

## 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 |                                   |
| 2807 | Z-Netz          | Bug     | Stalled     | Normal   | Obtain ZERBERUS software build[s] and manual[s]   | laforge       | 01/01/2020 01:51 PM |                                   |
| 2806 | UUCP and UseNet | Feature | New         | Low      | Create Dockerfile and/or ansible playbook for UseNet node                                     |               | 01/01/2018 01:04 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 |                                   |
| 1505 | UmTRX           | Bug     | New         | High     | OHM4 footprint incorrect  |               | 02/19/2016 10:52 PM |                                   |
| 3747 | UmTRX           | Feature | New         | Normal   | LMS6002D RX Gain Control  | ipse          | 01/08/2019 09:46 AM |                                   |
| 1518 | UmTRX           | Feature | New         | Normal   | Upper limit of the clock is too low   |               | 02/19/2016 10:52 PM |                                   |
| 1517 | UmTRX           | Feature | New         | Normal   | U_FL (UMC) connectors are not reliable after few connections                                  |               | 02/19/2016 10:52 PM |                                   |
| 1516 | UmTRX           | Feature | New         | Normal   | There are no port to control external equipment like PA                                       |               | 02/19/2016 10:52 PM |                                   |
| 1515 | UmTRX           | Feature | New         | Normal   | Heat dissipation and mounting issue   |               | 02/19/2016 10:52 PM |                                   |
| 1511 | UmTRX           | Feature | New         | Normal   | Solve Tx and Rx I/Q imbalance for wideband signals  |               | 02/19/2016 10:52 PM |                                   |
| 1509 | UmTRX           | Feature | New         | Normal   | Store calibration values in EEPROM  | ipse          | 02/21/2016 04:47 PM |                                   |
| 1506 | UmTRX           | Feature | New         | Normal   | Move to the latest stable UHD   | ipse          | 02/21/2016 04:47 PM |                                   |
| 1504 | UmTRX           | Feature | New         | Normal   | LMS6002 phase error increases when Rx is enabled and varies with temperature                  | ttsou         | 02/19/2016 10:52 PM |                                   |
| 5921 | SIMtrace 2      | Bug     | In Progress | High     | simtrace2 cardem vs. Linux kernel USB autosuspend   | laforge       | 09/16/2023 10:47 PM | Related to #5921                  |
| 5419 | SIMtrace 2      | Bug     | Stalled     | High     | cardem errors with higher baud rate   | laforge       | 11/07/2022 06:22 PM |                                   |
| 3379 | SIMtrace 2      | Bug     | Stalled     | High     | documentation on how to use SIMtrace2   | laforge       | 11/14/2022 05:31 PM | Related to #3379                  |
| 1705 | SIMtrace 2      | Bug     | Stalled     | High     | re-integrate tracing + card reader modes into SIMtrace2 firmware (SAM3S)                      | laforge       | 04/06/2021 01:19 AM | Related to #1705,Related to #3379 |
| 6181 | SIMtrace 2      | Bug     | Feedback    | Normal   | Unexpected INS code with simtrace2-sniff: 0x7f  | v.marinos     | 10/18/2023 09:41 PM |                                   |
| 5826 | SIMtrace 2      | Feature | Stalled     | Normal   | SAM4S4BA support in firmware  | laforge       | 01/31/2023 08:06 PM | Related to #5826                  |
| 5805 | SIMtrace 2      | Feature | New         | Normal   | SIM Trace 2 Build for Windows   | jelson_simEng | 04/02/2023 09:56 AM |                                   |
| 5770 | SIMtrace 2      | Bug     | Feedback    | Normal   | simtrace2 firmware ignores any but the first USB message sent by simtrace2-list after a reset | jtavares      | 11/23/2022 04:01 AM |                                   |
| 5639 | SIMtrace 2      | Bug     | Feedback    | Normal   | No packet captured but only "Card state change:"  | g1bbs         | 09/20/2023 01:29 PM |                                   |
| 5600 | SIMtrace 2      | Feature | Feedback    | Normal   | SIMtrace2 fails to emulate EMV cards  | boggy123      | 12/14/2022 01:07 PM |                                   |

| #    | Project                      | Tracker | Status      | Priority | Subject  | Assignee   | Updated             | Related issues  |
|------|------------------------------|---------|-------------|----------|--|------------|---------------------|---|
| 5464 | SIMtrace 2                   | Bug     | In Progress | Normal   | cardem firmware unable to attach to card                                       | laforge    | 11/18/2022 06:41 PM | Related to #5464  |
| 5422 | SIMtrace 2                   | Feature | In Progress | Normal   | "cardem" continuous testing setup  | laforge    | 01/27/2022 12:22 PM | Related to #5422  |
| 5415 | SIMtrace 2                   | Bug     | New         | Normal   | cardem: watchdog triggers firmware reset                                       | lynxis     | 02/15/2022 08:07 PM |   |
| 5276 | SIMtrace 2                   | Feature | Stalled     | Normal   | jenkins CI integration like for osmo-ccid-firmware                             | roh        | 11/14/2022 05:24 PM | Related to #5422  |
| 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 |   |
| 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                                   |
| 4041 | SIMtrace 2                   | Bug     | New         | Normal   | implement SIMTRACE_CMD_BD_BOARD_INFO   | laforge    | 12/06/2019 01:38 PM | Related to #4041  |
| 3815 | SIMtrace 2                   | Bug     | New         | Normal   | simtrace2 fails USB-IF CH9 test  | Hoernchen  | 05/12/2020 07:24 PM |   |
| 3711 | SIMtrace 2                   | Feature | New         | Normal   | Add screw holes for permanent installations                                    | mschramm   | 11/01/2023 08:28 PM |   |
| 3371 | SIMtrace 2                   | Feature | New         | Normal   | migrate to use arm-none-eabi build of libosmocore.git                          | laforge    | 08/09/2018 12:14 PM |   |
| 1911 | SIMtrace 2                   | Feature | New         | Normal   | check if we can have an enclosed version of simtrace v2                        | tsaitgaist | 09/13/2018 12:40 PM |   |
| 1460 | SIMtrace 2                   | Feature | New         | Normal   | include some version information / negotiation in the USB protocol             | laforge    | 12/06/2019 01:39 PM | Related to #1461,Related to #4041                                   |
| 5578 | SIMtrace 2                   | Bug     | Stalled     | Low      | osmo-remsim-client-st2 hangs after usb-reset without power loss on qmod        | laforge    | 01/31/2023 08:25 PM | Related to #5921  |
| 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 |   |
| 3501 | SIMtrace 2                   | Feature | New         | Low      | Multi-sim addon board idea   |            | 08/28/2018 03:00 PM |   |
| 1912 | SIMtrace 2                   | Feature | Stalled     | Low      | do proper re-layout of the board   | mschramm   | 10/20/2020 08:39 AM | Related to #4118  |
| 1706 | SIMtrace 2                   | Feature | In Progress | Low      | Hardware / Circuit board update for SAM3S based SIMtrace2 with 1.8V/5V support | mschramm   | 10/28/2023 11:25 AM | Related to #1706,Related to #5464,Related to #4118,Related to #5826 |
| 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  |
| 1457 | SIMtrace 2                   | Feature | New         | Low      | Spacing between JTAG and JP1/JP2   | mschramm   | 09/13/2018 07:07 PM |   |
| 1474 | SDR (Software Defined Radio) | Bug     | New         | High     | USB Claim Interface Error  | steve-m    | 02/20/2016 08:23 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 |   |

| #    | Project                      | Tracker | Status  | Priority | Subject  | Assignee | Updated             | Related issues |
|------|------------------------------|---------|---------|----------|--|----------|---------------------|----------------|
| 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 |                |
| 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 |                |
| 5892 | SDR (Software Defined Radio) | Feature | Stalled | Low      | design/build ext clock input board for PlutoSDR Rev.B  | laforge  | 10/18/2023 05:23 PM |                |
| 3126 | SDR (Software Defined Radio) | Bug     | New     | Low      | Windows 10 Pro 1709: crash of rtl_test.exe   |          | 03/30/2018 02:16 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 reelease tarballs missing from <a href="https://ftp.osmocom.org/releases/">https://ftp.osmocom.org/releases/</a> | osmith   | 10/19/2023 09:46 AM |                |
| 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 |                |
| 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 |                |
| 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 |                |
| 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 |                |
| 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 |                |
| 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 |                |

| #    | Project         | Tracker | Status      | Priority | Subject   | Assignee | Updated             | Related issues |
|------|-----------------|---------|-------------|----------|---|----------|---------------------|----------------|
| 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 |                |
| 2607 | rtl-sdr         | Bug     | New         | Normal   | rtl-sdr gnuradio cfile is outdated                                      |          | 06/03/2018 12:23 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 |                |
| 6224 | Retronetworking | Feature | Feedback    | Normal   | how to document the rescued EWSD  |          | 10/18/2023 04:51 PM |                |
| 6219 | Retronetworking | Feature | New         | Normal   | Publish pics/videos for EWSD rescue/move                                | laforge  | 10/17/2023 02:10 PM |                |
| 6218 | Retronetworking | Feature | New         | Normal   | write article/report on EWSD rescue for IGHFT / Fernmeldemuseum Dresden | laforge  | 10/17/2023 02:11 PM |                |
| 5855 | Retronetworking | Feature | New         | Normal   | Establishing a German non-profit for retronetworking                    | laforge  | 01/13/2023 11:59 AM |                |
| 5768 | Retronetworking | Feature | New         | Normal   | retronetworking logo / artwork  |          | 04/07/2024 10:40 PM |                |
| 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 |                |
| 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 |                |
| 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 |                |
| 5746 | Retronetworking | Feature | New         | Low      | Create H.221 decoder  |          | 11/07/2022 10:55 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 |                |
| 5511 | Retronetworking | Feature | New         | Low      | Idea: DAHDI backend for mISDN   |          | 09/18/2022 03:59 PM |                |
| 5488 | Retronetworking | Feature | In Progress | Low      | create DAHDI mirror sniffer   | laforge  | 11/07/2022 06:04 PM |                |
| 5463 | Retronetworking | Feature | In Progress | Low      | X.21 hardware interface   | vogelchr | 03/04/2023 02:37 PM |                |
| 4226 | Retronetworking | Feature | New         | Low      | STM-1 / USB interface?  |          | 01/30/2022 10:14 AM |                |
| 5938 | Retrocomputing  | Feature | In Progress | Normal   | assemble "fake parallel printer"  | laforge  | 09/13/2023 09:32 AM |                |
| 5947 | Retrocomputing  | Feature | New         | Low      | Assemble PC104-SVGA   | laforge  | 03/15/2023 09:29 AM |                |
| 5940 | Retrocomputing  | Feature | New         | Low      | Assemble LPT_Capture  | laforge  | 03/15/2023 09:06 AM |                |
| 5939 | Retrocomputing  | Bug     | In Progress | Low      | Assemble GraphicGremlin / isavideo                                      | laforge  | 03/15/2023 09:06 AM |                |
| 5936 | Retrocomputing  | Feature | New         | Low      | Assemble netpi-ide  | laforge  | 03/02/2023 09:25 PM |                |
| 5934 | Retrocomputing  | Feature | In Progress | Low      | Assemble Pico-GUS   | laforge  | 03/06/2023 04:25 PM |                |
| 5933 | Retrocomputing  | Feature | In Progress | Low      | Assemble XT-CF-Lite v4.1  | laforge  | 03/20/2023 09:54 AM |                |

| #    | Project                               | Tracker | Status      | Priority | Subject   | Assignee | Updated             | Related issues                    |
|------|---------------------------------------|---------|-------------|----------|---|----------|---------------------|-----------------------------------|
| 5932 | Retrocomputing                        | Feature | New         | Low      | assemble ISA-USB  | 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 |                                   |
| 1813 | Qualcomm Linux Modems by Quectel & Co | Bug     | New         | Normal   | cat /dev/snd/* causes kernel oops   |          | 09/30/2016 04:00 PM |                                   |
| 1814 | Qualcomm Linux Modems by Quectel & Co | Feature | New         | Low      | check if qtools work  |          | 10/02/2016 04:08 AM |                                   |
| 4383 | pySim                                 | Bug     | Stalled     | High     | Jenkins build verification is non-deterministic                               | dexter   | 04/06/2021 04:58 PM | Related to #4384,Related to #5127 |
| 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 |                                   |
| 6317 | pySim                                 | Bug     | Stalled     | Normal   | data driven tests for TLV decoders  | laforge  | 02/15/2024 09:21 PM |                                   |
| 6316 | pySim                                 | Feature | New         | Normal   | include test data in user manual  |          | 12/23/2023 03:10 PM |                                   |
| 6265 | pySim                                 | Feature | New         | Normal   | decode numeric SW in case of errors   | dexter   | 12/11/2023 01:01 PM |                                   |
| 6119 | pySim                                 | Bug     | In Progress | Normal   | aram_get_config runs into an exception on a sysmocomSJA2                      | laforge  | 12/05/2023 05:26 PM |                                   |
| 6089 | pySim                                 | Feature | Feedback    | Normal   | log the current file / operation during execeution of a script                | laforge  | 11/27/2023 04:37 PM |                                   |
| 5878 | pySim                                 | Bug     | New         | Normal   | pySim shell: version fails with DistributionNotFound                          | fixeria  | 10/06/2023 09:03 AM |                                   |
| 5714 | pySim                                 | Bug     | Stalled     | Normal   | update_record_decoded does not use real record length when writing EF.MSISDN  | dexter   | 09/17/2023 09:46 AM |                                   |
| 5630 | pySim                                 | Bug     | Stalled     | Normal   | pySim-trace doesn't support decoding classic SIM cards (TS 11.11 / TS 51.011) | laforge  | 07/24/2022 11:06 AM |                                   |
| 5550 | pySim                                 | Bug     | New         | Normal   | EF.ARR file decoding would need to be context dependent                       | chrysn   | 06/24/2022 08:50 AM |                                   |
| 5268 | pySim                                 | Feature | New         | Normal   | pySim-shell: GlobalPlatform SCP02 support                                     | laforge  | 10/14/2021 07:12 PM | Related to #5268                  |
| 5267 | pySim                                 | Feature | New         | Normal   | pySim-shell: Ability to deactivate entire applications on the card            |          | 10/14/2021 07:12 PM | Related to #5268                  |
| 5127 | pySim                                 | Feature | New         | Normal   | tool for "re-formatting" [sysmocom] cards in tester                           | laforge  | 10/14/2021 07:16 PM | Related to #5127                  |
| 4384 | pySim                                 | Feature | Stalled     | Normal   | Jenkins program-read verification on daily (or weekly) basis                  | dexter   | 03/27/2023 04:13 PM | Related to #4384                  |
| 6340 | pySim                                 | Bug     | New         | Low      | exception when using osmo-smdpp with python 3.9                               | laforge  | 02/15/2024 09:29 PM |                                   |

| #    | Project | Tracker | Status      | Priority | Subject  | Assignee  | Updated             | Related issues                                   |
|------|---------|---------|-------------|----------|--|-----------|---------------------|--|
| 6322 | pySim   | Bug     | New         | Low      | ATR type annotation  |           | 01/03/2024 09:55 PM |  |
| 6315 | pySim   | Feature | New         | Low      | have test data for all supported files   |           | 12/23/2023 09:36 AM |  |
| 6314 | pySim   | Bug     | New         | Low      | pySim-trace doesn't support ARA-M  |           | 12/23/2023 09:36 AM |  |
| 6211 | pySim   | Feature | In Progress | Low      | decode security attributes <code>_compact_</code> in human-readable way, like we decode EF.ARR                                       | dexter    | 12/15/2023 07:22 AM | Related to #6211                                 |
| 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                                 |
| 6104 | pySim   | Feature | New         | Low      | reduce number of python dependencies   |           | 07/20/2023 04:28 PM |  |
| 6092 | pySim   | Feature | New         | Low      | "export" suport for ARA-M  | dexter    | 10/31/2023 06:40 PM |  |
| 6086 | pySim   | Feature | New         | Low      | implement features of <code>sysmo-{usim, isim}-tool</code>   | laforge   | 07/13/2023 04:09 AM |  |
| 5976 | pySim   | Feature | New         | Low      | pySim-prog: do not program linked files multiple times   | dexter    | 03/27/2023 04:05 PM |  |
| 5235 | pySim   | Feature | New         | Low      | import / export as eUICC profile package ASN.1   |           | 06/09/2023 04:55 PM |  |
| 1919 | pySim   | Bug     | New         | Low      | issue with <code>grcardsim</code> from Greencard ( <code>grcard.cn</code> )  |           | 08/17/2017 06:45 AM |  |
| 5900 | OsmoUPF | Feature | In Progress | Normal   | make sure chain ids used in the <code>tunmap</code> nft ruleset are unused   |           | 02/09/2023 05:34 PM |  |
| 5814 | OsmoUPF | Feature | New         | Normal   | <code>tunmap</code> : more concisely match on GTP-U packets  |           | 12/06/2022 07:30 PM |  |
| 5662 | OsmoUPF | Feature | New         | Normal   | add Linux kernel options to manual   |           | 08/24/2022 03:13 PM |  |
| 6394 | OsmoUPF | Feature | Stalled     | Low      | Basic URR (Usage Reporting Rule) support for tunnel mapping  |           | 03/22/2024 08:08 AM | Related to #6395                                 |
| 5682 | OsmoUPF | Feature | New         | Low      | cfg: separate PFCP Node ID from PFCP local address   |           | 09/17/2022 02:21 PM | Related to #5682                                 |
| 5516 | OsmoTRX | Feature | In Progress | High     | BladeRF 2.0 Support  | Hoernchen | 02/14/2023 02:59 PM | Is duplicate of #2430                            |
| 4622 | OsmoTRX | Bug     | New         | High     | Lots of "dumping STALE burst in TRX->SDR interface" messages in <code>osmo-trx</code> after <code>osmo-bts-trx</code> proper restart | Hoernchen | 07/06/2020 11:57 AM |  |
| 3341 | OsmoTRX | Bug     | Stalled     | High     | <code>osmo-trx-lms</code> RF Envelope FAIL on LimeSDR, but not on LimeSDR-mini   |           | 09/30/2020 08:08 PM | Related to #3341, Related to #3861, Blocks #3341 |
| 6231 | OsmoTRX | Feature | New         | Normal   | add support / calibration values for AntSDR E200   | roh       | 10/21/2023 03:25 PM |  |
| 5859 | OsmoTRX | Feature | New         | Normal   | remove non-neon and non-sse support  | Hoernchen | 01/16/2023 10:17 PM |  |
| 5283 | OsmoTRX | Feature | New         | Normal   | Implement TRXDv2 support   | fixeria   | 10/27/2021 10:35 PM | Related to #5283                                 |
| 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 <code>limesdr</code> mini clock problem with <code>osmocom</code> ?  |           | 02/27/2021 01:55 PM |  |
| 4637 | OsmoTRX | Bug     | New         | Normal   | <code>limesdr</code> usb gain setting changes break <code>gsm</code> phasenoise constraints  |           | 06/29/2020 04:43 PM |  |
| 4469 | OsmoTRX | Bug     | New         | Normal   | <code>osmo-trx-uhd</code> is sending UDP packets to port 49600 at various addresses on startup                                       | laforge   | 06/13/2020 06:07 PM |  |

| #    | Project | Tracker | Status   | Priority | Subject  | Assignee  | Updated             | Related issues  |
|------|---------|---------|----------|----------|--|-----------|---------------------|---|
| 4468 | OsmoTRX | Bug     | Feedback | Normal   | "RSSI offset" default of 0 is not useful   | Hoernchen | 10/14/2020 02:40 PM | Related to #4468,Related to #4468,Related to #4583                  |
| 4366 | OsmoTRX | Bug     | New      | Normal   | Create testsuite to test osmo-bts-trx+osmo-trx under high channel load (w/ RACH correlation) | pespin    | 01/15/2020 01:59 PM | Related to #4366  |
| 4365 | OsmoTRX | Support | Stalled  | Normal   | Create testsuite to test osmo-bts-trx+osmo-trx under high channel load                       | dexter    | 09/03/2020 10:33 AM | Related to #4366  |
| 4362 | OsmoTRX | Feature | Stalled  | Normal   | osmo-trx-lms: Support multi-arfcn feature  |           | 09/30/2020 08:09 PM | Related to #4362,Related to #4362                                   |
| 3981 | OsmoTRX | Bug     | New      | Normal   | osmo-trx-lms: Overruns appear from time to time  |           | 09/30/2020 08:08 PM | Related to #3981  |
| 3949 | OsmoTRX | Bug     | New      | Normal   | osmo-trx-lms: improve runtime gain setting (missing calibration)                             |           | 09/30/2020 08:08 PM | Related to #4468  |
| 3775 | OsmoTRX | Bug     | Stalled  | Normal   | properly debug limesdr usb and limesdr mini clocking requirements and osmo-trx support       |           | 09/30/2020 08:09 PM | Blocks #3341,Blocks #3342,Blocks #3775                              |
| 3344 | OsmoTRX | Feature | New      | Normal   | merge ttsou/siggen   |           | 06/13/2018 07:26 PM |   |
| 3342 | OsmoTRX | Bug     | Stalled  | Normal   | osmo-trx-lms: low tx output power level  | Hoernchen | 04/06/2022 09:25 AM | Related to #3342,Blocks #3342                                       |
| 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 |   |
| 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                                   |
| 3054 | OsmoTRX | Feature | Stalled  | Normal   | Extended (11-bit) RACH support in OsmoTRX  | tnt       | 02/03/2019 11:45 AM | Related to #1854,Related to #3054,Related to #3054,Related to #4006 |
| 5228 | OsmoTRX | Feature | New      | Low      | osmo-trx: Missing unit tests for computeCI() and computeEdgeCI()                             | Hoernchen | 11/07/2022 06:23 PM |   |
| 4504 | OsmoTRX | Feature | New      | Low      | Buidl LimeSuite without GUI in osmocom feeds   |           | 09/30/2020 08:08 PM |   |
| 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   |
| 3962 | OsmoTRX | Feature | New      | Low      | osmo-trx: Use gcc attribute no_sanitize to run fine with ASan enabled                        |           | 08/26/2019 02:04 PM |   |
| 3345 | OsmoTRX | Feature | New      | Low      | merge ms branch  |           | 06/13/2018 07:16 PM |   |
| 3222 | OsmoTRX | Bug     | Stalled  | Low      | include (tested) example config files for usrp1, uhd/b200 as well as umtrx                   | tnt       | 10/20/2018 07:27 PM |   |
| 3033 | OsmoTRX | Feature | New      | Low      | Split wiki page into multiple smaller pages  |           | 03/05/2018 11:28 AM |   |

| #    | Project  | Tracker | Status      | Priority | Subject  | Assignee | Updated             | Related issues                              |
|------|----------|---------|-------------|----------|--|----------|---------------------|---|
| 2430 | OsmoTRX  | Feature | New         | Low      | osmo-trx support bladerf   |          | 02/14/2023 01:39 PM | Is duplicate of #2430,Is duplicate of #2430 |
| 4274 | OsmoSTP  | Bug     | New         | Normal   | AS Name isn't displayed  |          | 03/14/2024 10:33 AM |   |
| 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 |   |
| 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 |   |
| 4275 | OsmoSTP  | Feature | New         | Low      | Add TTCN3 STP_Tests_IPA.TC_tmt_broadcast   | pespin   | 12/01/2019 11:04 AM |   |
| 3609 | OsmoSTP  | Feature | New         | Low      | Support for C-Link   |          | 10/03/2018 08:58 AM |   |
| 3603 | OsmoSTP  | Feature | New         | Low      | M2PA support   |          | 10/03/2018 08:58 AM | Related to #3603                            |
| 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   | 04/19/2024 07:39 PM | Related to #6294                            |
| 5880 | OsmoSGSN | Bug     | In Progress | High     | User Manual sections 11.1.1-2 document non-existing (removed?) VTY commands              | lynxis   | 03/28/2023 02:45 PM |   |
| 5349 | OsmoSGSN | Bug     | In Progress | High     | Message for non-existing SNDCP Entity  |          | 07/17/2023 04:42 PM |   |
| 4605 | OsmoSGSN | Bug     | New         | High     | GMM_ATTACH_REQ_FSM: Event E_AUTH_RESP_RECV_SUCCESS not permitted                         | lynxis   | 06/13/2020 06:16 PM | Related to #4605                            |
| 4222 | OsmoSGSN | Bug     | New         | High     | Implement PS Paging for the Routing Areas  |          | 10/03/2020 02:20 PM | Related to #4222                            |
| 2955 | OsmoSGSN | Bug     | New         | High     | No GMM ATTACH REJECT on GSUP UpdateLocation Error  | lynxis   | 09/10/2019 07:39 PM |   |
| 6295 | OsmoSGSN | Bug     | New         | Normal   | TMSI realloc complete leads to SecurityModeReject  | osmith   | 12/07/2023 03:15 PM |   |
| 6139 | OsmoSGSN | Feature | New         | Normal   | test mobility between GERAN (OsmoPCU) and EUTRAN (Open5GS) end to end on real hardware   | dexter   | 04/02/2024 09:38 AM |   |
| 5853 | OsmoSGSN | Feature | New         | Normal   | osmo-sgsn: Rework to use libosmo-gprs  |          | 01/11/2023 03:14 PM |   |
| 5852 | OsmoSGSN | Bug     | New         | Normal   | osmo-sgsn: Keep TLLI<->NSEI+BVCI 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 |   |
| 5759 | OsmoSGSN | Feature | Stalled     | Normal   | Support for Mobility between SGSN (2G/3G) and S-GW (4G)                                  | dexter   | 12/07/2023 12:40 PM | Related to #5759                            |
| 5509 | OsmoSGSN | Bug     | New         | Normal   | llc/pdu lifetime: add vty config option to define default lifetime                       |          | 03/31/2022 04:11 PM |   |
| 5398 | OsmoSGSN | Bug     | New         | Normal   | Null pointer access at "uctx" in ranap_iu_tx   | pespin   | 01/10/2022 01:14 PM |   |



| #    | Project  | Tracker | Status      | Priority | Subject   | Assignee | Updated             | Related issues   |
|------|----------|---------|-------------|----------|---|----------|---------------------|--|
| 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   |
| 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 |  |
| 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                  |
| 4602 | OsmoSGSN | Bug     | Feedback    | Normal   | SGSN crash with "Assert failed mm->gb.llme == NULL gprs_sgsn.c:358"                 | lynxis   | 02/26/2021 07:34 PM | Related to #4604,Related to #4605,Related to #4602                                   |
| 4601 | OsmoSGSN | Bug     | Feedback    | Normal   | gmm_fsm{Registered.SUSPENDED}: Event E_GMM_COMMON_PROC_INIT_REQ not permitted       | lynxis   | 06/08/2020 06:11 PM | Related to #4604   |
| 4600 | OsmoSGSN | Bug     | Feedback    | Normal   | gmm_fsm{CommonProcedureInitiated}: Event E_GMM_COMMON_PROC_INIT_REQ not permitted   | lynxis   | 06/08/2020 06:08 PM | Related to #4604   |
| 4599 | OsmoSGSN | Bug     | New         | Normal   | counter group sgsn:pdpcx already exists for index X, instead using Y                |          | 09/09/2020 10:05 AM | Related to #4604   |
| 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                                   |
| 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 |  |
| 3937 | OsmoSGSN | Bug     | In Progress | Normal   | lu: verify handling of GMM Service Request (data)when no PDP Context present.       |          | 05/21/2019 10:28 AM | Related to #3937   |
| 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   |
| 3920 | OsmoSGSN | Support | In Progress | Normal   | PCAPs files of 3G PS for Osmocom network and Commercial one                         |          | 04/18/2019 02:03 PM | Related to #3920,Related to #3936,Related to #3923,Related to #3937,Related to #3922 |
| 3696 | OsmoSGSN | Bug     | New         | Normal   | Intermittent Connection Drop  |          | 01/08/2020 10:48 PM |  |
| 3689 | OsmoSGSN | Bug     | New         | Normal   | Support Cisco GGSN (Cisco 7200 with IOS 12.4.x)                                     |          | 04/09/2019 11:21 AM |  |
| 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   |

| #    | Project  | Tracker | Status      | Priority | Subject  | Assignee | Updated             | Related issues   |
|------|----------|---------|-------------|----------|--|----------|---------------------|--|
| 3356 | OsmoSGSN | Bug     | In Progress | Normal   | OsmoSGSN doesn't provide unique IDTAG_SERNR in IPA CCM                               | osmith   | 04/09/2019 11:22 AM | Related to #3356,Related to #3356,Related to #3644                           |
| 3224 | OsmoSGSN | Bug     | New         | Normal   | verify ciphering after UMTS AKA  |          | 01/08/2020 10:48 PM | Related to #3193,Related to #3224  |
| 2962 | OsmoSGSN | Bug     | New         | Normal   | Missing TTCN-3 test cases  |          | 01/08/2020 10:47 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 |  |
| 2958 | OsmoSGSN | Bug     | Stalled     | Normal   | OsmoSGSN doesn't authenticate on second/further ATTACH REQUEST                       |          | 01/08/2020 10:49 PM | Related to #2958,Related to #4221  |
| 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   |
| 2951 | OsmoSGSN | Bug     | Feedback    | Normal   | OsmoSGSN Accepts two MO L3 Messages with N(U) set to zero                            | osmith   | 09/11/2019 12:24 PM |  |
| 2501 | OsmoSGSN | Bug     | In Progress | Normal   | suspected problem with unanswered neighbor solicitation                              | osmith   | 09/11/2019 12:58 PM |  |
| 2305 | OsmoSGSN | Bug     | New         | Normal   | review 'laforge/santos' branch and check if there are pending fixes                  |          | 01/08/2020 10:56 PM |  |
| 1942 | OsmoSGSN | Bug     | Feedback    | Normal   | Gb: implement paging in case of MM state == STANDBY && rx DL PDU                     |          | 01/08/2020 10:48 PM | Related to #1942,Related to #4222  |
| 1881 | OsmoSGSN | Bug     | In Progress | Normal   | don't send PDP CTX DEACT ACK to MS when destroying PDP ctx indepent from MS requests |          | 01/08/2020 10:49 PM |  |
| 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                           |
| 1794 | OsmoSGSN | Bug     | Stalled     | Normal   | support random IV for GEA (via XID)  |          | 03/01/2018 11:17 PM | Related to #1910,Related to #1672,Related to #2843,Blocks #1794,Blocks #1582 |
| 1655 | OsmoSGSN | Feature | Stalled     | Normal   | KPIs for OsmoSGSN  |          | 01/08/2020 10:49 PM | Related to #1652,Related to #1655,Related to #1655                           |
| 1588 | OsmoSGSN | Feature | New         | Normal   | Inter-RAT hand-over  |          | 02/23/2016 03:46 PM |  |
| 1587 | OsmoSGSN | Feature | Stalled     | Normal   | SMS over GPRS support  |          | 11/25/2018 08:14 PM | Related to #3587   |
| 1586 | OsmoSGSN | Feature | New         | Normal   | Implement QoS profile support  |          | 02/23/2016 03:45 PM |  |

| #    | Project  | Tracker | Status      | Priority | Subject   | Assignee | Updated             | Related issues  |
|------|----------|---------|-------------|----------|---|----------|---------------------|---|
| 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      |
| 44   | OsmoSGSN | Bug     | New         | Normal   | TLLI clash possible   | pespin   | 02/06/2021 01:31 PM |   |
| 6197 | OsmoSGSN | Bug     | Feedback    | Low      | "Cannot handle SM for unknown MM CTX"   | fixeria  | 03/10/2024 06:23 PM |   |
| 6176 | OsmoSGSN | Bug     | New         | Low      | build failure (dependency / concurrency issue)                                  |          | 09/13/2023 03:14 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 |   |
| 4631 | OsmoSGSN | Bug     | New         | Low      | packet/byte counters don't work for 3G  |          | 06/24/2020 06:58 AM |   |
| 3688 | OsmoSGSN | Feature | New         | Low      | move generic gtpub code to libosmocore  |          | 04/15/2019 07:29 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 |   |
| 1768 | OsmoSGSN | Bug     | Stalled     | Low      | VTY show llc displays State TLLI Unassigned permanently                         |          | 01/08/2020 10:52 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 |
| 33   | OsmoSGSN | Feature | New         | Low      | real LLC implementation with fragmentation and re-transmissions                 |          | 11/09/2016 09:45 AM |   |
| 5117 | OsmoSDR  | Bug     | New         | Normal   | Error building gr-osmosdr with libhackrf  |          | 04/15/2021 07:56 AM |   |
| 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 |   |
| 6436 | OsmoPCU  | Bug     | New         | High     | high cpu usage, entire BTS unresponsive after some hours                        | keith    | 04/13/2024 04:32 PM |   |
| 4879 | OsmoPCU  | Bug     | Stalled     | High     | endless pdch.cpp:809 Got CS-N RLC block: R=0, SI=0, TFI=0, CPS=0, RSB=0, rc=264 | fixeria  | 07/28/2023 02:46 PM |   |
| 3928 | OsmoPCU  | Bug     | Stalled     | High     | Missing PCU_Tests.ttcn for various timers / time-outs                           | pespin   | 11/15/2021 05:46 PM | Related to #5033  |
| 3926 | OsmoPCU  | Bug     | Stalled     | High     | Missing PCU_Tests.ttcn DL TBF tests   | pespin   | 03/01/2021 11:06 AM |   |
| 2400 | OsmoPCU  | Bug     | Stalled     | High     | transmit SI13 on PACCH during long TBFs   | fixeria  | 05/12/2020 12:19 PM | Related to #2400,Related to #3472,Related to #4506      |
| 1925 | OsmoPCU  | Bug     | New         | High     | Fix padding for MCS8 transition   |          | 01/08/2020 10:31 PM |   |
| 1766 | OsmoPCU  | Bug     | In Progress | High     | KPIs for OsmoPCU: EGPRS   |          | 01/22/2020 02:06 PM | Related to #1766,Related to #1766                       |
| 1759 | OsmoPCU  | Bug     | Stalled     | High     | Wrong calculation of DL window size for DL assignment                           |          | 01/22/2020 04:01 PM | Related to #1533,Related to #1524                       |
| 1560 | OsmoPCU  | Feature | New         | High     | EDGE benchmarking / performance optimization / tuning                           |          | 01/08/2020 10:31 PM |   |

| #    | Project | Tracker | Status   | Priority | Subject  | Assignee | Updated             | Related issues                    |
|------|---------|---------|----------|----------|--|----------|---------------------|-----------------------------------|
| 6150 | OsmoPCU | Feature | New      | Normal   | PCUIF: Use unique identifiers instead of the TLLI as msg_id.   | dexter   | 10/24/2023 03:15 PM |                                   |
| 6118 | OsmoPCU | Bug     | New      | Normal   | osmo-pcu assigns multi-slot TBFs over PACCH to MS with unknown ms_class  | pespin   | 09/22/2023 02:33 PM |                                   |
| 6015 | OsmoPCU | Bug     | New      | Normal   | osmo-pcu (with ericsson RBS) is unable to keep TRAU frames in sync   | dexter   | 12/23/2023 01:12 AM |                                   |
| 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 |                                   |
| 5827 | OsmoPCU | Feature | New      | Normal   | osmo-pcu: Hardcoded limit of maximum number of 8 TRX per BTS   | pespin   | 12/16/2022 11:55 AM |                                   |
| 5696 | OsmoPCU | Bug     | Stalled  | Normal   | RLC/MAC: poll timeout when assigning a multi-slot DL TBF   | fixeria  | 10/05/2022 11:01 AM |                                   |
| 5309 | OsmoPCU | Bug     | New      | Normal   | osmo-pcu: Support rejecting multiple TBFs upon tx of Packet Access Reject  | pespin   | 11/15/2021 06:29 PM |                                   |
| 5300 | OsmoPCU | Bug     | New      | Normal   | osmo-pcu: SUSPEND-NACK not implemented   |          | 03/31/2022 02:59 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 |                                   |
| 5122 | OsmoPCU | Feature | New      | Normal   | Choose SBA allocation offset based on AGCH queue load in the BTS   | pespin   | 04/20/2021 12:51 PM | Related to #5122                  |
| 4967 | OsmoPCU | Feature | New      | Normal   | osmo-pcu: Avoid sending new DL EGPRS blocks to MS announcing MS_OUT_OF_MEMORY  |          | 01/21/2021 02:26 PM |                                   |
| 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                  |
| 4947 | OsmoPCU | Bug     | Stalled  | Normal   | osmo-pcu: Handling for Pkt Resource Req using Global TFI not implemented   | pespin   | 12/22/2022 01:04 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                  |
| 4867 | OsmoPCU | Bug     | Stalled  | Normal   | Cinterion BGS2T failing to attach (no Attach Complete ever sent)   | pespin   | 11/30/2020 09:48 AM |                                   |
| 4856 | OsmoPCU | Bug     | Feedback | Normal   | PCU is running but has no NS connection and does not retry.  | keith    | 10/18/2021 10:02 AM |                                   |
| 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 |                                   |
| 4845 | OsmoPCU | Bug     | Feedback | Normal   | only send content resolution if it's needed  | lynxis   | 07/28/2023 02:45 PM |                                   |
| 4844 | OsmoPCU | Bug     | Feedback | Normal   | do not resent DL assignment on RACH  | lynxis   | 07/28/2023 02:44 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 |
| 4452 | OsmoPCU | Bug     | Stalled  | Normal   | manual testing of osmo-pcu   |          | 07/28/2023 02:48 PM |                                   |
| 4019 | OsmoPCU | Bug     | New      | Normal   | implement a command to show all informations from the bts  |          | 11/25/2020 07:33 PM |                                   |
| 4018 | OsmoPCU | Bug     | New      | Normal   | investigate ordering of includes paths   |          | 05/23/2019 10:59 AM |                                   |
| 3929 | OsmoPCU | Bug     | New      | Normal   | Missing PCU_Tests.ttcn link adaptation tests   | pespin   | 06/17/2020 08:32 AM | Related to #3929                  |
| 3285 | OsmoPCU | Feature | New      | Normal   | design + implement tools to analyze inter-PCU cell changes   | daniel   | 02/06/2021 11:12 AM | Related to #3284                  |

| #    | Project | Tracker | Status   | Priority | Subject  | Assignee | Updated             | Related issues   |
|------|---------|---------|----------|----------|--|----------|---------------------|--|
| 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  |
| 2383 | OsmoPCU | Bug     | New      | Normal   | incompatibility with some SGSNs during P-TMSI allocation                     | laforge  | 07/04/2018 12:50 PM |  |
| 1838 | OsmoPCU | Bug     | Stalled  | Normal   | Nokia E52 does not reply to PUAN message properly                            |          | 10/29/2017 06:47 PM |  |
| 1624 | OsmoPCU | Bug     | New      | Normal   | add CRBB support to write_packet_ack_nack_desc_egprs                         |          | 10/20/2020 08:37 AM |  |
| 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 |  |
| 1549 | OsmoPCU | Feature | New      | Normal   | DRX support for GPRS   |          | 02/04/2017 08:11 AM | Related to #1942   |
| 1547 | OsmoPCU | Feature | New      | Normal   | downlink power control on PDTCH  |          | 02/23/2016 03:04 PM |  |
| 1545 | OsmoPCU | Feature | Stalled  | Normal   | continuous timing advance loop using PTCCH                                   | fixeria  | 03/24/2020 09:49 PM | Related to #1545,Related to #4102,Related to #4500,Blocks #1545  |
| 1543 | OsmoPCU | Feature | New      | Normal   | link/rate adaption as per spec   |          | 01/08/2020 10:43 PM | Related to #1543,Related to #1543  |
| 1526 | OsmoPCU | Feature | Stalled  | Normal   | Acquire/update timing advance (TA)   | fixeria  | 03/25/2021 12:04 PM | Related to #1545,Related to #1531,Related to #1524,Related to #3472,Related to #2977                                   |
| 1524 | OsmoPCU | Bug     | Feedback | Normal   | PACCH on the wrong timeslot  | roh      | 10/19/2021 11:50 AM | Related to #1524,Related to #1524,Related to #1524,Related to #2709,Related to #1524,Related to #1524,Related to #3014 |
| 6303 | OsmoPCU | Feature | New      | Low      | Convert pcuif to TLV to make backwards compatibility more feasible           |          | 02/15/2024 09:23 PM |  |
| 5930 | OsmoPCU | Feature | New      | Low      | handle multiple BTSs with one PCU  |          | 03/03/2023 10:47 AM |  |
| 5833 | OsmoPCU | Feature | New      | Low      | A "meas-feed" for osmo-pcu   | keith    | 12/18/2022 06:42 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 |  |
| 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 |  |
| 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 |  |

| #    | Project  | Tracker | Status   | Priority | Subject  | Assignee | Updated             | Related issues                    |
|------|----------|---------|----------|----------|--|----------|---------------------|-----------------------------------|
| 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                  |
| 2405 | OsmoPCU  | Feature | New      | Low      | RLC/MAC encoding routines don't use bitvec L/H   |          | 07/29/2017 09:01 AM |                                   |
| 2404 | OsmoPCU  | Bug     | Feedback | Low      | PAGING-PS doesn't use QoS parameters from BSSGP  | osmith   | 09/10/2019 11:54 AM |                                   |
| 1903 | OsmoPCU  | Feature | New      | Low      | convert c++ -> c   |          | 03/23/2020 10:48 PM |                                   |
| 1831 | OsmoPCU  | Bug     | Stalled  | Low      | No handling for padding octets(LI 127) for EGPRS. row 3rd of Table 10.4.14a.1 TS 44.060 version 7.27.0 Release | pespin   | 10/20/2020 08:39 AM |                                   |
| 1823 | OsmoPCU  | Feature | Stalled  | Low      | Ericsson PCU TRAU frame encoding/decoding  |          | 09/04/2019 09:26 AM | Related to #5198                  |
| 1640 | OsmoPCU  | Bug     | Feedback | Low      | Missing release field/length in MS RA capability container   |          | 10/20/2020 09:19 AM |                                   |
| 1558 | OsmoPCU  | Feature | New      | Low      | Generate BSSGP LLC Discarded messages on TBF/MS free   | osmith   | 02/13/2021 05:44 PM | Related to #4847                  |
| 1555 | OsmoPCU  | Feature | New      | Low      | Add support for unacknowledged RLC Mode  |          | 01/22/2020 02:59 PM |                                   |
| 1546 | OsmoPCU  | Feature | New      | Low      | closed loop uplink power control   |          | 09/30/2020 08:05 PM |                                   |
| 1537 | OsmoPCU  | Feature | New      | Low      | Move the BSSGP handling to libosmocore   |          | 03/01/2018 11:17 PM | Related to #1537,Related to #2388 |
| 1533 | OsmoPCU  | Feature | Feedback | Low      | Separate the window handling from the TBF more clearly   | zecke    | 07/21/2017 02:46 PM | Related to #1533                  |
| 1532 | OsmoPCU  | Bug     | New      | Low      | Increased number of poll timeouts on shared PDCHs  | pespin   | 02/08/2021 05:22 PM | Related to #1524                  |
| 1530 | OsmoPCU  | Feature | New      | Low      | Assign same TFI number in downlink/uplink  |          | 01/26/2020 08:50 AM |                                   |
| 1528 | OsmoPCU  | Bug     | New      | Low      | Find a real fix for EGPRS_AckNack_w_len_t decoding   | pespin   | 02/06/2021 01:04 PM |                                   |
| 1527 | OsmoPCU  | Feature | New      | Low      | Set correct values of the puncturing scheme and the retransmission flag  | pespin   | 02/08/2021 07:10 PM |                                   |
| 2691 | OsmoNITB | Bug     | Feedback | Normal   | Old TMSI paged after LU  |          | 05/17/2018 11:47 AM |                                   |
| 2438 | OsmoNITB | Bug     | New      | Normal   | MS not registered from osmocom PoV, but registered from ofono PoV  |          | 08/14/2017 09:36 AM |                                   |
| 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 |
| 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 |                                   |
| 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                  |
| 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 |                                   |
| 4642 | OsmoNITB | Bug     | New      | Low      | Attempting to set illegal id for FSM instance of type 'OM2000-MO'  |          | 07/03/2020 06:40 PM |                                   |

| #    | Project  | Tracker | Status      | Priority | Subject   | Assignee  | Updated             | Related issues  |
|------|----------|---------|-------------|----------|---|-----------|---------------------|---|
| 2433 | OsmoNITB | Bug     | New         | Low      | Drop MGCP_DUMMY_LOAD frames and use proper Osmux Dummy frames   | pespin    | 08/21/2017 02:23 PM |   |
| 1725 | OsmoNITB | Bug     | Stalled     | Low      | iPhone6 network selection issue with GSM1900  |           | 03/05/2018 07:35 PM |   |
| 1671 | OsmoNITB | Bug     | Stalled     | Low      | Combined 850/1800 NITB not seen by Option Icon2 stick   |           | 03/05/2018 07:35 PM |   |
| 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 |   |
| 28   | OsmoNITB | Bug     | New         | Low      | Old siemens phones cannot make voice calls (04.08 channel mode)   |           | 03/05/2018 07:36 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 |   |
| 18   | OsmoNITB | Feature | New         | Low      | store last location identity to database  |           | 05/24/2018 01:15 PM |   |
| 5559 | OsmoMSC  | Bug     | Stalled     | Urgent   | OsmoMSC at 100% CPU and unresponsive for up to several minutes!   | laforge   | 08/04/2022 08:14 AM | Related to #5563  |
| 5564 | OsmoMSC  | Bug     | Stalled     | High     | blocking database I/O by SMS database   | laforge   | 05/16/2022 08:20 PM | Related to #5564,Related to #5566,Related to #5564                  |
| 5563 | OsmoMSC  | Bug     | Stalled     | High     | OsmoMSC sometimes stalls for dozens of seconds in a production deployment                               | laforge   | 08/04/2022 08:15 AM | Related to #5564,Related to #5563,Related to #5566                  |
| 5057 | OsmoMSC  | Bug     | New         | High     | Can only send a maximum of 15 SMPP messages?  | Hoernchen | 09/15/2021 09:53 AM |   |
| 4830 | OsmoMSC  | Bug     | In Progress | High     | LU reject when no authentication data in HLR but "authentication optional"                              | neels     | 10/10/2022 02:03 PM |   |
| 3294 | OsmoMSC  | Bug     | Stalled     | High     | transaction: refactor callref allocation  | neels     | 12/16/2019 02:37 PM | Related to #3294,Related to #3294,Related to #4333,Related to #4854 |
| 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  |
| 6426 | OsmoMSC  | Bug     | Feedback    | Normal   | ttn3-msc-test: TC_mm_id_resp_no_identity fails sporadically   | fixeria   | 04/03/2024 06:49 PM | Related to #6426,Related to #6427                                   |
| 6330 | OsmoMSC  | Bug     | New         | Normal   | Incorrect handling of V.120 data calls  |           | 01/18/2024 03:02 PM | Related to #6344  |
| 6258 | OsmoMSC  | Feature | In Progress | Normal   | if MT call leg does not support the assigned codec, re-assign to a compatible codec                     |           | 01/12/2024 06:26 AM | Related to #6328  |
| 6217 | OsmoMSC  | Bug     | Feedback    | Normal   | Bearer Capability mismatch in MT SETUP  | neels     | 10/10/2023 10:17 PM |   |
| 6152 | OsmoMSC  | Bug     | In Progress | Normal   | built-in MNCC: forward the @Low layer compatibility I@ IE to the called subscriber                      | jolly     | 12/20/2023 12:52 PM | Related to #6152  |
| 6151 | OsmoMSC  | Feature | Feedback    | Normal   | osmo-msc: Ability to configure (VTY) the AMR(-WB) formats used in RAB-Assignment-Req                    | neels     | 08/30/2023 08:16 PM |   |

| #    | Project | Tracker | Status      | Priority | Subject   | Assignee | Updated             | Related issues   |
|------|---------|---------|-------------|----------|---|----------|---------------------|------------------|
| 6009 | OsmoMSC | Bug     | New         | Normal   | omo-msc: lots of tlv_parse() calls in src/libmsc/gsm_04_08.c have no return code checked for errors   |          | 04/19/2023 03:19 PM |                  |
| 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 |                  |
| 5403 | OsmoMSC | Feature | New         | Normal   | Can't connect Call from 2G to 4G network  | laforge  | 01/14/2022 10:41 PM |                  |
| 5340 | OsmoMSC | Bug     | New         | Normal   | ttn3-msc-test: more memory leaks  | fixeria  | 05/15/2022 04:47 PM |                  |
| 5197 | OsmoMSC | Bug     | New         | Normal   | msc_i Unimplemented msg type: HANDOVER PERFORMED  | neels    | 08/23/2022 04:05 PM |                  |
| 5196 | OsmoMSC | Bug     | New         | Normal   | Verify several "event not permitted" log lines in unit tests  | neels    | 08/23/2022 04:08 PM |                  |
| 4972 | OsmoMSC | Bug     | New         | Normal   | manual: the MNCC protocol is outdated (RTP)   |          | 01/24/2021 05:58 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 |                  |
| 4764 | OsmoMSC | Bug     | New         | Normal   | make sure Assignment times out, always  |          | 09/23/2020 02:08 PM |                  |
| 4721 | OsmoMSC | Bug     | In Progress | Normal   | osmo-msc creates evil-twin entries in the VLR when an already attached IMSI does a LU by an unknown TMSI (was: MSC_Tests.TC_lu_by_tmsi_noauth_unknown fails sporadically locally) | neels    | 03/26/2024 03:02 AM | Related to #4721 |
| 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 |                  |
| 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 |                  |
| 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 |                  |
| 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 |
| 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 |
| 4240 | OsmoMSC | Bug     | In Progress | Normal   | test: incoming call when already Paging   |          | 11/27/2019 11:09 PM |                  |
| 4200 | OsmoMSC | Feature | In Progress | Normal   | Work around nano3G-S16 requiring RAB ID to be below 16  | efistokl | 09/14/2019 09:48 AM |                  |
| 4196 | OsmoMSC | Feature | New         | Normal   | CC Setup, Call Confirmed: decode and use the Supported Codec List IE  |          | 09/25/2019 05:27 PM |                  |
| 4167 | OsmoMSC | Bug     | Feedback    | Normal   | Event VLR_ULA_E_ID_IMEISV not permitted   | osmith   | 09/04/2019 08:13 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 |



| #    | Project | Tracker | Status   | Priority | Subject  | Assignee | Updated             | Related issues                    |
|------|---------|---------|----------|----------|--|----------|---------------------|-----------------------------------|
| 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 |                                   |
| 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 |                                   |
| 3738 | OsmoMSC | Feature | New      | Normal   | Clarify PS-part of struct vlr_subscr   |          | 12/19/2018 12:34 PM |                                   |
| 3735 | OsmoMSC | Bug     | Stalled  | Normal   | call arriving during another call has no voice                                     | neels    | 06/18/2019 09:18 PM |                                   |
| 3687 | OsmoMSC | Feature | New      | Normal   | Expand "show bsc" command  |          | 11/11/2018 09:50 PM |                                   |
| 3636 | OsmoMSC | Feature | New      | Normal   | detailed call statistics (with rate counters)                                      | osmith   | 10/08/2018 11:14 AM | Related to #3636                  |
| 3620 | OsmoMSC | Feature | Stalled  | Normal   | Implement TTCN-3 testsuite for Inter-MSC HO  | neels    | 09/04/2019 09:08 AM |                                   |
| 3445 | OsmoMSC | Feature | Stalled  | Normal   | SS/USSD: clean up the local GSM 04.80 API  |          | 12/14/2018 01:57 PM |                                   |
| 3110 | OsmoMSC | Bug     | New      | Normal   | Test and possibly fix ID Request after Auth failure                                | neels    | 09/30/2018 11:36 AM |                                   |
| 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             |
| 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 |                                   |
| 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 |                                   |
| 2895 | OsmoMSC | Bug     | New      | Normal   | OsmoMSC excessively uses LU Reject Cause 22 (congestion)                           | osmith   | 07/18/2019 05:41 AM |                                   |
| 2883 | OsmoMSC | Bug     | New      | Normal   | GSUP encoding of MSISDN is wrong   |          | 10/20/2020 08:41 AM | Related to #4324,Related to #4333 |
| 2877 | OsmoMSC | Bug     | New      | Normal   | OsmoMSC fails on bearer capability without octet 3a                                | osmith   | 07/18/2019 05:45 AM |                                   |
| 2872 | OsmoMSC | Bug     | Feedback | Normal   | OsmoMSC doesn't check if CIPHER MODE COMPLETE contains cipher that matches REQUEST | neels    | 07/29/2019 01:15 PM |                                   |
| 2851 | OsmoMSC | Bug     | Stalled  | Normal   | a_iface.c:534 Unhandled SIGTRAN primitive: 3:2                                     |          | 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 |                                   |
| 2795 | OsmoMSC | Feature | New      | Normal   | Handle UTRAN_CLSM_CHG in MSC   | neels    | 04/30/2018 12:06 PM | Related to #3043                  |
| 2788 | OsmoMSC | Feature | New      | Normal   | OsmoMSC should handle CM Service Abort message                                     | neels    | 01/04/2018 10:37 AM |                                   |

| #    | Project | Tracker | Status   | Priority | Subject  | Assignee | Updated             | Related issues   |
|------|---------|---------|----------|----------|--|----------|---------------------|--|
| 2487 | OsmoMSC | Feature | Stalled  | Normal   | MSC side of LCLS (local call local switching) as per the 3GPP specs                                      | keith    | 10/17/2022 04:31 AM | Related to #1602,Related to #3659,Related to #3691,Related to #3618,Related to #3294,Related to #5712,Blocks #2487 |
| 2390 | OsmoMSC | Feature | New      | Normal   | re-add osmocom specific TLVs to SMPP messages  |          | 12/23/2017 05:48 PM |  |
| 2191 | OsmoMSC | Feature | New      | Normal   | raw PDU mode for SMPP  |          | 12/23/2017 05:48 PM |  |
| 1599 | OsmoMSC | Feature | New      | Normal   | Gs interface (BSSMAP+) between SGSN and MSC/VLR  |          | 06/13/2020 05:52 PM | Related to #1583,Related to #1747,Related to #1599,Related to #4485  |
| 41   | OsmoMSC | Bug     | New      | Normal   | Numbering Plan in OsmoMSC  |          | 06/23/2018 07:37 PM |  |
| 6321 | OsmoMSC | Bug     | New      | Low      | SMS not delivered from corrupted SMS database  |          | 01/02/2024 01:07 PM |  |
| 6207 | OsmoMSC | Bug     | Feedback | Low      | "MO SMS without prior CM Service Request" for every SMS in 4G  | dexter   | 02/13/2024 12:26 AM | Related to #6358   |
| 5568 | OsmoMSC | Bug     | Stalled  | Low      | SMPP socket doesn't use TCP_NODELAY  | osmith   | 10/31/2023 09:36 AM |  |
| 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 |  |
| 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  |
| 4863 | OsmoMSC | Bug     | New      | Low      | T3212 is unclear in config/vty   |          | 11/19/2020 06:10 PM |  |
| 4691 | OsmoMSC | Bug     | New      | Low      | setfault in osmo_sockaddr_str_is_set() via call_leg_ensure_ci()  |          | 02/06/2021 09:47 AM |  |
| 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 |  |
| 4004 | OsmoMSC | Bug     | New      | Low      | lu_fsm_priv.rej_cause is never used  | neels    | 11/21/2023 02:37 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   |
| 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   |
| 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   |
| 3169 | OsmoMSC | Bug     | New      | Low      | OsmoMSC rejects SMPP messages with empty SMS   |          | 01/08/2020 10:56 PM |  |
| 3165 | OsmoMSC | Feature | New      | Low      | Verify LU Request's LAI  | osmith   | 07/18/2019 05:48 AM | Related to #3164   |

| #    | Project | Tracker | Status      | Priority | Subject   | Assignee | Updated             | Related issues                                     |
|------|---------|---------|-------------|----------|---|----------|---------------------|--|
| 3164 | OsmoMSC | Bug     | Feedback    | Low      | invalid LAI in level 3 complete: unify BSSMAP and RANAP verification  | neels    | 07/29/2019 01:34 PM | Related to #3162,Related to #3163,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                  |
| 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                  |
| 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                                   |
| 2884 | OsmoMSC | Bug     | New         | Low      | Call Control timers are very long and not configurable  |          | 01/08/2020 10:56 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                  |
| 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                                   |
| 2669 | OsmoMSC | Bug     | New         | Low      | osm-msc doesn't clean up BSC state  | osmith   | 09/30/2018 11:37 AM |  |
| 2391 | OsmoMSC | Feature | New         | Low      | add osmocom specific TLVs to A-interface for BTS/TS and subscriber details  |          | 10/02/2018 03:40 PM |  |
| 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 |  |
| 1974 | OsmoMSC | Feature | New         | Low      | VLR: high water mark on subscriber storage  |          | 05/15/2022 01:45 PM | Related to #1973                                   |
| 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 |  |
| 1597 | OsmoMSC | Feature | Stalled     | Low      | External interface for USSD   | fixeria  | 11/27/2018 11:08 PM | Related to #1597,Related to #3433                  |
| 25   | OsmoMSC | Feature | New         | Low      | Call HOLD / RETRIEVE support for internal MNCC  |          | 08/01/2019 03:06 PM |  |
| 6424 | OsmoMGW | Bug     | In Progress | High     | TC_one_crcx_loopback_rtp_implicit consistently failing in master, but passes on latest  | neels    | 03/27/2024 08:17 PM |  |
| 6387 | OsmoMGW | Feature | In Progress | Normal   | osmo_io / io_uring support for RTP/RTCP   | laforge  | 03/26/2024 06:45 PM | Related to #6387                                   |
| 6297 | OsmoMGW | Bug     | New         | Normal   | octet-align=0 is the RFC 6871 specified default to use when omitted; but osmo-mgw assumes don't-care when omitted                       |          | 12/12/2023 02:12 AM | Is duplicate of #5726                              |
| 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     |
| 6196 | OsmoMGW | Bug     | New         | Normal   | Codec negotiation failure false positives   | dexter   | 12/07/2023 06:25 AM | Related to #6293                                   |

| #    | Project | Tracker | Status      | Priority | Subject   | Assignee  | Updated             | Related issues                                     |
|------|---------|---------|-------------|----------|---|-----------|---------------------|--|
| 6171 | OsmoMGW | Feature | In Progress | Normal   | mgcp-client API: there should be a separate mgcp_codec_param for each codec in mgcp_msg.codecs[]  | dexter    | 11/01/2023 04:15 PM | Related to #6171                                   |
| 6136 | OsmoMGW | Feature | Stalled     | Normal   | libosmo-mgcp-client should ignore unknown codecs in SDP   | jolly     | 12/07/2023 06:27 AM | Related to #6136,Related to #6177,Blocks #6136     |
| 5726 | OsmoMGW | Bug     | New         | Normal   | AMR octet-align in SDP: lack of 'octet-align' fmp should imply octet-align=0, and the presence or absence of this fmp should not have an effect |           | 12/12/2023 01:51 AM | Is duplicate of #5726                              |
| 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 |
| 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 |  |
| 5214 | OsmoMGW | Feature | In Progress | Normal   | osmo-mgw multithreading   | Hoernchen | 08/31/2021 09:20 AM |  |
| 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 |  |
| 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 |  |
| 4153 | OsmoMGW | Bug     | New         | Normal   | 3G voice broken with ALu 9361 femto   |           | 04/25/2022 05:43 PM |  |
| 4092 | OsmoMGW | Feature | New         | Normal   | Osmux: Support dynamic allocation of osmux sockets  | pespin    | 08/10/2022 07:50 AM | Related to #4092                                   |
| 4005 | OsmoMGW | Bug     | Stalled     | Normal   | TTCN3 crashes when receiving an RTP MGCP_DUMMY_LOAD from osmo-mgw during CRCX   | dexter    | 06/14/2021 08:31 AM | Related to #4005                                   |
| 3980 | OsmoMGW | Bug     | New         | Normal   | Clear Command before CRCX OK may leak MGW endpoint  |           | 05/06/2019 10:11 PM |  |
| 3849 | OsmoMGW | Bug     | New         | Normal   | race condition problem in rtp flow tests of the ttcn3 testsuite   |           | 09/04/2019 09:26 AM |  |
| 3731 | OsmoMGW | Bug     | New         | Normal   | TTCN3 TC_rtpem_selftest randomly fails  |           | 01/08/2020 10:18 PM |  |
| 3442 | OsmoMGW | Bug     | New         | Normal   | fix int mgcp_codec_decide() in mgcp_codec.c   |           | 09/04/2019 09:26 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                                   |
| 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 |  |
| 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  | manawyrm  | 10/16/2023 08:53 PM | Precedes #5730                                     |
| 5044 | OsmoMGW | Bug     | New         | Low      | potential null pointer dereferences   | pespin    | 02/24/2021 11:48 AM |  |

| #    | Project    | Tracker | Status      | Priority | Subject  | Assignee | Updated             | Related issues                    |
|------|------------|---------|-------------|----------|--|----------|---------------------|-----------------------------------|
| 4841 | OsmoMGW    | Feature | Stalled     | Low      | TC_e1_crcx_and_dlcx_ep does not pass - move the IPA code out of libosmo-abis   | dexter   | 10/11/2021 10:10 AM | Related to #4841,Related to #4841 |
| 4745 | OsmoMGW    | Bug     | New         | Low      | osmo-mgw: Wrong IP address returned in SDP "o=" section  |          | 10/05/2022 11:00 AM |                                   |
| 4535 | OsmoMGW    | Feature | In Progress | Low      | Develop "E1/Abis generator"  | laforge  | 01/02/2022 01:57 PM | Precedes #2547                    |
| 4150 | OsmoMGW    | Feature | New         | Low      | dead code / If an MDCX omits SDP, all codec config might be cleared  |          | 08/13/2019 11:01 PM |                                   |
| 3822 | OsmoMGW    | Bug     | New         | Low      | conn mode "sendonly" behaves identically to "sendrecv"   |          | 03/04/2019 09:34 PM |                                   |
| 3443 | OsmoMGW    | Bug     | New         | Low      | Check audio-payload options in osmo-mgw VTY  |          | 03/15/2020 08:43 AM |                                   |
| 3352 | OsmoMGW    | Feature | Feedback    | Low      | osmo-mgw does not allow multiple codecs in LCO   | neels    | 01/08/2020 10:25 PM |                                   |
| 3207 | OsmoMGW    | Feature | New         | Low      | Support for RTP Payload Format according to "ETSI TS 101 318"  |          | 04/24/2018 03:53 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 |                                   |
| 2580 | OsmoMGW    | Feature | New         | Low      | implement timeout/resend mechanism for mgcp_client   |          | 09/04/2019 09:26 AM |                                   |
| 2546 | OsmoMGW    | Feature | New         | Low      | support play-out/announcement endpoint type  |          | 10/06/2017 12:30 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 |                                   |
| 6153 | OsmoHNodeB | Support | Feedback    | Normal   | List of supported FemtoCell  | Kira     | 08/28/2023 02:24 PM |                                   |
| 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 |                                   |
| 6380 | OsmoHNBGW  | Bug     | New         | Normal   | VTY transcript tests are broken [again]  |          | 02/28/2024 06:57 PM |                                   |
| 6283 | OsmoHNBGW  | Bug     | New         | Normal   | cnpool: hnbgw fails to extract Mobile Identity from some GMM Attach Request messages   |          | 12/04/2023 01:48 AM |                                   |

...