

## Issues

| #    | Project  | Tracker | Status      | Priority  | Subject  | Assignee  | Updated             | Related issues  |
|------|--|---------|-------------|-----------|--|-----------|---------------------|---|
| 5683 | Osmocom Libraries                              | Bug     | New         | Immediate | How to install osmocom in China  |           | 09/18/2022 10:18 AM |   |
| 3819 | gr-osmosdr                                     | Support | New         | Urgent    | OSMO SDR blocks for GNUradio   |           | 02/28/2019 06:00 PM |   |
| 4206 | Qualcomm Linux Modems by Quectel & Co          | Support | New         | Urgent    | Unbrick cpe router without web ui interface and terminal                           |           | 02/22/2021 02:01 PM |   |
| 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 |
| 5481 | Open Source IMS Client                         | Feature | New         | Urgent    | SIM card interface for doubango  | laforge   | 03/25/2022 11:00 AM | Related to #5482  |
| 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  |
| 5574 | OsmoBSCNAT                                     | Bug     | New         | Urgent    | OsmoBSCNAT testsuite running in jenkins  | Hoernchen | 10/06/2022 11:46 AM | Related to #5574  |
| 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  |
| 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     |
| 1458 | OsmocomBB                                      | Bug     | New         | High      | AGC broken (strong cell cannot be synced   | tnt       | 07/18/2019 06:10 AM | Related to #3582  |
| 1461 | OsmocomBB                                      | Feature | Stalled     | High      | include some version information / negotiation in the L1CTL protocol               | fixeria   | 10/27/2021 10:17 PM | Related to #1461,Related to #5815                                   |
| 1462 | OsmocomBB                                      | Bug     | New         | High      | ../src/utlis.c:182:7: error: only weak aliases are supported in this configuration |           | 02/21/2016 04:48 PM |   |
| 1474 | SDR (Software Defined Radio)                   | Bug     | New         | High      | USB Claim Interface Error  | steve-m   | 02/20/2016 08:23 PM |   |
| 1477 | Mobile (in)Security                            | Bug     | New         | High      | RACH flood DoS   |           | 02/21/2016 04:34 PM |   |
| 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 |   |
| 1481 | Mobile (in)Security                            | Bug     | New         | High      | Random LAPDm MAC-block padding is not deployed yet                                 |           | 02/21/2016 04:34 PM | Related to #5256,Related to #5257                                   |
| 1483 | Mobile (in)Security                            | Bug     | New         | High      | USSD state is not reset when switching cells                                       |           | 02/21/2016 04:34 PM |   |
| 1505 | UmTRX  | Bug     | New         | High      | OHM4 footprint incorrect   |           | 02/19/2016 10:52 PM |   |

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|------|--------------------|---------|-------------|----------|--|----------|---------------------|-----------------------------------|
| 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 |                                   |
| 1560 | OsmoPCU            | Feature | New         | High     | EDGE benchmarking / performance optimization / tuning                    |          | 01/08/2020 10:31 PM |                                   |
| 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 |
| 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 |
| 1766 | OsmoPCU            | Bug     | In Progress | High     | KPIs for OsmoPCU: EGPRS  |          | 01/22/2020 02:06 PM | Related to #1766,Related to #1766 |
| 1925 | OsmoPCU            | Bug     | New         | High     | Fix padding for MCS8 transition  |          | 01/08/2020 10:31 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 |
| 2155 | OP25               | Feature | New         | High     | Replace FSK4 demodulation with IQ demodulator stage.                     |          | 04/22/2017 04:16 PM |                                   |
| 2156 | OP25               | Feature | New         | High     | Implement forward error correction for HDU.                              |          | 04/22/2017 04:16 PM |                                   |
| 2157 | OP25               | Feature | New         | High     | Fix "traffic" tab so it displays data for non-HDU data units             |          | 04/22/2017 04:16 PM |                                   |
| 2158 | OP25               | Feature | New         | High     | Create a shared library for decoding for WireShark and the decoder.      |          | 04/22/2017 04:16 PM |                                   |
| 2160 | OP25               | Feature | New         | High     | Add "datascope" to usrp_p25_rx.py  |          | 04/22/2017 04:16 PM |                                   |
| 2162 | OP25               | Bug     | New         | High     | Fix bit-ordering in output for VC55.                                     |          | 04/22/2017 04:15 PM |                                   |
| 2166 | OP25               | Feature | New         | High     | Add support for Max's I/Q 455khz downconverter                           |          | 04/22/2017 04:15 PM |                                   |
| 2167 | OP25               | Feature | New         | High     | Implement Encryption/Decryption P25 blocks                               |          | 04/22/2017 04:15 PM |                                   |
| 2168 | OP25               | Bug     | New         | High     | Implement Forward error correction for LDU1/2                            |          | 04/22/2017 04:15 PM |                                   |
| 2169 | OP25               | Bug     | New         | High     | First-cut of trunking support  |          | 04/22/2017 04:15 PM |                                   |
| 2170 | OP25               | Bug     | New         | High     | Implement forward error-correction code, remove IT++ dependency          |          | 04/22/2017 04:14 PM |                                   |
| 2171 | OP25               | Feature | New         | High     | Use libfftw3 for IFFT/FFT functions.                                     |          | 04/22/2017 04:14 PM |                                   |
| 2172 | OP25               | Bug     | New         | High     | HDU often missing in captures  |          | 04/22/2017 04:14 PM |                                   |
| 2173 | OP25               | Feature | New         | High     | Remove dependency on ET++  |          | 04/22/2017 04:14 PM |                                   |
| 2175 | OP25               | Feature | New         | High     | Update code for GNURadio 3.6 and later                                   |          | 04/22/2017 04:14 PM |                                   |

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|------|---------------------------------|---------|---------|----------|---|----------|---------------------|---|
| 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  |
| 2409 | OsmocomBB                       | Feature | Stalled | High     | Add GPRS support to virt_phy and L1CTL  | fixeria  | 08/19/2022 03:06 PM |   |
| 2604 | Cellular Network Infrastructure | Feature | Stalled | High     | GSUP-to-DIAMETER converter / IWF  | laforge  | 02/29/2020 11:27 AM | Related to #5646  |
| 2622 | OsmoBSC                         | Support | Stalled | High     | Prepare automatic interop testing of OsmoBSC against NG40 core simulator + osmo-bts-virtual + mobile              |          | 09/04/2019 09:18 AM | Related to #2478,Related to #2558,Related to #2555  |
| 2623 | Cellular Network Infrastructure | Feature | New     | High     | SCCP/M3UA: detect restart of osmo-msc and osmo-sgsn   | neels    | 02/07/2021 12:55 PM | Related to #3403,Related to #4701   |
| 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 |   |
| 2955 | OsmoSGSN                        | Bug     | New     | High     | No GMM ATTACH REJECT on GSUP UpdateLocation Error   | lynxis   | 09/10/2019 07:39 PM |   |
| 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   |
| 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                                   |
| 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  |
| 3379 | SIMtrace 2                      | Bug     | Stalled | High     | documentation on how to use SIMtrace2   | laforge  | 11/14/2022 05:31 PM | Related to #3379  |
| 3399 | OsmocomBB                       | Feature | Stalled | High     | mobile: refactor / finish external MNCC handler implementation  | fixeria  | 10/04/2018 09:07 PM |   |
| 3568 | OsmoBTS                         | Bug     | Stalled | High     | CBCH on SDCCH/8 not working for osmo-bts-sysmo  | laforge  | 01/14/2019 03:29 PM |   |
| 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 |

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|------|---------------------------------|---------|-------------|----------|--|-----------|---------------------|--|
| 3717 | OsmoHLR                         | Bug     | Stalled     | High     | SS/USSD: fix SS session inactivity timeout   | fixeria   | 12/05/2018 08:45 PM |  |
| 3734 | gr-osmosdr                      | Bug     | New         | High     | Cannot compile gr-osmocom  |           | 12/16/2018 12:22 AM |  |
| 3926 | OsmoPCU                         | Bug     | Stalled     | High     | Missing PCU_Tests.ttcn DL TBF tests  | pespin    | 03/01/2021 11:06 AM |  |
| 3928 | OsmoPCU                         | Bug     | Stalled     | High     | Missing PCU_Tests.ttcn for various timers / time-outs  | pespin    | 11/15/2021 05:46 PM | Related to #5033   |
| 3977 | OsmoCBC                         | Feature | New         | High     | SABP stream delineation routines   | laforge   | 09/23/2019 04:49 AM | Related to #3979,Related to #4944  |
| 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   |
| 4107 | Cellular Network Infrastructure | Feature | In Progress | High     | Start systemd services as non-root user  | osmith    | 04/19/2024 12:36 PM | Related to #4107,Related to #4821,Related to #4107,Related to #5669,Related to #5685,Related to #5687,Related to #5722 |
| 4222 | OsmoSGSN                        | Bug     | New         | High     | Implement PS Paging for the Routing Areas  |           | 10/03/2020 02:20 PM | Related to #4222   |
| 4308 | Distributed GSM                 | Support | New         | High     | thoughts about incorporating credit / billing in D-GSM   |           | 12/04/2019 04:08 PM |  |
| 4312 | OsmoHLR                         | Bug     | New         | High     | GSUP keepalives / connection loss detection  |           | 10/12/2020 02:42 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  |
| 4522 | osmo-gbproxy                    | Feature | Stalled     | High     | gbproxy: Redundancy within proxy pair  | daniel    | 07/09/2021 06:43 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 |  |
| 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   |
| 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 |  |
| 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  |
| 4771 | OsmoBTS                         | Bug     | Stalled     | High     | Don't log NOTICE messages on missing uplink bursts   | fixeria   | 11/16/2021 03:05 PM |  |
| 4781 | osmo-qcdiag                     | Bug     | New         | High     | get hoernchen/gsmmap branch merged   | Hoernchen | 10/06/2020 03:18 PM |  |

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| 4829 | OsmocomBB              | Bug     | Stalled     | High     | OsmocomBB Rx bit errors in dedicated mode   | laforge   | 02/06/2021 09:11 AM | Related to #4832                                   |
| 4830 | OsmoMSC                | Bug     | In Progress | High     | LU reject when no authentication data in HLR but "authentication optional"                | neels     | 10/10/2022 02:03 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 |  |
| 4916 | osmo-e1d               | Bug     | Stalled     | High     | USB unplug / replug renders e1d unusable  | laforge   | 12/04/2023 12:34 PM | Related to #5983                                   |
| 4940 | OsmoBSC                | Feature | Stalled     | High     | VAMOS support in OsmoBSC  | neels     | 08/11/2021 02:47 PM | Related to #4941                                   |
| 5057 | OsmoMSC                | Bug     | New         | High     | Can only send a maximum of 15 SMPP messages?  | Hoernchen | 09/15/2021 09:53 AM |  |
| 5144 | gr-osmosdr             | Bug     | New         | High     | Support multiple Airspy devices   | horiz0n   | 10/21/2023 07:22 PM |  |
| 5256 | OsmoBTS                | Feature | New         | High     | support for random padding in LAPDm downlink messages                                     |           | 10/12/2021 11:17 AM | Related to #5256                                   |
| 5257 | OsmoBTS                | Bug     | New         | High     | support random padding in SACCH downlink messages   |           | 10/12/2021 11:18 AM | Related to #5257                                   |
| 5349 | OsmoSGSN               | Bug     | In Progress | High     | Message for non-existing SMDCP Entity   |           | 07/17/2023 04:42 PM |  |
| 5392 | OsmocomDECT            | Bug     | New         | High     | Sliding collision errors  |           | 01/09/2022 12:44 PM |  |
| 5393 | OsmocomDECT            | Bug     | New         | High     | tipc problems while building on Ubuntu  |           | 01/09/2022 12:48 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 |  |
| 5419 | SIMtrace 2             | Bug     | Stalled     | High     | cardem errors with higher baud rate   | laforge   | 11/07/2022 06:22 PM |  |
| 5425 | gr-osmosdr             | Bug     | New         | High     | Problem receiving samples using dual receivers with BladeRF                               |           | 01/29/2022 04:22 AM |  |
| 5480 | Open Source IMS Client | Feature | In Progress | High     | Linux kernel IPsec plugin for doubango  | laforge   | 03/25/2022 10:44 AM |  |
| 5516 | OsmoTRX                | Feature | In Progress | High     | BladeRF 2.0 Support   | Hoernchen | 02/14/2023 02:59 PM | Is duplicate of #2430                              |
| 5527 | osmo-remsim            | Bug     | Stalled     | High     | warn on duplicate client (id) connections   | laforge   | 07/13/2022 01:25 PM | Related to #5527                                   |
| 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 |
| 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 |
| 5571 | Ericsson RBS 6xxx      | Bug     | New         | High     | DUG can come up, but with Avail: "Power Off"  | dexter    | 11/08/2022 05:10 PM |  |
| 5731 | gr-osmosdr             | Bug     | New         | High     | Install gr-osmosdr on Ubuntu 20.04  |           | 10/27/2022 01:39 PM |  |

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|------|--|---------|-------------|----------|--|-----------|---------------------|-----------------------------------|
| 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 |
| 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 |                                   |
| 5921 | SIMtrace 2   | Bug     | In Progress | High     | simtrace2 cardem vs. Linux kernel USB autosuspend                                      | laforge   | 09/16/2023 10:47 PM | Related to #5921                  |
| 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 |                                   |
| 6091 | osmo-ePDG - VoWifi Evolved Packet Data Gateway         | Bug     | Feedback    | High     | osmo-epdg: Implement CEAI interface (GSUP) ePDG <> strongswan                          | lynxis    | 03/14/2024 04:36 PM |                                   |
| 6169 | osmo-e1d   | Bug     | New         | High     | Frame masking against network frame ordering, not frame numbers                        | laforge   | 10/18/2023 03:19 PM |                                   |
| 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     |
| 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                  |
| 6290 | Osmocom Conferences (OsmoDevCon, OsmoCon, OsmoDevCall) | Feature | In Progress | High     | Organize OsmoDevCon 2024   | laforge   | 03/06/2024 12:06 PM |                                   |
| 6294 | OsmoSGSN   | Feature | New         | High     | Support GN/Gp interoperation procedures between SGSN and MME                           | daniel    | 04/19/2024 10:57 AM | Related to #6294                  |
| 6337 | OsmocomBB  | Bug     | New         | High     | bad fr audio with gapk/ms-sdr  |           | 01/22/2024 09:21 PM | Related to #6337                  |
| 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 |                                   |
| 6436 | OsmoPCU  | Bug     | New         | High     | high cpu usage, entire BTS unresponsive after some hours                               | keith     | 04/13/2024 04:32 PM |                                   |
| 34   | OsmoBSC  | Bug     | New         | Normal   | ipaccess init code needs proper state machines   |           | 12/10/2017 08:16 PM | Related to #34                    |
| 37   | OsmoNITB   | Bug     | New         | Normal   | RTP Proxy dealing with SSRC change and sequence numbers                                |           | 03/05/2018 07:34 PM |                                   |
| 38   | OsmoNITB   | Bug     | New         | Normal   | subscr_update should sync database before dispatching the signal                       |           | 03/05/2018 07:34 PM |                                   |
| 41   | OsmoMSC  | Bug     | New         | Normal   | Numbering Plan in OsmoMSC  |           | 06/23/2018 07:37 PM |                                   |
| 44   | OsmoSGSN   | Bug     | New         | Normal   | TLLI clash possible  | pespin    | 02/06/2021 01:31 PM |                                   |
| 48   | OsmoNITB   | Bug     | New         | Normal   | Periodic timer and paging  |           | 03/05/2018 07:34 PM |                                   |
| 54   | OsmoNITB   | Bug     | New         | Normal   | osmo-nitb keeps rtp-proxy socket open in case no DLCX_IND is sent                      |           | 03/05/2018 07:34 PM |                                   |

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| 64   | Miscellaneous Projects | Bug     | New      | Normal   | osmo-bts-amp: 2.2uF capacitors next to PA need to be 0603, not 0805          | tnt      | 02/21/2016 04:48 PM |  |
| 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  |
| 1479 | Mobile (in)Security    | Bug     | New      | Normal   | MTK stack unable to send MO-SMS on TCH/F                                     |          | 04/03/2019 09:01 AM |  |
| 1482 | Mobile (in)Security    | Bug     | New      | Normal   | Sending the TMSI of the old/previous network                                 |          | 02/21/2016 04:35 PM |  |
| 1504 | UmTRX                  | Feature | New      | Normal   | LMS6002 phase error increases when Rx is enabled and varies with temperature | ttsou    | 02/19/2016 10:52 PM |  |
| 1506 | UmTRX                  | Feature | New      | Normal   | Move to the latest stable UHD  | ipse     | 02/21/2016 04:47 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 |  |
| 1515 | UmTRX                  | Feature | New      | Normal   | Heat dissipation and mounting issue  |          | 02/19/2016 10:52 PM |  |
| 1516 | UmTRX                  | Feature | New      | Normal   | There are no port to control external equipment like PA                      |          | 02/19/2016 10:52 PM |  |
| 1517 | UmTRX                  | Feature | New      | Normal   | U_FL (UMC) connectors are not reliable after few connections                 |          | 02/19/2016 10:52 PM |  |
| 1518 | UmTRX                  | Feature | New      | Normal   | Upper limit of the clock is too low  |          | 02/19/2016 10:52 PM |  |
| 1524 | OsmoPCU                | Bug     | Feedback | Normal   | PACCH on the wrong timeslot  | roh      | 10/19/2021 11:50 AM | Related to #1524,Related to #1524,Related to #1524,Related to #2709,Related to #1524,Related to #1524,Related to #3014 |
| 1526 | OsmoPCU                | Feature | Stalled  | Normal   | Acquire/update timing advance (TA)   | fixeria  | 03/25/2021 12:04 PM | Related to #1545,Related to #1531,Related to #1524,Related to #3472,Related to #2977                                   |
| 1543 | OsmoPCU                | Feature | New      | Normal   | link/rate adaption as per spec   |          | 01/08/2020 10:43 PM | Related to #1543,Related to #1543  |
| 1545 | OsmoPCU                | Feature | Stalled  | Normal   | continuous timing advance loop using PTCCH                                   | fixeria  | 03/24/2020 09:49 PM | Related to #1545,Related to #4102,Related to #4500,Blocks #1545  |
| 1547 | OsmoPCU                | Feature | New      | Normal   | downlink power control on PDTCH  |          | 02/23/2016 03:04 PM |  |
| 1549 | OsmoPCU                | Feature | New      | Normal   | DRX support for GPRS   |          | 02/04/2017 08:11 AM | Related to #1942   |

| #    | Project                      | Tracker | Status      | Priority | Subject  | Assignee | Updated             | Related issues   |
|------|------------------------------|---------|-------------|----------|--|----------|---------------------|--|
| 1550 | OsmoPCU                      | Bug     | New         | Normal   | Cell reselection under network control   |          | 02/23/2016 03:06 PM |  |
| 1554 | OsmoPCU                      | Feature | New         | Normal   | per-MS BSSGP flow control  |          | 02/23/2016 03:12 PM | Related to #1554   |
| 1577 | OsmoBTS                      | Bug     | New         | Normal   | mph_send_config_logchpar doesn't update encryption config                                |          | 02/23/2016 03:39 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                                   |
| 1586 | OsmoSGSN                     | Feature | New         | Normal   | Implement QoS profile support  |          | 02/23/2016 03:45 PM |  |
| 1587 | OsmoSGSN                     | Feature | Stalled     | Normal   | SMS over GPRS support  |          | 11/25/2018 08:14 PM | Related to #3587   |
| 1588 | OsmoSGSN                     | Feature | New         | Normal   | Inter-RAT hand-over  |          | 02/23/2016 03:46 PM |  |
| 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                  |
| 1614 | OsmoBSC                      | Bug     | Stalled     | Normal   | better identification of BTS model / capabilities to BSC                                 |          | 05/12/2020 12:11 PM | Related to #1614,Related to #2316,Related to #2317,Related to #3799,Related to #3938 |
| 1623 | OsmoSMSC                     | Feature | New         | Normal   | Configure delivery report for the SMPP delivery links                                    | zecke    | 02/24/2016 01:49 PM |  |
| 1624 | OsmoPCU                      | Bug     | New         | Normal   | add CRBB support to write_packet_ack_nack_desc_egprs                                     |          | 10/20/2020 08:37 AM |  |
| 1655 | OsmoSGSN                     | Feature | Stalled     | Normal   | KPIs for OsmoSGSN  |          | 01/08/2020 10:49 PM | Related to #1652,Related to #1655,Related to #1655                                   |
| 1667 | OsmoNITB                     | Feature | New         | Normal   | Handle callref better  |          | 09/04/2019 09:31 AM | Related to #3294   |
| 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 |  |
| 1685 | osmo-sip-connector           | Feature | In Progress | Normal   | osmo-sip-connector: Review and define log statements and which info to include           | osmith   | 09/04/2019 09:31 AM |  |
| 1686 | osmo-sip-connector           | Feature | New         | Normal   | osmo-sip-connector: Implement call holding on SIP  |          | 10/20/2020 08:36 AM |  |
| 1689 | OsmoSMSC                     | Feature | New         | Normal   | insert: Change destination number based on criteria similiar to route handling on output | zecke    | 04/06/2016 12:18 PM |  |
| 1690 | OsmoSMSC                     | Bug     | New         | Normal   | Insert: Generate message ID (e.g. UUID)  | zecke    | 04/06/2016 12:26 PM |  |
| 1716 | libosmocore                  | Feature | New         | Normal   | enhance unit test coverage   |          | 08/17/2016 03:57 PM | Related to #1987,Precedes #1717  |



| #    | Project                               | Tracker | Status      | Priority | Subject  | Assignee  | Updated             | Related issues   |
|------|---------------------------------------|---------|-------------|----------|--|-----------|---------------------|--|
| 1762 | libosmocore                           | Bug     | New         | Normal   | Review LAPD code for race conditions regarding state, particularly in RELEASE        | laforge   | 03/24/2021 12:37 PM | Related to #1760,Related to #1761,Related to #1982,Related to #2694          |
| 1794 | OsmoSGSN                              | Bug     | Stalled     | Normal   | support random IV for GEA (via XID)  |           | 03/01/2018 11:17 PM | Related to #1910,Related to #1672,Related to #2843,Blocks #1794,Blocks #1582 |
| 1812 | OsmoNITB                              | Feature | New         | Normal   | Report gsm0408_dispatch() failures to MS / UE  |           | 01/08/2020 10:56 PM |  |
| 1813 | Qualcomm Linux Modems by Quectel & Co | Bug     | New         | Normal   | cat /dev/snd/* causes kernel oops  |           | 09/30/2016 04:00 PM |  |
| 1815 | Qualcomm Linux Modems by Quectel & Co | Feature | New         | Normal   | tool for building binary ipk from .list/control                                      |           | 10/02/2016 05:06 AM |  |
| 1818 | OsmoSGSN                              | Bug     | New         | Normal   | luPS: CN should lu Release in certain situations                                     |           | 01/08/2020 10:47 PM | Related to #1818,Related to #3302,Related to #3908                           |
| 1829 | OsmoNITB                              | Bug     | New         | Normal   | Fix warnings introduced by ctrl constify   |           | 03/05/2018 07:34 PM |  |
| 1832 | Linux Kernel GTP-U                    | Feature | New         | Normal   | OpenvSwitch GTP-u patch for 2.5  |           | 10/27/2016 08:56 AM |  |
| 1838 | OsmoPCU                               | Bug     | Stalled     | Normal   | Nokia E52 doest reply to PUAN message properly                                       |           | 10/29/2017 06:47 PM |  |
| 1857 | OsmoBSC                               | Feature | New         | Normal   | aggregate and report OML ALERT messages received from BTSs                           |           | 12/10/2017 08:16 PM | Related to #1615,Related to #1605  |
| 1858 | OsmoBSC                               | Feature | New         | Normal   | make BSC also generate ALERTs  |           | 12/10/2017 07:59 PM |  |
| 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 |  |
| 1899 | osmo-qcdiag                           | Bug     | New         | Normal   | osmo-qcdiag: DIAG based pcap tracing (DPL) not working                               |           | 01/11/2017 12:15 PM |  |
| 1900 | osmo-qcdiag                           | Feature | New         | Normal   | osmo-qcdiag: Add FUSE based access for EFS   |           | 01/11/2017 12:15 PM |  |
| 1901 | osmo-qcdiag                           | Feature | New         | Normal   | osmo-qcdiag: Ability to read/write NV data   |           | 01/11/2017 12:15 PM |  |
| 1904 | OsmoNITB                              | Bug     | New         | Normal   | get rid of deprecated functions  |           | 03/05/2018 07:33 PM |  |
| 1906 | osmo-qcdiag                           | Bug     | Feedback    | Normal   | wireshark: fix decoding of (E)GPRS RLC/MAC frames                                    | Hoernchen | 02/08/2021 08:07 PM |  |
| 1907 | osmo-qcdiag                           | Bug     | New         | Normal   | osmo-qcdiag detects CRC errors relatively often                                      |           | 01/23/2017 01:47 AM |  |
| 1908 | osmo-qcdiag                           | Feature | New         | Normal   | add VTY interface to osmo-qcdiag   | laforge   | 01/12/2017 01:15 PM |  |

| #    | Project  | Tracker | Status      | Priority | Subject   | Assignee   | Updated             | Related issues                                 |
|------|--|---------|-------------|----------|---|------------|---------------------|--|
| 1911 | SIMtrace 2   | Feature | New         | Normal   | check if we can have an enclosed version of simtrace v2                               | tsaitgaist | 09/13/2018 12:40 PM |  |
| 1916 | OsmocomBB  | Bug     | New         | Normal   | building GNU ARM toolchain with gcc-4.8 fails on modern texinfo                       |            | 10/16/2017 02:14 PM |  |
| 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              |
| 1954 | OsmocomBB  | Bug     | In Progress | Normal   | Motorola C188 with Osmocombb firmwre(RAM version) can't scan out any base stations    |            | 07/10/2017 10:24 PM |  |
| 1955 | OsmoNITB   | Bug     | New         | Normal   | Investigate "Bad signalling message" error  |            | 03/05/2018 07:33 PM |  |
| 1983 | rtl-sdr  | Support | New         | Normal   | Add welle.io and rtl_fm_streamer to rtl-sdr app list                                  |            | 06/03/2018 12:24 PM |  |
| 1987 | libosmocore  | Feature | New         | Normal   | gcov code coverage test support   |            | 12/01/2019 01:42 PM | Related to #1987,Is duplicate of #1987         |
| 1990 | OsmocomBB  | Bug     | Feedback    | Normal   | bb nand flash   | yangkkokk  | 07/10/2017 10:22 PM |  |
| 1997 | OsmoHNBGW  | Feature | New         | Normal   | Improve error check at compilation time   |            | 10/21/2021 04:28 PM |  |
| 2179 | Osmocom Conferences (OsmoDevCon, OsmoCon, OsmoDevCall) | Bug     | New         | Normal   | no sign about OsmoCon outside of venue  |            | 04/24/2017 07:10 PM |  |
| 2189 | OsmoGSMTester  | Bug     | New         | Normal   | ofono: EC20: cannot send SMS  | lynxis     | 11/28/2017 04:21 PM |  |
| 2191 | OsmoMSC  | Feature | New         | Normal   | raw PDU mode for SMPP   |            | 12/23/2017 05:48 PM |  |
| 2197 | OsmoGSMTester  | Feature | Stalled     | Normal   | osmo-gsm-tester: use MNCC interface   |            | 11/30/2017 10:41 AM | Related to #2194,Is duplicate of #2197         |
| 2216 | gr-osmosdr   | Bug     | New         | Normal   | uhd: LO offset doesn't seem to work properly  |            | 06/03/2018 12:08 PM |  |
| 2224 | SDR (Software Defined Radio)                           | Feature | New         | Normal   | New Fospor Benchmark Performance  |            | 05/04/2017 01:23 PM |  |
| 2230 | OsmoGSMTester  | Feature | New         | Normal   | osmo-gsm-tester: arfcn as resource  |            | 12/14/2017 04:08 PM | Related to #2230                               |
| 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                               |
| 2259 | libosmo-sccp + libosmo-sigtran                         | Bug     | New         | Normal   | problem with local reference  | laforge    | 07/19/2017 04:25 PM |  |
| 2266 | OsmoGSMTester  | Feature | New         | Normal   | in the gsm tester, use ipa.py from openbsc instead of the current CTRL implementation |            | 10/16/2017 12:36 PM |  |

| #    | Project  | Tracker | Status | Priority | Subject  | Assignee | Updated             | Related issues                    |
|------|--|---------|--------|----------|--|----------|---------------------|-----------------------------------|
| 2292 | Osmocom Conferences (OsmoDevCon, OsmoCon, OsmoDevCall) | Bug     | New    | Normal   | Time with community users during OsmoCon                                       |          | 05/25/2017 03:03 PM |                                   |
| 2305 | OsmoSGSN   | Bug     | New    | Normal   | review 'laforge/santos' branch and check if there are pending fixes            |          | 01/08/2020 10:56 PM |                                   |
| 2311 | OsmoGSMTester  | Feature | New    | Normal   | osmo-gsm-tester: add test case: smpp: smpp_first feature                       |          | 05/31/2017 04:21 PM |                                   |
| 2313 | OsmoGSMTester  | Feature | New    | Normal   | osmo-gsm-tester: add test case: smpp: imsi extension                           |          | 05/31/2017 04:27 PM |                                   |
| 2314 | OsmoGSMTester  | Feature | New    | Normal   | osmo-gsm-tester: add test case: smpp: correct ESME routing                     |          | 05/31/2017 04:29 PM |                                   |
| 2318 | OsmoGSMTester  | Feature | New    | Normal   | testing sismobts: skip copying of binaries when the same are already installed |          | 06/07/2017 03:55 PM |                                   |
| 2374 | OsmoGSMTester  | Feature | New    | Normal   | osmo-gsm-tester: add test case: sms between MS with delivery report            |          | 08/10/2017 04:37 PM |                                   |
| 2378 | OsmocomBB  | Feature | New    | Normal   | Remove copy-pasted libosmocore ("git subtree") from osmocom-bb.git             |          | 10/24/2018 02:13 PM |                                   |
| 2379 | OsmocomBB  | Feature | New    | Normal   | package as .deb  |          | 02/27/2020 02:39 PM |                                   |
| 2382 | OsmoBSC  | Bug     | New    | Normal   | T3105 not consistently communicated to all BTS models                          |          | 03/05/2018 07:02 PM |                                   |
| 2383 | OsmoPCU  | Bug     | New    | Normal   | incompatibility with some SGSNs during P-TMSI allocation                       | laforge  | 07/04/2018 12:50 PM |                                   |
| 2390 | OsmoMSC  | Feature | New    | Normal   | re-add osmocom specific TLVs to SMPP messages                                  |          | 12/23/2017 05:48 PM |                                   |
| 2399 | OsmoGSMTester  | Feature | New    | Normal   | add tests for graceful restart of individual components                        |          | 07/25/2017 12:02 AM |                                   |
| 2414 | OsmoNITB   | Bug     | New    | Normal   | SMSC: deliverSM message with no user_message_reference                         |          | 08/15/2017 05:53 PM | Related to #2413,Related to #2414 |
| 2431 | OsmoGSMTester  | Bug     | New    | Normal   | osmo-gsm-tester: add test case: MS sends SMS to ESME                           |          | 08/10/2017 03:47 PM |                                   |
| 2438 | OsmoNITB   | Bug     | New    | Normal   | MS not registered from osmocom PoV, but registered from ofono PoV              |          | 08/14/2017 09:36 AM |                                   |
| 2439 | libosmo-netif  | Bug     | New    | Normal   | Osmux: overwrite duplicated RTP packets instead of dropping them               |          | 12/01/2019 10:11 AM | Blocks #2439                      |
| 2440 | libosmo-netif  | Bug     | New    | Normal   | Osmux: Improve lost packet recreation mechanism                                |          | 12/01/2019 10:11 AM | Blocks #2439                      |

| #    | Project                         | Tracker | Status      | Priority | Subject   | Assignee | Updated             | Related issues   |
|------|---------------------------------|---------|-------------|----------|---|----------|---------------------|--|
| 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 |
| 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   |
| 2501 | OsmoSGSN                        | Bug     | In Progress | Normal   | suspected problem with unanswered neighbor solicitation                                 | osmith   | 09/11/2019 12:58 PM |  |
| 2504 | OsmoGSMTester                   | Support | New         | Normal   | check whether running osmo-* from docker images is feasible on osmo-gsm-tester          |          | 04/06/2020 11:28 AM |  |
| 2514 | GSM Audio Pocket Knife          | Bug     | Stalled     | Normal   | GSM HR encoding result does not match the reference                                     | fixeria  | 04/03/2019 08:37 AM |  |
| 2523 | OsmoMGW                         | Feature | New         | Normal   | transcoding: remove "not yet implemented" from MNCC manual once transcoding is in place | daniel   | 03/16/2018 07:54 PM |  |
| 2555 | OsmocomBB                       | Feature | Stalled     | Normal   | script interface to OsmocomBB "mobile"  | zecke    | 06/08/2020 07:07 PM | Related to #2555,Related to #2555,Blocks #2893   |
| 2558 | Cellular Network Infrastructure | Feature | Stalled     | Normal   | Scripts to manage thousands of "mobile" and hundreds of osmo-bts-virtual instances      |          | 06/08/2020 07:07 PM | Related to #2557,Related to #2556,Related to #2555,Related to #2558,Blocks #2893                                   |
| 2607 | rtl-sdr                         | Bug     | New         | Normal   | rtl-sdr gnuradio cfile is outdated  |          | 06/03/2018 12:23 PM |  |
| 2615 | OsmoGSMTester                   | Bug     | New         | Normal   | Add API to check GPS lock in BTS  |          | 11/03/2017 05:00 PM |  |
| 2621 | OsmoGSMTester                   | Bug     | New         | Normal   | Gobi2000: might stopped working because all CID got assigned                            |          | 01/08/2020 10:40 PM |  |
| 2646 | OsmoGSMTester                   | Feature | New         | Normal   | osmo-gsm-tester: Add osmo-sip-connector support   |          | 04/23/2018 10:40 AM |  |
| 2650 | OsmoMGW                         | Bug     | New         | Normal   | how can osmo-mgw send a dummy RTP packet before CRCX ACK?                               |          | 06/08/2020 07:08 PM | Related to #4005   |
| 2677 | libosmocore                     | Support | New         | Normal   | Make stat_item available over ctrl interface  |          | 09/04/2019 09:21 AM | Related to #2676   |
| 2688 | libosmocore                     | Bug     | New         | Normal   | CTRL iface: make rate_ctr request parser more strict                                    |          | 03/24/2021 12:37 PM | Related to #4443   |
| 2690 | OsmocomBB                       | Bug     | New         | Normal   | ASAN issue on shutdown/no shutdown SYSINFO access                                       |          | 11/29/2017 09:33 AM |  |
| 2691 | OsmoNITB                        | Bug     | Feedback    | Normal   | Old TMSI paged after LU   |          | 05/17/2018 11:47 AM |  |
| 2694 | OsmocomBB                       | Bug     | New         | Normal   | SIGSEGV in lapdm code   |          | 11/30/2017 08:45 AM | Related to #2694   |

| #    | Project                      | Tracker | Status   | Priority | Subject  | Assignee | Updated             | Related issues  |
|------|------------------------------|---------|----------|----------|--|----------|---------------------|---|
| 2697 | osmo-qcdiag                  | Feature | New      | Normal   | Create and add debian packages for osmo-qcdiag to osmocom debian repositories      |          | 11/30/2017 06:03 PM |   |
| 2705 | OsmocomBB                    | Bug     | New      | Normal   | GSM48_MMR_NREG_REQ followed by GSM48_MMR_REG_REQ don't attach to the network       |          | 12/03/2017 09:50 PM |   |
| 2707 | OsmoGSMTester                | Feature | New      | Normal   | Add support for verifying content of log files after test is run                   |          | 12/04/2017 05:05 PM |   |
| 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  |
| 2724 | OsmoBSC                      | Feature | New      | Normal   | Improve default timers   | laforge  | 01/04/2018 11:06 AM | Related to #2724  |
| 2764 | SDR (Software Defined Radio) | Support | New      | Normal   | osmocom_fft & siggen can't access the X display                                    |          | 12/15/2017 06:09 PM |   |
| 2781 | OsmoBSC                      | Feature | Feedback | Normal   | Extend OsmBSC TTCN-3 test coverage regarding resource leaks                        | neels    | 03/25/2022 05:56 AM | Related to #2781,Related to #2781,Related to #5355,Related to #5337 |
| 2788 | OsmoMSC                      | Feature | New      | Normal   | OsmoMSC should handle CM Service Abort message                                     | neels    | 01/04/2018 10:37 AM |   |
| 2795 | OsmoMSC                      | Feature | New      | Normal   | Handle UTRAN_CLSM_CHG in MSC   | neels    | 04/30/2018 12:06 PM | Related to #3043  |
| 2797 | linmodem                     | Bug     | New      | Normal   | X11 support is 16bit plane only  |          | 05/07/2022 11:34 PM |   |
| 2798 | linmodem                     | Feature | New      | Normal   | ALSA Soundcard Support   |          | 01/01/2018 12:02 PM |   |
| 2799 | linmodem                     | Feature | New      | Normal   | SIP client support   |          | 01/01/2020 08:05 PM |   |
| 2800 | linmodem                     | Feature | New      | Normal   | Interop testing with real modems   |          | 01/01/2018 12:16 PM |   |
| 2801 | linmodem                     | Feature | New      | Normal   | V.90 completion  |          | 01/01/2018 12:18 PM |   |
| 2807 | Z-Netz                       | Bug     | Stalled  | Normal   | Obtain ZERBERUS software build[s] and manual[s]                                    | laforge  | 01/01/2020 01:51 PM |   |
| 2808 | Z-Netz                       | Bug     | New      | Normal   | Create + Document VM/emulation setup for running ZERBERUS                          |          | 01/01/2018 01:09 PM |   |
| 2809 | Z-Netz                       | Bug     | New      | Normal   | Build ZConnect <-> UseNet gateway  |          | 01/01/2018 01:33 PM |   |
| 2813 | Z-Netz                       | Feature | New      | Normal   | Create + Document OpenXP setup on Linux  |          | 01/01/2018 01:41 PM |   |
| 2814 | Z-Netz                       | Feature | New      | Normal   | Create + Document classic CrossPoint setup on DOS (dosemu)                         |          | 01/01/2018 01:41 PM |   |
| 2815 | linmodem                     | Feature | New      | Normal   | modern ptx / pty handling (UNIX 98)  |          | 01/01/2018 02:48 PM |   |
| 2846 | OsmoMSC                      | Bug     | New      | Normal   | MSC doesn't close SCCP/BSSAP connection on CM SERV REQ tht cannot be parsed        | osmith   | 07/18/2019 05:44 AM |   |
| 2851 | OsmoMSC                      | Bug     | Stalled  | Normal   | a_iface.c:534 Unhandled SIGTRAN primitive: 3:2                                     |          | 07/18/2019 05:45 AM |   |
| 2861 | OsmoGSMTester                | Feature | New      | Normal   | osmo-gsm-tester: Add 3g support for sysmocell-5k                                   |          | 12/02/2019 01:36 PM | Related to #2860  |
| 2872 | OsmoMSC                      | Bug     | Feedback | Normal   | OsmoMSC doesn't check if CIPHER MODE COMPLETE contains cipher that matches REQUEST | neels    | 07/29/2019 01:15 PM |   |
| 2877 | OsmoMSC                      | Bug     | New      | Normal   | OsmoMSC fails on bearer capability without octet 3a                                | osmith   | 07/18/2019 05:45 AM |   |

| #    | 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  |
| 2895 | OsmoMSC       | Bug     | New      | Normal   | OsmoMSC excessively uses LU Reject Cause 22 (congestion)                                | osmith   | 07/18/2019 05:41 AM |  |
| 2916 | OsmoMSC       | Bug     | New      | Normal   | asan failure on debian unstable in msc_vlr_test_gsm_ciph                                |          | 02/09/2018 04:20 PM |  |
| 2928 | OsmoMSC       | Bug     | New      | Normal   | OsmoMSC doesn't do BSSMAP ASSIGNMENT if no MNCC_RTP_CREATE is received                  |          | 02/11/2018 05:38 PM |  |
| 2941 | OsmoGSMTester | Bug     | New      | Normal   | ofono: SierraW sometimes crashing while deactivating a context.                         |          | 01/08/2020 10:40 PM |  |
| 2943 | OsmoMSC       | Bug     | New      | Normal   | Errors in MGCP do not propagate back to MNCC gsm_subscriber_conn state machine          |          | 09/04/2019 09:21 AM |  |
| 2951 | OsmoSGSN      | Bug     | Feedback | Normal   | OsmoSGSN Accepts two MO L3 Messages with N(U) set to zero                               | osmith   | 09/11/2019 12:24 PM |  |
| 2953 | OsmoSGSN      | Bug     | New      | Normal   | No timeout waiting for UpdateLocation Response on GSUP                                  |          | 01/08/2020 10:47 PM | Related to #2952   |
| 2957 | OsmoSGSN      | Bug     | New      | Normal   | No timeout during GSUP PURGE MS to HLR  |          | 01/08/2020 10:47 PM |  |
| 2958 | OsmoSGSN      | Bug     | Stalled  | Normal   | OsmoSGSN doesn't authenticate on second/further ATTACH REQUEST                          |          | 01/08/2020 10:49 PM | Related to #2958,Related to #4221  |
| 2960 | OsmoSGSN      | Bug     | New      | Normal   | OsmoSGSN confirms PDP CTX ACT to MS/Gb despite missing conditional IEs on GTP           |          | 01/08/2020 10:48 PM |  |
| 2962 | OsmoSGSN      | Bug     | New      | Normal   | Missing TTCN-3 test cases   |          | 01/08/2020 10:47 PM |  |
| 2977 | OsmoBTS       | Feature | Stalled  | Normal   | OsmoBTS measurement processing at L1SAP too complex / pass measurements along with data | dexter   | 05/18/2020 06:47 PM | Related to #2977,Related to #2977,Related to #3530,Related to #3428,Related to #3395,Related to #2977,Related to #3803 |
| 2995 | OsmocomBB     | Bug     | New      | Normal   | Wrong parsing of PAGING TYPE 3  |          | 02/24/2018 11:03 PM | Related to #2994   |
| 3000 | OsmoBSC       | Bug     | New      | Normal   | OsmoBSC issues "RSL Connect" command too early -> race conditions                       |          | 02/25/2018 12:32 PM | Related to #2470,Related to #4179  |
| 3002 | OsmoBSC       | Bug     | New      | Normal   | HO2: handover decision for dynamic timeslots  | neels    | 10/28/2020 08:46 PM | Related to #1606,Related to #1608,Blocks #3002   |
| 3020 | OsmoBSC       | Bug     | New      | Normal   | OsmoBSC PCU socket interface not yet tested by BSC_Tests.ttcn                           | laforge  | 05/21/2019 06:29 PM |  |

| #    | Project  | Tracker | Status  | Priority | Subject   | Assignee | Updated             | Related issues  |
|------|--|---------|---------|----------|---|----------|---------------------|---|
| 3038 | multi-voltage USB UART                                 | Feature | New     | Normal   | Add mounting holes?   |          | 03/07/2018 02:12 AM |   |
| 3046 | OsmoGSMTester  | Bug     | New     | Normal   | ofono: SierraW modem fails to power on  |          | 01/08/2020 10:41 PM |   |
| 3054 | OsmoTRX  | Feature | Stalled | Normal   | Extended (11-bit) RACH support in OsmoTRX   | tnt      | 02/03/2019 11:45 AM | Related to #1854,Related to #3054,Related to #3054,Related to #4006 |
| 3061 | OsmoTRX  | Bug     | New     | Normal   | OsmoTRX ARM chroot build jobs failing due to proot bug  | pespin   | 12/02/2019 04:54 PM | Related to #3766,Related to #4301                                   |
| 3067 | OsmoTRX  | Bug     | New     | Normal   | osmo-trx usrp b100 time out and packet loss between host and device                             | ttsou    | 03/15/2018 06:36 PM |   |
| 3069 | OsmoMSC  | Feature | New     | Normal   | investigate multiple CM Service Request on the same conn  | neels    | 10/28/2020 08:36 PM | Is duplicate of #3069   |
| 3097 | OsmoBSC  | Feature | New     | Normal   | ramping of "rxlev access min"   |          | 03/22/2018 11:51 AM | Related to #3097  |
| 3110 | OsmoMSC  | Bug     | New     | Normal   | Test and possibly fix ID Request after Auth failure   | neels    | 09/30/2018 11:36 AM |   |
| 3141 | OsmoTRX  | Bug     | New     | Normal   | Refactor / clean up TRX CTRL / DATA interfaces implementation                                   |          | 04/05/2018 05:46 PM |   |
| 3200 | Osmocom Conferences (OsmoDevCon, OsmoCon, OsmoDevCall) | Bug     | New     | Normal   | OsmoDevCon: Use loudspeakers even at IN-Berlin  |          | 04/23/2018 06:53 PM |   |
| 3201 | Osmocom Conferences (OsmoDevCon, OsmoCon, OsmoDevCall) | Bug     | New     | Normal   | OsmoDevCon: Add one more rectangular table  |          | 04/23/2018 07:00 PM |   |
| 3224 | OsmoSGSN   | Bug     | New     | Normal   | verify ciphering after UMTS AKA   |          | 01/08/2020 10:48 PM | Related to #3193,Related to #3224                                   |
| 3227 | Cellular Network Infrastructure                        | Feature | New     | Normal   | general idea: separate GSUP spec document   | roh      | 12/01/2019 09:26 AM | Is duplicate of #3227   |
| 3240 | gr-osmosdr   | Bug     | New     | Normal   | Expose airspy gain setting in gr-osmosdr block  |          | 06/03/2018 12:08 PM |   |
| 3243 | OsmoBSC  | Bug     | New     | Normal   | there is MGW config for each separate 'mnc', but the MGW settings are stored only once globally |          | 05/07/2018 03:10 PM |   |
| 3284 | OsmoPCU  | Bug     | New     | Normal   | GPRS cell re-selection appears sticky in packet transfer / packet idle mode                     |          | 01/08/2020 10:45 PM | Related to #2400,Related to #3284                                   |
| 3285 | OsmoPCU  | Feature | New     | Normal   | design + implement tools to analyze inter-PCU cell changes                                      | daniel   | 02/06/2021 11:12 AM | Related to #3284  |

| #    | Project                         | Tracker | Status      | Priority | Subject   | Assignee  | Updated             | Related issues                                     |
|------|---------------------------------|---------|-------------|----------|---|-----------|---------------------|--|
| 3309 | libosmocore                     | Feature | New         | Normal   | osmo_timer_* should use monotonic clock   |           | 05/31/2018 03:59 PM | Related to #3309                                   |
| 3315 | rtl-sdr                         | Feature | New         | Normal   | review and possibly apply patches from debian package                             | steve-m   | 06/03/2018 01:17 PM |  |
| 3329 | OsmoBTS                         | Feature | New         | Normal   | osmo-bts: Implement IMMEDIATE ASSIGNMENT EXTENDED                                 |           | 06/08/2018 12:02 PM | Related to #3330                                   |
| 3330 | OsmoBSC                         | Feature | New         | Normal   | osmo-bsc: Implement IMMEDIATE ASSIGNMENT EXTENDED                                 |           | 06/08/2018 12:14 PM | Related to #3330                                   |
| 3342 | OsmoTRX                         | Bug     | Stalled     | Normal   | osmo-trx-lms: low tx output power level   | Hoernchen | 04/06/2022 09:25 AM | Related to #3342,Blocks #3342                      |
| 3344 | OsmoTRX                         | Feature | New         | Normal   | merge ttsou/siggen  |           | 06/13/2018 07:26 PM |  |
| 3356 | OsmoSGSN                        | Bug     | In Progress | Normal   | OsmoSGSN doesn't provide unique IDTAG_SERNR in IPA CCM                            | osmith    | 04/09/2019 11:22 AM | Related to #3356,Related to #3356,Related to #3644 |
| 3371 | SIMtrace 2                      | Feature | New         | Normal   | migrate to use arm-none-eabi build of libosmocore.git                             | laforge   | 08/09/2018 12:14 PM |  |
| 3401 | OsmocomBB                       | Bug     | New         | Normal   | target/firmware/l1ctl: both chan_nr and link_id are not set for L1CTL_DATA_CONF   |           | 07/16/2018 11:56 PM |  |
| 3403 | OsmoSGSN                        | Bug     | New         | Normal   | osmo-sgsn doesn't connect properly with via SCCP when restarted                   | lynxis    | 02/07/2021 12:57 PM | Related to #3403                                   |
| 3414 | gr-osmosdr                      | Feature | New         | Normal   | Include Airspy serial number in connection string.                                | horiz0n   | 07/24/2018 04:52 AM |  |
| 3417 | Cellular Network Infrastructure | Bug     | New         | Normal   | show asciidoc counters does not show all the counters available                   | osmith    | 12/01/2019 09:28 AM | Related to #3417,Related to #4848                  |
| 3420 | libosmo-ranap                   | Bug     | Stalled     | Normal   | ranap_transp_assoc_decode() decodes X.213 NSAP address headers as IP address      | osmith    | 07/17/2021 10:14 AM |  |
| 3422 | OsmocomBB SDR PHY               | Bug     | Stalled     | Normal   | Receiver: sample / burst buffering problem  |           | 07/09/2023 07:39 PM |  |
| 3423 | OsmocomBB SDR PHY               | Feature | Stalled     | Normal   | Receiver: hard-coded GSM 05.02 channel configuration                              |           | 07/09/2023 07:45 PM |  |
| 3424 | OsmocomBB SDR PHY               | Feature | Stalled     | Normal   | Transceiver: implement automatic TX delay measurement                             |           | 07/09/2023 07:46 PM |  |
| 3425 | OsmocomBB SDR PHY               | Bug     | Stalled     | Normal   | Receiver: missing AGC (Automatic Gain Control)                                    |           | 07/09/2023 07:44 PM |  |
| 3442 | OsmoMGW                         | Bug     | New         | Normal   | fix int mgcp_codec_decide() in mgcp_codec.c                                       |           | 09/04/2019 09:26 AM |  |
| 3445 | OsmoMSC                         | Feature | Stalled     | Normal   | SS/USSD: clean up the local GSM 04.80 API   |           | 12/14/2018 01:57 PM |  |
| 3458 | OsmocomBB SDR PHY               | Bug     | Stalled     | Normal   | apps/grgsm_trx: [ERROR] [STREAMER] rcv packet demuxer unexpected sid 0xXX         |           | 07/09/2023 07:48 PM | Related to #3692                                   |
| 3459 | OsmocomBB SDR PHY               | Bug     | Stalled     | Normal   | apps/grgsm_trx: AssertionError: packet_info.packet_count == (seq_to_ack & 0xffff) |           | 07/09/2023 07:48 PM |  |



| #    | Project                | Tracker | Status   | Priority | Subject   | Assignee                      | Updated             | Related issues   |
|------|------------------------|---------|----------|----------|---|-------------------------------|---------------------|--|
| 3462 | gr-osmosdr             | Bug     | New      | Normal   | gr-osmosdr installation bladerf conversion errors   | horiz0n                       | 07/18/2019 05:35 AM |  |
| 3474 | OsmoBSC                | Bug     | Feedback | Normal   | SDCCH not released if Radio Link Failure / Sending Connection Failure: cause = 0x001 Experienced in osmo-bsc and osmo-bts-trx | ron.menez@entropysolution.com | 10/05/2020 09:33 PM |  |
| 3479 | OsmoBSC                | Feature | New      | Normal   | test "every single failure" in osmo-bsc FSMs  |                               | 08/20/2018 11:15 AM | Related to #3479   |
| 3480 | OsmoBSC                | Feature | New      | Normal   | handover from TCH/F to TCH/H to reduce load   |                               | 06/08/2020 07:08 PM | Related to #3480,Related to #3481  |
| 3481 | OsmoBSC                | Feature | New      | Normal   | handover from TCH/H to TCH/F to reduce load   |                               | 06/08/2020 07:08 PM | Related to #3481,Related to #3481  |
| 3483 | OsmoBSC                | Feature | New      | Normal   | handover decision: if rxlev is ok but rxqual is bad, move from TCH/H to TCH/F   | neels                         | 10/16/2018 01:53 PM | Related to #3483   |
| 3505 | OsmoBSC                | Feature | New      | Normal   | ttn3: test inter-BSC HO with encryption enabled   | neels                         | 08/28/2018 06:38 PM | Related to #3505   |
| 3512 | gr-osmosdr             | Support | New      | Normal   | Bug #3462 on Arch Linux; gr-osmosdr install fails   | horiz0n                       | 01/26/2019 06:10 PM |  |
| 3521 | libosmocore            | Feature | New      | Normal   | core/utills: engineering notation helpers   | fixeria                       | 09/04/2018 08:32 PM |  |
| 3531 | OP25                   | Bug     | New      | Normal   | Unknown status of the p25 wireshark plugin  |                               | 10/06/2022 05:52 AM |  |
| 3557 | OsmocomBB              | Bug     | New      | Normal   | trxcon: decoding errors after applying a new TCH mode   | fixeria                       | 06/21/2019 11:56 AM |  |
| 3560 | OsmoGSMTester          | Bug     | Stalled  | Normal   | nanoBTS multiTRX tests in osmo-gsm-tester Prod setup failing  | pespin                        | 09/04/2019 09:16 AM | Related to #3560,Related to #3560,Related to #3628,Is duplicate of #3475 |
| 3564 | OsmoGSMTester          | Feature | New      | Normal   | Investigate ofono and modems Cell Broadcast support   |                               | 01/08/2020 10:42 PM | Related to #3564   |
| 3566 | Misc Hardware Projects | Feature | Stalled  | Normal   | power supply / battery / charge for our GSM-R OPS 940   | laforge                       | 04/02/2023 09:05 AM |  |
| 3569 | OsmoBTS                | Bug     | Stalled  | Normal   | Some phones don't receive SMS CB  | laforge                       | 01/14/2019 03:32 PM |  |
| 3586 | OsmoBSC                | Feature | New      | Normal   | support LCLS for inter-BSC handover   | neels                         | 01/17/2019 04:18 PM | Related to #3586,Related to #3659  |
| 3588 | rtl-sdr                | Bug     | New      | Normal   | Error Values Inconsistent   |                               | 09/25/2018 12:47 PM |  |
| 3589 | rtl-sdr                | Bug     | New      | Normal   | Zerocopy Buffers Unusable Outside Callback Without memcpy()   |                               | 09/25/2018 12:58 PM |  |
| 3590 | rtl-sdr                | Bug     | New      | Normal   | Key Functions Missing Documentation   |                               | 09/25/2018 01:04 PM |  |
| 3591 | rtl-sdr                | Bug     | New      | Normal   | No Way To Detect Occasional Failed Bulk Transfers   |                               | 09/25/2018 01:29 PM |  |
| 3592 | gr-osmosdr             | Bug     | New      | Normal   | rtl: Race Conditions  | horiz0n                       | 07/18/2019 05:35 AM |  |
| 3594 | gr-osmosdr             | Feature | New      | Normal   | Message Commands  |                               | 09/25/2018 03:59 PM |  |
| 3595 | gr-osmosdr             | Feature | New      | Normal   | RX Tags   |                               | 09/25/2018 04:01 PM |  |

| #    | Project            | Tracker | Status   | Priority | Subject  | Assignee | Updated             | Related issues                    |
|------|--------------------|---------|----------|----------|--|----------|---------------------|-----------------------------------|
| 3596 | gr-osmosdr         | Feature | New      | Normal   | TX Tags  |          | 09/25/2018 04:01 PM |                                   |
| 3604 | OsmoSTP            | Feature | New      | Normal   | Global Title Routing   |          | 07/18/2019 05:15 AM |                                   |
| 3605 | OsmoSTP            | Feature | New      | Normal   | Global Title Translation   |          | 07/18/2019 05:15 AM |                                   |
| 3606 | OsmoSTP            | Feature | New      | Normal   | Support for multiple NI (network indicator)  |          | 10/03/2018 08:58 AM |                                   |
| 3607 | OsmoSTP            | Feature | New      | Normal   | Support for capability point codes   |          | 10/03/2018 08:58 AM |                                   |
| 3620 | OsmoMSC            | Feature | Stalled  | Normal   | Implement TTCN-3 testsuite for Inter-MSC HO  | neels    | 09/04/2019 09:08 AM |                                   |
| 3622 | libosmo-abis       | Bug     | New      | Normal   | Clear API mess in sign_link_up callback  | pespin   | 10/02/2018 07:34 PM |                                   |
| 3629 | OsmocomBB          | Bug     | New      | Normal   | mobile aborting after 'test re-selection 1' on vty   |          | 10/04/2018 02:58 PM |                                   |
| 3636 | OsmoMSC            | Feature | New      | Normal   | detailed call statistics (with rate counters)  | osmith   | 10/08/2018 11:14 AM | Related to #3636                  |
| 3637 | OsmoBSC            | Bug     | Feedback | Normal   | handover decision 2: properly check available codecs   | neels    | 10/09/2018 09:45 AM | Related to #3637,Related to #3637 |
| 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 |
| 3652 | OsmocomBB          | Bug     | New      | Normal   | Incorrect IMEISV setting in mobile application   |          | 10/12/2018 08:20 PM |                                   |
| 3653 | OsmocomBB          | Bug     | New      | Normal   | FACCH/H sometimes not received by BTS with osmocomBB+motorolaCXX                                 |          | 10/22/2018 02:37 PM | Related to #5518                  |
| 3656 | OsmoBSC            | Feature | New      | Normal   | inter-BSC handover outgoing: compose Cell Identifier List from several ARFCN+BSIC                | neels    | 06/08/2020 07:08 PM | Related to #3656                  |
| 3663 | gr-osmosdr         | Bug     | New      | Normal   | Can't compile gr-osmosdr on macOS Mojave   |          | 10/19/2018 02:37 PM |                                   |
| 3666 | OsmocomBB          | Feature | New      | Normal   | trxcon: Introduce VTY interface  | fixeria  | 02/26/2020 02:43 PM | Related to #3667                  |
| 3672 | Osmocom Analog     | Feature | New      | Normal   | Custom announcement and tones  | jolly    | 02/01/2021 10:25 AM |                                   |
| 3676 | OsmoGSMTester      | Bug     | New      | Normal   | ofono: org.ofono.ConnectionManager property Bearer returning "none"                              |          | 06/09/2020 08:39 PM |                                   |
| 3687 | OsmoMSC            | Feature | New      | Normal   | Expand "show bsc" command  |          | 11/11/2018 09:50 PM |                                   |
| 3689 | OsmoSGSN           | Bug     | New      | Normal   | Support Cisco GGSN (Cisco 7200 with IOS 12.4.x)  |          | 04/09/2019 11:21 AM |                                   |
| 3696 | OsmoSGSN           | Bug     | New      | Normal   | Intermittent Connection Drop   |          | 01/08/2020 10:48 PM |                                   |
| 3711 | SIMtrace 2         | Feature | New      | Normal   | Add screw holes for permanent installations  | mschramm | 11/01/2023 08:28 PM |                                   |
| 3724 | osmo-sip-connector | Bug     | New      | Normal   | Wrong media format used in SIP INVITE causes one-way audio                                       |          | 12/11/2018 02:57 PM | Related to #3724,Related to #5177 |
| 3731 | OsmoMGW            | Bug     | New      | Normal   | TTCN3 TC_rtpem_selftest randomly fails   |          | 01/08/2020 10:18 PM |                                   |
| 3735 | OsmoMSC            | Bug     | Stalled  | Normal   | call arriving during another call has no voice   | neels    | 06/18/2019 09:18 PM |                                   |
| 3738 | OsmoMSC            | Feature | New      | Normal   | Clarify PS-part of struct vlr_subscr   |          | 12/19/2018 12:34 PM |                                   |
| 3741 | osmo-sip-connector | Bug     | New      | Normal   | Unknow call parameters shown in vty  |          | 12/28/2018 02:01 PM |                                   |

| #    | Project                      | Tracker | Status  | Priority | Subject   | Assignee   | Updated             | Related issues                         |
|------|------------------------------|---------|---------|----------|---|------------|---------------------|--|
| 3747 | UmTRX                        | Feature | New     | Normal   | LMS6002D RX Gain Control  | ipse       | 01/08/2019 09:46 AM |  |
| 3751 | OsmoBTS                      | Support | New     | Normal   | Ensure BTS Tests.ttcn results of OC-2G resemble what we know/expect from osmo-bts-{sysmo,trx}           |            | 12/01/2019 10:52 AM |  |
| 3763 | osmo-sip-connector           | Bug     | New     | Normal   | Implement correct handling for call answered elsewhere  |            | 01/22/2019 01:03 PM |  |
| 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 |
| 3776 | OP25                         | Bug     | New     | Normal   | Build fail using gcc version 7.3.0 Ubuntu 18.04.1 LTS   |            | 07/05/2019 07:12 PM |  |
| 3792 | OsmoBTS                      | Bug     | New     | Normal   | OsmoBTS doesn't include the "Starting Time" attribute in "Set BTS Attributes ACK"                       | osmith     | 07/18/2019 06:05 AM |  |
| 3797 | rtl-sdr                      | Bug     | New     | Normal   | Exits with "Bus error"  |            | 02/12/2019 02:28 PM |  |
| 3802 | gr-osmosdr                   | Feature | New     | Normal   | New release   | horiz0n    | 02/15/2019 07:22 AM |  |
| 3806 | OsmoBSC                      | Bug     | Stalled | Normal   | OsmoBSC accepts BSSAP with wrong length field   |            | 08/28/2020 08:15 PM | Related to #3806                       |
| 3812 | libosmo-netif                | Bug     | Stalled | Normal   | stream_test fails depending on where it is run  |            | 03/13/2019 04:15 PM |  |
| 3814 | OsmoBSC                      | Bug     | New     | Normal   | MS Power Control Problem with Osmo-BSC and nanoBTS  |            | 02/24/2019 01:15 AM |  |
| 3815 | SIMtrace 2                   | Bug     | New     | Normal   | simtrace2 fails USB-IF CH9 test   | Hoernchen  | 05/12/2020 07:24 PM |  |
| 3817 | SDR (Software Defined Radio) | Bug     | New     | Normal   | Unable to use fosphor display on Ubuntu 18.10   |            | 02/26/2019 06:56 PM |  |
| 3820 | OsmoHNBGW                    | Bug     | New     | Normal   | osmo-hnbgw does not properly do RANAP RESET and RESET ACK on the link towards MSC and SGSN              |            | 05/13/2021 12:01 PM | Related to #3944                       |
| 3829 | OsmoMSC                      | Bug     | New     | Normal   | osmo-msc expects aoip TLV in Assignment Complete messages from BSC                                      |            | 03/07/2019 08:30 PM |  |
| 3847 | Miscellaneous Projects       | Feature | New     | Normal   | Osmocom logo with/for black background  | tsaitgaist | 12/10/2019 11:53 AM |  |
| 3849 | OsmoMGW                      | Bug     | New     | Normal   | race condition problem in rtp flow tests of the ttcn3 testsuite   |            | 09/04/2019 09:26 AM |  |
| 3855 | gr-osmosdr                   | Bug     | New     | Normal   | Cannot build gr-osmosdr with Gnuradio 3.8   | horiz0n    | 07/13/2020 10:05 PM |  |
| 3863 | OsmoBTS                      | Support | Stalled | Normal   | setup testing of osmo-bts-oc2g on real hardware with ttcn3 and osmocon/osmocom-bb                       |            | 12/01/2019 10:52 AM |  |
| 3865 | OsmoBSC                      | Bug     | New     | Normal   | nanoBTS: GPRS not working anymore, modems unable to attach in osmo-gsm-tester                           |            | 05/11/2023 01:00 PM | Is duplicate of #3865                  |
| 3872 | OsmoBSC                      | Feature | New     | Normal   | osmo_scu_prim.conn_id should be picked from a distinct number space for outgoing and incoming N-CONNECT | osmith     | 03/28/2019 08:06 PM | Blocks #3872                           |
| 3880 | OsmoMSC                      | Bug     | New     | Normal   | GSUP MT-ForwardSM Message Reference - wrong value in a response   |            | 04/01/2019 07:47 AM |  |

| #    | Project       | Tracker | Status      | Priority | Subject   | Assignee | Updated             | Related issues   |
|------|---------------|---------|-------------|----------|---|----------|---------------------|--|
| 3882 | gr-osmosdr    | Bug     | New         | Normal   | Cannot compile gr-osmosdr!  | horiz0n  | 07/18/2019 05:35 AM |  |
| 3884 | osmo-remsim   | Feature | New         | Normal   | redesign bankd thread architecture  | laforge  | 05/08/2019 03:31 PM | Related to #5527,Precedes #3885,Precedes #3886                                       |
| 3885 | osmo-remsim   | Feature | New         | Normal   | remsim-server should expose status information                                | laforge  | 04/01/2019 07:23 PM | Precedes #3885   |
| 3886 | osmo-remsim   | Feature | New         | Normal   | expose ICCID or even IMSI of all cards on remsim-server                       | laforge  | 05/08/2019 03:31 PM | Precedes #3886   |
| 3909 | libosmocore   | Bug     | New         | Normal   | osmo_get_rand_id() fails in containerised environment                         |          | 03/24/2021 12:34 PM | Related to #3909   |
| 3917 | OsmoGSMTester | Bug     | New         | Normal   | ofono: update debian packages to match our dependencies                       |          | 04/06/2020 11:30 AM |  |
| 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 |
| 3923 | OsmoSGSN      | Bug     | New         | Normal   | lu: Respond to SecurityCommandReject messages                                 |          | 04/24/2019 08:26 AM | Related to #3923   |
| 3929 | OsmoPCU       | Bug     | New         | Normal   | Missing PCU_Tests.ttcn link adaptation tests                                  | pespin   | 06/17/2020 08:32 AM | Related to #3929   |
| 3931 | OsmoGSMTester | Support | New         | Normal   | Contact quectel to get info about modem updates (hopefully less crashes)      |          | 01/08/2020 10:56 PM | Related to #3931   |
| 3936 | OsmoSGSN      | Bug     | New         | Normal   | lu: first GMM Service Request does not find a MM ctx                          |          | 05/07/2019 01:37 PM | Related to #3936   |
| 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   |
| 3939 | OsmoSGSN      | Bug     | New         | Normal   | TTCN: do a GMM Attach Request when in GMM Connected and have a PDP Request    |          | 04/24/2019 08:25 AM |  |
| 3940 | OsmoSGSN      | Bug     | New         | Normal   | TTCN-3: lu: test UMTS Auth  |          | 04/24/2019 08:24 AM |  |
| 3949 | OsmoTRX       | Bug     | New         | Normal   | osmo-trx-lms: improve runtime gain setting (missing calibration)              |          | 09/30/2020 08:08 PM | Related to #4468   |
| 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                                   |
| 3980 | OsmoMGW       | Bug     | New         | Normal   | Clear Command before CRCX OK may leak MGW endpoint                            |          | 05/06/2019 10:11 PM |  |
| 3981 | OsmoTRX       | Bug     | New         | Normal   | osmo-trx-lms: Overruns appear from time to time                               |          | 09/30/2020 08:08 PM | Related to #3981   |
| 3983 | libosmocore   | Bug     | New         | Normal   | osmo_fsm_inst_change_parent() forgets to talloc reparent                      |          | 03/24/2021 12:35 PM |  |
| 3992 | OsmoMSC       | Bug     | New         | Normal   | inter-MSC handover for signalling-only?                                       |          | 05/09/2019 11:39 AM |  |

| #    | Project                         | Tracker | Status      | Priority | Subject   | Assignee  | Updated             | Related issues  |
|------|---------------------------------|---------|-------------|----------|---|-----------|---------------------|---|
| 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  |
| 4006 | Cellular Network Infrastructure | Feature | Stalled     | Normal   | TRX protocol: wind of change  | fixeria   | 10/27/2021 10:22 PM | Related to #4006,Related to #4006,Related to #4081,Related to #4658,Related to #4941,Related to #5283 |
| 4009 | OsmoBTS                         | Bug     | New         | Normal   | Channel Activation starts SACCH too early in Synchronous Handover                               |           | 03/11/2022 12:44 PM | Related to #4009,Related to #4010,Related to #4009  |
| 4017 | OsmoMSC                         | Bug     | New         | Normal   | MSC fails to handle calls   |           | 05/29/2019 04:56 PM |   |
| 4018 | OsmoPCU                         | Bug     | New         | Normal   | investigate ordering of includes paths  |           | 05/23/2019 10:59 AM |   |
| 4019 | OsmoPCU                         | Bug     | New         | Normal   | implement a command to show all informations from the bts                                       |           | 11/25/2020 07:33 PM |   |
| 4023 | OsmoBTS                         | Bug     | Stalled     | Normal   | Missing coverage of PCU interface in osmo-bts   |           | 03/21/2023 01:07 PM | Related to #4023  |
| 4030 | OsmocomBB                       | Feature | In Progress | Normal   | design breakout board for GTM900-B  | mschramm  | 01/05/2024 08:00 AM | Related to #4575,Related to #4610   |
| 4031 | OsmoBTS                         | Bug     | New         | Normal   | OML part of BTS has no TTCN-3 tests   |           | 09/04/2019 09:04 AM | Related to #4031,Related to #4031   |
| 4033 | OsmoGGSN (former OpenGGSN)      | Feature | New         | Normal   | ttn3-ggsn-test: Add tests to verify secondary pdp context management                            |           | 05/30/2019 03:19 PM |   |
| 4041 | SIMtrace 2                      | Bug     | New         | Normal   | implement SIMTRACE_CMD_BD_BOARD_INFO  | laforge   | 12/06/2019 01:38 PM | Related to #4041  |
| 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  |
| 4070 | OsmoBSC                         | Bug     | Stalled     | Normal   | Implement IPA PING/PONG mechanism on RSL and OML  | osmith    | 09/30/2020 08:13 PM | Related to #5785  |
| 4072 | libosmo-sccp + libosmo-sigtran  | Bug     | New         | Normal   | Implement IPA PING/PONG mechanism in libosmo-sigtran +  | Hoernchen | 06/21/2019 02:51 PM | Related to #4072  |
| 4080 | rtl-sdr                         | Support | New         | Normal   | Receiving UTAs on 978 Mhz   |           | 07/02/2019 12:08 PM |   |
| 4082 | OsmoBTS                         | Bug     | New         | Normal   | OML: Unknown/unhandled PCHAN type: 0 NONE   |           | 11/18/2019 10:09 AM |   |
| 4091 | Cellular Network Infrastructure | Feature | New         | Normal   | Osmux: Make sure all handover types work fine if a call leg is using Osmux between BSC and MSC. | pespin    | 06/08/2020 07:08 PM |   |
| 4092 | OsmoMGW                         | Feature | New         | Normal   | Osmux: Support dynamic allocation of osmux sockets  | pespin    | 08/10/2022 07:50 AM | Related to #4092  |

| #    | Project                               | Tracker | Status      | Priority | Subject  | Assignee | Updated             | Related issues                    |
|------|---------------------------------------|---------|-------------|----------|--|----------|---------------------|-----------------------------------|
| 4098 | gr-osmosdr                            | Bug     | New         | Normal   | [BladeRF micro] Arguments set in osmocom Sink and Source are not passed to libbladerf  | horiz0n  | 07/18/2019 05:35 AM |                                   |
| 4104 | libosmocore                           | Bug     | New         | Normal   | support for KASME generation   | laforge  | 07/12/2019 10:15 AM | Related to #4105                  |
| 4105 | libosmocore                           | Feature | New         | Normal   | Support for LTE key derivation functions   | laforge  | 07/13/2019 02:07 AM | Related to #4105                  |
| 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 |
| 4124 | OsmoBSCNAT                            | Feature | New         | Normal   | OsmoBSCNAT : Write user manual   |          | 01/08/2020 10:56 PM | Related to #4124                  |
| 4130 | OP25                                  | Bug     | New         | Normal   | OP25 User Interface  |          | 07/26/2019 02:36 AM |                                   |
| 4135 | Qualcomm Linux Modems by Quectel & Co | Support | New         | Normal   | how to use network inside ec20   |          | 07/31/2019 11:20 AM |                                   |
| 4141 | Cellular Network Infrastructure       | Bug     | New         | Normal   | No osmux specific code in place during codec negotiation   |          | 08/05/2019 03:57 PM |                                   |
| 4149 | libosmocore                           | Bug     | New         | Normal   | osmo_fsm allows event names to have spaces in them   | laforge  | 01/25/2022 09:53 AM |                                   |
| 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                  |
| 4153 | OsmoMGW                               | Bug     | New         | Normal   | 3G voice broken with ALu 9361 femto  |          | 04/25/2022 05:43 PM |                                   |
| 4158 | OsmoHNBGW                             | Bug     | New         | Normal   | segfault when paging, in a situation with duplicate CID in hnb register requests   |          | 05/13/2021 12:01 PM | Related to #4162                  |
| 4161 | OsmoGGSN (former OpenGGSN)            | Bug     | New         | Normal   | Implement pdp idle timer   | pespin   | 08/20/2019 06:30 PM | Related to #4161                  |
| 4163 | OsmoHLR                               | Bug     | New         | Normal   | Subscriber on demand: "Error while deleting subscriber data for IMSI" after changing network access mode from cs+ps back to none | osmith   | 08/22/2019 01:41 PM |                                   |
| 4167 | OsmoMSC                               | Bug     | Feedback    | Normal   | Event VLR_ULA_E_ID_IMEISV not permitted  | osmith   | 09/04/2019 08:13 PM |                                   |
| 4172 | OsmoGGSN (former OpenGGSN)            | Bug     | New         | Normal   | osmoggsn crashes when stopping   |          | 08/29/2019 11:35 AM |                                   |
| 4174 | osmo-fl2k                             | Bug     | New         | Normal   | After the latest commits, the fl2k tools do not exit on first SIGINT   |          | 08/25/2019 04:57 PM |                                   |
| 4196 | OsmoMSC                               | Feature | New         | Normal   | CC Setup, Call Confirmed: decode and use the Supported Codec List IE   |          | 09/25/2019 05:27 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 |                                   |
| 4225 | OP25                                  | Support | New         | Normal   | Missing rules in cmake lists?  | 2CS350   | 10/12/2019 02:49 PM |                                   |
| 4240 | OsmoMSC                               | Bug     | In Progress | Normal   | test: incoming call when already Paging  |          | 11/27/2019 11:09 PM |                                   |
| 4249 | osmo-remsim                           | Feature | New         | Normal   | ability to explicitly provision an "empty SIM card slot" to a modem  | laforge  | 09/08/2021 07:48 PM | Related to #5216                  |

| #    | Project                         | Tracker | Status      | Priority | Subject   | Assignee | Updated             | Related issues                                     |
|------|---------------------------------|---------|-------------|----------|---|----------|---------------------|--|
| 4265 | libosmocore                     | Bug     | New         | Normal   | --enable-embedded doesn't work as expected  |          | 11/12/2019 11:18 AM |  |
| 4268 | Distributed GSM                 | Bug     | In Progress | Normal   | duplicate SMS when SMPP handler sends back to the originating MSC   | neels    | 06/08/2020 03:11 PM |  |
| 4274 | OsmoSTP                         | Bug     | New         | Normal   | AS Name isn't displayed   |          | 03/14/2024 10:33 AM |  |
| 4310 | osmo-sip-connector              | Bug     | New         | Normal   | sends BYE to self   |          | 01/09/2020 09:21 AM |  |
| 4325 | gr-osmosdr                      | Bug     | New         | Normal   | can't open hackrf_sink with device index  |          | 12/13/2019 09:18 AM |  |
| 4333 | Cellular Network Infrastructure | Support | Feedback    | Normal   | GSUP binary compatibility: add GSUP protocol version IE?  |          | 12/16/2019 01:56 PM | Related to #4333,Related to #4333,Related to #4333 |
| 4336 | OsmoMSC                         | Feature | New         | Normal   | Convert vlr_lu_fsm.c to use osmo_tdef (and drop vlr_timer())  |          | 01/02/2020 05:32 PM | Related to #4337                                   |
| 4337 | OsmoMSC                         | Bug     | New         | Normal   | osmo-msc: Don't send LU-Reject after LU-Accept if no TMSI Realloc Complete is received                              |          | 01/07/2021 06:22 PM | Related to #4337                                   |
| 4341 | BBS-Revival                     | Feature | New         | Normal   | setup for telnet access to legacy BBS software which doesn't have telnet/tcp support                                | laforge  | 10/03/2022 12:09 PM |  |
| 4352 | osmo-sip-connector              | Bug     | New         | Normal   | Need to handle 401 Unauthorized   |          | 01/09/2020 02:03 PM |  |
| 4359 | gr-osmosdr                      | Bug     | New         | Normal   | Compiling from Git Bramcj gr3.8 fails   |          | 01/12/2020 05:08 PM |  |
| 4362 | OsmoTRX                         | Feature | Stalled     | Normal   | osmo-trx-lms: Support multi-arfcn feature   |          | 09/30/2020 08:09 PM | Related to #4362,Related to #4362                  |
| 4364 | OsmoBTS                         | Bug     | New         | Normal   | osmo-bts-trx configured with 2 TRX and osmo-trx with 1 TRX -> bad behavior  | pespin   | 07/06/2020 07:16 PM |  |
| 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                                   |
| 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                                   |
| 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 |  |
| 4374 | OsmoMSC                         | Feature | New         | Normal   | send GSUP PurgeMS Request (CN-Domain = CS) to the HLR upon IMSI-Detach  |          | 01/23/2020 03:19 AM |  |
| 4376 | Cellular Network Infrastructure | Feature | New         | Normal   | Define distinct X timer numbers across all osmo programs  |          | 01/23/2020 09:21 PM |  |
| 4384 | pySim                           | Feature | Stalled     | Normal   | Jenkins program-read verification on daily (or weekly) basis  | dexter   | 03/27/2023 04:13 PM | Related to #4384                                   |
| 4403 | IMSI Pseudonymization           | Feature | Feedback    | Normal   | OsmoHLR: How to interface with SMS service?   |          | 04/16/2020 08:45 AM | Blocks #4477                                       |

| #    | Project                        | Tracker | Status      | Priority | Subject  | Assignee  | Updated             | Related issues                                     |
|------|--------------------------------|---------|-------------|----------|--|-----------|---------------------|--|
| 4404 | IMSI Pseudonymization          | Feature | Stalled     | Normal   | Research: Make sure that we can silently detach the IMSI                                     |           | 04/15/2020 10:06 AM | Related to #4404,Related to #4480                  |
| 4415 | OsmoGGSN (former OpenGGSN)     | Feature | New         | Normal   | Document in OsmoGGSN User Manual the IPv6 allocation process over GTP                        |           | 02/25/2020 03:05 PM |  |
| 4417 | IMSI Pseudonymization          | Bug     | New         | Normal   | Applet: LU counter should only increase on successful location update                        |           | 04/16/2020 08:45 AM | Related to #4478                                   |
| 4418 | OsmocomBB                      | Feature | New         | Normal   | test-sim: support all libosmocore algorithms (comp128 v1, v2, v3; MILENAGE)                  |           | 02/26/2020 11:41 PM |  |
| 4427 | rtl-sdr                        | Bug     | New         | Normal   | docker + rtl_sdr issue   |           | 02/29/2020 01:16 PM |  |
| 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 |  |
| 4431 | osmo-clock-gen                 | Bug     | In Progress | Normal   | TC1 (TC2050) pin 4 should connect to VDD network, not VDD_3V3                                | laforge   | 07/20/2020 10:42 PM |  |
| 4432 | OsmoMGW                        | Bug     | New         | Normal   | for 'domain **', mgw should echo the domain of the MGCP client                               |           | 03/04/2020 12:39 AM |  |
| 4433 | OsmoGGSN (former OpenGGSN)     | Feature | New         | Normal   | sgsnemu: Add support for IPv4v6 EUAs   |           | 03/04/2020 10:44 AM |  |
| 4440 | OsmoBTS                        | Bug     | New         | Normal   | osmo_bts_virtual doesn't detect if mobile/virtphy is gone                                    | laforge   | 03/07/2020 03:44 PM |  |
| 4443 | libosmocore                    | Bug     | New         | Normal   | CTRL interface blocks wildcard in rate_ctr   |           | 03/08/2020 01:06 PM | Related to #4443,Related to #4443                  |
| 4447 | OsmoMGW                        | Bug     | New         | Normal   | DSCP value should be a 6 bit field   | osmith    | 03/09/2020 04:50 PM | Related to #4447                                   |
| 4451 | OsmoMSC                        | Bug     | New         | Normal   | vty 'show stats level': different stats levels yield identical results                       |           | 03/09/2020 10:10 PM |  |
| 4452 | OsmoPCU                        | Bug     | Stalled     | Normal   | manual testing of osmo-pcu   |           | 07/28/2023 02:48 PM |  |
| 4455 | OP25                           | Feature | New         | Normal   | AMBE CODEC   |           | 03/28/2020 09:53 PM |  |
| 4457 | libosmo-sccp + libosmo-sigtran | Bug     | New         | Normal   | editing the SCCP address book (global-title) on a running instance may crash the application |           | 03/17/2020 11:17 PM |  |
| 4464 | libosmo-abis                   | Bug     | In Progress | Normal   | "osmo_rtp_socket_poll(): ERROR!" messages during normal osmo-bts usage                       | laforge   | 02/06/2021 02:27 PM | Related to #4467                                   |
| 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 |
| 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 |  |
| 4471 | OsmocomBB                      | Support | New         | Normal   | Received FTMT00L from phone, ramloader has aborted   |           | 03/29/2020 11:18 AM |  |



| #    | Project               | Tracker | Status      | Priority | Subject   | Assignee | Updated             | Related issues                                     |
|------|-----------------------|---------|-------------|----------|---|----------|---------------------|--|
| 4476 | IMSI Pseudonymization | Feature | Stalled     | Normal   | OsmoHLR: support IMSI pseudo in location update                                     | neels    | 05/27/2020 01:11 PM | Blocks #4477                                       |
| 4477 | IMSI Pseudonymization | Feature | New         | Normal   | OsmoHLR: send next pseudo IMSI via SMS  |          | 04/16/2020 08:45 AM | Blocks #4477,Blocks #4477                          |
| 4478 | IMSI Pseudonymization | Feature | New         | Normal   | Applet: proper warning after too many LU with same IMSI                             |          | 04/16/2020 08:45 AM | Related to #4478                                   |
| 4479 | IMSI Pseudonymization | Feature | New         | Normal   | Applet: change IMSI after receiving SMS   |          | 04/16/2020 08:45 AM |  |
| 4480 | IMSI Pseudonymization | Bug     | New         | Normal   | Applet/OsmoMSC: fix or workaround for OsmoMSC only paging attached MS               |          | 04/16/2020 08:45 AM | Related to #4480                                   |
| 4484 | gr-osmosdr            | Bug     | New         | Normal   | CMakeFiles.txt  |          | 04/06/2020 05:19 PM |  |
| 4486 | IMSI Pseudonymization | Feature | New         | Normal   | Applet: gracefully handle case where timer is set twice                             |          | 04/16/2020 08:45 AM |  |
| 4488 | OsmoPCU               | Feature | New         | Normal   | have uplink/downlink tests for all CS/MCS   |          | 11/25/2020 07:28 PM | Related to #4488,Related to #4510                  |
| 4489 | IMSI Pseudonymization | Feature | New         | Normal   | Specification: mark mandatory parts / implementation details as such                |          | 04/16/2020 08:44 AM |  |
| 4490 | IMSI Pseudonymization | Feature | New         | Normal   | Specification: how would IMSI-pseudo interact within a combined (2G-4G)+5G network? |          | 04/16/2020 08:44 AM |  |
| 4493 | IMSI Pseudonymization | Feature | New         | Normal   | Specification: Cover 2G, 3G and 4G separately                                       | neels    | 05/27/2020 01:11 PM |  |
| 4494 | IMSI Pseudonymization | Feature | New         | Normal   | Specification: Add bibliography   | neels    | 05/27/2020 01:11 PM |  |
| 4495 | IMSI Pseudonymization | Feature | New         | Normal   | Specification: More references  | neels    | 05/27/2020 01:11 PM |  |
| 4498 | osmo-uecaps           | Feature | New         | Normal   | IPv6 neighbor discovery   | laforge  | 04/17/2020 08:33 AM |  |
| 4500 | OsmoBTS               | Bug     | Stalled     | Normal   | osmo-bts-{sysmo,oc2g,litecell15}: PTCCH/U is not enabled on PDCH timeslots          | fixeria  | 06/25/2020 04:48 PM | Related to #4500,Related to #4500,Related to #4501 |
| 4513 | rtl-sdr               | Bug     | New         | Normal   | PKG information broken  |          | 04/26/2020 03:21 PM |  |
| 4520 | osmo-gbproxy          | Feature | In Progress | Normal   | gbproxy: Redundancy between NS-VCs (BSS Side)                                       | lynxis   | 02/19/2021 04:50 PM | Related to #4520                                   |

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