistencies between SDR's in bias-tee parameter                                      |          | 12/19/2021 01:17 PM |  |
| 5117 | OsmoSDR  | Bug     | New         | Normal   | Error building gr-osmosdr with libhackrf   |          | 04/15/2021 07:56 AM |  |
| 4869 | OsmoPCU  | Bug     | New         | Normal   | wireshark: Support dissecting LLC frames on top of RLCMAC (E)GPRS data blocks            |          | 06/26/2023 11:03 AM | Related to #5367                                   |
| 5834 | OsmoPCU  | Feature | New         | Normal   | VTY option "two-phase-access" is misleading  |          | 12/19/2022 06:55 PM |  |
| 5696 | OsmoPCU  | Bug     | Stalled     | Normal   | RLC/MAC: poll timeout when assigning a multi-slot DL TBF                                 | fixeria  | 10/05/2022 11:01 AM |  |
| 1554 | OsmoPCU  | Feature | New         | Normal   | per-MS BSSGP flow control  |          | 02/23/2016 03:12 PM | Related to #1554                                   |

| #    | Project | Tracker | Status   | Priority | Subject  | Assignee | Updated             | Related issues   |
|------|---------|---------|----------|----------|--|----------|---------------------|--|
| 6150 | OsmoPCU | Feature | New      | Normal   | PCUIF: Use unique identifiers instead of the TLLI as msg_id.   | dexter   | 10/24/2023 03:15 PM |  |
| 5844 | OsmoPCU | Bug     | New      | Normal   | pcu: ns: ip-sns: 2 local binds with a single remote is invalid   |          | 12/22/2022 09:59 PM |  |
| 4856 | OsmoPCU | Bug     | Feedback | Normal   | PCU is running but has no NS connection and does not retry.  | keith    | 10/18/2021 10:02 AM |  |
| 1524 | OsmoPCU | Bug     | Feedback | Normal   | PACCH on the wrong timeslot  | roh      | 10/19/2021 11:50 AM | Related to #1524,Related to #1524,Related to #1524,Related to #2709,Related to #1524,Related to #1524,Related to #3014 |
| 5300 | OsmoPCU | Bug     | New      | Normal   | osmo-pcu: SUSPEND-NACK not implemented   |          | 03/31/2022 02:59 PM |  |
| 5309 | OsmoPCU | Bug     | New      | Normal   | osmo-pcu: Support rejecting multiple TBFs upon tx of Packet Access Reject  | pespin   | 11/15/2021 06:29 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 |  |
| 4947 | OsmoPCU | Bug     | Stalled  | Normal   | osmo-pcu: Handling for Pkt Resource Req using Global TFI not implemented   | pespin   | 12/22/2022 01:04 PM |  |
| 4966 | OsmoPCU | Bug     | New      | Normal   | osmo-pcu: gprs+egprs multiplex: Allow selecting original 8-PSK dl block during retransmission for GMSK-required DL block |          | 01/26/2021 01:07 PM | Related to #4966   |
| 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 |  |
| 5227 | OsmoPCU | Bug     | New      | Normal   | osmo-pcu: Attempt recovery of TBF when one of its assigned PDCH TS becomes disabled                                      | pespin   | 10/18/2021 10:12 AM |  |
| 6118 | OsmoPCU | Bug     | New      | Normal   | osmo-pcu assigns multi-slot TBFs over PACCH to MS with unknown ms_class  | pespin   | 09/22/2023 02:33 PM |  |
| 6015 | OsmoPCU | Bug     | New      | Normal   | osmo-pcu (with ericsson RBS) is unable to keep TRAU frames in sync   | dexter   | 12/23/2023 01:12 AM |  |
| 4845 | OsmoPCU | Bug     | Feedback | Normal   | only send content resolution if it's needed  | lynxis   | 07/28/2023 02:45 PM |  |
| 1838 | OsmoPCU | Bug     | Stalled  | Normal   | Nokia E52 doest reply to PUAN message properly   |          | 10/29/2017 06:47 PM |  |
| 3929 | OsmoPCU | Bug     | New      | Normal   | Missing PCU_Tests.ttcn link adaptation tests   | pespin   | 06/17/2020 08:32 AM | Related to #3929   |
| 4452 | OsmoPCU | Bug     | Stalled  | Normal   | manual testing of osmo-pcu   |          | 07/28/2023 02:48 PM |  |
| 1543 | OsmoPCU | Feature | New      | Normal   | link/rate adaption as per spec   |          | 01/08/2020 10:43 PM | Related to #1543,Related to #1543  |
| 4018 | OsmoPCU | Bug     | New      | Normal   | investigate ordering of includes paths   |          | 05/23/2019 10:59 AM |  |
| 2383 | OsmoPCU | Bug     | New      | Normal   | incompatibility with some SGSNs during P-TMSI allocation   | laforge  | 07/04/2018 12:50 PM |  |
| 4019 | OsmoPCU | Bug     | New      | Normal   | implement a command to show all informations from the bts  |          | 11/25/2020 07:33 PM |  |

| #    | 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  |
| 3284 | OsmoPCU  | Bug     | New      | Normal   | GPRS cell re-selection appears sticky in packet transfer / packet idle mode |          | 01/08/2020 10:45 PM | Related to #2400,Related to #3284  |
| 4847 | OsmoPCU  | Bug     | New      | Normal   | fix LLC-DISCARD behaviour   |          | 11/04/2020 02:37 AM | Related to #4847   |
| 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 |  |
| 4844 | OsmoPCU  | Bug     | Feedback | Normal   | do not resent DL assignment on RACH   | lynxis   | 07/28/2023 02:44 PM |  |
| 3285 | OsmoPCU  | Feature | New      | Normal   | design + implement tools to analyze inter-PCU cell changes                  | daniel   | 02/06/2021 11:12 AM | Related to #3284   |
| 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                      |
| 4867 | OsmoPCU  | Bug     | Stalled  | Normal   | Cinterion BGS2T failing to attach (no Attach Complete ever sent)            | pespin   | 11/30/2020 09:48 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   |
| 4846 | OsmoPCU  | Feature | New      | Normal   | change RBB received block bitmap into 1s when everything was acked          |          | 11/04/2020 02:29 AM |  |
| 1550 | OsmoPCU  | Bug     | New      | Normal   | Cell reselection under network control                                      |          | 02/23/2016 03:06 PM |  |
| 1624 | OsmoPCU  | Bug     | New      | Normal   | add CRBB support to write_packet_ack_nack_desc_egprs                        |          | 10/20/2020 08:37 AM |  |
| 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 |
| 38   | OsmoNITB | Bug     | New      | Normal   | subscr_update should sync database before dispatching the signal            |          | 03/05/2018 07:34 PM |  |
| 2414 | OsmoNITB | Bug     | New      | Normal   | SMSC: deliverSM message with no user_message_reference                      |          | 08/15/2017 05:53 PM | Related to #2413,Related to #2414  |
| 37   | OsmoNITB | Bug     | New      | Normal   | RTP Proxy dealing with SSRC change and sequence numbers                     |          | 03/05/2018 07:34 PM |  |
| 1812 | OsmoNITB | Feature | New      | Normal   | Report gsm0408_dispatch() failures to MS / UE                               |          | 01/08/2020 10:56 PM |  |
| 48   | OsmoNITB | Bug     | New      | Normal   | Periodic timer and paging   |          | 03/05/2018 07:34 PM |  |
| 54   | OsmoNITB | Bug     | New      | Normal   | osmo-nitb keeps rtp-proxy socket open in case no DLCX_IND is sent           |          | 03/05/2018 07:34 PM |  |
| 2691 | OsmoNITB | Bug     | Feedback | Normal   | Old TMSI paged after LU   |          | 05/17/2018 11:47 AM |  |
| 2438 | OsmoNITB | Bug     | New      | Normal   | MS not registered from osmocom PoV, but registered from ofono PoV           |          | 08/14/2017 09:36 AM |  |
| 1955 | OsmoNITB | Bug     | New      | Normal   | Investigate "Bad signalling message" error                                  |          | 03/05/2018 07:33 PM |  |

| #    | Project  | Tracker | Status      | Priority | Subject  | Assignee | Updated             | Related issues                    |
|------|----------|---------|-------------|----------|--|----------|---------------------|-----------------------------------|
| 1667 | OsmoNITB | Feature | New         | Normal   | Handle callref better  |          | 09/04/2019 09:31 AM | Related to #3294                  |
| 1904 | OsmoNITB | Bug     | New         | Normal   | get rid of deprecated functions  |          | 03/05/2018 07:33 PM |                                   |
| 1829 | OsmoNITB | Bug     | New         | Normal   | Fix warnings introduced by ctrl constify   |          | 03/05/2018 07:34 PM |                                   |
| 4784 | OsmoMSC  | Bug     | New         | Normal   | wrong cause code (resources unavailable) in MO-to-MT call without response             | neels    | 10/08/2020 02:35 PM |                                   |
| 4200 | OsmoMSC  | Feature | In Progress | Normal   | Work around nano3G-S16 requiring RAB ID to be below 16                                 | efistokl | 09/14/2019 09:48 AM |                                   |
| 4451 | OsmoMSC  | Bug     | New         | Normal   | vty 'show stats level': different stats levels yield identical results                 |          | 03/09/2020 10:10 PM |                                   |
| 5196 | OsmoMSC  | Bug     | New         | Normal   | Verify several "event not permitted" log lines in unit tests                           | neels    | 08/23/2022 04:08 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                  |
| 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 |                                   |
| 6427 | OsmoMSC  | Bug     | New         | Normal   | ttn3-msc-test: TC_mo_usd_for_unknown_trans fails sporadically                          |          | 04/02/2024 03:01 PM | Related to #6427                  |
| 6426 | OsmoMSC  | Bug     | Feedback    | Normal   | ttn3-msc-test: TC_mm_id_resp_no_identity fails sporadically                            | fixeria  | 04/03/2024 06:49 PM | Related to #6426,Related to #6427 |
| 5340 | OsmoMSC  | Bug     | New         | Normal   | ttn3-msc-test: more memory leaks   | fixeria  | 05/15/2022 04:47 PM |                                   |
| 4240 | OsmoMSC  | Bug     | In Progress | Normal   | test: incoming call when already Paging  |          | 11/27/2019 11:09 PM |                                   |
| 4612 | OsmoMSC  | Support | New         | Normal   | test handover on non-voice call conn (no CC transaction present)                       |          | 06/14/2020 12:21 PM |                                   |
| 3110 | OsmoMSC  | Bug     | New         | Normal   | Test and possibly fix ID Request after Auth failure                                    | neels    | 09/30/2018 11:36 AM |                                   |
| 4717 | OsmoMSC  | Feature | New         | Normal   | support Handover with changing codec   |          | 08/18/2020 05:14 PM | Related to #4717                  |
| 3445 | OsmoMSC  | Feature | Stalled     | Normal   | SS/USSD: clean up the local GSM 04.80 API  |          | 12/14/2018 01:57 PM |                                   |
| 4374 | OsmoMSC  | Feature | New         | Normal   | send GSUP PurgeMS Request (CN-Domain = CS) to the HLR upon IMSI-Detach                 |          | 01/23/2020 03:19 AM |                                   |
| 2390 | OsmoMSC  | Feature | New         | Normal   | re-add osmocomb 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 |                                   |
| 2788 | OsmoMSC  | Feature | New         | Normal   | OsmoMSC should handle CM Service Abort message   | neels    | 01/04/2018 10:37 AM |                                   |
| 2877 | OsmoMSC  | Bug     | New         | Normal   | OsmoMSC fails on bearer capability without octet 3a                                    | osmith   | 07/18/2019 05:45 AM |                                   |
| 2895 | OsmoMSC  | Bug     | New         | Normal   | OsmoMSC excessively uses LU Reject Cause 22 (congestion)                               | osmith   | 07/18/2019 05:41 AM |                                   |
| 2928 | OsmoMSC  | Bug     | New         | Normal   | OsmoMSC doesn't do BSSMAP ASSIGNMENT if no MNCC_RTP_CREATE is received                 |          | 02/11/2018 05:38 PM |                                   |
| 2872 | OsmoMSC  | Bug     | Feedback    | Normal   | OsmoMSC doesn't check if CIPHER MODE COMPLETE contains cipher that matches REQUEST     | neels    | 07/29/2019 01:15 PM |                                   |
| 4337 | OsmoMSC  | Bug     | New         | Normal   | osmo-msc: Don't send LU-Reject after LU-Accept if no TMSI Realloc Complete is received |          | 01/07/2021 06:22 PM | Related to #4337                  |
| 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 |                                   |



| #    | Project | Tracker | Status      | Priority | Subject   | Assignee | Updated             | Related issues   |
|------|---------|---------|-------------|----------|---|----------|---------------------|--|
| 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   |
| 3829 | OsmoMSC | Bug     | New         | Normal   | osmo-msc expects aoip TLV in Assignment Complete messages from BSC  |          | 03/07/2019 08:30 PM |  |
| 4721 | OsmoMSC | Bug     | In Progress | Normal   | osmo-msc creates evil-twin entries in the VLR when an already attached IMSI does a LU by an unknown TMSI (was: MSC_Tests.TC_lu_by_tmsi_noauth_unknown fails sporadically locally) | neels    | 03/26/2024 03:02 AM | Related to #4721   |
| 6009 | OsmoMSC | Bug     | New         | Normal   | omo-msc: lots of tlv_parse() calls in src/libmsc/gsm_04_08.c have no return code checked for errors   |          | 04/19/2023 03:19 PM |  |
| 41   | OsmoMSC | Bug     | New         | Normal   | Numbering Plan in OsmoMSC   |          | 06/23/2018 07:37 PM |  |
| 4557 | OsmoMSC | Bug     | New         | Normal   | normal BSSMAP Clear Command from MSC contains cause == 0 meaning "Radio interface message failure"  |          | 05/20/2020 07:17 PM |  |
| 5197 | OsmoMSC | Bug     | New         | Normal   | msc_i Unimplemented msg type: HANDOVER PERFORMED  | neels    | 08/23/2022 04:05 PM |  |
| 2487 | OsmoMSC | Feature | Stalled     | Normal   | MSC side of LCLS (local call local switching) as per the 3GPP specs   | keith    | 10/17/2022 04:31 AM | Related to #1602, Related to #3659, Related to #3691, Related to #3618, Related to #3294, Related to #5712, Blocks #2487 |
| 4017 | OsmoMSC | Bug     | New         | Normal   | MSC fails to handle calls   |          | 05/29/2019 04:56 PM |  |
| 2846 | OsmoMSC | Bug     | New         | Normal   | MSC doesn't close SCCP/BSSAP connection on CM SERV REQ tht cannot be parsed   | osmith   | 07/18/2019 05:44 AM |  |
| 5699 | OsmoMSC | Bug     | New         | Normal   | MNCC_RTP_CREATE is not sent in a call waiting scenario  |          | 10/10/2022 06:46 PM |  |
| 4972 | OsmoMSC | Bug     | New         | Normal   | manual: the MNCC protocol is outdated (RTP)   |          | 01/24/2021 05:58 PM |  |
| 4764 | OsmoMSC | Bug     | New         | Normal   | make sure Assignment times out, always  |          | 09/23/2020 02:08 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  |
| 3992 | OsmoMSC | Bug     | New         | Normal   | inter-MSC handover for signalling-only?   |          | 05/09/2019 11:39 AM |  |
| 6330 | OsmoMSC | Bug     | New         | Normal   | Incorrect handling of V.120 data calls  |          | 01/18/2024 03:02 PM | Related to #6344   |
| 5780 | OsmoMSC | Feature | New         | Normal   | Implement/Support UUS1  |          | 01/24/2023 10:48 AM |  |
| 3620 | OsmoMSC | Feature | Stalled     | Normal   | Implement TTCN-3 testsuite for Inter-MSC HO   | neels    | 09/04/2019 09:08 AM |  |
| 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   |
| 2795 | OsmoMSC | Feature | New         | Normal   | Handle UTRAN_CLSM_CHG in MSC  | neels    | 04/30/2018 12:06 PM | Related to #3043   |
| 3880 | OsmoMSC | Bug     | New         | Normal   | GSUP MT-ForwardSM Message Reference - wrong value in a response   |          | 04/01/2019 07:47 AM |  |

| #    | Project | Tracker | Status      | Priority | Subject   | Assignee | Updated             | Related issues  |
|------|---------|---------|-------------|----------|---|----------|---------------------|---|
| 2883 | OsmoMSC | Bug     | New         | Normal   | GSUP encoding of MSISDN is wrong  |          | 10/20/2020 08:41 AM | Related to #4324,Related to #4333                                   |
| 4660 | OsmoMSC | Bug     | New         | Normal   | GSM AUTH failure: mismatching sres - with module TRM-5 ext                              |          | 07/12/2020 08:01 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 |
| 3687 | OsmoMSC | Feature | New         | Normal   | Expand "show bsc" command   |          | 11/11/2018 09:50 PM |   |
| 4167 | OsmoMSC | Bug     | Feedback    | Normal   | Event VLR_ULA_E_ID_IMEISV not permitted   | osmith   | 09/04/2019 08:13 PM |   |
| 2943 | OsmoMSC | Bug     | New         | Normal   | Errors in MGCP do not propagate back to MNCC<br>gsm_subscriber_conn state machine       |          | 09/04/2019 09:21 AM |   |
| 3636 | OsmoMSC | Feature | New         | Normal   | detailed call statistics (with rate counters)   | osmith   | 10/08/2018 11:14 AM | Related to #3636  |
| 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  |
| 3738 | OsmoMSC | Feature | New         | Normal   | Clarify PS-part of struct vlr_subscr  |          | 12/19/2018 12:34 PM |   |
| 4196 | OsmoMSC | Feature | New         | Normal   | CC Setup, Call Confirmed: decode and use the Supported Codec List IE                    |          | 09/25/2019 05:27 PM |   |
| 5403 | OsmoMSC | Feature | New         | Normal   | Can't connect Call from 2G to 4G network  | laforge  | 01/14/2022 10:41 PM |   |
| 3735 | OsmoMSC | Bug     | Stalled     | Normal   | call arriving during another call has no voice  | neels    | 06/18/2019 09:18 PM |   |
| 6152 | OsmoMSC | Bug     | In Progress | Normal   | built-in MNCC: forward the @Low layer compatibility I@ IE to the called subscriber      | jolly    | 12/20/2023 12:52 PM | Related to #6152  |
| 6217 | OsmoMSC | Bug     | Feedback    | Normal   | Bearer Capability mismatch in MT SETUP  | neels    | 10/10/2023 10:17 PM |   |
| 2916 | OsmoMSC | Bug     | New         | Normal   | asan failure on debian unstable in msc_vlr_test_gsm_ciph                                |          | 02/09/2018 04:20 PM |   |
| 6000 | OsmoMSC | Feature | New         | Normal   | Allow emergency calls without IMSI (using IMEI as MI)                                   |          | 04/12/2023 11:03 AM | Related to #6000  |
| 2851 | OsmoMSC | Bug     | Stalled     | Normal   | a_iface.c:534 Unhandled SIGTRAN primitive: 3:2  |          | 07/18/2019 05:45 AM |   |
| 3731 | OsmoMGW | Bug     | New         | Normal   | TTCN3 TC_rtpem_selftest randomly fails  |          | 01/08/2020 10:18 PM |   |
| 4005 | OsmoMGW | Bug     | Stalled     | Normal   | TTCN3 crashes when receiving an RTP MGCP_DUMMY_LOAD from osmo-mgw during CRCX           | dexter   | 06/14/2021 08:31 AM | Related to #4005  |
| 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 |   |
| 5279 | OsmoMGW | Feature | New         | Normal   | systemd service / unit for multiple osmo-mgw on one machine                             | osmith   | 10/25/2021 11:41 AM |   |
| 3849 | OsmoMGW | Bug     | New         | Normal   | race condition problem in rtp flow tests of the ttcn3 testsuite                         |          | 09/04/2019 09:26 AM |   |
| 4092 | OsmoMGW | Feature | New         | Normal   | Osmux: Support dynamic allocation of osmux sockets                                      | pespin   | 08/10/2022 07:50 AM | Related to #4092  |
| 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                  |

| #    | Project    | Tracker | Status      | Priority | Subject   | Assignee  | Updated             | Related issues                                 |
|------|------------|---------|-------------|----------|---|-----------|---------------------|--|
| 5214 | OsmoMGW    | Feature | In Progress | Normal   | osmo-mgw multithreading   | Hoernchen | 08/31/2021 09:20 AM |  |
| 6293 | OsmoMGW    | Bug     | New         | Normal   | osmo-mgw "decides" for a codec during MGCP handling; instead it should handle all configured payload type numbers as they arrive in RTP           |           | 12/07/2023 05:52 AM | Related to #6293,Related to #6293,Blocks #6136 |
| 6387 | OsmoMGW    | Feature | In Progress | Normal   | osmo_io / io_uring support for RTP/RTCP   | laforge   | 03/26/2024 06:45 PM | Related to #6387                               |
| 6297 | OsmoMGW    | Bug     | New         | Normal   | octet-align=0 is the RFC 6871 specified default to use when omitted; but osmo-mgw assumes don't-care when omitted                                 |           | 12/12/2023 02:12 AM | Is duplicate of #5726                          |
| 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                               |
| 5313 | OsmoMGW    | Bug     | New         | Normal   | libosmo-mgcp-client-dbg specific package not generated for debian   |           | 11/16/2021 03:57 PM |  |
| 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 |
| 4552 | OsmoMGW    | Bug     | New         | Normal   | ip-probing issue with BTS connection - no rebinding to a correct IP address   |           | 05/14/2020 11:18 PM |  |
| 2650 | OsmoMGW    | Bug     | New         | Normal   | how can osmo-mgw send a dummy RTP packet before CRCX ACK?   |           | 06/08/2020 07:08 PM | Related to #4005                               |
| 4432 | OsmoMGW    | Bug     | New         | Normal   | for 'domain *', mgw should echo the domain of the MGCP client   |           | 03/04/2020 12:39 AM |  |
| 3442 | OsmoMGW    | Bug     | New         | Normal   | fix int mgcp_codec_decide() in mgcp_codec.c   |           | 09/04/2019 09:26 AM |  |
| 4551 | OsmoMGW    | Feature | New         | Normal   | Dynamic/runtime allocation of new endpoints   |           | 05/14/2020 10:56 PM |  |
| 6196 | OsmoMGW    | Bug     | New         | Normal   | Codec negotiation failure false positives   | dexter    | 12/07/2023 06:25 AM | Related to #6293                               |
| 3980 | OsmoMGW    | Bug     | New         | Normal   | Clear Command before CRCX OK may leak MGW endpoint  |           | 05/06/2019 10:11 PM |  |
| 4554 | OsmoMGW    | Bug     | New         | Normal   | Clean up stale endpoints after OsmoBSC crash  |           | 05/16/2020 08:52 PM |  |
| 5726 | OsmoMGW    | Bug     | New         | Normal   | AMR octet-align in SDP: lack of 'octet-align' fntp should imply octet-align=0, and the presence or absence of this fntp should not have an effect |           | 12/12/2023 01:51 AM | Is duplicate of #5726                          |
| 4153 | OsmoMGW    | Bug     | New         | Normal   | 3G voice broken with ALu 9361 femto   |           | 04/25/2022 05:43 PM |  |
| 4447 | OsmoMGW    | Bug     | New         | Normal   | DSCP value should be a 6 bit field  | osmith    | 03/09/2020 04:50 PM | Related to #4447                               |
| 6153 | OsmoHNodeB | Support | Feedback    | Normal   | List of supported FemtoCell   | Kira      | 08/28/2023 02:24 PM |  |
| 6380 | OsmoHNBGW  | Bug     | New         | Normal   | VTY transcript tests are broken [again]   |           | 02/28/2024 06:57 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 |  |
| 4158 | OsmoHNBGW  | Bug     | New         | Normal   | segfault when paging, in a situation with duplicate CID in hnb register requests  |           | 05/13/2021 12:01 PM | Related to #4162                               |
| 5837 | OsmoHNBGW  | Bug     | New         | Normal   | osmo-juh: UE-REGISTER-REQ with uE_Identity type IMEI not implemented.   |           | 12/20/2022 03:43 PM |  |
| 5573 | OsmoHNBGW  | Bug     | New         | Normal   | osmo-hnbgw: RANAP LocationReportingControl not implemented  |           | 05/30/2022 02:05 PM |  |

| #    | Project       | Tracker | Status      | Priority | Subject  | Assignee | Updated             | Related issues                    |
|------|---------------|---------|-------------|----------|--|----------|---------------------|-----------------------------------|
| 5869 | OsmoHNBGW     | Bug     | New         | Normal   | osmo-hnbgw ignores HNBAP HNB De-Register   |          | 01/21/2023 01:52 AM |                                   |
| 3820 | OsmoHNBGW     | Bug     | New         | Normal   | osmo-hnbgw does not properly do RANAP RESET and RESET ACK on the link towards MSC and SGSN   |          | 05/13/2021 12:01 PM | Related to #3944                  |
| 5876 | OsmoHNBGW     | Bug     | New         | Normal   | on HNBAP HNB Register, clear previous UE state if any  | neels    | 03/20/2023 01:27 PM |                                   |
| 4926 | OsmoHNBGW     | Bug     | New         | Normal   | nano3G disconnect / reconnect cycle with SCTP multi-homing   |          | 01/04/2021 11:38 AM | Related to #4926                  |
| 6137 | OsmoHNBGW     | Feature | New         | Normal   | ip.access Nano3G   | lynxis   | 10/21/2023 07:24 PM |                                   |
| 6158 | OsmoHNBGW     | Bug     | New         | Normal   | IMSI not shown in "show ue all"  | lynxis   | 08/29/2023 03:11 PM |                                   |
| 1997 | OsmoHNBGW     | Feature | New         | Normal   | Improve error check at compilation time  |          | 10/21/2021 04:28 PM |                                   |
| 5867 | OsmoHNBGW     | Feature | New         | Normal   | HNBGW_Tests.ttcn should do HNBAP UE Register and De-Register tests   |          | 01/21/2023 02:30 AM |                                   |
| 5230 | OsmoHNBGW     | Bug     | In Progress | Normal   | hnbgw fails to connect to the sgsn   | lynxis   | 10/14/2021 07:50 AM |                                   |
| 5904 | OsmoHNBGW     | Feature | New         | Normal   | HNBAP Register Request handling does checks that seem to make no sense   | neels    | 09/01/2023 05:00 AM |                                   |
| 6433 | OsmoHNBGW     | Bug     | New         | Normal   | DLGLOBAL ERROR counter group 'hnb' already exists for index 0, instead using index 1. This is a software bug that needs fixing. (rate_ctr.c:221) |          | 04/04/2024 11:11 PM |                                   |
| 6283 | OsmoHNBGW     | Bug     | New         | Normal   | cnpool: hnbgw fails to extract Mobile Identity from some GMM Attach Request messages   |          | 12/04/2023 01:48 AM |                                   |
| 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 |
| 6431 | OsmoHNBGW     | Bug     | New         | Normal   | (coverity) uninitialized asn.1 state / overwriting asn.1 state in HNBAP  | neels    | 04/04/2024 11:08 PM |                                   |
| 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 |
| 4565 | OsmoHLR       | Bug     | New         | Normal   | TTCN-3 testsuite: mDNS_UDP: maximum number of open file descriptors is greater than FD_SETSIZE   | fixeria  | 06/17/2020 09:28 AM |                                   |
| 4163 | OsmoHLR       | Bug     | New         | Normal   | Subscriber on demand: "Error while deleting subscriber data for IMSI" after changing network access mode from cs+ps back to none                 | osmith   | 08/22/2019 01:41 PM |                                   |
| 5889 | OsmoHLR       | Bug     | In Progress | Normal   | subscriber data: send out correct PDP Info   | lynxis   | 09/01/2023 04:20 PM |                                   |
| 6312 | OsmoHLR       | Bug     | New         | Normal   | Querying HLR for MSISDN-to-IMSI mapping is too cumbersome and inefficient  |          | 12/21/2023 06:52 AM | Related to #6312                  |
| 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 |
| 2318 | OsmoGSMTester | Feature | New         | Normal   | testing sysmobts: skip copying of binaries when the same are already installed   |          | 06/07/2017 03:55 PM |                                   |

| #    | Project       | Tracker | Status      | Priority | Subject   | Assignee | Updated             | Related issues   |
|------|---------------|---------|-------------|----------|---|----------|---------------------|--|
| 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   |
| 2197 | OsmoGSMTester | Feature | Stalled     | Normal   | osmo-gsm-tester: use MNCC interface   |          | 11/30/2017 10:41 AM | Related to #2194,Is duplicate of #2197                                   |
| 4151 | OsmoGSMTester | Bug     | Stalled     | Normal   | osmo-gsm-tester: osmo-trx-lms process sometimes kept forever in zombie-alike state after killing it |          | 09/30/2020 08:08 PM | Related to #4151   |
| 2230 | OsmoGSMTester | Feature | New         | Normal   | osmo-gsm-tester: arfcn as resource  |          | 12/14/2017 04:08 PM | Related to #2230   |
| 2374 | OsmoGSMTester | Feature | New         | Normal   | osmo-gsm-tester: add test case: sms between MS with delivery report                                 |          | 08/10/2017 04:37 PM |  |
| 2311 | OsmoGSMTester | Feature | New         | Normal   | osmo-gsm-tester: add test case: smpp: smpp_first feature  |          | 05/31/2017 04:21 PM |  |
| 2313 | OsmoGSMTester | Feature | New         | Normal   | osmo-gsm-tester: add test case: smpp: imsi extension  |          | 05/31/2017 04:27 PM |  |
| 2314 | OsmoGSMTester | Feature | New         | Normal   | osmo-gsm-tester: add test case: smpp: correct ESME routing  |          | 05/31/2017 04:29 PM |  |
| 2431 | OsmoGSMTester | Bug     | New         | Normal   | osmo-gsm-tester: add test case: MS sends SMS to ESME  |          | 08/10/2017 03:47 PM |  |
| 2646 | OsmoGSMTester | Feature | New         | Normal   | osmo-gsm-tester: Add osmo-sip-connector support   |          | 04/23/2018 10:40 AM |  |
| 2861 | OsmoGSMTester | Feature | New         | Normal   | osmo-gsm-tester: Add 3g support for sysmocell-5k  |          | 12/02/2019 01:36 PM | Related to #2860   |
| 6149 | OsmoGSMTester | Bug     | New         | Normal   | osmo-gsm-tester Gerrit verifications currently broken, not running in docker                        | osmith   | 08/25/2023 09:13 AM |  |
| 6126 | OsmoGSMTester | Bug     | New         | Normal   | osmo-gsm-tester docker container uses debian 10   |          | 08/01/2023 09:49 AM | Related to #6126   |
| 3917 | OsmoGSMTester | Bug     | New         | Normal   | ofono: update debian packages to match our dependencies   |          | 04/06/2020 11:30 AM |  |
| 2941 | OsmoGSMTester | Bug     | New         | Normal   | ofono: SierraW sometimes crashing while deactivating a context.                                     |          | 01/08/2020 10:40 PM |  |
| 3046 | OsmoGSMTester | Bug     | New         | Normal   | ofono: SierraW modem fails to power on  |          | 01/08/2020 10:41 PM |  |
| 3676 | OsmoGSMTester | Bug     | New         | Normal   | ofono: org.ofono.ConnectionManager property Bearer returning "none"                                 |          | 06/09/2020 08:39 PM |  |
| 2237 | OsmoGSMTester | Bug     | Feedback    | Normal   | ofono: Gobi modem: successful SMS delivery is evaluated as not successful                           | lynxis   | 06/07/2018 02:08 PM | Related to #2237,Related to #2237,Blocks #2237                           |
| 2238 | OsmoGSMTester | Bug     | In Progress | Normal   | ofono: Gobi modem: cannot receive SMS   |          | 01/08/2020 10:42 PM | Related to #2238   |
| 2189 | OsmoGSMTester | Bug     | New         | Normal   | ofono: EC20: cannot send SMS  | lynxis   | 11/28/2017 04:21 PM |  |
| 4542 | OsmoGSMTester | Bug     | Stalled     | Normal   | ofono: crash in drivers/qmimodem/gprs.c:extract_ss_info()   | pespin   | 07/30/2021 10:30 AM |  |
| 2713 | OsmoGSMTester | Bug     | New         | Normal   | ofono: chosen pdp type (v4, v6, dual) not strictly followed in ofono qmi                            |          | 01/08/2020 10:40 PM | Related to #2713   |
| 3560 | OsmoGSMTester | Bug     | Stalled     | Normal   | nanoBTS multiTRX tests in osmo-gsm-tester Prod setup failing  | pespin   | 09/04/2019 09:16 AM | Related to #3560,Related to #3560,Related to #3628,Is duplicate of #3475 |
| 3564 | OsmoGSMTester | Feature | New         | Normal   | Investigate ofono and modems Cell Broadcast support   |          | 01/08/2020 10:42 PM | Related to #3564   |

| #    | Project                    | Tracker | Status      | Priority | Subject  | Assignee | Updated             | Related issues                    |
|------|----------------------------|---------|-------------|----------|--|----------|---------------------|-----------------------------------|
| 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 |                                   |
| 5838 | OsmoGSMTester              | Feature | New         | Normal   | Implement power switching for all BTSs   |          | 12/20/2022 05:30 PM |                                   |
| 2621 | OsmoGSMTester              | Bug     | New         | Normal   | Gobi2000: might stopped working because all CID got assigned                               |          | 01/08/2020 10:40 PM |                                   |
| 3931 | OsmoGSMTester              | Support | New         | Normal   | Contact quectel to get info about modem updates (hopefully less crashes)                   |          | 01/08/2020 10:56 PM | Related to #3931                  |
| 2504 | OsmoGSMTester              | Support | New         | Normal   | check whether running osmo-* from docker images is feasible on osmo-gsm-tester             |          | 04/06/2020 11:28 AM |                                   |
| 2399 | OsmoGSMTester              | Feature | New         | Normal   | add tests for graceful restart of individual components                                    |          | 07/25/2017 12:02 AM |                                   |
| 2707 | OsmoGSMTester              | Feature | New         | Normal   | Add support for verifying content of log files after test is run                           |          | 12/04/2017 05:05 PM |                                   |
| 2615 | OsmoGSMTester              | Bug     | New         | Normal   | Add API to check GPS lock in BTS   |          | 11/03/2017 05:00 PM |                                   |
| 5839 | OsmoGSMTester              | Feature | New         | Normal   | Ability to switch off the osmo-trx machine   | pespin   | 12/20/2022 05:43 PM |                                   |
| 4749 | OsmoGGSN (former OpenGGSN) | Bug     | New         | Normal   | Unknown/Unimplemented PCO Protocol   |          | 02/09/2022 01:26 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 |                                   |
| 4433 | OsmoGGSN (former OpenGGSN) | Feature | New         | Normal   | sgsnemu: Add support for IPv4v6 EUAs   |          | 03/04/2020 10:44 AM |                                   |
| 5773 | OsmoGGSN (former OpenGGSN) | Bug     | New         | Normal   | OsmoGGSN sends Direct Tunnel packets to the wrong IP address                               |          | 11/17/2022 04:17 AM |                                   |
| 4172 | OsmoGGSN (former OpenGGSN) | Bug     | New         | Normal   | osmoggsn crashes when stopping   |          | 08/29/2019 11:35 AM |                                   |
| 6106 | OsmoGGSN (former OpenGGSN) | Bug     | New         | Normal   | OsmoGGSN attempts to use the same GTP-U socket for all APNs with gtpu-mode kernel-gtp      |          | 02/21/2024 10:31 AM | Related to #6106,Related to #6106 |
| 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                  |
| 5357 | OsmoGGSN (former OpenGGSN) | Bug     | New         | Normal   | no more than PDP_MAX == 1024 PDP contexts possible in libgtp                               |          | 12/14/2021 01:20 PM | Related to #5469                  |
| 4161 | OsmoGGSN (former OpenGGSN) | Bug     | New         | Normal   | Implement pdp idle timer   | pespin   | 08/20/2019 06:30 PM | Related to #4161                  |
| 4415 | OsmoGGSN (former OpenGGSN) | Feature | New         | Normal   | Document in OsmoGGSN User Manual the IPv6 allocation process over GTP                      |          | 02/25/2020 03:05 PM |                                   |
| 6254 | OsmoDia2GSUP               | Bug     | In Progress | Normal   | Reconnects of the ttn3 aren't handled  | lynxis   | 11/11/2023 05:13 PM |                                   |
| 6155 | OsmoDia2GSUP               | Bug     | Feedback    | Normal   | osmo_dia2gsup not setting Origin-State-Id Diameter AVP during Device-Watchdog-{Req,Answer} | lynxis   | 11/11/2023 06:19 PM |                                   |
| 6255 | OsmoDia2GSUP               | Bug     | New         | Normal   | Implement 3GPP Purge UE Request  |          | 11/10/2023 01:29 PM |                                   |
| 5757 | OsmoDia2GSUP               | Feature | Feedback    | Normal   | functional test suite for osmo_dia2gsup  | lynxis   | 09/06/2023 02:48 PM |                                   |

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