

## Issues

| #    | Project         | Tracker | Status | Priority | Subject  | Assignee      | Updated             | Related issues                    |
|------|-----------------|---------|--------|----------|--|---------------|---------------------|-----------------------------------|
| 2814 | Z-Netz          | Feature | New    | Normal   | Create + Document classic CrossPoint setup on DOS (dosemu)                   |               | 01/01/2018 01:41 PM |                                   |
| 2813 | Z-Netz          | Feature | New    | Normal   | Create + Document OpenXP setup on Linux                                      |               | 01/01/2018 01:41 PM |                                   |
| 2809 | Z-Netz          | Bug     | New    | Normal   | Build ZConnect <-> UseNet gateway  |               | 01/01/2018 01:33 PM |                                   |
| 2808 | Z-Netz          | Bug     | New    | Normal   | Create + Document VM/emulation setup for running ZERBERUS                    |               | 01/01/2018 01:09 PM |                                   |
| 2806 | UUCP and UseNet | Feature | New    | Low      | Create Dockerfile and/or ansible playbook for UseNet node                    |               | 01/01/2018 01:04 PM |                                   |
| 3747 | UmTRX           | Feature | New    | Normal   | LMS6002D RX Gain Control   | ipse          | 01/08/2019 09:46 AM |                                   |
| 1510 | UmTRX           | Feature | New    | High     | Complete UHD integration   | ipse          | 02/21/2016 04:47 PM |                                   |
| 1509 | UmTRX           | Feature | New    | Normal   | Store calibration values in EEPROM   | 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 |                                   |
| 1506 | UmTRX           | Feature | New    | Normal   | Move to the latest stable UHD  | ipse          | 02/21/2016 04:47 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 |                                   |
| 1511 | UmTRX           | Feature | New    | Normal   | Solve Tx and Rx I/Q imbalance for wideband signals                           |               | 02/19/2016 10:52 PM |                                   |
| 1505 | UmTRX           | Bug     | New    | High     | OHM4 footprint incorrect   |               | 02/19/2016 10:52 PM |                                   |
| 1504 | UmTRX           | Feature | New    | Normal   | LMS6002 phase error increases when Rx is enabled and varies with temperature | ttsou         | 02/19/2016 10:52 PM |                                   |
| 3711 | SIMtrace 2      | Feature | New    | Normal   | Add screw holes for permanent installations                                  | mschramm      | 11/01/2023 08:28 PM |                                   |
| 5805 | SIMtrace 2      | Feature | New    | Normal   | SIM Trace 2 Build for Windows  | jelson_simEng | 04/02/2023 09:56 AM |                                   |
| 4118 | SIMtrace 2      | Bug     | New    | Normal   | VCC_PHONE strong pull on SIMtrace board                                      | mschramm      | 02/01/2023 12:16 PM | Related to #4118,Related to #4118 |
| 4430 | SIMtrace 2      | Bug     | New    | Normal   | firmware can get in endless out-of-memory loop on OUT EP flood               | laforge       | 11/14/2022 11:46 PM |                                   |
| 5415 | SIMtrace 2      | Bug     | New    | Normal   | cardem: watchdog triggers firmware reset                                     | lynxis        | 02/15/2022 08:07 PM |                                   |
| 5423 | SIMtrace 2      | Bug     | New    | Low      | "trace" firmware continuous test setup                                       |               | 01/27/2022 12:24 PM |                                   |
| 3712 | SIMtrace 2      | Bug     | New    | Low      | TRACE_FATAL not printing   | laforge       | 04/06/2021 01:28 AM |                                   |
| 3815 | SIMtrace 2      | Bug     | New    | Normal   | simtrace2 fails USB-IF CH9 test  | Hoernchen     | 05/12/2020 07:24 PM |                                   |
| 1460 | SIMtrace 2      | Feature | New    | Normal   | include some version information / negotiation in the USB protocol           | laforge       | 12/06/2019 01:39 PM | Related to #1461,Related to #4041 |
| 4041 | SIMtrace 2      | Bug     | New    | Normal   | implement SIMTRACE_CMD_BD_BOARD_INFO   | laforge       | 12/06/2019 01:38 PM | Related to #4041                  |

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| 1457 | SIMtrace 2                   | Feature | New    | Low      | Spacing between JTAG and JP1/JP2  | mschramm   | 09/13/2018 07:07 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 |                  |
| 3501 | SIMtrace 2                   | Feature | New    | Low      | Multi-sim addon board idea  |            | 08/28/2018 03:00 PM |                  |
| 1463 | SIMtrace 2                   | Feature | New    | Low      | Add VCC current sensing circuit for SPA & DPA attacks   | laforge    | 08/27/2018 07:05 AM | Related to #1706 |
| 3371 | SIMtrace 2                   | Feature | New    | Normal   | migrate to use arm-none-eabi build of libosmocore.git   | laforge    | 08/09/2018 12:14 PM |                  |
| 5850 | SDR (Software Defined Radio) | Bug     | New    | Normal   | OBS mingw builds not updated since 2019   | roox       | 01/04/2023 12:15 PM |                  |
| 4685 | SDR (Software Defined Radio) | Bug     | New    | Normal   | Can't compile libusrp   |            | 08/04/2020 08:52 AM |                  |
| 4677 | SDR (Software Defined Radio) | Bug     | New    | Normal   | fopher crash on OSX with Qt   |            | 07/27/2020 03:27 AM |                  |
| 4653 | SDR (Software Defined Radio) | Bug     | New    | Normal   | cannot import name 'fosphor'  |            | 07/07/2020 02:39 AM |                  |
| 4580 | SDR (Software Defined Radio) | Feature | New    | Normal   | gr-osmosdr compilation under GnuRadio 3.9.0   |            | 06/04/2020 01:13 AM |                  |
| 3817 | SDR (Software Defined Radio) | Bug     | New    | Normal   | Unable to use fosphor display on Ubuntu 18.10   |            | 02/26/2019 06:56 PM |                  |
| 3126 | SDR (Software Defined Radio) | Bug     | New    | Low      | Windows 10 Pro 1709: crash of rtl_test.exe  |            | 03/30/2018 02:16 PM |                  |
| 2764 | SDR (Software Defined Radio) | Support | New    | Normal   | osmocom_fft & siggen can't access the X display   |            | 12/15/2017 06:09 PM |                  |
| 2224 | SDR (Software Defined Radio) | Feature | New    | Normal   | New Fosphor Benchmark Performance   |            | 05/04/2017 01:23 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 |                  |
| 1474 | SDR (Software Defined Radio) | Bug     | New    | High     | USB Claim Interface Error   | steve-m    | 02/20/2016 08:23 PM |                  |
| 6413 | rtl-sdr                      | Bug     | New    | Normal   | Incorrect Debian/Debian-like binary packages  | steve-m    | 03/22/2024 05:09 PM |                  |
| 6329 | rtl-sdr                      | Bug     | New    | Normal   | rtl_sdr does not have correct rpath set on OSX build  |            | 01/12/2024 09:57 PM |                  |
| 6225 | rtl-sdr                      | Bug     | New    | Normal   | rtl-sdr reelase tarballs missing from <a href="https://ftp.osmocom.org/releases/">https://ftp.osmocom.org/releases/</a> | osmith     | 10/19/2023 09:46 AM |                  |
| 6005 | rtl-sdr                      | Bug     | New    | Normal   | rtl-test and rtl-sdr exit code=-5 when running on Windows 10 WSL and Ubuntu   | steve-m    | 10/18/2023 05:45 PM |                  |
| 6032 | rtl-sdr                      | Bug     | New    | Normal   | Poor APRS demodulation using RTL_FM on RaspberryPI or on old PC   |            | 05/15/2023 12:14 PM |                  |
| 6012 | rtl-sdr                      | Bug     | New    | Normal   | Update wiki for macos build   | steve-m    | 05/01/2023 02:38 AM |                  |
| 4758 | rtl-sdr                      | Bug     | New    | Normal   | rtl_tcp no longer works on macos 10.15 via macports   | steve-m    | 04/30/2023 11:59 AM |                  |
| 5922 | rtl-sdr                      | Bug     | New    | Normal   | rtl_sdr bytes_to_read wraparound for n > 2**31  | steve-m    | 03/20/2023 10:16 AM |                  |
| 5291 | rtl-sdr                      | Feature | New    | Normal   | Ship the udev rules upstream  | steve-m    | 11/05/2021 11:04 AM |                  |

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| 5220 | rtl-sdr         | Bug     | New    | Normal   | Undefined reference to libusb_dev_mem_free  | steve-m  | 08/31/2021 09:21 AM |                |
| 5120 | rtl-sdr         | Bug     | New    | Normal   | rtlsdr_demod_write_reg failed with -9   |          | 04/18/2021 08:55 PM |                |
| 4720 | rtl-sdr         | Bug     | New    | Normal   | rtl_power reports invalid values  |          | 08/19/2020 02:47 PM |                |
| 4513 | rtl-sdr         | Bug     | New    | Normal   | PKG information broken  |          | 04/26/2020 03:21 PM |                |
| 4427 | rtl-sdr         | Bug     | New    | Normal   | docker + rtl_sdr issue  |          | 02/29/2020 01:16 PM |                |
| 4367 | rtl-sdr         | Support | New    | Normal   | "Communications Toolbox Support Package for RTL-SDR Radio" from "Mathworks Matlab" appears to be with broken links? | steve-m  | 01/21/2020 08:52 PM |                |
| 4080 | rtl-sdr         | Support | New    | Normal   | Receiving UTAs on 978 Mhz   |          | 07/02/2019 12:08 PM |                |
| 3797 | rtl-sdr         | Bug     | New    | Normal   | Exits with "Bus error"  |          | 02/12/2019 02:28 PM |                |
| 3591 | rtl-sdr         | Bug     | New    | Normal   | No Way To Detect Occasional Failed Bulk Transfers   |          | 09/25/2018 01:29 PM |                |
| 3590 | rtl-sdr         | Bug     | New    | Normal   | Key Functions Missing Documentation   |          | 09/25/2018 01:04 PM |                |
| 3589 | rtl-sdr         | Bug     | New    | Normal   | Zerocopy Buffers Unusable Outside Callback Without memcpy()   |          | 09/25/2018 12:58 PM |                |
| 3588 | rtl-sdr         | Bug     | New    | Normal   | Error Values Inconsistent   |          | 09/25/2018 12:47 PM |                |
| 3315 | rtl-sdr         | Feature | New    | Normal   | review and possibly apply patches from debian package   | steve-m  | 06/03/2018 01:17 PM |                |
| 1983 | rtl-sdr         | Support | New    | Normal   | Add welle.io and rtl_fm_streamer to rtl-sdr app list  |          | 06/03/2018 12:24 PM |                |
| 2607 | rtl-sdr         | Bug     | New    | Normal   | rtl-sdr gnuradio cfile is outdated  |          | 06/03/2018 12:23 PM |                |
| 5768 | Retronetworking | Feature | New    | Normal   | retronetworking logo / artwork  |          | 04/07/2024 10:40 PM |                |
| 6244 | Retronetworking | Feature | New    | Low      | scan more/all EWS(O) documentation laforge has  | laforge  | 11/01/2023 09:50 PM |                |
| 6237 | Retronetworking | Feature | New    | Low      | Design + Build PCBA for NE555 based fake fan rpm sensor   | laforge  | 10/30/2023 01:38 AM |                |
| 6218 | Retronetworking | Feature | New    | Normal   | write article/report on EWSD rescue for IGHFT / Fernmeldemuseum Dresden   | laforge  | 10/17/2023 02:11 PM |                |
| 6219 | Retronetworking | Feature | New    | Normal   | Publish pics/videos for EWSD rescue/move  | laforge  | 10/17/2023 02:10 PM |                |
| 6195 | Retronetworking | Feature | New    | Low      | Wiki page on Cisco *WIC-* line cards for 26xx/28xx series   | laforge  | 10/08/2023 07:33 AM |                |
| 6194 | Retronetworking | Feature | New    | Low      | wiki page on MultiTech MT5600-BL  | laforge  | 09/27/2023 12:46 PM |                |
| 6193 | Retronetworking | Support | New    | Low      | Replace "event rack" PM3 power supply   | laforge  | 09/27/2023 12:19 PM |                |
| 5681 | Retronetworking | Bug     | New    | Normal   | Figure out suitable connectors for EKSOS  | laforge  | 07/31/2023 10:22 AM |                |
| 5543 | Retronetworking | Feature | New    | Normal   | Contact manufacturers for leftover stock  |          | 06/27/2023 09:05 PM |                |
| 5855 | Retronetworking | Feature | New    | Normal   | Establishing a German non-profit for retronetworking  | laforge  | 01/13/2023 11:59 AM |                |
| 5746 | Retronetworking | Feature | New    | Low      | Create H.221 decoder  |          | 11/07/2022 10:55 PM |                |
| 5511 | Retronetworking | Feature | New    | Low      | Idea: DAHDI backend for mISDN   |          | 09/18/2022 03:59 PM |                |
| 5545 | Retronetworking | Feature | New    | Low      | E1 support for dynamips   |          | 04/24/2022 09:56 AM |                |
| 5512 | Retronetworking | Bug     | New    | Low      | Idea: L1OIP driver for DAHDI  |          | 04/03/2022 11:46 AM |                |
| 4226 | Retronetworking | Feature | New    | Low      | STM-1 / USB interface?  |          | 01/30/2022 10:14 AM |                |
| 5947 | Retrocomputing  | Feature | New    | Low      | Assemble PC104-SVGA   | laforge  | 03/15/2023 09:29 AM |                |

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| 5940 | Retrocomputing                        | Feature | New    | Low      | Assemble LPT_Capture                                     | laforge  | 03/15/2023 09:06 AM |                  |
| 5932 | Retrocomputing                        | Feature | New    | Low      | assemble ISA-USB   | laforge  | 03/02/2023 09:25 PM |                  |
| 5936 | Retrocomputing                        | Feature | New    | Low      | Assemble netpi-ide                                       | laforge  | 03/02/2023 09:25 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 |                  |
| 4135 | Qualcomm Linux Modems by Quectel & Co | Support | New    | Normal   | how to use network inside ec20                           |          | 07/31/2019 11:20 AM |                  |
| 1815 | Qualcomm Linux Modems by Quectel & Co | Feature | New    | Normal   | tool for building binary ipk from .list/.control         |          | 10/02/2016 05:06 AM |                  |
| 1814 | Qualcomm Linux Modems by Quectel & Co | Feature | New    | Low      | check if qtools work                                     |          | 10/02/2016 04:08 AM |                  |
| 1813 | Qualcomm Linux Modems by Quectel & Co | Bug     | New    | Normal   | cat /dev/snd/* causes kernel oops                        |          | 09/30/2016 04:00 PM |                  |
| 6418 | pySim                                 | Bug     | New    | Normal   | osmo-smdpp docs  |          | 03/25/2024 05:54 PM |                  |
| 6398 | pySim                                 | Bug     | New    | Normal   | Add helper for SwMatchError                              |          | 03/09/2024 09:34 PM |                  |
| 6367 | pySim                                 | Feature | New    | Normal   | PC/SC <-> Android OMAPI bridge for pySim and others      |          | 02/17/2024 01:34 PM |                  |
| 6340 | pySim                                 | Bug     | New    | Low      | exception when using osmo-smdpp with python 3.9          | laforge  | 02/15/2024 09:29 PM |                  |
| 6322 | pySim                                 | Bug     | New    | Low      | ATR type annotation                                      |          | 01/03/2024 09:55 PM |                  |
| 6316 | pySim                                 | Feature | New    | Normal   | include test data in user manual                         |          | 12/23/2023 03:10 PM |                  |
| 6314 | pySim                                 | Bug     | New    | Low      | pySim-trace doesn't support ARA-M                        |          | 12/23/2023 09:36 AM |                  |
| 6315 | pySim                                 | Feature | New    | Low      | have test data for all supported files                   |          | 12/23/2023 09:36 AM |                  |
| 6120 | pySim                                 | Bug     | New    | Low      | select MF raise an exception after selecting ADF.ARA-M   | dexter   | 12/18/2023 10:30 AM | Related to #6120 |
| 6265 | pySim                                 | Feature | New    | Normal   | decode numeric SW in case of errors                      | dexter   | 12/11/2023 01:01 PM |                  |
| 6092 | pySim                                 | Feature | New    | Low      | "export" suport for ARA-M                                | dexter   | 10/31/2023 06:40 PM |                  |
| 5878 | pySim                                 | Bug     | New    | Normal   | pySim shell: version fails with DistributionNotFound     | fixeria  | 10/06/2023 09:03 AM |                  |
| 6104 | pySim                                 | Feature | New    | Low      | reduce number of python dependencies                     |          | 07/20/2023 04:28 PM |                  |
| 6086 | pySim                                 | Feature | New    | Low      | implement features of sysmo-{usim, isim}-tool            | laforge  | 07/13/2023 04:09 AM |                  |
| 5235 | pySim                                 | Feature | New    | Low      | import / export as eUICC profile package ASN.1           |          | 06/09/2023 04:55 PM |                  |
| 5976 | pySim                                 | Feature | New    | Low      | pySim-prog: do not program linked files multiple times   | dexter   | 03/27/2023 04:05 PM |                  |
| 5550 | pySim                                 | Bug     | New    | Normal   | EF.ARR file decoding would need to be context dependent  | chrysn   | 06/24/2022 08:50 AM |                  |
| 5127 | pySim                                 | Feature | New    | Normal   | tool for "re-formatting" [sysmocom] cards in tester      | laforge  | 10/14/2021 07:16 PM | Related to #5127 |

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| 5267 | pySim   | Feature | New    | Normal   | pySim-shell: Ability to deactivate entire applications on the card   |           | 10/14/2021 07:12 PM | Related to #5268                            |
| 5268 | pySim   | Feature | New    | Normal   | pySim-shell: GlobalPlatform SCP02 support  | laforge   | 10/14/2021 07:12 PM | Related to #5268                            |
| 1919 | pySim   | Bug     | New    | Low      | issue with grcardsim from Greencard (grcard.cn)  |           | 08/17/2017 06:45 AM |   |
| 5814 | OsmoUPF | Feature | New    | Normal   | tunmap: more concisely match on GTP-U packets  |           | 12/06/2022 07:30 PM |   |
| 5682 | OsmoUPF | Feature | New    | Low      | cfg: separate PFCP Node ID from PFCP local address   |           | 09/17/2022 02:21 PM | Related to #5682                            |
| 5662 | OsmoUPF | Feature | New    | Normal   | add Linux kernel options to manual   |           | 08/24/2022 03:13 PM |   |
| 6231 | OsmoTRX | Feature | New    | Normal   | add support / calibration values for AntSDR E200   | roh       | 10/21/2023 03:25 PM |   |
| 2430 | OsmoTRX | Feature | New    | Low      | osmo-trx support bladerf   |           | 02/14/2023 01:39 PM | Is duplicate of #2430,Is duplicate of #2430 |
| 5859 | OsmoTRX | Feature | New    | Normal   | remove non-neon and non-sse support  | Hoernchen | 01/16/2023 10:17 PM |   |
| 5228 | OsmoTRX | Feature | New    | Low      | osmo-trx: Missing unit tests for computeCI() and computeEdgeCI()   | Hoernchen | 11/07/2022 06:23 PM |   |
| 5283 | OsmoTRX | Feature | New    | Normal   | Implement TRXDv2 support   | fixeria   | 10/27/2021 10:35 PM | Related to #5283                            |
| 5178 | OsmoTRX | Bug     | New    | Normal   | LimeNET Micro clock error  | Hoernchen | 09/15/2021 09:42 AM |   |
| 5050 | OsmoTRX | Bug     | New    | Normal   | How can I solve limesdr mini clock problem with osmocom ?  |           | 02/27/2021 01:55 PM |   |
| 4504 | OsmoTRX | Feature | New    | Low      | Buidl LimeSuite without GUI in osmocom feeds   |           | 09/30/2020 08:08 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                            |
| 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 |   |
| 4637 | OsmoTRX | Bug     | New    | Normal   | limesdr usb gain setting changes break gsm phasenoise constraints  |           | 06/29/2020 04:43 PM |   |
| 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 |   |
| 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                            |
| 3970 | OsmoTRX | Bug     | New    | Low      | libusrp fails to compile 1/4 of times in jenkins with PARALLEL_MAKE set                                    |           | 01/08/2020 10:56 PM | Is duplicate of #3970                       |
| 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           |
| 3962 | OsmoTRX | Feature | New    | Low      | osmo-trx: Use gcc attribute no_sanitize to run fine with ASan enabled                                      |           | 08/26/2019 02:04 PM |   |
| 3344 | OsmoTRX | Feature | New    | Normal   | merge ttsou/siggen   |           | 06/13/2018 07:26 PM |   |
| 3345 | OsmoTRX | Feature | New    | Low      | merge ms branch  |           | 06/13/2018 07:16 PM |   |
| 3141 | OsmoTRX | Bug     | New    | Normal   | Refactor / clean up TRX CTRL / DATA interfaces implementation  |           | 04/05/2018 05:46 PM |   |
| 3067 | OsmoTRX | Bug     | New    | Normal   | osmo-trx usrp b100 time out and packet loss between host and device  | ttsou     | 03/15/2018 06:36 PM |   |
| 3033 | OsmoTRX | Feature | New    | Low      | Split wiki page into multiple smaller pages  |           | 03/05/2018 11:28 AM |   |

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| 4274 | OsmoSTP  | Bug     | New    | Normal   | AS Name isn't displayed  |          | 03/14/2024 10:33 AM |   |
| 4275 | OsmoSTP  | Feature | New    | Low      | Add TTCN3 STP_Tests_IPA.TC_tmt_broadcast   | pespin   | 12/01/2019 11:04 AM |   |
| 3605 | OsmoSTP  | Feature | New    | Normal   | Global Title Translation   |          | 07/18/2019 05:15 AM |   |
| 3604 | OsmoSTP  | Feature | New    | Normal   | Global Title Routing   |          | 07/18/2019 05:15 AM |   |
| 3603 | OsmoSTP  | Feature | New    | Low      | M2PA support   |          | 10/03/2018 08:58 AM | Related to #3603  |
| 3606 | OsmoSTP  | Feature | New    | Normal   | Support for multiple NI (network indicator)  |          | 10/03/2018 08:58 AM |   |
| 3607 | OsmoSTP  | Feature | New    | Normal   | Support for capability point codes   |          | 10/03/2018 08:58 AM |   |
| 3609 | OsmoSTP  | Feature | New    | Low      | Support for C-Link   |          | 10/03/2018 08:58 AM |   |
| 3602 | OsmoSTP  | Feature | New    | Low      | M2UA support   |          | 09/30/2018 08:00 AM |   |
| 1690 | OsmoSMSC | Bug     | New    | Normal   | Insert: Generate message ID (e.g. UUID)  | zecke    | 04/06/2016 12:26 PM |   |
| 1689 | OsmoSMSC | Feature | New    | Normal   | insert: Change destination number based on criteria similiar to route handling on output | zecke    | 04/06/2016 12:18 PM |   |
| 1623 | OsmoSMSC | Feature | New    | Normal   | Configure delivery report for the SMPP delivery links                                    | zecke    | 02/24/2016 01:49 PM |   |
| 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                       |
| 6441 | OsmoSGSN | Bug     | New    | Normal   | use-after-free on RAU with invalid Old RAI   |          | 04/22/2024 01:23 PM | Related to #6441  |
| 6139 | OsmoSGSN | Feature | New    | Normal   | test mobility between GERAN (OsmoPCU) and EUTRAN (Open5GS) end to end on real hardware   | dexter   | 04/02/2024 09:38 AM |   |
| 6295 | OsmoSGSN | Bug     | New    | Normal   | TMSI realloc complete leads to SecurityModeReject  | osmith   | 12/07/2023 03:15 PM |   |
| 1585 | OsmoSGSN | Feature | New    | Low      | Gn interface for inter-SGSN MM Context transfer  |          | 09/22/2023 02:42 PM | Related to #5759,Related to #6294,Is duplicate of #1585 |
| 6176 | OsmoSGSN | Bug     | New    | Low      | build failure (dependency / concurrency issue)   |          | 09/13/2023 03:14 PM |   |
| 5853 | OsmoSGSN | Feature | New    | Normal   | osmo-sgsn: Rework to use libosmo-gprs  |          | 01/11/2023 03:14 PM |   |
| 5852 | OsmoSGSN | Bug     | New    | Normal   | osmo-sgsn: Keep TLLI<->NSEI+BVC1 relation knowledge in BSSGP layer                       |          | 01/11/2023 03:08 PM |   |
| 5851 | OsmoSGSN | Bug     | New    | Normal   | check if rate ctr GMM_CTR_PKTS_UDATA_IN is correct increased in sgsn_gtp_data_req() func |          | 01/10/2023 06:40 PM |   |
| 5509 | OsmoSGSN | Bug     | New    | Normal   | llc/pdu lifetime: add vty config option to define default lifetime                       |          | 03/31/2022 04:11 PM |   |
| 5487 | OsmoSGSN | Feature | New    | Low      | get rid of osmo-juh.git's iu_client API and absorb into OsmoSGSN                         |          | 03/10/2022 06:05 PM |   |
| 5398 | OsmoSGSN | Bug     | New    | Normal   | Null pointer access at "uectx" in ranap_iu_tx  | pespin   | 01/10/2022 01:14 PM |   |
| 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  |
| 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  |
| 44   | OsmoSGSN | Bug     | New    | Normal   | TLLI clash possible  | pespin   | 02/06/2021 01:31 PM |   |

| #    | Project  | Tracker | Status | Priority | Subject   | Assignee | Updated             | Related issues   |
|------|----------|---------|--------|----------|---|----------|---------------------|--|
| 4886 | OsmoSGSN | Bug     | New    | Normal   | UE does not connect data when moving from 2G->3G                              |          | 12/04/2020 01:29 AM |  |
| 4825 | OsmoSGSN | Bug     | New    | Normal   | security command is missing sometimes   |          | 10/22/2020 02:40 AM |  |
| 4222 | OsmoSGSN | Bug     | New    | High     | Implement PS Paging for the Routing Areas                                     |          | 10/03/2020 02:20 PM | Related to #4222   |
| 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   |
| 4631 | OsmoSGSN | Bug     | New    | Low      | packet/byte counters don't work for 3G  |          | 06/24/2020 06:58 AM |  |
| 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 |
| 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   |
| 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                   |
| 2305 | OsmoSGSN | Bug     | New    | Normal   | review 'laforge/santos' branch and check if there are pending fixes           |          | 01/08/2020 10:56 PM |  |
| 3224 | OsmoSGSN | Bug     | New    | Normal   | verify ciphering after UMTS AKA   |          | 01/08/2020 10:48 PM | Related to #3193, Related to #3224                                     |
| 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 |  |
| 3696 | OsmoSGSN | Bug     | New    | Normal   | Intermittent Connection Drop  |          | 01/08/2020 10:48 PM |  |
| 2962 | OsmoSGSN | Bug     | New    | Normal   | Missing TTCN-3 test cases   |          | 01/08/2020 10:47 PM |  |
| 2957 | OsmoSGSN | Bug     | New    | Normal   | No timeout during GSUP PURGE MS to HLR  |          | 01/08/2020 10:47 PM |  |
| 2953 | OsmoSGSN | Bug     | New    | Normal   | No timeout waiting for UpdateLocation Response on GSUP                        |          | 01/08/2020 10:47 PM | Related to #2952   |
| 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                   |
| 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                   |
| 2955 | OsmoSGSN | Bug     | New    | High     | No GMM ATTACH REJECT on GSUP UpdateLocation Error                             | lynxis   | 09/10/2019 07:39 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   |
| 3923 | OsmoSGSN | Bug     | New    | Normal   | lu: Respond to SecurityCommandReject messages                                 |          | 04/24/2019 08:26 AM | Related to #3923   |
| 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 |  |

| #    | Project  | Tracker | Status | Priority | Subject   | Assignee | Updated             | Related issues   |
|------|----------|---------|--------|----------|---|----------|---------------------|------------------|
| 3940 | OsmoSGSN | Bug     | New    | Normal   | TTCN-3: lu: test UMTS Auth  |          | 04/24/2019 08:24 AM |                  |
| 3688 | OsmoSGSN | Feature | New    | Low      | move generic gtpub code to libosmocore  |          | 04/15/2019 07:29 AM |                  |
| 3689 | OsmoSGSN | Bug     | New    | Normal   | Support Cisco GGSN (Cisco 7200 with IOS 12.4.x)                                     |          | 04/09/2019 11:21 AM |                  |
| 2959 | OsmoSGSN | Bug     | New    | Low      | OsmoSGSN puts bogus LAC/RAC in GTP Create PDP CTX ACT REQ                           | osmith   | 09/30/2018 11:41 AM |                  |
| 2692 | OsmoSGSN | Bug     | New    | Low      | HLR string in CDR and VTY is empty  | pespin   | 09/30/2018 11:39 AM |                  |
| 33   | OsmoSGSN | Feature | New    | Low      | real LLC implementation with fragmentation and re-transmissions                     |          | 11/09/2016 09:45 AM |                  |
| 1588 | OsmoSGSN | Feature | New    | Normal   | Inter-RAT hand-over   |          | 02/23/2016 03:46 PM |                  |
| 1586 | OsmoSGSN | Feature | New    | Normal   | Implement QoS profile support   |          | 02/23/2016 03:45 PM |                  |
| 5047 | OsmoSDR  | Feature | New    | Normal   | Inconsistencies between SDR's in bias-tee parameter                                 |          | 12/19/2021 01:17 PM |                  |
| 5031 | OsmoSDR  | Bug     | New    | Normal   | Please switch to gr-funcube   |          | 06/17/2021 09:23 AM |                  |
| 5117 | OsmoSDR  | Bug     | New    | Normal   | Error building gr-osmosdr with libhackrf  |          | 04/15/2021 07:56 AM |                  |
| 6436 | OsmoPCU  | Bug     | New    | High     | high cpu usage, entire BTS unresponsive after some hours                            | keith    | 04/13/2024 04:32 PM |                  |
| 6303 | OsmoPCU  | Feature | New    | Low      | Convert pcuif to TLV to make backwards compatibility more feasible                  |          | 02/15/2024 09:23 PM |                  |
| 6015 | OsmoPCU  | Bug     | New    | Normal   | osmo-pcu (with ericsson RBS) is unable to keep TRAU frames in sync                  | dexter   | 12/23/2023 01:12 AM |                  |
| 6150 | OsmoPCU  | Feature | New    | Normal   | PCUIF: Use unique identifiers instead of the TLLI as msg_id.                        | dexter   | 10/24/2023 03:15 PM |                  |
| 6118 | OsmoPCU  | Bug     | New    | Normal   | osmo-pcu assigns multi-slot TBFs over PACCH to MS with unknown ms_class             | pespin   | 09/22/2023 02:33 PM |                  |
| 4869 | OsmoPCU  | Bug     | New    | Normal   | wireshark: Support dissecting LLC frames on top of RLCMAC (E)GPRS data blocks       |          | 06/26/2023 11:03 AM | Related to #5367 |
| 5930 | OsmoPCU  | Feature | New    | Low      | handle multiple BTSs with one PCU   |          | 03/03/2023 10:47 AM |                  |
| 5844 | OsmoPCU  | Bug     | New    | Normal   | pcu: ns: ip-sns: 2 local binds with a single remote is invalid                      |          | 12/22/2022 09:59 PM |                  |
| 5834 | OsmoPCU  | Feature | New    | Normal   | VTY option "two-phase-access" is misleading   |          | 12/19/2022 06:55 PM |                  |
| 5833 | OsmoPCU  | Feature | New    | Low      | A "meas-feed" for osmo-pcu  | keith    | 12/18/2022 06:42 PM |                  |
| 5827 | OsmoPCU  | Feature | New    | Normal   | osmo-pcu: Hardcoded limit of maximum number of 8 TRX per BTS                        | pespin   | 12/16/2022 11:55 AM |                  |
| 5300 | OsmoPCU  | Bug     | New    | Normal   | osmo-pcu: SUSPEND-NACK not implemented  |          | 03/31/2022 02:59 PM |                  |
| 5212 | OsmoPCU  | Bug     | New    | Low      | apparently T3193 is by default not set to its defined default value                 | pespin   | 11/15/2021 07:13 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 |                  |
| 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 |                  |
| 5149 | OsmoPCU  | Bug     | New    | Low      | osmo-pcu fails to allocate all DL-TBF possible slots under specific scenario        | pespin   | 09/15/2021 09:49 AM |                  |
| 5122 | OsmoPCU  | Feature | New    | Normal   | Choose SBA allocation offset based on AGCH queue load in the BTS                    | pespin   | 04/20/2021 12:51 PM | Related to #5122 |
| 1558 | OsmoPCU  | Feature | New    | Low      | Generate BSSGP LLC Discarded messages on TBF/MS free                                | osmith   | 02/13/2021 05:44 PM | Related to #4847 |
| 1527 | OsmoPCU  | Feature | New    | Low      | Set correct values of the puncturing scheme and the retransmission flag             | pespin   | 02/08/2021 07:10 PM |                  |



| #    | Project | Tracker | Status | Priority | Subject  | Assignee | Updated             | Related issues                    |
|------|---------|---------|--------|----------|--|----------|---------------------|-----------------------------------|
| 1532 | OsmoPCU | Bug     | New    | Low      | Increased number of poll timeouts on shared PDCHs  | pespin   | 02/08/2021 05:22 PM | Related to #1524                  |
| 1528 | OsmoPCU | Bug     | New    | Low      | Find a real fix for EGPRS_AckNack_w_len_t decoding   | pespin   | 02/06/2021 01:04 PM |                                   |
| 3285 | OsmoPCU | Feature | New    | Normal   | design + implement tools to analyze inter-PCU cell changes   | daniel   | 02/06/2021 11:12 AM | Related to #3284                  |
| 4966 | OsmoPCU | Bug     | New    | Normal   | osmo-pcu: gprs+egprs multiplex: Allow selecting original 8-PSK dl block during retransmission for GMSK-required DL block |          | 01/26/2021 01:07 PM | Related to #4966                  |
| 4967 | OsmoPCU | Feature | New    | Normal   | osmo-pcu: Avoid sending new DL EGPRS blocks to MS announcing MS_OUT_OF_MEMORY  |          | 01/21/2021 02:26 PM |                                   |
| 4019 | OsmoPCU | Bug     | New    | Normal   | implement a command to show all informations from the bts  |          | 11/25/2020 07:33 PM |                                   |
| 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 |
| 4847 | OsmoPCU | Bug     | New    | Normal   | fix LLC-DISCARD behaviour  |          | 11/04/2020 02:37 AM | Related to #4847                  |
| 4846 | OsmoPCU | Feature | New    | Normal   | change RBB received block bitmap into 1s when everything was acked   |          | 11/04/2020 02:29 AM |                                   |
| 1624 | OsmoPCU | Bug     | New    | Normal   | add CRBB support to write_packet_ack_nack_desc_egprs   |          | 10/20/2020 08:37 AM |                                   |
| 4813 | OsmoPCU | Feature | New    | Low      | FANR (Fast ACK/NACK Reporting) support   |          | 10/16/2020 08:46 AM |                                   |
| 4812 | OsmoPCU | Feature | New    | Low      | RTTI (Reduced Transmission Time Interval) Support  |          | 10/16/2020 08:43 AM |                                   |
| 1546 | OsmoPCU | Feature | New    | Low      | closed loop uplink power control   |          | 09/30/2020 08:05 PM |                                   |
| 3929 | OsmoPCU | Bug     | New    | Normal   | Missing PCU_Tests.ttcn link adaptation tests   | pespin   | 06/17/2020 08:32 AM | Related to #3929                  |
| 1903 | OsmoPCU | Feature | New    | Low      | convert c++ -> c   |          | 03/23/2020 10:48 PM |                                   |
| 1530 | OsmoPCU | Feature | New    | Low      | Assign same TFI number in downlink/uplink  |          | 01/26/2020 08:50 AM |                                   |
| 1555 | OsmoPCU | Feature | New    | Low      | Add support for unacknowledged RLC Mode  |          | 01/22/2020 02:59 PM |                                   |
| 3284 | OsmoPCU | Bug     | New    | Normal   | GPRS cell re-selection appears sticky in packet transfer / packet idle mode  |          | 01/08/2020 10:45 PM | Related to #2400,Related to #3284 |
| 2603 | OsmoPCU | Bug     | New    | Low      | Review the various incomplete and never merged changes in radisys branch   |          | 01/08/2020 10:44 PM | Related to #1775                  |
| 1543 | OsmoPCU | Feature | New    | Normal   | link/rate adaption as per spec   |          | 01/08/2020 10:43 PM | Related to #1543,Related to #1543 |
| 1925 | OsmoPCU | Bug     | New    | High     | Fix padding for MCS8 transition  |          | 01/08/2020 10:31 PM |                                   |
| 1560 | OsmoPCU | Feature | New    | High     | EDGE benchmarking / performance optimization / tuning  |          | 01/08/2020 10:31 PM |                                   |
| 4018 | OsmoPCU | Bug     | New    | Normal   | investigate ordering of includes paths   |          | 05/23/2019 10:59 AM |                                   |
| 2383 | OsmoPCU | Bug     | New    | Normal   | incompatibility with some SGSNs during P-TMSI allocation   | laforge  | 07/04/2018 12:50 PM |                                   |
| 1537 | OsmoPCU | Feature | New    | Low      | Move the BSSGP handling to libosmocore   |          | 03/01/2018 11:17 PM | Related to #1537,Related to #2388 |
| 2405 | OsmoPCU | Feature | New    | Low      | RLC/MAC encoding routines don't use bitvec L/H   |          | 07/29/2017 09:01 AM |                                   |

| #    | Project  | Tracker | Status | Priority | Subject   | Assignee | Updated             | Related issues                    |
|------|----------|---------|--------|----------|---|----------|---------------------|-----------------------------------|
| 1549 | OsmoPCU  | Feature | New    | Normal   | DRX support for GPRS  |          | 02/04/2017 08:11 AM | Related to #1942                  |
| 1554 | OsmoPCU  | Feature | New    | Normal   | per-MS BSSGP flow control   |          | 02/23/2016 03:12 PM | Related to #1554                  |
| 1550 | OsmoPCU  | Bug     | New    | Normal   | Cell reselection under network control  |          | 02/23/2016 03:06 PM |                                   |
| 1547 | OsmoPCU  | Feature | New    | Normal   | downlink power control on PDTCH   |          | 02/23/2016 03:04 PM |                                   |
| 4642 | OsmoNITB | Bug     | New    | Low      | Attempting to set illegal id for FSM instance of type 'OM2000-MO'                                       |          | 07/03/2020 06:40 PM |                                   |
| 1812 | OsmoNITB | Feature | New    | Normal   | Report gsm0408_dispatch() failures to MS / UE   |          | 01/08/2020 10:56 PM |                                   |
| 1667 | OsmoNITB | Feature | New    | Normal   | Handle callref better   |          | 09/04/2019 09:31 AM | Related to #3294                  |
| 18   | OsmoNITB | Feature | New    | Low      | store last location identity to database  |          | 05/24/2018 01:15 PM |                                   |
| 21   | OsmoNITB | Bug     | New    | Low      | we don't see CHANnel ReQireD from motorola EZX phones at call setup                                     |          | 03/05/2018 07:36 PM |                                   |
| 28   | OsmoNITB | Bug     | New    | Low      | Old siemens phones cannot make voice calls (04.08 channel mode)   |          | 03/05/2018 07:36 PM |                                   |
| 37   | OsmoNITB | Bug     | New    | Normal   | RTP Proxy dealing with SSRC change and sequence numbers   |          | 03/05/2018 07:34 PM |                                   |
| 38   | OsmoNITB | Bug     | New    | Normal   | subscr_update should sync database before dispatching the signal  |          | 03/05/2018 07:34 PM |                                   |
| 48   | OsmoNITB | Bug     | New    | Normal   | Periodic timer and paging   |          | 03/05/2018 07:34 PM |                                   |
| 54   | OsmoNITB | Bug     | New    | Normal   | osmo-nitb keeps rtp-proxy socket open in case no DLCX_IND is sent                                       |          | 03/05/2018 07:34 PM |                                   |
| 1829 | OsmoNITB | Bug     | New    | Normal   | Fix warnings introduced by ctrl constify  |          | 03/05/2018 07:34 PM |                                   |
| 1904 | OsmoNITB | Bug     | New    | Normal   | get rid of deprecated functions   |          | 03/05/2018 07:33 PM |                                   |
| 1955 | OsmoNITB | Bug     | New    | Normal   | Investigate "Bad signalling message" error  |          | 03/05/2018 07:33 PM |                                   |
| 2433 | OsmoNITB | Bug     | New    | Low      | Drop MGCP_DUMMY_LOAD frames and use proper Osmux Dummy frames   | pespin   | 08/21/2017 02:23 PM |                                   |
| 2414 | OsmoNITB | Bug     | New    | Normal   | SMSC: deliverSM message with no user_message_reference  |          | 08/15/2017 05:53 PM | Related to #2413,Related to #2414 |
| 2438 | OsmoNITB | Bug     | New    | Normal   | MS not registered from osmocom PoV, but registered from ofono PoV                                       |          | 08/14/2017 09:36 AM |                                   |
| 72   | OsmoNITB | Bug     | New    | Low      | struct gsm_call can leak..  |          | 05/09/2016 07:37 PM |                                   |
| 70   | OsmoNITB | Bug     | New    | Low      | nitb crashes in the rtp_proxy when a phone on a MT-call sends a 'CONNECT' before the CRCX ACK came back |          | 05/09/2016 07:37 PM |                                   |
| 6427 | OsmoMSC  | Bug     | New    | Normal   | ttn3-msc-test: TC_mo_ussd_for_unknown_trans fails sporadically  |          | 04/02/2024 03:01 PM | Related to #6427                  |
| 6330 | OsmoMSC  | Bug     | New    | Normal   | Incorrect handling of V.120 data calls  |          | 01/18/2024 03:02 PM | Related to #6344                  |
| 6321 | OsmoMSC  | Bug     | New    | Low      | SMS not delivered from corrupted SMS database   |          | 01/02/2024 01:07 PM |                                   |
| 4004 | OsmoMSC  | Bug     | New    | Low      | lu_fsm_priv.rej_cause is never used   | neels    | 11/21/2023 02:37 AM |                                   |
| 6009 | OsmoMSC  | Bug     | New    | Normal   | omo-msc: lots of tiv_parse() calls in src/libmsc/gsm_04_08.c have no return code checked for errors     |          | 04/19/2023 03:19 PM |                                   |
| 6000 | OsmoMSC  | Feature | New    | Normal   | Allow emergency calls without IMSI (using IMEI as MI)   |          | 04/12/2023 11:03 AM | Related to #6000                  |
| 5780 | OsmoMSC  | Feature | New    | Normal   | Implement/Support UUS1  |          | 01/24/2023 10:48 AM |                                   |
| 5699 | OsmoMSC  | Bug     | New    | Normal   | MNCC_RTP_CREATE is not sent in a call waiting scenario  |          | 10/10/2022 06:46 PM |                                   |

| #    | Project | Tracker | Status | Priority | Subject  | Assignee  | Updated             | Related issues                    |
|------|---------|---------|--------|----------|--|-----------|---------------------|-----------------------------------|
| 5196 | OsmoMSC | Bug     | New    | Normal   | Verify several "event not permitted" log lines in unit tests   | neels     | 08/23/2022 04:08 PM |                                   |
| 5197 | OsmoMSC | Bug     | New    | Normal   | msc_i Unimplemented msg type: HANDOVER PERFORMED   | neels     | 08/23/2022 04:05 PM |                                   |
| 3648 | OsmoMSC | Feature | New    | Low      | persistent VLR (across re-starts of osmo-msc / across power outage)                                      |           | 05/17/2022 05:39 PM | Related to #3649                  |
| 5340 | OsmoMSC | Bug     | New    | Normal   | ttcn3-msc-test: more memory leaks  | fixeria   | 05/15/2022 04:47 PM |                                   |
| 1974 | OsmoMSC | Feature | New    | Low      | VLR: high water mark on subscriber storage   |           | 05/15/2022 01:45 PM | Related to #1973                  |
| 5491 | OsmoMSC | Bug     | New    | Low      | MT CSFB calls fail (only) first time after Airplane mode toggle (probably on first attach to EUTRAN too) | keith     | 03/19/2022 09:37 PM |                                   |
| 5403 | OsmoMSC | Feature | New    | Normal   | Can't connect Call from 2G to 4G network   | laforge   | 01/14/2022 10:41 PM |                                   |
| 5057 | OsmoMSC | Bug     | New    | High     | Can only send a maximum of 15 SMPP messages?   | Hoernchen | 09/15/2021 09:53 AM |                                   |
| 4691 | OsmoMSC | Bug     | New    | Low      | setfault in osmo_sockaddr_str_is_set() via call_leg_ensure_ci()  |           | 02/06/2021 09:47 AM |                                   |
| 4983 | OsmoMSC | Feature | New    | Low      | PERFORM LOCATION REQUEST / RESPONSE  |           | 01/28/2021 11:44 AM |                                   |
| 4982 | OsmoMSC | Feature | New    | Low      | Support for BSSMAP RESOURCE INDICATION   |           | 01/27/2021 03:01 PM | Related to #4982                  |
| 4980 | OsmoMSC | Feature | New    | Low      | Implement routing of BSSMAP LOAD INDICATION in OsmoMSC   |           | 01/27/2021 02:43 PM | Related to #4980,Related to #4980 |
| 4972 | OsmoMSC | Bug     | New    | Normal   | manual: the MNCC protocol is outdated (RTP)  |           | 01/24/2021 05:58 PM |                                   |
| 4337 | OsmoMSC | Bug     | New    | Normal   | osmo-msc: Don't send LU-Reject after LU-Accept if no TMSI Realloc Complete is received                   |           | 01/07/2021 06:22 PM | Related to #4337                  |
| 4863 | OsmoMSC | Bug     | New    | Low      | T3212 is unclear in config/vty   |           | 11/19/2020 06:10 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             |
| 2883 | OsmoMSC | Bug     | New    | Normal   | GSUP encoding of MSISDN is wrong   |           | 10/20/2020 08:41 AM | Related to #4324,Related to #4333 |
| 4784 | OsmoMSC | Bug     | New    | Normal   | wrong cause code (resources unavailable) in MO-to-MT call without response                               | neels     | 10/08/2020 02:35 PM |                                   |
| 4764 | OsmoMSC | Bug     | New    | Normal   | make sure Assignment times out, always   |           | 09/23/2020 02:08 PM |                                   |
| 4717 | OsmoMSC | Feature | New    | Normal   | support Handover with changing codec   |           | 08/18/2020 05:14 PM | Related to #4717                  |
| 4660 | OsmoMSC | Bug     | New    | Normal   | GSM AUTH failure: mismatching sres - with module TRM-5 ext   |           | 07/12/2020 08:01 PM |                                   |
| 4634 | OsmoMSC | Feature | New    | Low      | lu: record SAC, and show RNC ID and SAC in the vty upon 'show subscriber'                                |           | 06/24/2020 06:08 PM |                                   |
| 4633 | OsmoMSC | Feature | New    | Normal   | update the Cell ID in the VLR after an inter-BSC / inter-MSC handover                                    |           | 06/24/2020 12:40 PM |                                   |
| 4632 | OsmoMSC | Feature | New    | Normal   | update the cell id in the VLR when receiving BSSMAP HANDOVER PERFORMED from the BSC                      |           | 06/24/2020 12:35 PM | Related to #4632                  |
| 4612 | OsmoMSC | Support | New    | Normal   | test handover on non-voice call conn (no CC transaction present)   |           | 06/14/2020 12:21 PM |                                   |

| #    | Project | Tracker | Status | Priority | Subject  | Assignee | Updated             | Related issues  |
|------|---------|---------|--------|----------|--|----------|---------------------|---|
| 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 |
| 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 |   |
| 4451 | OsmoMSC | Bug     | New    | Normal   | vtv 'show stats level': different stats levels yield identical results                             |          | 03/09/2020 10:10 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 |   |
| 3169 | OsmoMSC | Bug     | New    | Low      | OsmoMSC rejects SMPP messages with empty SMS   |          | 01/08/2020 10:56 PM |   |
| 2884 | OsmoMSC | Bug     | New    | Low      | Call Control timers are very long and not configurable   |          | 01/08/2020 10:56 PM |   |
| 2698 | OsmoMSC | Bug     | New    | Low      | Add more tests to jenkins job testing osmo-msc against NG40tester                                  |          | 01/08/2020 10:17 PM | Related to #2477  |
| 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  |
| 4196 | OsmoMSC | Feature | New    | Normal   | CC Setup, Call Confirmed: decode and use the Supported Codec List IE                               |          | 09/25/2019 05:27 PM |   |
| 2943 | OsmoMSC | Bug     | New    | Normal   | Errors in MGCP do not propagatate back to MNCC gsm_subscriber_conn state machine                   |          | 09/04/2019 09:21 AM |   |
| 25   | OsmoMSC | Feature | New    | Low      | Call HOLD / RETRIEVE support for internal MNCC   |          | 08/01/2019 03:06 PM |   |
| 1973 | OsmoMSC | Feature | New    | Low      | VLR: efficient subscriber lookup   |          | 07/18/2019 06:15 AM | Related to #1973  |
| 1603 | OsmoMSC | Feature | New    | Low      | Interfacing the MSC with other networks: Roaming interfaces / MAP                                  |          | 07/18/2019 06:13 AM |   |
| 3165 | OsmoMSC | Feature | New    | Low      | Verify LU Request's LAI  | osmith   | 07/18/2019 05:48 AM | Related to #3164  |
| 3163 | OsmoMSC | Bug     | New    | Low      | RANAP: reject Level 3 Complete from cells with invalid LAI   | osmith   | 07/18/2019 05:47 AM | Related to #3162,Related to #3163                                   |
| 2877 | OsmoMSC | Bug     | New    | Normal   | OsmoMSC fails on bearer capability without octet 3a  | osmith   | 07/18/2019 05:45 AM |   |
| 2846 | OsmoMSC | Bug     | New    | Normal   | MSC doesn't close SCCP/BSSAP connection on CM SERV REQ tht cannot be parsed                        | osmith   | 07/18/2019 05:44 AM |   |
| 2895 | OsmoMSC | Bug     | New    | Normal   | OsmoMSC excessively uses LU Reject Cause 22 (congestion)   | osmith   | 07/18/2019 05:41 AM |   |
| 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  |
| 4017 | OsmoMSC | Bug     | New    | Normal   | MSC fails to handle calls  |          | 05/29/2019 04:56 PM |   |
| 3992 | OsmoMSC | Bug     | New    | Normal   | inter-MSC handover for signalling-only?  |          | 05/09/2019 11:39 AM |   |
| 3988 | OsmoMSC | Feature | New    | Low      | change the remaining DEBUGP() statements to LOG_MSC_A() / LOG_MSC_A_CAT()                          |          | 05/08/2019 03:26 PM |   |
| 3755 | OsmoMSC | Feature | New    | Low      | make retrieval of IMEISV configurable  |          | 05/07/2019 12:28 PM | Related to #3755  |
| 3880 | OsmoMSC | Bug     | New    | Normal   | GSUP MT-ForwardSM Message Reference - wrong value in a response                                    |          | 04/01/2019 07:47 AM |   |
| 3829 | OsmoMSC | Bug     | New    | Normal   | osmo-msc expects aoip TLV in Assignment Complete messages from BSC                                 |          | 03/07/2019 08:30 PM |   |

| #    | Project | Tracker | Status | Priority | Subject   | Assignee | Updated             | Related issues                                 |
|------|---------|---------|--------|----------|---|----------|---------------------|--|
| 3738 | OsmoMSC | Feature | New    | Normal   | Clarify PS-part of struct vlr_subscr  |          | 12/19/2018 12:34 PM |  |
| 3687 | OsmoMSC | Feature | New    | Normal   | Expand "show bsc" command   |          | 11/11/2018 09:50 PM |  |
| 3636 | OsmoMSC | Feature | New    | Normal   | detailed call statistics (with rate counters)   | osmith   | 10/08/2018 11:14 AM | Related to #3636                               |
| 2391 | OsmoMSC | Feature | New    | Low      | add osmocom specific TLVs to A-interface for BTS/TS and subscriber details  |          | 10/02/2018 03:40 PM |  |
| 2669 | OsmoMSC | Bug     | New    | Low      | osm-msc doesn't clean up BSC state  | osmith   | 09/30/2018 11:37 AM |  |
| 3110 | OsmoMSC | Bug     | New    | Normal   | Test and possibly fix ID Request after Auth failure   | neels    | 09/30/2018 11:36 AM |  |
| 3470 | OsmoMSC | Feature | New    | Low      | Allow sending "Emergency Number List IE" in LU ACCEPT   |          | 09/01/2018 08:18 PM | Related to #3470                               |
| 3469 | OsmoMSC | Feature | New    | Low      | Support for "service category" in emergency calls   |          | 08/24/2018 12:48 PM | Related to #3470                               |
| 2373 | OsmoMSC | Bug     | New    | Low      | SMS sent to old Nokia 1100: "message 0x332/1" causes CP-ERROR, and SMS is received 5 or more times  |          | 08/03/2018 05:22 PM |  |
| 41   | OsmoMSC | Bug     | New    | Normal   | Numbering Plan in OsmoMSC   |          | 06/23/2018 07:37 PM |  |
| 3125 | OsmoMSC | Bug     | New    | Low      | testcase for fixed "osmo-msc crashes while handling a call"   | neels    | 06/23/2018 07:26 PM | Related to #3122,Related to #2880              |
| 2795 | OsmoMSC | Feature | New    | Normal   | Handle UTRAN_CLSM_CHG in MSC  | neels    | 04/30/2018 12:06 PM | Related to #3043                               |
| 2933 | OsmoMSC | Bug     | New    | Low      | change of trans->bearer_cap (e.g. via MNCC) will not trigger BSSMAP ASSIGNMENT  |          | 02/12/2018 11:36 AM | Related to #2854                               |
| 2928 | OsmoMSC | Bug     | New    | Normal   | OsmoMSC doesn't do BSSMAP ASSIGNMENT if no MNCC_RTP_CREATE is received  |          | 02/11/2018 05:38 PM |  |
| 2916 | OsmoMSC | Bug     | New    | Normal   | asan failure on debian unstable in msc_vlr_test_gsm_ciph  |          | 02/09/2018 04:20 PM |  |
| 2878 | OsmoMSC | Feature | New    | Low      | OsmoMSC support for "Follow-on request/proceed"   |          | 01/26/2018 09:11 PM |  |
| 2832 | OsmoMSC | Feature | New    | Low      | MNCC doesn't include field for "supported codecs"   |          | 01/16/2018 07:00 AM | Related to #2832,Related to #1683              |
| 2788 | OsmoMSC | Feature | New    | Normal   | OsmoMSC should handle CM Service Abort message  | neels    | 01/04/2018 10:37 AM |  |
| 2191 | OsmoMSC | Feature | New    | Normal   | raw PDU mode for SMPP   |          | 12/23/2017 05:48 PM |  |
| 2390 | OsmoMSC | Feature | New    | Normal   | re-add osmocom specific TLVs to SMPP messages   |          | 12/23/2017 05:48 PM |  |
| 6297 | OsmoMGW | Bug     | New    | Normal   | octet-align=0 is the RFC 6871 specified default to use when omitted; but osmo-mgw assumes don't-care when omitted                                 |          | 12/12/2023 02:12 AM | Is duplicate of #5726                          |
| 5726 | OsmoMGW | Bug     | New    | Normal   | AMR octet-align in SDP: lack of 'octet-align' fmtp should imply octet-align=0, and the presence or absence of this fmtp should not have an effect |          | 12/12/2023 01:51 AM | Is duplicate of #5726                          |
| 6196 | OsmoMGW | Bug     | New    | Normal   | Codec negotiation failure false positives   | dexter   | 12/07/2023 06:25 AM | Related to #6293                               |
| 6293 | OsmoMGW | Bug     | New    | Normal   | osmo-mgw "decides" for a codec during MGCP handling; instead it should handle all configured payload type numbers as they arrive in RTP           |          | 12/07/2023 05:52 AM | Related to #6293,Related to #6293,Blocks #6136 |

| #    | Project | Tracker | Status | Priority | Subject   | Assignee  | Updated             | Related issues                                     |
|------|---------|---------|--------|----------|---|-----------|---------------------|--|
| 6060 | OsmoMGW | Bug     | New    | Low      | osmo-mgw: Implement MGCP RestartInProgress (RSIP)                                       | jolly     | 10/18/2023 04:59 PM |  |
| 5730 | OsmoMGW | Feature | New    | Low      | Fax over GSM support  | manawayrm | 10/16/2023 08:53 PM | Precedes #5730                                     |
| 4745 | OsmoMGW | Bug     | New    | Low      | osmo-mgw: Wrong IP address returned in SDP "o=" section                                 |           | 10/05/2022 11:00 AM |  |
| 4092 | OsmoMGW | Feature | New    | Normal   | Osmux: Support dynamic allocation of osmux sockets                                      | pespin    | 08/10/2022 07:50 AM | Related to #4092                                   |
| 5468 | OsmoMGW | Feature | New    | Normal   | osmo-mgw: 2g<->3g call support  |           | 06/03/2022 10:39 AM | Related to #5468,Related to #5468,Related to #5468 |
| 4153 | OsmoMGW | Bug     | New    | Normal   | 3G voice broken with ALu 9361 femto   |           | 04/25/2022 05:43 PM |  |
| 5313 | OsmoMGW | Bug     | New    | Normal   | libosmo-mgcp-client-dbg specific package not generated for debian                       |           | 11/16/2021 03:57 PM |  |
| 5279 | OsmoMGW | Feature | New    | Normal   | systemd service / unit for multiple osmo-mgw on one machine                             | osmith    | 10/25/2021 11:41 AM |  |
| 5044 | OsmoMGW | Bug     | New    | Low      | potential null pointer dereferences   | pespin    | 02/24/2021 11:48 AM |  |
| 2650 | OsmoMGW | Bug     | New    | Normal   | how can osmo-mgw send a dummy RTP packet before CRCX ACK?                               |           | 06/08/2020 07:08 PM | Related to #4005                                   |
| 4554 | OsmoMGW | Bug     | New    | Normal   | Clean up stale endpoints after OsmoBSC crash  |           | 05/16/2020 08:52 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 |  |
| 4551 | OsmoMGW | Feature | New    | Normal   | Dynamic/runtime allocation of new endpoints   |           | 05/14/2020 10:56 PM |  |
| 3443 | OsmoMGW | Bug     | New    | Low      | Check audio-payload options in osmo-mgw VTY   |           | 03/15/2020 08:43 AM |  |
| 4447 | OsmoMGW | Bug     | New    | Normal   | DSCP value should be a 6 bit field  | osmith    | 03/09/2020 04:50 PM | Related to #4447                                   |
| 4432 | OsmoMGW | Bug     | New    | Normal   | for 'domain **', mgw should echo the domain of the MGCP client                          |           | 03/04/2020 12:39 AM |  |
| 3731 | OsmoMGW | Bug     | New    | Normal   | TTCN3 TC_rtpem_selftest randomly fails  |           | 01/08/2020 10:18 PM |  |
| 3849 | OsmoMGW | Bug     | New    | Normal   | race condition problem in rtp flow tests of the ttcn3 testsuite                         |           | 09/04/2019 09:26 AM |  |
| 3442 | OsmoMGW | Bug     | New    | Normal   | fix int mgcp_codec_decide() in mgcp_codec.c   |           | 09/04/2019 09:26 AM |  |
| 2580 | OsmoMGW | Feature | New    | Low      | implement timeout/resend mechanism for mgcp_client                                      |           | 09/04/2019 09:26 AM |  |
| 4150 | OsmoMGW | Feature | New    | Low      | dead code / If an MDCX omits SDP, all codec config might be cleared                     |           | 08/13/2019 11:01 PM |  |
| 3980 | OsmoMGW | Bug     | New    | Normal   | Clear Command before CRCX OK may leak MGW endpoint                                      |           | 05/06/2019 10:11 PM |  |
| 3822 | OsmoMGW | Bug     | New    | Low      | conn mode "sendonly" behaves identically to "sendrecv"                                  |           | 03/04/2019 09:34 PM |  |
| 3207 | OsmoMGW | Feature | New    | Low      | Support for RTP Payload Format according to "ETSI TS 101 318"                           |           | 04/24/2018 03:53 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 |  |
| 2411 | OsmoMGW | Feature | New    | Low      | No support for RTP dynamic payload types - AMR/HR/EFR payload types are hardcoded       |           | 03/05/2018 07:04 PM |  |
| 2702 | OsmoMGW | Feature | New    | Low      | libosmo-mgcp doesn't use osmo_sock_API  |           | 12/03/2017 09:42 AM |  |
| 2651 | OsmoMGW | Feature | New    | Low      | Support MGCP Piggybacking   |           | 11/18/2017 05:44 PM |  |
| 2546 | OsmoMGW | Feature | New    | Low      | support play-out/announcement endpoint type   |           | 10/06/2017 12:30 PM |  |

| #    | Project   | Tracker | Status | Priority | Subject  | Assignee | Updated             | Related issues                                     |
|------|-----------|---------|--------|----------|--|----------|---------------------|--|
| 6433 | OsmoHNBGW | Bug     | New    | Normal   | DLGLOBAL ERROR counter group 'hnb' already exists for index 0, instead using index 1. This is a software bug that needs fixing. (rate_ctr.c:221) |          | 04/04/2024 11:11 PM |  |
| 6431 | OsmoHNBGW | Bug     | New    | Normal   | (coverity) uninitialized asn.1 state / overwriting asn.1 state in HNBAP  | neels    | 04/04/2024 11:08 PM |  |
| 6395 | OsmoHNBGW | Feature | New    | Low      | PFCP URR support in osmo-hnbgw   |          | 03/22/2024 08:08 AM | Related to #6395                                   |
| 4574 | OsmoHNBGW | Feature | New    | Low      | Femtocell choice in 2020/06  |          | 03/09/2024 07:09 PM |  |
| 5816 | OsmoHNBGW | Feature | New    | Low      | Picocells available in R.U   |          | 03/09/2024 07:09 PM |  |
| 5813 | OsmoHNBGW | Feature | New    | Low      | Alcatel-Lucent femtocells available in Europe  |          | 03/09/2024 07:09 PM |  |
| 5304 | OsmoHNBGW | Bug     | New    | Low      | Verizon CDMA femtocell   |          | 03/09/2024 07:09 PM |  |
| 4933 | OsmoHNBGW | Bug     | New    | Low      | Femtocell choice in U.K 2021/01  |          | 03/09/2024 07:09 PM |  |
| 4882 | OsmoHNBGW | Feature | New    | Low      | HSPA+ Picocell available in U.S  |          | 03/09/2024 07:08 PM |  |
| 4790 | OsmoHNBGW | Feature | New    | Low      | Vodafone HSPA+ femtocell available in Deutschland  |          | 03/09/2024 07:08 PM |  |
| 6380 | OsmoHNBGW | Bug     | New    | Normal   | VTY transcript tests are broken [again]  |          | 02/28/2024 06:57 PM |  |
| 6285 | OsmoHNBGW | Feature | New    | Low      | IUFP needs not CRCX in loopback mode   |          | 12/04/2023 03:58 AM |  |
| 6283 | OsmoHNBGW | Bug     | New    | Normal   | cnpool: hnbgw fails to extract Mobile Identity from some GMM Attach Request messages   |          | 12/04/2023 01:48 AM |  |
| 6137 | OsmoHNBGW | Feature | New    | Normal   | ip.access Nano3G   | lynxis   | 10/21/2023 07:24 PM |  |
| 6085 | OsmoHNBGW | Feature | New    | Low      | context_map_sccp.c parrots states/events that the SCCP-SCOC FSM already handles  | neels    | 10/18/2023 03:31 PM |  |
| 5904 | OsmoHNBGW | Feature | New    | Normal   | HNBAP Register Request handling does checks that seem to make no sense   | neels    | 09/01/2023 05:00 AM |  |
| 6158 | OsmoHNBGW | Bug     | New    | Normal   | IMSI not shown in "show ue all"  | lynxis   | 08/29/2023 03:11 PM |  |
| 6051 | OsmoHNBGW | Feature | New    | Low      | misnomer in internal SCCP functions  | neels    | 07/06/2023 08:26 PM |  |
| 5876 | OsmoHNBGW | Bug     | New    | Normal   | on HNBAP HNB Register, clear previous UE state if any  | neels    | 03/20/2023 01:27 PM |  |
| 5867 | OsmoHNBGW | Feature | New    | Normal   | HNBGW_Tests.ttcn should do HNBAP UE Register and De-Register tests   |          | 01/21/2023 02:30 AM |  |
| 5869 | OsmoHNBGW | Bug     | New    | Normal   | osmo-hnbgw ignores HNBAP HNB De-Register   |          | 01/21/2023 01:52 AM |  |
| 2435 | OsmoHNBGW | Bug     | New    | Low      | Osmocom asn1c/libasn1c is based on old fork  |          | 12/21/2022 01:54 PM | Related to #2435,Related to #2435,Related to #3862 |
| 5837 | OsmoHNBGW | Bug     | New    | Normal   | osmo-juh: UE-REGISTER-REQ with ue_Identity type IMEI not implemented.  |          | 12/20/2022 03:43 PM |  |
| 5647 | OsmoHNBGW | Feature | New    | Normal   | cfg: separate PFCP Node ID from PFCP local address   |          | 08/17/2022 03:38 PM | Related to #5648,Related to #5682                  |
| 5573 | OsmoHNBGW | Bug     | New    | Normal   | osmo-hnbgw: RANAP LocationReportingControl not implemented   |          | 05/30/2022 02:05 PM |  |
| 1997 | OsmoHNBGW | Feature | New    | Normal   | Improve error check at compilation time  |          | 10/21/2021 04:28 PM |  |

| #    | Project   | Tracker | Status | Priority | Subject  | Assignee | Updated             | Related issues                                     |
|------|-----------|---------|--------|----------|--|----------|---------------------|--|
| 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                                   |
| 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                                   |
| 4926 | OsmoHNBGW | Bug     | New    | Normal   | nano3G disconnect / reconnect cycle with SCTP multi-homing   |          | 01/04/2021 11:38 AM | Related to #4926                                   |
| 2394 | OsmoHNBGW | Feature | New    | Low      | Implement SABP (Service Area Broadcast Protocol)   | laforge  | 12/30/2020 01:19 AM | Related to #2392,Related to #3979                  |
| 2437 | OsmoHNBGW | Bug     | New    | Low      | synchronize different asn1c APER forks   |          | 01/08/2020 10:56 PM | Related to #2435,Related to #2436,Related to #3862 |
| 2436 | OsmoHNBGW | Feature | New    | Low      | Test cases for asn1c APER encoding   |          | 01/08/2020 10:56 PM | Related to #2435,Related to #2436,Related to #3862 |
| 4128 | OsmoHNBGW | Feature | New    | Low      | Add support of Huawei hNodeB protocol  |          | 07/24/2019 03:39 PM |  |
| 6312 | OsmoHLR   | Bug     | New    | Normal   | Querying HLR for MSISDN-to-IMSI mapping is too cumbersome and inefficient  |          | 12/21/2023 06:52 AM | Related to #6312                                   |
| 5865 | OsmoHLR   | Feature | New    | Low      | Automate selection of LU Reject Cause  |          | 02/16/2023 10:36 AM |  |
| 5183 | OsmoHLR   | Feature | New    | Low      | EIR functionality  |          | 06/16/2021 06:22 AM | Related to #5183                                   |
| 2840 | OsmoHLR   | Feature | New    | Low      | HLR should allow 2g-only or 3g-only subscribers  | neels    | 10/28/2020 09:22 PM |  |
| 4312 | OsmoHLR   | Bug     | New    | High     | GSUP keepalives / connection loss detection  |          | 10/12/2020 02:42 PM |  |
| 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 |  |
| 4588 | OsmoHLR   | Feature | New    | Low      | OsmoHLR doesn't appear to have any statistics / counters   |          | 06/06/2020 09:44 AM |  |
| 4491 | OsmoHLR   | Bug     | New    | Low      | Cancel in old VLR/SGSN, if new VLR/SGSN differs from old   |          | 04/15/2020 12:29 PM |  |
| 4303 | OsmoHLR   | Bug     | New    | Low      | various minor issues about evaluation of rc = db_subscr_get_by_*( )  |          | 12/03/2019 11:02 PM |  |
| 3644 | OsmoHLR   | Feature | New    | Normal   | allow arbitrary bytes in Global Title (GT), a.k.a. the VLR,SGSN's identification towards the HLR                                 | neels    | 12/01/2019 10:02 AM | Related to #3644,Related to #3644                  |
| 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 |  |
| 3732 | OsmoHLR   | Feature | New    | Low      | Support tacdb query in HLR   |          | 07/18/2019 06:12 AM | Related to #3732                                   |
| 3649 | OsmoHLR   | Feature | New    | Low      | Investigate LMDB as HLR data storage   |          | 10/12/2018 11:35 AM | Related to #3649                                   |
| 3019 | OsmoHLR   | Feature | New    | Low      | add config for number of auth tuples returned  |          | 06/23/2018 06:58 PM |  |
| 1643 | OsmoHLR   | Feature | New    | Low      | programmatic access to new asynchronous external HLR   |          | 12/10/2017 08:06 PM | Related to #1643,Blocks #1643                      |



| #    | Project       | Tracker | Status | Priority | Subject  | Assignee | Updated             | Related issues   |
|------|---------------|---------|--------|----------|--|----------|---------------------|------------------|
| 2567 | OsmoHLR       | Feature | New    | Low      | tell the MSC(s) when subscriber data has changed   |          | 10/11/2017 01:50 AM |                  |
| 6149 | OsmoGSMTester | Bug     | New    | Normal   | osmo-gsm-tester Gerrit verifications currently broken, not running in docker   | osmith   | 08/25/2023 09:13 AM |                  |
| 6126 | OsmoGSMTester | Bug     | New    | Normal   | osmo-gsm-tester docker container uses debian 10  |          | 08/01/2023 09:49 AM | Related to #6126 |
| 3068 | OsmoGSMTester | Bug     | New    | Low      | osmo-gsm-tester: resource objects leaked or destroyed too late   | pespin   | 03/31/2023 03:28 PM |                  |
| 3234 | OsmoGSMTester | Feature | New    | Low      | osmo-gsm-tester: poll the python-smpplib socket using non-busy approach  | pespin   | 03/31/2023 03:28 PM | Related to #2512 |
| 3740 | OsmoGSMTester | Bug     | New    | Low      | osmo-gsm-tester: Figure out best fix for iperf3m4.py where some MS fails to register                                   | pespin   | 03/31/2023 03:28 PM |                  |
| 4502 | OsmoGSMTester | Feature | New    | Low      | osmo-gsm-tester: support gpio controlled step attenuators of the LTHW main unit  | pespin   | 03/31/2023 03:28 PM |                  |
| 4406 | OsmoGSMTester | Feature | New    | Low      | osmo-gsm-tester: Support setting auth_algo milenage or similar on osmocom software and filling HLR parameters like OPC | pespin   | 03/31/2023 03:26 PM | Related to #4407 |
| 2860 | OsmoGSMTester | Feature | New    | Low      | osmo-gsm-tester: Add 3g support with nano3G board  | pespin   | 03/31/2023 03:26 PM | Related to #2860 |
| 4808 | OsmoGSMTester | Feature | New    | Low      | osmo-gsm-tester: Add test setup to verify baseband frequency hopping   | pespin   | 03/31/2023 03:25 PM |                  |
| 5839 | OsmoGSMTester | Feature | New    | Normal   | Ability to switch off the osmo-trx machine   | pespin   | 12/20/2022 05:43 PM |                  |
| 5838 | OsmoGSMTester | Feature | New    | Normal   | Implement power switching for all BTSs   |          | 12/20/2022 05:30 PM |                  |
| 4900 | OsmoGSMTester | Feature | New    | Low      | hardware and wiring verification / selftest  |          | 12/08/2020 11:03 AM |                  |
| 3676 | OsmoGSMTester | Bug     | New    | Normal   | ofono: org.ofono.ConnectionManager property Bearer returning "none"  |          | 06/09/2020 08:39 PM |                  |
| 2200 | OsmoGSMTester | Feature | New    | Low      | osmo-gsm-tester: allow collecting statistics / KPI of a test case  |          | 04/06/2020 04:57 PM | Related to #2201 |
| 3917 | OsmoGSMTester | Bug     | New    | Normal   | ofono: update debian packages to match our dependencies  |          | 04/06/2020 11:30 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 |                  |
| 2612 | OsmoGSMTester | Feature | New    | Low      | Allow skipping pcaps by configuration if access to tcpdump is not wanted   |          | 04/06/2020 11:25 AM |                  |
| 3931 | OsmoGSMTester | Support | New    | Normal   | Contact quectel to get info about modem updates (hopefully less crashes)   |          | 01/08/2020 10:56 PM | Related to #3931 |
| 2432 | OsmoGSMTester | Feature | New    | Low      | ofono: Find out how to receive Status / Delivery report  |          | 01/08/2020 10:51 PM |                  |
| 2468 | OsmoGSMTester | Feature | New    | Low      | ofono: gobi modem doesn't support ofono SupplementaryServices interface  |          | 01/08/2020 10:51 PM |                  |
| 2236 | OsmoGSMTester | Bug     | New    | Low      | ofono: Fix valgrind issues   |          | 01/08/2020 10:51 PM |                  |
| 3564 | OsmoGSMTester | Feature | New    | Normal   | Investigate ofono and modems Cell Broadcast support  |          | 01/08/2020 10:42 PM | Related to #3564 |
| 3046 | OsmoGSMTester | Bug     | New    | Normal   | ofono: SierraW modem fails to power on   |          | 01/08/2020 10:41 PM |                  |
| 2621 | OsmoGSMTester | Bug     | New    | Normal   | Gobi2000: might stopped working because all CID got assigned   |          | 01/08/2020 10:40 PM |                  |
| 2941 | OsmoGSMTester | Bug     | New    | Normal   | ofono: SierraW sometimes crashing while deactivating a context.  |          | 01/08/2020 10:40 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 |
| 2861 | OsmoGSMTester | Feature | New    | Normal   | osmo-gsm-tester: Add 3g support for sysmocell-5k   |          | 12/02/2019 01:36 PM | Related to #2860 |

| #    | Project                    | Tracker | Status | Priority | Subject   | Assignee | Updated             | Related issues                    |
|------|----------------------------|---------|--------|----------|---|----------|---------------------|-----------------------------------|
| 2646 | OsmoGSMTester              | Feature | New    | Normal   | osmo-gsm-tester: Add osmo-sip-connector support                                       |          | 04/23/2018 10:40 AM |                                   |
| 2230 | OsmoGSMTester              | Feature | New    | Normal   | osmo-gsm-tester: arfcn as resource  |          | 12/14/2017 04:08 PM | Related to #2230                  |
| 2707 | OsmoGSMTester              | Feature | New    | Normal   | Add support for verifying content of log files after test is run                      |          | 12/04/2017 05:05 PM |                                   |
| 2189 | OsmoGSMTester              | Bug     | New    | Normal   | ofono: EC20: cannot send SMS  | lynxis   | 11/28/2017 04:21 PM |                                   |
| 2615 | OsmoGSMTester              | Bug     | New    | Normal   | Add API to check GPS lock in BTS  |          | 11/03/2017 05:00 PM |                                   |
| 2452 | OsmoGSMTester              | Bug     | New    | Low      | osmo-gsm-tester: ESME should send submit_sm as a response to deliver_sm               | pespin   | 10/29/2017 06:33 PM | Related to #2429                  |
| 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 |                                   |
| 2374 | OsmoGSMTester              | Feature | New    | Normal   | osmo-gsm-tester: add test case: sms between MS with delivery report                   |          | 08/10/2017 04:37 PM |                                   |
| 2431 | OsmoGSMTester              | Bug     | New    | Normal   | osmo-gsm-tester: add test case: MS sends SMS to ESME                                  |          | 08/10/2017 03:47 PM |                                   |
| 2399 | OsmoGSMTester              | Feature | New    | Normal   | add tests for graceful restart of individual components                               |          | 07/25/2017 12:02 AM |                                   |
| 2318 | OsmoGSMTester              | Feature | New    | Normal   | testing sysmobts: skip copying of binaries when the same are already installed        |          | 06/07/2017 03:55 PM |                                   |
| 2314 | OsmoGSMTester              | Feature | New    | Normal   | osmo-gsm-tester: add test case: smpp: correct ESME routing                            |          | 05/31/2017 04:29 PM |                                   |
| 2313 | OsmoGSMTester              | Feature | New    | Normal   | osmo-gsm-tester: add test case: smpp: imsi extension                                  |          | 05/31/2017 04:27 PM |                                   |
| 2311 | OsmoGSMTester              | Feature | New    | Normal   | osmo-gsm-tester: add test case: smpp: smpp_first feature                              |          | 05/31/2017 04:21 PM |                                   |
| 2208 | OsmoGSMTester              | Feature | New    | Low      | osmo-gsm-tester: allow running binaries for a whole suite, or only for a single test  |          | 05/30/2017 01:07 PM | Related to #2208                  |
| 2288 | OsmoGSMTester              | Feature | New    | Low      | logging: print in a short way which resource is being reserved and used               |          | 05/23/2017 02:25 PM |                                   |
| 2287 | OsmoGSMTester              | Feature | New    | Low      | processes launched by gsmtester: store command lines called next to stdout and stderr |          | 05/23/2017 12:11 PM |                                   |
| 2209 | OsmoGSMTester              | Feature | New    | Low      | osmo-gsm-tester: add test API to explicitly free a resource                           |          | 05/19/2017 11:01 AM | Related to #2208                  |
| 2271 | OsmoGSMTester              | Feature | New    | Low      | add test names to pick to the -s cmdline option                                       |          | 05/18/2017 12:32 PM |                                   |
| 2245 | OsmoGSMTester              | Bug     | New    | Low      | osmo-bts cfg: fix band string   |          | 05/15/2017 12:58 PM | Related to #2230                  |
| 2225 | OsmoGSMTester              | Feature | New    | Low      | tester nitb: connect ctrl interface only once   |          | 05/15/2017 12:58 PM |                                   |
| 2196 | OsmoGSMTester              | Feature | New    | Low      | libmsc ctrl interface: add CTRL command to query a single subscriber's attached state |          | 05/15/2017 12:58 PM |                                   |
| 6420 | OsmoGGSN (former OpenGGSN) | Bug     | New    | Low      | osmo-ggsn + pre-configured tun device seems to be broken with kernel gtp-u            |          | 03/26/2024 11:43 AM |                                   |
| 6419 | OsmoGGSN (former OpenGGSN) | Bug     | New    | Low      | osmo-ggsn removes tun devices it did not create                                       |          | 03/26/2024 11:26 AM |                                   |
| 6106 | OsmoGGSN (former OpenGGSN) | Bug     | New    | Normal   | OsmoGGSN attempts to use the same GTP-U socket for all APNs with gtpu-mode kernel-gtp |          | 02/21/2024 10:31 AM | Related to #6106,Related to #6106 |
| 6298 | OsmoGGSN (former OpenGGSN) | Feature | New    | Normal   | osmo-ggsn not providing MTU of the GTP tunnel to the MS                               |          | 02/15/2024 10:30 PM | Related to #6298                  |

| #    | Project                    | Tracker | Status | Priority | Subject   | Assignee | Updated             | Related issues   |
|------|----------------------------|---------|--------|----------|---|----------|---------------------|------------------|
| 5449 | OsmoGGSN (former OpenGGSN) | Bug     | New    | Low      | osmo-ggsn: Accept IPv4v6 EUA pdp creation in APv4/v6-only APNs by answering with changed PDP Type |          | 04/04/2023 09:46 AM |                  |
| 5773 | OsmoGGSN (former OpenGGSN) | Bug     | New    | Normal   | OsmoGGSN sends Direct Tunnel packets to the wrong IP address                                      |          | 11/17/2022 04:17 AM |                  |
| 4749 | OsmoGGSN (former OpenGGSN) | Bug     | New    | Normal   | Unknown/Unimplemented PCO Protocol  |          | 02/09/2022 01:26 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 |
| 2494 | OsmoGGSN (former OpenGGSN) | Feature | New    | Low      | IPv6 support on the outer (transport) layer   |          | 02/06/2021 12:09 PM |                  |
| 4433 | OsmoGGSN (former OpenGGSN) | Feature | New    | Normal   | sgsnemu: Add support for IPv4v6 EUAs  |          | 03/04/2020 10:44 AM |                  |
| 4415 | OsmoGGSN (former OpenGGSN) | Feature | New    | Normal   | Document in OsmoGGSN User Manual the IPv6 allocation process over GTP                             |          | 02/25/2020 03:05 PM |                  |
| 2946 | OsmoGGSN (former OpenGGSN) | Feature | New    | Low      | Add test suite for sgsnemu  | pespin   | 11/21/2019 05:03 PM |                  |
| 4172 | OsmoGGSN (former OpenGGSN) | Bug     | New    | Normal   | osmoggsn crashes when stopping  |          | 08/29/2019 11:35 AM |                  |
| 4161 | OsmoGGSN (former OpenGGSN) | Bug     | New    | Normal   | Implement pdp idle timer  | pespin   | 08/20/2019 06:30 PM | Related to #4161 |
| 4033 | OsmoGGSN (former OpenGGSN) | Feature | New    | Normal   | ttcn3-ggsn-test: Add tests to verify secondary pdp context management                             |          | 05/30/2019 03:19 PM |                  |
| 6255 | OsmoDia2GSUP               | Bug     | New    | Normal   | Implement 3GPP Purge UE Request   |          | 11/10/2023 01:29 PM |                  |
| 6148 | OsmoDia2GSUP               | Bug     | New    | Normal   | config file not installed not used by systemd service in debian                                   | pespin   | 10/18/2023 03:21 PM |                  |
| 5758 | OsmoDia2GSUP               | Feature | New    | Normal   | bring osmo_dia2gsup to production quality   | lynxis   | 03/30/2023 08:13 PM |                  |
| 4596 | OsmocomTETRA               | Feature | New    | Normal   | Port to GR3.8   |          | 01/08/2021 05:23 PM |                  |
| 1897 | OsmocomTETRA               | Bug     | New    | Low      | Inefficient sequence search in tetra_find_train_seq   |          | 04/10/2017 01:04 AM |                  |
| 5396 | OsmocomDECT                | Bug     | New    | High     | TcpDump/WireShark will not build with libpcap(dect)   |          | 01/09/2022 12:57 PM |                  |
| 5395 | OsmocomDECT                | Feature | New    | Normal   | Support for LMX3161   |          | 01/09/2022 12:55 PM |                  |
| 5394 | OsmocomDECT                | Bug     | New    | High     | Kernel Oops when loading com_on_air_cs (unable to handle kernel NULL pointer dereference)         |          | 01/09/2022 12:54 PM |                  |
| 5393 | OsmocomDECT                | Bug     | New    | High     | tipc problems while building on Ubuntu  |          | 01/09/2022 12:48 PM |                  |
| 5392 | OsmocomDECT                | Bug     | New    | High     | Sliding collision errors  |          | 01/09/2022 12:44 PM |                  |
| 5389 | OsmocomDECT                | Bug     | New    | Low      | Namespace clashes between kernel and userspace  |          | 01/09/2022 12:30 PM |                  |

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