

## Issues

| #    | Project                               | Tracker | Status | Priority  | Subject   | Assignee  | Updated             | Related issues                    |
|------|---------------------------------------|---------|--------|-----------|---|-----------|---------------------|-----------------------------------|
| 5683 | Osmocom Libraries                     | Bug     | New    | Immediate | How to install osmocom in China   |           | 09/18/2022 10:18 AM |                                   |
| 3819 | gr-osmosdr                            | Support | New    | Urgent    | OSMO SDR blocks for GNUradio  |           | 02/28/2019 06:00 PM |                                   |
| 4206 | Qualcomm Linux Modems by Quectel & Co | Support | New    | Urgent    | Unbrick cpe router without web ui interface and terminal                            |           | 02/22/2021 02:01 PM |                                   |
| 5481 | Open Source IMS Client                | Feature | New    | Urgent    | SIM card interface for doubango   | laforge   | 03/25/2022 11:00 AM | Related to #5482                  |
| 5574 | OsmoBSCNAT                            | Bug     | New    | Urgent    | OsmoBSCNAT testsuite running in jenkins   | Hoernchen | 10/06/2022 11:46 AM | Related to #5574                  |
| 1505 | UmTRX                                 | Bug     | New    | High      | OHM4 footprint incorrect  |           | 02/19/2016 10:52 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 |                                   |
| 1483 | Mobile (in)Security                   | Bug     | New    | High      | USSD state is not reset when switching cells  |           | 02/21/2016 04:34 PM |                                   |
| 1481 | Mobile (in)Security                   | Bug     | New    | High      | Random LAPDm MAC-block padding is not deployed yet                                  |           | 02/21/2016 04:34 PM | Related to #5256,Related to #5257 |
| 1480 | Mobile (in)Security                   | Bug     | New    | High      | A5/3 is not deployed in GSM networks  |           | 02/21/2016 04:34 PM |                                   |
| 1510 | UmTRX                                 | Feature | New    | High      | Complete UHD integration  | ipse      | 02/21/2016 04:47 PM |                                   |
| 1508 | UmTRX                                 | Feature | New    | High      | Implement UmSEL diversity switch control  | ipse      | 02/21/2016 04:47 PM |                                   |
| 1507 | UmTRX                                 | Feature | New    | High      | Implement UmSEL tuner control   | ipse      | 02/21/2016 04:47 PM |                                   |
| 1462 | OsmocomBB                             | Bug     | New    | High      | ../src/utlils.c:182:7: error: only weak aliases are supported in this configuration |           | 02/21/2016 04:48 PM |                                   |
| 2175 | OP25                                  | Feature | New    | High      | Update code for GNURadio 3.6 and later  |           | 04/22/2017 04:14 PM |                                   |
| 2173 | OP25                                  | Feature | New    | High      | Remove dependency on ET++   |           | 04/22/2017 04:14 PM |                                   |
| 2172 | OP25                                  | Bug     | New    | High      | HDU often missing in captures   |           | 04/22/2017 04:14 PM |                                   |
| 2171 | OP25                                  | Feature | New    | High      | Use libfftw3 for IFFT/FFT functions.  |           | 04/22/2017 04:14 PM |                                   |
| 2170 | OP25                                  | Bug     | New    | High      | Implement forward error-correction code, remove IT++ dependency                     |           | 04/22/2017 04:14 PM |                                   |
| 2169 | OP25                                  | Bug     | New    | High      | First-cut of trunking support   |           | 04/22/2017 04:15 PM |                                   |
| 2168 | OP25                                  | Bug     | New    | High      | Implement Forward error correction for LDU1/2                                       |           | 04/22/2017 04:15 PM |                                   |
| 2167 | OP25                                  | Feature | New    | High      | Implement Encryption/Decryption P25 blocks  |           | 04/22/2017 04:15 PM |                                   |
| 2166 | OP25                                  | Feature | New    | High      | Add support for Max's I/Q 455khz downconverter                                      |           | 04/22/2017 04:15 PM |                                   |
| 2162 | OP25                                  | Bug     | New    | High      | Fix bit-ordering in output for VC55.  |           | 04/22/2017 04:15 PM |                                   |
| 2160 | OP25                                  | Feature | New    | High      | Add "datascope" to usrp_p25_rx.py   |           | 04/22/2017 04:16 PM |                                   |
| 2158 | OP25                                  | Feature | New    | High      | Create a shared library for decoding for WireShark and the decoder.                 |           | 04/22/2017 04:16 PM |                                   |

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| 2157 | OP25                            | Feature | New    | High     | Fix "traffic" tab so it displays data for non-HDU data units   |           | 04/22/2017 04:16 PM |                                   |
| 2156 | OP25                            | Feature | New    | High     | Implement forward error correction for HDU.  |           | 04/22/2017 04:16 PM |                                   |
| 2155 | OP25                            | Feature | New    | High     | Replace FSK4 demodulation with IQ demodulator stage.   |           | 04/22/2017 04:16 PM |                                   |
| 2824 | gr-osmosdr                      | Bug     | New    | High     | Corrupted double-linked for Raspbian Stretch when running osmoccom_fft (and any other program using osmosdr.source |           | 06/03/2018 12:08 PM |                                   |
| 3734 | gr-osmosdr                      | Bug     | New    | High     | Cannot compile gr-osmoccom   |           | 12/16/2018 12:22 AM |                                   |
| 1458 | OsmocomBB                       | Bug     | New    | High     | AGC broken (strong cell cannot be synced)  | tnt       | 07/18/2019 06:10 AM | Related to #3582                  |
| 1478 | Mobile (in)Security             | Bug     | New    | High     | IMSI DETACH DoS  |           | 09/02/2019 09:00 AM |                                   |
| 2955 | OsmoSGSN                        | Bug     | New    | High     | No GMM ATTACH REJECT on GSUP UpdateLocation Error  | lynxis    | 09/10/2019 07:39 PM |                                   |
| 3977 | OsmoCBC                         | Feature | New    | High     | SABP stream delineation routines   | laforge   | 09/23/2019 04:49 AM | Related to #3979,Related to #4944 |
| 4308 | Distributed GSM                 | Support | New    | High     | thoughts about incorporating credit / billing in D-GSM   |           | 12/04/2019 04:08 PM |                                   |
| 1560 | OsmoPCU                         | Feature | New    | High     | EDGE benchmarking / performance optimization / tuning  |           | 01/08/2020 10:31 PM |                                   |
| 1925 | OsmoPCU                         | Bug     | New    | High     | Fix padding for MCS8 transition  |           | 01/08/2020 10:31 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 |                                   |
| 4222 | OsmoSGSN                        | Bug     | New    | High     | Implement PS Paging for the Routing Areas  |           | 10/03/2020 02:20 PM | Related to #4222                  |
| 4781 | osmo-qcdiag                     | Bug     | New    | High     | get hoernchen/gsmtdp branch merged   | Hoernchen | 10/06/2020 03:18 PM |                                   |
| 4312 | OsmoHLR                         | Bug     | New    | High     | GSUP keepalives / connection loss detection  |           | 10/12/2020 02:42 PM |                                   |
| 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 |
| 4578 | Cellular Network Infrastructure | Bug     | New    | High     | Updated slides / presentations / videos on setting up Osmocom CNI  | laforge   | 02/13/2021 05:35 PM |                                   |
| 5057 | OsmoMSC                         | Bug     | New    | High     | Can only send a maximum of 15 SMPP messages?   | Hoernchen | 09/15/2021 09:53 AM |                                   |
| 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                  |
| 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 |                                   |
| 5425 | gr-osmosdr                      | Bug     | New    | High     | Problem receiving samples using dual receivers with BladeRF  |           | 01/29/2022 04:22 AM |                                   |

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| 5731 | gr-osmosdr                   | Bug     | New    | High     | Install gr-osmosdr on Ubuntu 20.04   |           | 10/27/2022 01:39 PM |                                   |
| 5571 | Ericsson RBS 6xxx            | Bug     | New    | High     | DUG can come up, but with Avail: "Power Off"   | dexter    | 11/08/2022 05:10 PM |                                   |
| 5931 | libosmo-netif                | Bug     | New    | High     | heap-use-after-free when osmo_stream_srv_destroy() is called inside read_cb()            | daniel    | 03/02/2023 11:03 AM |                                   |
| 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     |
| 6169 | osmo-e1d                     | Bug     | New    | High     | Frame masking against network frame ordering, not frame numbers                          | laforge   | 10/18/2023 03:19 PM |                                   |
| 5144 | gr-osmosdr                   | Bug     | New    | High     | Support multiple Airspy devices  | horiz0n   | 10/21/2023 07:22 PM |                                   |
| 6337 | OsmocomBB                    | Bug     | New    | High     | bad fr audio with gapk/ms-sdr  |           | 01/22/2024 09:21 PM | Related to #6337                  |
| 6436 | OsmoPCU                      | Bug     | New    | High     | high cpu usage, entire BTS unresponsive after some hours                                 | keith     | 04/13/2024 04:32 PM |                                   |
| 6294 | OsmoSGSN                     | Feature | New    | High     | Support GN/Gp interoperation procedures between SGSN and MME                             | daniel    | 04/22/2024 06:04 PM | Related to #6294,Related to #6439 |
| 1504 | UmTRX                        | Feature | New    | Normal   | LMS6002 phase error increases when Rx is enabled and varies with temperature             | ttsou     | 02/19/2016 10:52 PM |                                   |
| 1511 | UmTRX                        | Feature | New    | Normal   | Solve Tx and Rx I/Q imbalance for wideband signals                                       |           | 02/19/2016 10:52 PM |                                   |
| 1518 | UmTRX                        | Feature | New    | Normal   | Upper limit of the clock is too low  |           | 02/19/2016 10:52 PM |                                   |
| 1517 | UmTRX                        | Feature | New    | Normal   | U_FL (UMC) connectors are not reliable after few connections                             |           | 02/19/2016 10:52 PM |                                   |
| 1516 | UmTRX                        | Feature | New    | Normal   | There are no port to control external equipment like PA                                  |           | 02/19/2016 10:52 PM |                                   |
| 1515 | UmTRX                        | Feature | New    | Normal   | Heat dissipation and mounting issue  |           | 02/19/2016 10:52 PM |                                   |
| 1482 | Mobile (in)Security          | Bug     | New    | Normal   | Sending the TMSI of the old/previous network   |           | 02/21/2016 04:35 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 |                                   |
| 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 |                                   |
| 1547 | OsmoPCU                      | Feature | New    | Normal   | downlink power control on PDTCH  |           | 02/23/2016 03:04 PM |                                   |
| 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 |                                   |
| 1586 | OsmoSGSN                     | Feature | New    | Normal   | Implement QoS profile support  |           | 02/23/2016 03:45 PM |                                   |
| 1588 | OsmoSGSN                     | Feature | New    | Normal   | Inter-RAT hand-over  |           | 02/23/2016 03:46 PM |                                   |
| 1623 | OsmoSMSC                     | Feature | New    | Normal   | Configure delivery report for the SMPP delivery links                                    | zecke     | 02/24/2016 01:49 PM |                                   |
| 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 |                                   |
| 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 |                                   |

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| 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 |
| 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 |                                 |
| 1832 | Linux Kernel GTP-U                                     | Feature | New    | Normal   | OpenvSwitch GTP-u patch for 2.5  |          | 10/27/2016 08:56 AM |                                 |
| 1901 | osmo-qcdiag  | Feature | New    | Normal   | osmo-qcdiag: Ability to read/write NV data                                     |          | 01/11/2017 12:15 PM |                                 |
| 1900 | osmo-qcdiag  | Feature | New    | Normal   | osmo-qcdiag: Add FUSE based access for EFS                                     |          | 01/11/2017 12:15 PM |                                 |
| 1899 | osmo-qcdiag  | Bug     | New    | Normal   | osmo-qcdiag: DIAG based pcap tracing (DPL) not working                         |          | 01/11/2017 12:15 PM |                                 |
| 1908 | osmo-qcdiag  | Feature | New    | Normal   | add VTY interface to osmo-qcdiag   | laforge  | 01/12/2017 01:15 PM |                                 |
| 1907 | osmo-qcdiag  | Bug     | New    | Normal   | osmo-qcdiag detects CRC errors relatively often                                |          | 01/23/2017 01:47 AM |                                 |
| 1549 | OsmoPCU  | Feature | New    | Normal   | DRX support for GPRS   |          | 02/04/2017 08:11 AM | Related to #1942                |
| 2179 | Osmocom Conferences (OsmoDevCon, OsmoCon, OsmoDevCall) | Bug     | New    | Normal   | no sign about OsmoCon outside of venue   |          | 04/24/2017 07:10 PM |                                 |
| 2224 | SDR (Software Defined Radio)                           | Feature | New    | Normal   | New Fospor Benchmark Performance   |          | 05/04/2017 01:23 PM |                                 |
| 2292 | Osmocom Conferences (OsmoDevCon, OsmoCon, OsmoDevCall) | Bug     | New    | Normal   | Time with community users during OsmoCon                                       |          | 05/25/2017 03:03 PM |                                 |
| 2311 | OsmoGSMTester  | Feature | New    | Normal   | osmo-gsm-tester: add test case: smpp: smpp_first feature                       |          | 05/31/2017 04:21 PM |                                 |
| 2313 | OsmoGSMTester  | Feature | New    | Normal   | osmo-gsm-tester: add test case: smpp: imsi extension                           |          | 05/31/2017 04:27 PM |                                 |
| 2314 | OsmoGSMTester  | Feature | New    | Normal   | osmo-gsm-tester: add test case: smpp: correct ESME routing                     |          | 05/31/2017 04:29 PM |                                 |
| 2318 | OsmoGSMTester  | Feature | New    | Normal   | testing sysmobts: skip copying of binaries when the same are already installed |          | 06/07/2017 03:55 PM |                                 |
| 2259 | libosmo-sccp + libosmo-sigtran                         | Bug     | New    | Normal   | problem with local reference   | laforge  | 07/19/2017 04:25 PM |                                 |
| 2399 | OsmoGSMTester  | Feature | New    | Normal   | add tests for graceful restart of individual components                        |          | 07/25/2017 12:02 AM |                                 |
| 2431 | OsmoGSMTester  | Bug     | New    | Normal   | osmo-gsm-tester: add test case: MS sends SMS to ESME                           |          | 08/10/2017 03:47 PM |                                 |
| 2374 | OsmoGSMTester  | Feature | New    | Normal   | osmo-gsm-tester: add test case: sms between MS with delivery report            |          | 08/10/2017 04:37 PM |                                 |
| 2438 | OsmoNITB   | Bug     | New    | Normal   | MS not registered from osmocom PoV, but registered from ofono PoV              |          | 08/14/2017 09:36 AM |                                 |

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| 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 |
| 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 |                                   |
| 1916 | OsmocomBB                    | Bug     | New    | Normal   | building GNU ARM toolchain with gcc-4.8 fails on modern texinfo                       |          | 10/16/2017 02:14 PM |                                   |
| 2615 | OsmoGSMTester                | Bug     | New    | Normal   | Add API to check GPS lock in BTS  |          | 11/03/2017 05:00 PM |                                   |
| 2189 | OsmoGSMTester                | Bug     | New    | Normal   | ofono: EC20: cannot send SMS  | lynxis   | 11/28/2017 04:21 PM |                                   |
| 2690 | OsmocomBB                    | Bug     | New    | Normal   | ASAN issue on shutdown/no shutdown SYSINFO access                                     |          | 11/29/2017 09:33 AM |                                   |
| 2694 | OsmocomBB                    | Bug     | New    | Normal   | SIGSEGV in lapdm code   |          | 11/30/2017 08:45 AM | Related to #2694                  |
| 2697 | osmo-qcdiag                  | Feature | New    | Normal   | Create and add debian packages for osmo-qcdiag to osmocom debian repositories         |          | 11/30/2017 06:03 PM |                                   |
| 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 |                                   |
| 1858 | OsmoBSC                      | Feature | New    | Normal   | make BSC also generate ALERTs   |          | 12/10/2017 07:59 PM |                                   |
| 1857 | OsmoBSC                      | Feature | New    | Normal   | aggregate and report OML ALERT messages received from BTSs                            |          | 12/10/2017 08:16 PM | Related to #1615,Related to #1605 |
| 34   | OsmoBSC                      | Bug     | New    | Normal   | ipaccess init code needs proper state machines  |          | 12/10/2017 08:16 PM | Related to #34                    |
| 2230 | OsmoGSMTester                | Feature | New    | Normal   | osmo-gsm-tester: arfcn as resource  |          | 12/14/2017 04:08 PM | Related to #2230                  |
| 2764 | SDR (Software Defined Radio) | Support | New    | Normal   | osmocom_fft & siggen can't access the X display                                       |          | 12/15/2017 06:09 PM |                                   |
| 2390 | OsmoMSC                      | Feature | New    | Normal   | re-add osmocom specific TLVs to SMPP messages   |          | 12/23/2017 05:48 PM |                                   |
| 2191 | OsmoMSC                      | Feature | New    | Normal   | raw PDU mode for SMPP   |          | 12/23/2017 05:48 PM |                                   |
| 2798 | linmodem                     | Feature | New    | Normal   | ALSA Soundcard Support  |          | 01/01/2018 12:02 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 |                                   |
| 2808 | Z-Netz                       | Bug     | New    | Normal   | Create + Document VM/emulation setup for running ZERBERUS                             |          | 01/01/2018 01:09 PM |                                   |
| 2809 | Z-Netz                       | Bug     | New    | Normal   | Build ZConnect <-> UseNet gateway   |          | 01/01/2018 01:33 PM |                                   |
| 2813 | Z-Netz                       | Feature | New    | Normal   | Create + Document OpenXP setup on Linux   |          | 01/01/2018 01:41 PM |                                   |
| 2814 | Z-Netz                       | Feature | New    | Normal   | Create + Document classic CrossPoint setup on DOS (dosemu)                            |          | 01/01/2018 01:41 PM |                                   |
| 2815 | linmodem                     | Feature | New    | Normal   | modern ptmx / pty handling (UNIX 98)  |          | 01/01/2018 02:48 PM |                                   |
| 2788 | OsmoMSC                      | Feature | New    | Normal   | OsmoMSC should handle CM Service Abort message  | neels    | 01/04/2018 10:37 AM |                                   |
| 2724 | OsmoBSC                      | Feature | New    | Normal   | Improve default timers  | laforge  | 01/04/2018 11:06 AM | Related to #2724                  |
| 2916 | OsmoMSC                      | Bug     | New    | Normal   | asan failure on debian unstable in msc_vlr_test_gsm_ciph                              |          | 02/09/2018 04:20 PM |                                   |

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| 2928 | OsmoMSC  | Bug     | New    | Normal   | OsmoMSC doesn't do BSSMAP ASSIGNMENT if no MNCC_RTP_CREATE is received                          |          | 02/11/2018 05:38 PM |                                    |
| 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 |
| 2382 | OsmoBSC  | Bug     | New    | Normal   | T3105 not consistently communicated to all BTS models   |          | 03/05/2018 07:02 PM |                                    |
| 1955 | OsmoNITB   | Bug     | New    | Normal   | Investigate "Bad signalling message" error  |          | 03/05/2018 07:33 PM |                                    |
| 1904 | OsmoNITB   | Bug     | New    | Normal   | get rid of deprecated functions   |          | 03/05/2018 07:33 PM |                                    |
| 1829 | OsmoNITB   | Bug     | New    | Normal   | Fix warnings introduced by ctrl constify  |          | 03/05/2018 07:34 PM |                                    |
| 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 |                                    |
| 48   | OsmoNITB   | Bug     | New    | Normal   | Periodic timer and paging   |          | 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 |                                    |
| 37   | OsmoNITB   | Bug     | New    | Normal   | RTP Proxy dealing with SSRC change and sequence numbers   |          | 03/05/2018 07:34 PM |                                    |
| 3038 | multi-voltage USB UART                                 | Feature | New    | Normal   | Add mounting holes?   |          | 03/07/2018 02:12 AM |                                    |
| 3067 | OsmoTRX  | Bug     | New    | Normal   | osmo-trx usrp b100 time out and packet loss between host and device                             | ttso     | 03/15/2018 06:36 PM |                                    |
| 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 |                                    |
| 3097 | OsmoBSC  | Feature | New    | Normal   | ramping of "rxlev access min"   |          | 03/22/2018 11:51 AM | Related to #3097                   |
| 3141 | OsmoTRX  | Bug     | New    | Normal   | Refactor / clean up TRX CTRL / DATA interfaces implementation                                   |          | 04/05/2018 05:46 PM |                                    |
| 2646 | OsmoGSMTester  | Feature | New    | Normal   | osmo-gsm-tester: Add osmo-sip-connector support   |          | 04/23/2018 10:40 AM |                                    |
| 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 |                                    |
| 2795 | OsmoMSC  | Feature | New    | Normal   | Handle UTRAN_CLSM_CHG in MSC  | neels    | 04/30/2018 12:06 PM | Related to #3043                   |
| 3243 | OsmoBSC  | Bug     | New    | Normal   | there is MGW config for each separate 'msc', but the MGW settings are stored only once globally |          | 05/07/2018 03:10 PM |                                    |
| 3309 | libosmocore  | Feature | New    | Normal   | osmo_timer_* should use monotonic clock   |          | 05/31/2018 03:59 PM | Related to #3309                   |
| 3240 | gr-osmosdr   | Bug     | New    | Normal   | Expose airspy gain setting in gr-osmosdr block  |          | 06/03/2018 12:08 PM |                                    |
| 2216 | gr-osmosdr   | Bug     | New    | Normal   | uhd: LO offset doesn't seem to work properly  |          | 06/03/2018 12:08 PM |                                    |
| 2607 | rtl-sdr  | Bug     | New    | Normal   | rtl-sdr gnuradio cfile is outdated  |          | 06/03/2018 12:23 PM |                                    |

| #    | Project      | Tracker | Status | Priority | Subject   | Assignee   | Updated             | Related issues   |
|------|--------------|---------|--------|----------|---|------------|---------------------|------------------|
| 1983 | rtl-sdr      | Support | New    | Normal   | Add welle.io and rtl_fm_streamer to rtl-sdr app list                            |            | 06/03/2018 12:24 PM |                  |
| 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 |
| 3344 | OsmoTRX      | Feature | New    | Normal   | merge ttsou/siggen  |            | 06/13/2018 07:26 PM |                  |
| 41   | OsmoMSC      | Bug     | New    | Normal   | Numbering Plan in OsmoMSC   |            | 06/23/2018 07:37 PM |                  |
| 2383 | OsmoPCU      | Bug     | New    | Normal   | incompatibility with some SGSNs during P-TMSI allocation                        | laforge    | 07/04/2018 12:50 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 |                  |
| 3414 | gr-osmosdr   | Feature | New    | Normal   | Include Airspy serial number in connection string.                              | horiz0n    | 07/24/2018 04:52 AM |                  |
| 3371 | SIMtrace 2   | Feature | New    | Normal   | migrate to use arm-none-eabi build of libosmocore.git                           | laforge    | 08/09/2018 12:14 PM |                  |
| 3479 | OsmoBSC      | Feature | New    | Normal   | test "every single failure" in osmo-bsc FSMs                                    |            | 08/20/2018 11:15 AM | Related to #3479 |
| 3505 | OsmoBSC      | Feature | New    | Normal   | ttcn3: test inter-BSC HO with encryption enabled                                | neels      | 08/28/2018 06:38 PM | Related to #3505 |
| 3521 | libosmocore  | Feature | New    | Normal   | core/utlis: engineering notation helpers  | fixeria    | 09/04/2018 08:32 PM |                  |
| 1911 | SIMtrace 2   | Feature | New    | Normal   | check if we can have an enclosed version of simtrace v2                         | tsaitgaist | 09/13/2018 12:40 PM |                  |
| 3588 | rtl-sdr      | Bug     | New    | Normal   | Error Values Inconsistent   |            | 09/25/2018 12:47 PM |                  |
| 3589 | rtl-sdr      | Bug     | New    | Normal   | Zerocopy Buffers Unusable Outside Callback Without memcpy()                     |            | 09/25/2018 12:58 PM |                  |
| 3590 | rtl-sdr      | Bug     | New    | Normal   | Key Functions Missing Documentation   |            | 09/25/2018 01:04 PM |                  |
| 3591 | rtl-sdr      | Bug     | New    | Normal   | No Way To Detect Occasional Failed Bulk Transfers                               |            | 09/25/2018 01:29 PM |                  |
| 3594 | gr-osmosdr   | Feature | New    | Normal   | Message Commands  |            | 09/25/2018 03:59 PM |                  |
| 3595 | gr-osmosdr   | Feature | New    | Normal   | RX Tags   |            | 09/25/2018 04:01 PM |                  |
| 3596 | gr-osmosdr   | Feature | New    | Normal   | TX Tags   |            | 09/25/2018 04:01 PM |                  |
| 3110 | OsmoMSC      | Bug     | New    | Normal   | Test and possibly fix ID Request after Auth failure                             | neels      | 09/30/2018 11:36 AM |                  |
| 3622 | libosmo-abis | Bug     | New    | Normal   | Clear API mess in sign_link_up callback   | pespin     | 10/02/2018 07:34 PM |                  |
| 3607 | OsmoSTP      | Feature | New    | Normal   | Support for capability point codes  |            | 10/03/2018 08:58 AM |                  |
| 3606 | OsmoSTP      | Feature | New    | Normal   | Support for multiple NI (network indicator)                                     |            | 10/03/2018 08:58 AM |                  |
| 3629 | OsmocomBB    | Bug     | New    | Normal   | mobile aborting after 'test re-selection 1' on vty                              |            | 10/04/2018 02:58 PM |                  |
| 3636 | OsmoMSC      | Feature | New    | Normal   | detailed call statistics (with rate counters)                                   | osmith     | 10/08/2018 11:14 AM | Related to #3636 |
| 3652 | OsmocomBB    | Bug     | New    | Normal   | Incorrect IMEISV setting in mobile application                                  |            | 10/12/2018 08:20 PM |                  |
| 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 |
| 3663 | gr-osmosdr   | Bug     | New    | Normal   | Can't compile gr-osmosdr on macOS Mojave  |            | 10/19/2018 02:37 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 |

| #    | Project                      | Tracker | Status | Priority | Subject   | Assignee | Updated             | Related issues                    |
|------|------------------------------|---------|--------|----------|---|----------|---------------------|-----------------------------------|
| 2378 | OsmocomBB                    | Feature | New    | Normal   | Remove copy-pasted libosmocore ("git subtree") from osmocom-bb.git                                      |          | 10/24/2018 02:13 PM |                                   |
| 3687 | OsmoMSC                      | Feature | New    | Normal   | Expand "show bsc" command   |          | 11/11/2018 09:50 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 |
| 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 |                                   |
| 3747 | UmTRX                        | Feature | New    | Normal   | LMS6002D RX Gain Control  | ipse     | 01/08/2019 09:46 AM |                                   |
| 3586 | OsmoBSC                      | Feature | New    | Normal   | support LCLS for inter-BSC handover   | neels    | 01/17/2019 04:18 PM | Related to #3586,Related to #3659 |
| 3763 | osmo-sip-connector           | Bug     | New    | Normal   | Implement correct handling for call answered elsewhere  |          | 01/22/2019 01:03 PM |                                   |
| 3512 | gr-osmosdr                   | Support | New    | Normal   | Bug #3462 on Arch Linux; gr-osmosdr install fails   | horiz0n  | 01/26/2019 06:10 PM |                                   |
| 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 |                                   |
| 3814 | OsmoBSC                      | Bug     | New    | Normal   | MS Power Control Problem with Osmo-BSC and nanoBTS  |          | 02/24/2019 01:15 AM |                                   |
| 3817 | SDR (Software Defined Radio) | Bug     | New    | Normal   | Unable to use fospor display on Ubuntu 18.10  |          | 02/26/2019 06:56 PM |                                   |
| 3829 | OsmoMSC                      | Bug     | New    | Normal   | osmo-msc expects aoip TLV in Assignement Complete messages from BSC                                     |          | 03/07/2019 08:30 PM |                                   |
| 3872 | OsmoBSC                      | Feature | New    | Normal   | osmo_scu_prim.conn_id should be picked from a distinct number space for outgoing and incoming N-CONNECT | osmith   | 03/28/2019 08:06 PM | Blocks #3872                      |
| 3880 | OsmoMSC                      | Bug     | New    | Normal   | GSUP MT-ForwardSM Message Reference - wrong value in a response   |          | 04/01/2019 07:47 AM |                                   |
| 3885 | osmo-remsim                  | Feature | New    | Normal   | remsim-server should expose status information  | laforge  | 04/01/2019 07:23 PM | Precedes #3885                    |
| 1479 | Mobile (in)Security          | Bug     | New    | Normal   | MTK stack unable to send MO-SMS on TCH/F  |          | 04/03/2019 09:01 AM |                                   |
| 3689 | OsmoSGSN                     | Bug     | New    | Normal   | Support Cisco GGSN (Cisco 7200 with IOS 12.4.x)   |          | 04/09/2019 11:21 AM |                                   |
| 3940 | OsmoSGSN                     | Bug     | New    | Normal   | TTCN-3: lu: test UMTS Auth  |          | 04/24/2019 08:24 AM |                                   |
| 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 |                                   |
| 3923 | OsmoSGSN                     | Bug     | New    | Normal   | lu: Respond to SecurityCommandReject messages   |          | 04/24/2019 08:26 AM | Related to #3923                  |
| 3980 | OsmoMGW                      | Bug     | New    | Normal   | Clear Command before CRCX OK may leak MGW endpoint  |          | 05/06/2019 10:11 PM |                                   |
| 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                  |
| 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                    |



| #    | Project                               | Tracker | Status | Priority | Subject   | Assignee  | Updated             | Related issues                                 |
|------|---------------------------------------|---------|--------|----------|---|-----------|---------------------|--|
| 3884 | osmo-remsim                           | Feature | New    | Normal   | redesign bankd thread architecture  | laforge   | 05/08/2019 03:31 PM | Related to #5527,Precedes #3885,Precedes #3886 |
| 3992 | OsmoMSC                               | Bug     | New    | Normal   | inter-MSC handover for signalling-only?   |           | 05/09/2019 11:39 AM |  |
| 3020 | OsmoBSC                               | Bug     | New    | Normal   | OsmoBSC PCU socket interface not yet tested by BSC_Tests.ttcn                                 | laforge   | 05/21/2019 06:29 PM |  |
| 4018 | OsmoPCU                               | Bug     | New    | Normal   | investigate ordering of includes paths  |           | 05/23/2019 10:59 AM |  |
| 4017 | OsmoMSC                               | Bug     | New    | Normal   | MSC fails to handle calls   |           | 05/29/2019 04:56 PM |  |
| 4033 | OsmoGGSN (former OpenGGSN)            | Feature | New    | Normal   | ttcn3-ggsn-test: Add tests to verify secondary pdp context management                         |           | 05/30/2019 03:19 PM |  |
| 4065 | OsmoMSC                               | Feature | New    | Normal   | osmo-msc: Support instructing MSC_MGW to use Osmux between 2 endp/call-leg of same voice call | pespin    | 06/19/2019 04:54 PM | Related to #4065                               |
| 3557 | OsmocomBB                             | Bug     | New    | Normal   | trxcon: decoding errors after applying a new TCH mode   | fixeria   | 06/21/2019 11:56 AM |  |
| 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 |  |
| 3776 | OP25                                  | Bug     | New    | Normal   | Build fail using gcc version 7.3.0 Ubuntu 18.04.1 LTS   |           | 07/05/2019 07:12 PM |  |
| 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                               |
| 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 |  |
| 3462 | gr-osmosdr                            | Bug     | New    | Normal   | gr-osmosdr installation bladerf conversion errors   | horiz0n   | 07/18/2019 05:35 AM |  |
| 3592 | gr-osmosdr                            | Bug     | New    | Normal   | rtl: Race Conditions  | horiz0n   | 07/18/2019 05:35 AM |  |
| 4098 | gr-osmosdr                            | Bug     | New    | Normal   | [BladeRF micro] Arguments set in osmocom Sink and Source are not passed to libbladerf         | horiz0n   | 07/18/2019 05:35 AM |  |
| 3882 | gr-osmosdr                            | Bug     | New    | Normal   | Cannot compile gr-osmosdr!  | horiz0n   | 07/18/2019 05:35 AM |  |
| 2895 | OsmoMSC                               | Bug     | New    | Normal   | OsmoMSC excessively uses LU Reject Cause 22 (congestion)                                      | osmith    | 07/18/2019 05:41 AM |  |
| 2846 | OsmoMSC                               | Bug     | New    | Normal   | MSC doesn't close SCCP/BSSAP connection on CM SERV REQ tth cannot be parsed                   | osmith    | 07/18/2019 05:44 AM |  |
| 2877 | OsmoMSC                               | Bug     | New    | Normal   | OsmoMSC fails on bearer capability without octet 3a   | osmith    | 07/18/2019 05:45 AM |  |
| 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 |  |
| 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 |  |

| #    | Project                         | Tracker | Status | Priority | Subject  | Assignee | Updated             | Related issues                                     |
|------|---------------------------------|---------|--------|----------|--|----------|---------------------|--|
| 4141 | Cellular Network Infrastructure | Bug     | New    | Normal   | No osmux specific code in place during codec negotiation   |          | 08/05/2019 03:57 PM |  |
| 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 |  |
| 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 |  |
| 4172 | OsmoGGSN (former OpenGGSN)      | Bug     | New    | Normal   | osmoggsn crashes when stopping   |          | 08/29/2019 11:35 AM |  |
| 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                  |
| 2677 | libosmocore                     | Support | New    | Normal   | Make stat_item available over ctrl interface   |          | 09/04/2019 09:21 AM | Related to #2676                                   |
| 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 |  |
| 3442 | OsmoMGW                         | Bug     | New    | Normal   | fix int mgcp_codec_decide() in mgcp_codec.c  |          | 09/04/2019 09:26 AM |  |
| 3849 | OsmoMGW                         | Bug     | New    | Normal   | race condition problem in rtp flow tests of the ttcn3 testsuite  |          | 09/04/2019 09:26 AM |  |
| 1667 | OsmoNITB                        | Feature | New    | Normal   | Handle callref better  |          | 09/04/2019 09:31 AM | Related to #3294                                   |
| 4196 | OsmoMSC                         | Feature | New    | Normal   | CC Setup, Call Confirmed: decode and use the Supported Codec List IE   |          | 09/25/2019 05:27 PM |  |
| 3964 | OsmoSGSN                        | Bug     | New    | Normal   | SIGSEGV in sndcp_sm_deactivate_ind()   |          | 10/10/2019 07:11 PM | Related to #3964,Related to #4221,Related to #4602 |
| 4225 | OP25                            | Support | New    | Normal   | Missing rules in cmake lists?  | 2CS350   | 10/12/2019 02:49 PM |  |
| 4265 | libosmocore                     | Bug     | New    | Normal   | --enable-embedded doesn't work as expected   |          | 11/12/2019 11:18 AM |  |
| 4082 | OsmoBTS                         | Bug     | New    | Normal   | OML: Unknown/unhandled PCHAN type: 0 NONE  |          | 11/18/2019 10:09 AM |  |
| 3227 | Cellular Network Infrastructure | Feature | New    | Normal   | general idea: separate GSUP spec document  | roh      | 12/01/2019 09:26 AM | Is duplicate of #3227                              |
| 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                  |
| 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                  |
| 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                                       |
| 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 |  |

| #    | Project                | Tracker | Status | Priority | Subject   | Assignee   | Updated             | Related issues                                     |
|------|------------------------|---------|--------|----------|---|------------|---------------------|--|
| 1987 | libosmocore            | Feature | New    | Normal   | gcov code coverage test support   |            | 12/01/2019 01:42 PM | Related to #1987,Is duplicate of #1987             |
| 2861 | OsmoGSMTester          | Feature | New    | Normal   | osmo-gsm-tester: Add 3g support for sysmocell-5k                              |            | 12/02/2019 01:36 PM | Related to #2860                                   |
| 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                  |
| 4041 | SIMtrace 2             | Bug     | New    | Normal   | implement SIMTRACE_CMD_BD_BOARD_INFO  | laforge    | 12/06/2019 01:38 PM | Related to #4041                                   |
| 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                  |
| 3847 | Miscellaneous Projects | Feature | New    | Normal   | Osmocom logo with/for black background  | tsaitgaist | 12/10/2019 11:53 AM |  |
| 4325 | gr-osmosdr             | Bug     | New    | Normal   | can't open hackrf_sink with device index                                      |            | 12/13/2019 09:18 AM |  |
| 2799 | linmodem               | Feature | New    | Normal   | SIP client support  |            | 01/01/2020 08:05 PM |  |
| 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                                   |
| 3731 | OsmoMGW                | Bug     | New    | Normal   | TTCN3 TC_rtpem_selftest randomly fails  |            | 01/08/2020 10:18 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                                   |
| 2941 | OsmoGSMTester          | Bug     | New    | Normal   | ofono: SierraW sometimes crashing while deactivating a context.               |            | 01/08/2020 10:40 PM |  |
| 2621 | OsmoGSMTester          | Bug     | New    | Normal   | Gobi2000: might stopped working because all CID got assigned                  |            | 01/08/2020 10:40 PM |  |
| 3046 | OsmoGSMTester          | Bug     | New    | Normal   | ofono: SierraW modem fails to power on  |            | 01/08/2020 10:41 PM |  |
| 3564 | OsmoGSMTester          | Feature | New    | Normal   | Investigate ofono and modems Cell Broadcast support                           |            | 01/08/2020 10:42 PM | Related to #3564                                   |
| 1543 | OsmoPCU                | Feature | New    | Normal   | link/rate adaption as per spec  |            | 01/08/2020 10:43 PM | Related to #1543,Related to #1543                  |
| 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                  |
| 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 |
| 2953 | OsmoSGSN               | Bug     | New    | Normal   | No timeout waiting for UpdateLocation Response on GSUP                        |            | 01/08/2020 10:47 PM | Related to #2952                                   |
| 2957 | OsmoSGSN               | Bug     | New    | Normal   | No timeout during GSUP PURGE MS to HLR  |            | 01/08/2020 10:47 PM |  |
| 2962 | OsmoSGSN               | Bug     | New    | Normal   | Missing TTCN-3 test cases   |            | 01/08/2020 10:47 PM |  |
| 3696 | OsmoSGSN               | Bug     | New    | Normal   | Intermittent Connection Drop  |            | 01/08/2020 10:48 PM |  |
| 2960 | OsmoSGSN               | Bug     | New    | Normal   | OsmoSGSN confirms PDP CTX ACT to MS/Gb despite missing conditional IEs on GTP |            | 01/08/2020 10:48 PM |  |

| #    | Project                         | Tracker | Status | Priority | Subject   | Assignee | Updated             | Related issues                    |
|------|---------------------------------|---------|--------|----------|---|----------|---------------------|-----------------------------------|
| 3224 | OsmoSGSN                        | Bug     | New    | Normal   | verify ciphering after UMTS AKA   |          | 01/08/2020 10:48 PM | Related to #3193,Related to #3224 |
| 1812 | OsmoNITB                        | Feature | New    | Normal   | Report gsm0408_dispatch() failures to MS / UE   |          | 01/08/2020 10:56 PM |                                   |
| 2305 | OsmoSGSN                        | Bug     | New    | Normal   | review 'laforge/santos' branch and check if there are pending fixes   |          | 01/08/2020 10:56 PM |                                   |
| 3931 | OsmoGSMTester                   | Support | New    | Normal   | Contact quectel to get info about modem updates (hopefully less crashes)  |          | 01/08/2020 10:56 PM | Related to #3931                  |
| 4124 | OsmoBSCNAT                      | Feature | New    | Normal   | OsmoBSCNAT : Write user manual  |          | 01/08/2020 10:56 PM | Related to #4124                  |
| 4310 | osmo-sip-connector              | Bug     | New    | Normal   | sends BYE to self   |          | 01/09/2020 09:21 AM |                                   |
| 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 |                                   |
| 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 |                                   |
| 4415 | OsmoGGSN (former OpenGGSN)      | Feature | New    | Normal   | Document in OsmoGGSN User Manual the IPv6 allocation process over GTP   |          | 02/25/2020 03:05 PM |                                   |
| 3666 | OsmocomBB                       | Feature | New    | Normal   | trxcon: Introduce VTY interface   | fixeria  | 02/26/2020 02:43 PM | Related to #3667                  |
| 4418 | OsmocomBB                       | Feature | New    | Normal   | test-sim: support all libosmocore algorithms (comp128 v1, v2, v3; MILENAGE)   |          | 02/26/2020 11:41 PM |                                   |
| 2379 | OsmocomBB                       | Feature | New    | Normal   | package as .deb   |          | 02/27/2020 02:39 PM |                                   |
| 4427 | rtl-sdr                         | Bug     | New    | Normal   | docker + rtl_sdr issue  |          | 02/29/2020 01:16 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   | vtv 'show stats level': different stats levels yield identical results  |          | 03/09/2020 10:10 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 |                                   |
| 4455 | OP25                            | Feature | New    | Normal   | AMBE CODEC  |          | 03/28/2020 09:53 PM |                                   |

| #    | Project                      | Tracker | Status | Priority | Subject  | Assignee  | Updated             | Related issues            |
|------|------------------------------|---------|--------|----------|--|-----------|---------------------|---------------------------|
| 4471 | OsmocomBB                    | Support | New    | Normal   | Received FTMT00L from phone, ramloader has aborted   |           | 03/29/2020 11:18 AM |                           |
| 2504 | OsmoGSMTester                | Support | New    | Normal   | check whether running osmo-* from docker images is feasible on osmo-gsm-tester                     |           | 04/06/2020 11:28 AM |                           |
| 3917 | OsmoGSMTester                | Bug     | New    | Normal   | ofono: update debian packages to match our dependencies  |           | 04/06/2020 11:30 AM |                           |
| 4484 | gr-osmosdr                   | Bug     | New    | Normal   | CMakeFiles.txt   |           | 04/06/2020 05:19 PM |                           |
| 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 |                           |
| 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          |
| 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          |
| 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          |
| 4486 | IMSI Pseudonymization        | Feature | New    | Normal   | Applet: gracefully handle case where timer is set twice  |           | 04/16/2020 08:45 AM |                           |
| 4477 | IMSI Pseudonymization        | Feature | New    | Normal   | OsmoHLR: send next pseudo IMSI via SMS   |           | 04/16/2020 08:45 AM | Blocks #4477,Blocks #4477 |
| 4498 | osmo-uecups                  | Feature | New    | Normal   | IPv6 neighbor discovery  | laforge   | 04/17/2020 08:33 AM |                           |
| 4513 | rtl-sdr                      | Bug     | New    | Normal   | PKG information broken   |           | 04/26/2020 03:21 PM |                           |
| 4525 | Cellular Modem Information   | Feature | New    | Normal   | MTK  |           | 05/03/2020 03:57 PM | Is duplicate of #4525     |
| 4538 | OsmoBSC                      | Bug     | New    | Normal   | timeslot_fsm.c: make the PDCH act/deact timeout configurable                                       |           | 05/09/2020 08:20 PM | Related to #4539          |
| 3815 | SIMtrace 2                   | Bug     | New    | Normal   | simtrace2 fails USB-IF CH9 test  | Hoernchen | 05/12/2020 07:24 PM |                           |
| 4551 | OsmoMGW                      | Feature | New    | Normal   | Dynamic/runtime allocation of new endpoints  |           | 05/14/2020 10:56 PM |                           |
| 4552 | OsmoMGW                      | Bug     | New    | Normal   | ip-probing issue with BTS connection - no rebinding to a correct IP address                        |           | 05/14/2020 11:18 PM |                           |
| 4553 | OsmoBSC                      | Bug     | New    | Normal   | OsmoBSC doesn't handle RESET IP RESOURCE BSSMAP message  |           | 05/16/2020 07:44 PM |                           |
| 4554 | OsmoMGW                      | Bug     | New    | Normal   | Clean up stale endpoints after OsmoBSC crash   |           | 05/16/2020 08:52 PM |                           |
| 4557 | OsmoMSC                      | Bug     | New    | Normal   | normal BSSMAP Clear Command from MSC contains cause == 0 meaning "Radio interface message failure" |           | 05/20/2020 07:17 PM |                           |
| 4560 | OsmoBSC                      | Bug     | New    | Normal   | inter-BSC HO: target cell fails when there is no TCH, only dynamic TCH/F_PDCH timeslots            | neels     | 05/20/2020 09:00 PM |                           |
| 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 |                           |
| 4580 | SDR (Software Defined Radio) | Feature | New    | Normal   | gr-osmosdr compilation under GnuRadio 3.9.0  |           | 06/04/2020 01:13 AM |                           |

| #    | Project                         | Tracker | Status | Priority | Subject   | Assignee | Updated             | Related issues  |
|------|---------------------------------|---------|--------|----------|---|----------|---------------------|---|
| 4581 | OsmocomBB                       | Support | New    | Normal   | compiler error assert.h no such file  |          | 06/05/2020 09:54 AM |   |
| 4589 | OsmoBSC                         | Bug     | New    | Normal   | osmo-bsc crashes with "lchan allocation failed in state WAIT_RF_RELEASE_ACK: Timeout"           |          | 06/06/2020 10:40 PM |   |
| 4593 | OP25                            | Support | New    | Normal   | Link to samples on the wiki is dead   | matt     | 06/07/2020 06:53 PM |   |
| 2650 | OsmoMGW                         | Bug     | New    | Normal   | how can osmo-mgw send a dummy RTP packet before CRCX ACK?                                       |          | 06/08/2020 07:08 PM | Related to #4005  |
| 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                                   |
| 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  |
| 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 |   |
| 3676 | OsmoGSMTester                   | Bug     | New    | Normal   | ofono: org.ofono.ConnectionManager property Bearer returning "none"                             |          | 06/09/2020 08:39 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                  |
| 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 |
| 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 |   |
| 4604 | OsmoSGSN                        | Bug     | New    | Normal   | Lots of "Unusual event"   | lynxis   | 06/13/2020 06:19 PM | Related to #4604,Related to #4604,Related to #4604,Related to #4604 |
| 4612 | OsmoMSC                         | Support | New    | Normal   | test handover on non-voice call conn (no CC transaction present)                                |          | 06/14/2020 12:21 PM |   |
| 3929 | OsmoPCU                         | Bug     | New    | Normal   | Missing PCU_Tests.ttcn link adaptation tests  | pespin   | 06/17/2020 08:32 AM | Related to #3929  |
| 4565 | OsmoHLR                         | Bug     | New    | Normal   | TTCN-3 testsuite: mDNS_UDP: maximum number of open file descriptors is greater than FD_SETSIZE  | fixeria  | 06/17/2020 09:28 AM |   |
| 4536 | OsmoBSC                         | Feature | New    | Normal   | Multi BTS support within a single physical device   |          | 06/21/2020 01:10 PM |   |
| 4632 | OsmoMSC                         | Feature | New    | Normal   | update the cell id in the VLR when receiving BSSMAP HANDOVER PERFORMED from the BSC             |          | 06/24/2020 12:35 PM | Related to #4632  |
| 4633 | OsmoMSC                         | Feature | New    | Normal   | update the Cell ID in the VLR after an inter-BSC / inter-MSC handover                           |          | 06/24/2020 12:40 PM |   |

| #    | Project                        | Tracker | Status | Priority | Subject   | Assignee  | Updated             | Related issues                    |
|------|--------------------------------|---------|--------|----------|---|-----------|---------------------|-----------------------------------|
| 4635 | libosmo-sccp + libosmo-sigtran | Feature | New    | Normal   | quirks when initializing SS7 ASP  |           | 06/25/2020 04:46 PM | Related to #4635                  |
| 4637 | OsmoTRX                        | Bug     | New    | Normal   | limesdr usb gain setting changes break gsm phasenoise constraints   |           | 06/29/2020 04:43 PM |                                   |
| 4645 | OsmoBSC                        | Bug     | New    | Normal   | OM2K: "Sequence Error" due to too early initialization of RSL during BTS start                                    | laforge   | 07/04/2020 07:24 PM |                                   |
| 4650 | OsmoBSC                        | Feature | New    | Normal   | Add BIG FAT error message in case OM2000 BTS fail to start up   | laforge   | 07/04/2020 07:30 PM |                                   |
| 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 |                                   |
| 4653 | SDR (Software Defined Radio)   | Bug     | New    | Normal   | cannot import name 'fospor'   |           | 07/07/2020 02:39 AM |                                   |
| 4660 | OsmoMSC                        | Bug     | New    | Normal   | GSM AUTH failure: mismatching sres - with module TRM-5 ext  |           | 07/12/2020 08:01 PM |                                   |
| 3855 | gr-osmosdr                     | Bug     | New    | Normal   | Cannot build gr-osmosdr with Gnuradio 3.8   | horiz0n   | 07/13/2020 10:05 PM |                                   |
| 4677 | SDR (Software Defined Radio)   | Bug     | New    | Normal   | fopher crash on OSX with Qt   |           | 07/27/2020 03:27 AM |                                   |
| 4683 | OsmoBSC                        | Bug     | New    | Normal   | properly report OM2000 bring-up problems  | laforge   | 07/30/2020 06:50 AM | Related to #4683,Related to #6378 |
| 4685 | SDR (Software Defined Radio)   | Bug     | New    | Normal   | Can't compile libusrp   |           | 08/04/2020 08:52 AM |                                   |
| 4705 | Distributed GSM                | Bug     | New    | Normal   | osmo-hlr user manual: explain the mslookup domain suffix "mdns.osmocom.org", it has no mention in the user manual |           | 08/13/2020 12:54 AM |                                   |
| 4717 | OsmoMSC                        | Feature | New    | Normal   | support Handover with changing codec  |           | 08/18/2020 05:14 PM | Related to #4717                  |
| 4720 | rtl-sdr                        | Bug     | New    | Normal   | rtl_power reports invalid values  |           | 08/19/2020 02:47 PM |                                   |
| 4599 | OsmoSGSN                       | Bug     | New    | Normal   | counter group sgsn:pdpctx already exists for index X, instead using Y   |           | 09/09/2020 10:05 AM | Related to #4604                  |
| 4764 | OsmoMSC                        | Bug     | New    | Normal   | make sure Assignment times out, always  |           | 09/23/2020 02:08 PM |                                   |
| 4766 | OsmoBSC                        | Bug     | New    | Normal   | pcu interface: add app info request   |           | 09/26/2020 10:21 PM |                                   |
| 4767 | OsmoBSC                        | Bug     | New    | Normal   | pcu interface: add suspend request support  |           | 09/29/2020 04:40 PM |                                   |
| 3981 | OsmoTRX                        | Bug     | New    | Normal   | osmo-trx-lms: Overruns appear from time to time   |           | 09/30/2020 08:08 PM | Related to #3981                  |
| 3949 | OsmoTRX                        | Bug     | New    | Normal   | osmo-trx-lms: improve runtime gain setting (missing calibration)  |           | 09/30/2020 08:08 PM | Related to #4468                  |
| 4768 | OsmoBSC                        | Bug     | New    | Normal   | pcu interface: add missing field ts, trx on rach indication   | lynxis    | 09/30/2020 08:10 PM |                                   |
| 4776 | osmo-ccid-firmware             | Bug     | New    | Normal   | Reader does not answer to GET CLOCK FREQUENCIES command   | Hoernchen | 10/03/2020 07:31 PM |                                   |
| 4784 | OsmoMSC                        | Bug     | New    | Normal   | wrong cause code (resources unavailable) in MO-to-MT call without response  | neels     | 10/08/2020 02:35 PM |                                   |
| 4777 | osmo-ccid-firmware             | Bug     | New    | Normal   | Reader does not answer to GET DATA RATES command  | Hoernchen | 10/14/2020 02:36 PM |                                   |
| 4810 | osmo-clock-conv                | Feature | New    | Normal   | horizontal DC input on rear side of PCB   | mschramm  | 10/15/2020 10:53 PM |                                   |
| 1686 | osmo-sip-connector             | Feature | New    | Normal   | osmo-sip-connector: Implement call holding on SIP   |           | 10/20/2020 08:36 AM |                                   |

| #    | Project                         | Tracker | Status | Priority | Subject  | Assignee | Updated             | Related issues                                 |
|------|---------------------------------|---------|--------|----------|--|----------|---------------------|--|
| 1624 | OsmoPCU                         | Bug     | New    | Normal   | add CRBB support to write_packet_ack_nack_desc_egprs   |          | 10/20/2020 08:37 AM |  |
| 2883 | OsmoMSC                         | Bug     | New    | Normal   | GSUP encoding of MSISDN is wrong   |          | 10/20/2020 08:41 AM | Related to #4324,Related to #4333              |
| 4825 | OsmoSGSN                        | Bug     | New    | Normal   | security command is missing sometimes  |          | 10/22/2020 02:40 AM |  |
| 4827 | OsmoBTS                         | Bug     | New    | Normal   | OsmoBTS VTY is lacking various vital information   |          | 10/23/2020 07:14 PM |  |
| 4834 | OsmocomBB                       | Bug     | New    | Normal   | package cp210x-program as part of network:osmocom:{nightly,latest}                             | osmith   | 10/26/2020 06:01 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                          |
| 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 |
| 4846 | OsmoPCU                         | Feature | New    | Normal   | change RBB received block bitmap into 1s when everything was acked                             |          | 11/04/2020 02:29 AM |  |
| 4847 | OsmoPCU                         | Bug     | New    | Normal   | fix LLC-DISCARD behaviour  |          | 11/04/2020 02:37 AM | Related to #4847                               |
| 4858 | OsmoBSC                         | Bug     | New    | Normal   | handover CHANnel ACTIVation: BSC sends timing advance for lchan activation in a different cell |          | 11/10/2020 05:41 PM |  |
| 4746 | libosmocore                     | Bug     | New    | Normal   | gb: NS2: implement a NSE based logfilter   |          | 11/14/2020 08:42 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              |
| 4019 | OsmoPCU                         | Bug     | New    | Normal   | implement a command to show all informations from the bts                                      |          | 11/25/2020 07:33 PM |  |
| 4883 | Cellular Network Infrastructure | Bug     | New    | Normal   | update OsmoNITB migration guide  | neels    | 12/01/2020 08:32 AM |  |
| 4885 | libosmocore                     | Bug     | New    | Normal   | configure doesn't check for python3  |          | 12/02/2020 03:36 AM |  |
| 4884 | OsmoBSC                         | Bug     | New    | Normal   | RLL_REL_IND is recieved after RF_CHAN_REL  |          | 12/02/2020 11:51 AM |  |
| 4886 | OsmoSGSN                        | Bug     | New    | Normal   | UE does not connect data when moving from 2G->3G   |          | 12/04/2020 01:29 AM |  |
| 4930 | OsmoBSC                         | Bug     | New    | Normal   | bsc: cbc: vty: "no remote-ip" in cbc > client  |          | 12/31/2020 10:42 PM |  |
| 4925 | libosmo-sccp + libosmo-sigtran  | Bug     | New    | Normal   | SCTP multihoming / ABORT between osmo-msc and osmo-stp   |          | 01/04/2021 11:32 AM | Related to #4926                               |
| 4926 | OsmoHNBGW                       | Bug     | New    | Normal   | nano3G disconnect / reconnect cycle with SCTP multi-homing                                     |          | 01/04/2021 11:38 AM | Related to #4926                               |
| 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                               |
| 4596 | OsmocomTETRA                    | Feature | New    | Normal   | Port to GR3.8  |          | 01/08/2021 05:23 PM |  |
| 4942 | gr-osmosdr                      | Bug     | New    | Normal   | XTRX: Unable to compile due to error   | RFNOD    | 01/12/2021 08:29 PM |  |
| 4521 | osmo-gbproxy                    | Feature | New    | Normal   | gbproxy: Redundancy between NS-VCs (SGSN Side)   | laforge  | 01/19/2021 05:24 PM | Related to #4959                               |
| 4961 | osmo-gbproxy                    | Feature | New    | Normal   | gbproxy support for "network sharing" via MOCN   |          | 01/20/2021 08:38 PM |  |



| #    | Project                                  | Tracker | Status | Priority | Subject  | Assignee | Updated             | Related issues  |
|------|--|---------|--------|----------|--|----------|---------------------|---|
| 4967 | OsmoPCU                                  | Feature | New    | Normal   | osmo-pcu: Avoid sending new DL EGPRS blocks to MS announcing MS_OUT_OF_MEMORY  |          | 01/21/2021 02:26 PM |   |
| 4972 | OsmoMSC                                  | Bug     | New    | Normal   | manual: the MNCC protocol is outdated (RTP)  |          | 01/24/2021 05:58 PM |   |
| 4966 | OsmoPCU                                  | Bug     | New    | Normal   | osmo-pcu: gprs+egprs multiplex: Allow selecting original 8-PSK dl block during retransmission for GMSK-required DL block |          | 01/26/2021 01:07 PM | Related to #4966  |
| 4985 | OsmoBTS                                  | Bug     | New    | Normal   | AMR RTP CMR of downlink frames not used to influence CMC   |          | 01/28/2021 01:35 PM |   |
| 3672 | Osmocom Analog                           | Feature | New    | Normal   | Custom announcement and tones  | jolly    | 02/01/2021 10:25 AM |   |
| 5008 | gr-osmosdr                               | Bug     | New    | Normal   | Quoted whitespace parsing problem in source_impl::source_impl  |          | 02/04/2021 02:16 AM |   |
| 5011 | Core testing infrastructure              | Bug     | New    | Normal   | Warning about unrecognized escape sequence in Osmocom_CTRL_Types   |          | 02/05/2021 11:21 AM |   |
| 4621 | OsmoBSC                                  | Support | New    | Normal   | feedback: osmo-bsc modifies the LAI in LU Accept messages, and the MM info data  | neels    | 02/06/2021 09:50 AM |   |
| 3285 | OsmoPCU                                  | Feature | New    | Normal   | design + implement tools to analyze inter-PCU cell changes   | daniel   | 02/06/2021 11:12 AM | Related to #3284  |
| 44   | OsmoSGSN                                 | Bug     | New    | Normal   | TLLI clash possible  | pespin   | 02/06/2021 01:31 PM |   |
| 3403 | OsmoSGSN                                 | Bug     | New    | Normal   | osmo-sgsn doesn not connect properly with via SCCP when restarted  | lynxis   | 02/07/2021 12:57 PM | Related to #3403  |
| 4579 | OsmoBTS                                  | Bug     | New    | Normal   | add IPv6 support   |          | 02/12/2021 12:26 PM |   |
| 5029 | libosmocore                              | Bug     | New    | Normal   | vty: optional cases with multiple arguments is undefined behaviour   |          | 02/18/2021 05:44 PM |   |
| 4950 | gr-osmosdr                               | Bug     | New    | Normal   | gr-osmosdr doesn't find iqbalance during build   |          | 02/22/2021 02:46 AM |   |
| 5045 | Cellular Network Infrastructure          | Feature | New    | Normal   | write libversion "major" on build files automatically based on LIBVERSION  | pespin   | 02/24/2021 01:14 PM |   |
| 5050 | OsmoTRX                                  | Bug     | New    | Normal   | How can I solve limesdr mini clock problem with osmocom ?  |          | 02/27/2021 01:55 PM |   |
| 4908 | libosmocore                              | Bug     | New    | Normal   | Errors compiling with -std=c++14   |          | 03/01/2021 03:38 PM |   |
| 4897 | osmo-gbproxy                             | Bug     | New    | Normal   | gbproxy2: Re-introduce handling of NS_AFF_CAUSE_FAILURE  | daniel   | 03/10/2021 02:49 PM | Related to #4897,Related to #4952,Related to #5040                  |
| 5002 | M.2 (NGFF) WWAN modem USB breakout board | Feature | New    | Normal   | Ensure current return paths via M.2 connector are sufficient   | mschramm | 03/23/2021 06:48 PM |   |
| 4591 | libosmocore                              | Feature | New    | Normal   | Export FSM states and statistics with counters   |          | 03/24/2021 12:34 PM |   |
| 3909 | libosmocore                              | Bug     | New    | Normal   | osmo_get_rand_id() fails in containerised environment  |          | 03/24/2021 12:34 PM | Related to #3909  |
| 3983 | libosmocore                              | Bug     | New    | Normal   | osmo_fsm_inst_change_parent() forgets to talloc reparent   |          | 03/24/2021 12:35 PM |   |
| 2688 | libosmocore                              | Bug     | New    | Normal   | CTRL iface: make rate_ctr request parser more strict   |          | 03/24/2021 12:37 PM | Related to #4443  |
| 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 |

| #    | Project           | Tracker | Status | Priority | Subject   | Assignee  | Updated             | Related issues   |
|------|-------------------|---------|--------|----------|---|-----------|---------------------|------------------|
| 5117 | OsmoSDR           | Bug     | New    | Normal   | Error building gr-osmosdr with libhackrf  |           | 04/15/2021 07:56 AM |                  |
| 5120 | rtl-sdr           | Bug     | New    | Normal   | rtlsdr_demod_write_reg failed with -9   |           | 04/18/2021 08:55 PM |                  |
| 5122 | OsmoPCU           | Feature | New    | Normal   | Choose SBA allocation offset based on AGCH queue load in the BTS                            | pespin    | 04/20/2021 12:51 PM | Related to #5122 |
| 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 |
| 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 |
| 5154 | OsmoSGSN          | Bug     | New    | Normal   | OsmoSGSN doesn't trigger 3G paging if downlink GTP traffic arrives after long break         |           | 05/13/2021 12:28 PM | Related to #5154 |
| 5179 | libosmocore       | Bug     | New    | Normal   | gprs_ns2: use refcounting for the NSE   | lynxis    | 06/13/2021 03:08 AM |                  |
| 4638 | Altair LTE Modems | Feature | New    | Normal   | Mikrotik R11e-4G mtd dump   |           | 06/13/2021 10:15 AM |                  |
| 5031 | OsmoSDR           | Bug     | New    | Normal   | Please switch to gr-funcube   |           | 06/17/2021 09:23 AM |                  |
| 5025 | OsmoBTS           | Feature | New    | Normal   | Missing TTCN-3 coverage for the Timing Advance loop   | fixeria   | 07/02/2021 04:28 PM |                  |
| 5202 | OsmocomBB         | Bug     | New    | Normal   | [Assert failed rc >= 0 l1ctl.c:83] cell_log crashes (mostly) when monitoring specific ARFCN |           | 07/25/2021 01:38 PM |                  |
| 5220 | rtl-sdr           | Bug     | New    | Normal   | Undefined reference to libusb_dev_mem_free  | steve-m   | 08/31/2021 09:21 AM |                  |
| 5218 | gr-osmosdr        | Bug     | New    | Normal   | compilation fails: "no matching function for call to fcd_source_c::connect"                 |           | 09/05/2021 10:58 PM |                  |
| 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 |
| 5178 | OsmoTRX           | Bug     | New    | Normal   | LimeNET Micro clock error   | Hoernchen | 09/15/2021 09:42 AM |                  |
| 5247 | Osmocom Analog    | Bug     | New    | Normal   | AMPS Segmentation fault   | jolly     | 10/04/2021 11:48 PM |                  |
| 5268 | pySim             | Feature | New    | Normal   | pySim-shell: GlobalPlatform SCP02 support   | laforge   | 10/14/2021 07:12 PM | Related to #5268 |
| 5267 | pySim             | Feature | New    | Normal   | pySim-shell: Ability to deactivate entire applications on the card                          |           | 10/14/2021 07:12 PM | Related to #5268 |
| 5127 | pySim             | Feature | New    | Normal   | tool for "re-formatting" [sysmocom] cards in tester   | laforge   | 10/14/2021 07:16 PM | Related to #5127 |
| 5227 | OsmoPCU           | Bug     | New    | Normal   | osmo-pcu: Attempt recovery of TBF when one of its assigned PDCH TS becomes disabled         | pespin    | 10/18/2021 10:12 AM |                  |
| 1997 | OsmoHNBGW         | Feature | New    | Normal   | Improve error check at compilation time   |           | 10/21/2021 04:28 PM |                  |
| 5277 | libosmocore       | Bug     | New    | Normal   | ns2: Allow SNS-CONFIG PDUs from unknown endpoints during config procedure                   | lynxis    | 10/22/2021 02:28 PM |                  |
| 5279 | OsmoMGW           | Feature | New    | Normal   | systemd service / unit for multiple osmo-mgw on one machine                                 | osmith    | 10/25/2021 11:41 AM |                  |
| 5283 | OsmoTRX           | Feature | New    | Normal   | Implement TRXDv2 support  | fixeria   | 10/27/2021 10:35 PM | Related to #5283 |
| 5291 | rtl-sdr           | Feature | New    | Normal   | Ship the udev rules upstream  | steve-m   | 11/05/2021 11:04 AM |                  |
| 5298 | gr-osmosdr        | Bug     | New    | Normal   | object has no attribute 'pyqwidget' on arch linux   |           | 11/09/2021 01:25 AM |                  |
| 5305 | OsmocomBB         | Bug     | New    | Normal   | Burst capture   |           | 11/10/2021 06:38 PM |                  |
| 5307 | Ericsson RBS 6xxx | Feature | New    | Normal   | Support for Multiple Sectors at an RBS site.  |           | 11/13/2021 08:20 PM |                  |

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|------|--|---------|--------|----------|--|----------|---------------------|------------------|
| 5310 | osmo-ccid-firmware                           | Bug     | New    | Normal   | sysmoOCTSIM does not re-enumerate after unplug/replug the USB cable when PSU is connected                  |          | 11/15/2021 05:13 PM |                  |
| 5309 | OsmoPCU                                      | Bug     | New    | Normal   | osmo-pcu: Support rejecting multiple TBFs upon tx of Packet Access Reject                                  | pespin   | 11/15/2021 06:29 PM |                  |
| 5313 | OsmoMGW                                      | Bug     | New    | Normal   | libosmo-mgcp-client-dbg specific package not generated for debian  |          | 11/16/2021 03:57 PM |                  |
| 5338 | OsmoBTS                                      | Bug     | New    | Normal   | LMSDevice.cpp:261 Power parameters requested before Tx Frequency was set! Providing band 900 by default... |          | 12/09/2021 11:42 PM |                  |
| 5352 | gr-osmosdr                                   | Bug     | New    | Normal   | ImportError: generic_type: type "sink" referenced unknown base type "gr::hier_block2"                      |          | 12/11/2021 08:19 AM |                  |
| 5356 | libosmo-abis                                 | Bug     | New    | Normal   | libosmo-abis: osmo_rtp_socket_connect() not calling connect() on sockets                                   |          | 12/13/2021 12:50 PM |                  |
| 5357 | OsmoGGSN (former OpenGGSN)                   | Bug     | New    | Normal   | no more than PDP_MAX == 1024 PDP contexts possible in libgtp   |          | 12/14/2021 01:20 PM | Related to #5469 |
| 5323 | Core testing infrastructure                  | Feature | New    | Normal   | Add docker image containing titan.core master  |          | 12/15/2021 04:43 PM | Related to #6187 |
| 5047 | OsmoSDR                                      | Feature | New    | Normal   | Inconsistencies between SDR's in bias-tee parameter  |          | 12/19/2021 01:17 PM |                  |
| 5378 | erlang/osmo_ss7                              | Bug     | New    | Normal   | ipa: add support for client application  | laforge  | 01/05/2022 08:36 PM |                  |
| 5395 | OsmocomDECT                                  | Feature | New    | Normal   | Support for LMX3161  |          | 01/09/2022 12:55 PM |                  |
| 5398 | OsmoSGSN                                     | Bug     | New    | Normal   | Null pointer access at "uctx" in ranap_iu_tx   | pespin   | 01/10/2022 01:14 PM |                  |
| 5402 | E1/T1 Hardware Interface (including icE1usb) | Bug     | New    | Normal   | no2e1 gateway improvements   |          | 01/13/2022 12:02 PM |                  |
| 5403 | OsmoMSC                                      | Feature | New    | Normal   | Can't connect Call from 2G to 4G network   | laforge  | 01/14/2022 10:41 PM |                  |
| 5380 | osmo-ccid-firmware                           | Bug     | New    | Normal   | Incorrect answer to PC_to_RDR_SetParameters CCID command   |          | 01/16/2022 08:55 PM |                  |
| 4149 | libosmocore                                  | Bug     | New    | Normal   | osmo_fsm allows event names to have spaces in them   | laforge  | 01/25/2022 09:53 AM |                  |
| 5433 | OCTOI - Osmocom Community TDM over IP        | Bug     | New    | Normal   | forwarding of TSO / Alarms   |          | 01/30/2022 11:02 AM |                  |
| 5443 | OCTOI - Osmocom Community TDM over IP        | Feature | New    | Normal   | possibility to transmit frames from multiple lines in one packet   |          | 02/06/2022 08:15 AM |                  |
| 5442 | OCTOI - Osmocom Community TDM over IP        | Feature | New    | Normal   | ensure sequence number covers longer duration than default PRI LOS timer                                   | laforge  | 02/06/2022 08:16 AM |                  |
| 5446 | Cellular Network Infrastructure              | Feature | New    | Normal   | correlate git version to ttcn3 tests   |          | 02/07/2022 09:40 PM | Related to #5446 |
| 4749 | OsmoGGSN (former OpenGGSN)                   | Bug     | New    | Normal   | Unknown/Unimplemented PCO Protocol   |          | 02/09/2022 01:26 PM |                  |
| 5415 | SIMtrace 2                                   | Bug     | New    | Normal   | cardem: watchdog triggers firmware reset   | lynxis   | 02/15/2022 08:07 PM |                  |

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|------|---------------------------------------|---------|--------|----------|--|----------|---------------------|--|
| 5445 | gr-osmosdr                            | Bug     | New    | Normal   | Please switch to the gr-funcube  |          | 02/15/2022 11:56 PM |  |
| 5460 | gr-osmosdr                            | Bug     | New    | Normal   | Please use double for ppm with fcdp/pp   |          | 02/17/2022 10:43 PM |  |
| 5462 | osmo-sip-connector                    | Bug     | New    | Normal   | Contact Header Missing - Way Forward?  |          | 02/21/2022 05:51 AM |  |
| 5466 | OsmocomBB                             | Feature | New    | Normal   | CP2102N evaluation for burst_ind baudrate  | laforge  | 02/22/2022 07:17 PM |  |
| 5474 | OsmoBTS                               | Bug     | New    | Normal   | osmo-bts-trx: DTXd support not implemented   |          | 03/02/2022 05:06 PM | Related to #5474,Related to #5474                  |
| 5484 | Open Source IMS Client                | Feature | New    | Normal   | create setup for nested IPsec (doubango on top of StrongSWAN)                              |          | 03/07/2022 11:19 AM |  |
| 5483 | Open Source IMS Client                | Feature | New    | Normal   | SIM card interface for strongswan  |          | 03/07/2022 03:19 PM |  |
| 5482 | Open Source IMS Client                | Feature | New    | Normal   | VoWiFi client for creating [outer] IPsec tunnel to ePDG                                    |          | 03/07/2022 09:33 PM | Related to #5482                                   |
| 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 |
| 5507 | libosmocore                           | Feature | New    | Normal   | Optimize reset time after SGSN is restarted  | lynxis   | 03/31/2022 12:33 PM |  |
| 5300 | OsmoPCU                               | Bug     | New    | Normal   | osmo-pcu: SUSPEND-NACK not implemented   |          | 03/31/2022 02:59 PM |  |
| 5509 | OsmoSGSN                              | Bug     | New    | Normal   | llc/pdu lifetime: add vty config option to define default lifetime                         |          | 03/31/2022 04:11 PM |  |
| 5515 | OsmoBSC                               | Bug     | New    | Normal   | BSC_Tests: re-establishment: RA during CHAN RQD should reflect re-establishment            |          | 04/06/2022 08:02 PM |  |
| 5492 | OsmoBSCNAT                            | Bug     | New    | Normal   | Support MSC pooling  | osmith   | 04/11/2022 08:19 AM |  |
| 5544 | OCTOI - Osmocom Community TDM over IP | Bug     | New    | Normal   | Strange HDLC frames in PPP when using mISDN/pppd/capiplugin against Portmaster3            |          | 04/23/2022 01:50 PM |  |
| 5546 | OCTOI - Osmocom Community TDM over IP | Feature | New    | Normal   | build frame relay "hub" similar to ISDN "hub"  |          | 04/24/2022 03:03 PM |  |
| 4153 | OsmoMGW                               | Bug     | New    | Normal   | 3G voice broken with ALu 9361 femto  |          | 04/25/2022 05:43 PM |  |
| 2797 | linmodem                              | Bug     | New    | Normal   | X11 support is 16bit plane only  |          | 05/07/2022 11:34 PM |  |
| 5340 | OsmoMSC                               | Bug     | New    | Normal   | ttcn3-msc-test: more memory leaks  | fixeria  | 05/15/2022 04:47 PM |  |
| 5570 | libosmocore                           | Bug     | New    | Normal   | coding: decode in-band data in AMR's special DTX frames (SID_FIRST, SID_UPDATE, SID_ONSET) | fixeria  | 05/24/2022 08:34 AM | Related to #5570                                   |

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