

## all-by-project

| #                          | Project         | Category | Tracker | Status      | Priority | Subject                                                                      | Assignee  | Updated             | Related issues   |
|----------------------------|-----------------|----------|---------|-------------|----------|------------------------------------------------------------------------------|-----------|---------------------|------------------|
| <b>Z-Netz (5)</b>          |                 |          |         |             |          |                                                                              |           |                     |                  |
| 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 |                  |
| <b>UUCP and UseNet (1)</b> |                 |          |         |             |          |                                                                              |           |                     |                  |
| 2806                       | UUCP and UseNet |          | Feature | New         | Low      | Create Dockerfile and/or ansible playbook for UseNet node                    |           | 01/01/2018 01:04 PM |                  |
| <b>UmTRX (13)</b>          |                 |          |         |             |          |                                                                              |           |                     |                  |
| 3747                       | UmTRX           | FPGA     | Feature | New         | Normal   | LMS6002D RX Gain Control                                                     | ipse      | 01/08/2019 09:46 AM |                  |
| 1511                       | UmTRX           | FPGA     | Feature | New         | Normal   | Solve Tx and Rx I/Q imbalance for wideband signals                           |           | 02/19/2016 10:52 PM |                  |
| 1508                       | UmTRX           | FPGA     | Feature | New         | High     | Implement UmSEL diversity switch control                                     | ipse      | 02/21/2016 04:47 PM |                  |
| 1507                       | UmTRX           | FPGA     | Feature | New         | High     | Implement UmSEL tuner control                                                | ipse      | 02/21/2016 04:47 PM |                  |
| 1506                       | UmTRX           | FPGA     | Feature | New         | Normal   | Move to the latest stable UHD                                                | ipse      | 02/21/2016 04:47 PM |                  |
| 1518                       | UmTRX           | Hardware | Feature | New         | Normal   | Upper limit of the clock is too low                                          |           | 02/19/2016 10:52 PM |                  |
| 1517                       | UmTRX           | Hardware | Feature | New         | Normal   | U_FL (UMC) connectors are not reliable after few connections                 |           | 02/19/2016 10:52 PM |                  |
| 1516                       | UmTRX           | Hardware | Feature | New         | Normal   | There are no port to control external equipment like PA                      |           | 02/19/2016 10:52 PM |                  |
| 1515                       | UmTRX           | Hardware | Feature | New         | Normal   | Heat dissipation and mounting issue                                          |           | 02/19/2016 10:52 PM |                  |
| 1505                       | UmTRX           | Hardware | Bug     | New         | High     | OHM4 footprint incorrect                                                     |           | 02/19/2016 10:52 PM |                  |
| 1504                       | UmTRX           | Hardware | Feature | New         | Normal   | LMS6002 phase error increases when Rx is enabled and varies with temperature | tsou      | 02/19/2016 10:52 PM |                  |
| 1510                       | UmTRX           | Host     | Feature | New         | High     | Complete UHD integration                                                     | ipse      | 02/21/2016 04:47 PM |                  |
| 1509                       | UmTRX           | ZPU      | Feature | New         | Normal   | Store calibration values in EEPROM                                           | ipse      | 02/21/2016 04:47 PM |                  |
| <b>SIMtrace 2 (30)</b>     |                 |          |         |             |          |                                                                              |           |                     |                  |
| 6181                       | SIMtrace 2      |          | Bug     | Feedback    | Normal   | Unexpected INS code with simtrace2-sniff: 0x7f                               | v.marinos | 10/18/2023 09:41 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 |
| 5826                       | SIMtrace 2      |          | Feature | Stalled     | Normal   | SAM4S4BA support in firmware                                                 | laforge   | 01/31/2023 08:06 PM | Related to #5826 |

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|------|------------|----------|---------|-------------|----------|-----------------------------------------------------------------------------------------------|------------|---------------------|---------------------------------------------------------------------|
| 5600 | SIMtrace 2 |          | Feature | Feedback    | Normal   | SIMtrace2 fails to emulate EMV cards                                                          | boggy123   | 12/14/2022 01:07 PM |                                                                     |
| 5423 | SIMtrace 2 |          | Bug     | New         | Low      | "trace" firmware continuous test setup                                                        |            | 01/27/2022 12:24 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                                                    |
| 3712 | SIMtrace 2 |          | Bug     | New         | Low      | TRACE_FATAL not printing                                                                      | laforge    | 04/06/2021 01:28 AM |                                                                     |
| 3379 | SIMtrace 2 |          | Bug     | Stalled     | High     | documentation on how to use SIMtrace2                                                         | laforge    | 11/14/2022 05:31 PM | Related to #3379                                                    |
| 5770 | SIMtrace 2 | firmware | 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 | firmware | Bug     | Feedback    | Normal   | No packet captured but only "Card state change:"                                              | g1bbs      | 09/20/2023 01:29 PM |                                                                     |
| 5578 | SIMtrace 2 | firmware | 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                                                    |
| 5464 | SIMtrace 2 | firmware | Bug     | In Progress | Normal   | cardem firmware unable to attach to card                                                      | laforge    | 11/18/2022 06:41 PM | Related to #5464                                                    |
| 5422 | SIMtrace 2 | firmware | Feature | In Progress | Normal   | "cardem" continuous testing setup                                                             | laforge    | 01/27/2022 12:22 PM | Related to #5422                                                    |
| 5419 | SIMtrace 2 | firmware | Bug     | Stalled     | High     | cardem errors with higher baud rate                                                           | laforge    | 11/07/2022 06:22 PM |                                                                     |
| 5415 | SIMtrace 2 | firmware | Bug     | New         | Normal   | cardem: watchdog triggers firmware reset                                                      | lynxis     | 02/15/2022 08:07 PM |                                                                     |
| 4430 | SIMtrace 2 | firmware | Bug     | New         | Normal   | firmware can get in endless out-of-memory loop on OUT EP flood                                | laforge    | 11/14/2022 11:46 PM |                                                                     |
| 4041 | SIMtrace 2 | firmware | Bug     | New         | Normal   | implement SIMTRACE_CMD_BD_BOARD_INFO                                                          | laforge    | 12/06/2019 01:38 PM | Related to #4041                                                    |
| 3815 | SIMtrace 2 | firmware | Bug     | New         | Normal   | simtrace2 fails USB-IF CH9 test                                                               | Hoernchen  | 05/12/2020 07:24 PM |                                                                     |
| 3371 | SIMtrace 2 | firmware | Feature | New         | Normal   | migrate to use arm-none-eabi build of libosmocore.git                                         | laforge    | 08/09/2018 12:14 PM |                                                                     |
| 1705 | SIMtrace 2 | firmware | 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                                   |
| 1460 | SIMtrace 2 | firmware | 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                                   |
| 4118 | SIMtrace 2 | hardware | Bug     | New         | Normal   | VCC_PHONE strong pull on SIMtrace board                                                       | mschramm   | 02/01/2023 12:16 PM | Related to #4118,Related to #4118                                   |
| 3711 | SIMtrace 2 | hardware | Feature | New         | Normal   | Add screw holes for permanent installations                                                   | mschramm   | 11/01/2023 08:28 PM |                                                                     |
| 3501 | SIMtrace 2 | hardware | Feature | New         | Low      | Multi-sim addon board idea                                                                    |            | 08/28/2018 03:00 PM |                                                                     |
| 1912 | SIMtrace 2 | hardware | Feature | Stalled     | Low      | do proper re-layout of the board                                                              | mschramm   | 10/20/2020 08:39 AM | Related to #4118                                                    |
| 1911 | SIMtrace 2 | hardware | Feature | New         | Normal   | check if we can have an enclosed version of simtrace v2                                       | tsaitgaist | 09/13/2018 12:40 PM |                                                                     |
| 1706 | SIMtrace 2 | hardware | 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 |

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|------------------------------------------|------------------------------|---------------|---------|---------|----------|-------------------------------------------------------------------------------------------------------------------------|---------------|---------------------|------------------|
| 1463                                     | SIMtrace 2                   | hardware      | 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                   | hardware      | Feature | New     | Low      | Spacing between JTAG and JP1/JP2                                                                                        | mschramm      | 09/13/2018 07:07 PM |                  |
| 5805                                     | SIMtrace 2                   | host software | Feature | New     | Normal   | SIM Trace 2 Build for Windows                                                                                           | jelson_simEng | 04/02/2023 09:56 AM |                  |
| <b>SDR (Software Defined Radio) (12)</b> |                              |               |         |         |          |                                                                                                                         |               |                     |                  |
| 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 |                  |
| 5850                                     | SDR (Software Defined Radio) |               | Bug     | New     | Normal   | OBS mingw builds not updated since 2019                                                                                 | roox          | 01/04/2023 12:15 PM |                  |
| 4685                                     | SDR (Software Defined Radio) |               | Bug     | New     | Normal   | Can't compile libusrp                                                                                                   |               | 08/04/2020 08:52 AM |                  |
| 4677                                     | SDR (Software Defined Radio) |               | Bug     | New     | Normal   | fopher crash on OSX with Qt                                                                                             |               | 07/27/2020 03:27 AM |                  |
| 4653                                     | SDR (Software Defined Radio) |               | Bug     | New     | Normal   | cannot import name 'fosphor'                                                                                            |               | 07/07/2020 02:39 AM |                  |
| 4580                                     | SDR (Software Defined Radio) |               | Feature | New     | Normal   | gr-osmosdr compilation under GnuRadio 3.9.0                                                                             |               | 06/04/2020 01:13 AM |                  |
| 3817                                     | SDR (Software Defined Radio) |               | Bug     | New     | Normal   | Unable to use fosphor display on Ubuntu 18.10                                                                           |               | 02/26/2019 06:56 PM |                  |
| 3126                                     | SDR (Software Defined Radio) |               | Bug     | New     | Low      | Windows 10 Pro 1709: crash of rtl_test.exe                                                                              |               | 03/30/2018 02:16 PM |                  |
| 2764                                     | SDR (Software Defined Radio) |               | Support | New     | Normal   | osmocom_fft & siggen can't access the X display                                                                         |               | 12/15/2017 06:09 PM |                  |
| 2224                                     | SDR (Software Defined Radio) |               | Feature | New     | Normal   | New Fosphor Benchmark Performance                                                                                       |               | 05/04/2017 01:23 PM |                  |
| 1678                                     | SDR (Software Defined Radio) |               | Bug     | New     | Normal   | Use -undefined dynamic_lookup when using Python and building on Mac OS X                                                |               | 03/30/2016 11:25 PM |                  |
| 1474                                     | SDR (Software Defined Radio) |               | Bug     | New     | High     | USB Claim Interface Error                                                                                               | steve-m       | 02/20/2016 08:23 PM |                  |
| <b>rtl-sdr (24)</b>                      |                              |               |         |         |          |                                                                                                                         |               |                     |                  |
| 6413                                     | rtl-sdr                      |               | Bug     | New     | Normal   | Incorrect Debian/Debian-like binary packages                                                                            | steve-m       | 03/22/2024 05:09 PM |                  |
| 6329                                     | rtl-sdr                      |               | Bug     | New     | Normal   | rtl_sdr does not have correct rpath set on OSX build                                                                    |               | 01/12/2024 09:57 PM |                  |
| 6225                                     | rtl-sdr                      |               | Bug     | New     | Normal   | rtl-sdr reelase tarballs missing from <a href="https://ftp.osmocom.org/releases/">https://ftp.osmocom.org/releases/</a> | osmith        | 10/19/2023 09:46 AM |                  |
| 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 |                  |

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|------|---------|----------|---------|--------|----------|---------------------------------------------------------------------------------------------------------------------|----------|---------------------|----------------|
| 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 |                |
| 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 |                |

### Retronetworking (19)

|      |                 |  |         |          |        |                                                                         |         |                     |  |
|------|-----------------|--|---------|----------|--------|-------------------------------------------------------------------------|---------|---------------------|--|
| 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 |  |
| 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 |  |
| 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 |  |

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|------|-----------------|----------|---------|-------------|----------|------------------------------------------------------|----------|---------------------|----------------|
| 6193 | Retronetworking |          | Support | New         | Low      | Replace "event rack" PM3 power supply                | laforge  | 09/27/2023 12:19 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 |                |
| 5746 | Retronetworking |          | Feature | New         | Low      | Create H.221 decoder                                 |          | 11/07/2022 10:55 PM |                |
| 5681 | Retronetworking |          | Bug     | New         | Normal   | Figure out suitable connectors for EKSOS             | laforge  | 07/31/2023 10:22 AM |                |
| 5545 | Retronetworking |          | Feature | New         | Low      | E1 support for dynamips                              |          | 04/24/2022 09:56 AM |                |
| 5543 | Retronetworking |          | Feature | New         | Normal   | Contact manufacturers for leftover stock             |          | 06/27/2023 09:05 PM |                |
| 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 |                |

### Retrocomputing (8)

|      |                |  |         |             |        |                                    |         |                     |  |
|------|----------------|--|---------|-------------|--------|------------------------------------|---------|---------------------|--|
| 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 |  |
| 5938 | Retrocomputing |  | Feature | In Progress | Normal | assemble "fake parallel printer"   | laforge | 09/13/2023 09:32 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 |  |
| 5932 | Retrocomputing |  | Feature | New         | Low    | assemble ISA-USB                   | laforge | 03/02/2023 09:25 PM |  |

### Qualcomm Linux Modems by Quectel & Co (5)

|      |                                       |  |         |     |        |                                                          |  |                     |  |
|------|---------------------------------------|--|---------|-----|--------|----------------------------------------------------------|--|---------------------|--|
| 4206 | Qualcomm Linux Modems by Quectel & Co |  | Support | New | Urgent | Unbrick cpe router without web ui interface and terminal |  | 02/22/2021 02:01 PM |  |
| 4135 | Qualcomm Linux Modems by Quectel & Co |  | Support | New | Normal | how to use network inside ec20                           |  | 07/31/2019 11:20 AM |  |
| 1815 | Qualcomm Linux Modems by Quectel & Co |  | Feature | New | Normal | tool for building binary ipk from .list/.control         |  | 10/02/2016 05:06 AM |  |
| 1814 | Qualcomm Linux Modems by Quectel & Co |  | Feature | New | Low    | check if qtools work                                     |  | 10/02/2016 04:08 AM |  |

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|-------------------|---------------------------------------|-----------------|---------|-------------|----------|-------------------------------------------------------------------------------|----------|---------------------|------------------------------------|
| 1813              | Qualcomm Linux Modems by Quectel & Co |                 | Bug     | New         | Normal   | cat /dev/snd/* causes kernel oops                                             |          | 09/30/2016 04:00 PM |                                    |
| <b>pySim (29)</b> |                                       |                 |         |             |          |                                                                               |          |                     |                                    |
| 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 |                                    |
| 6322              | pySim                                 |                 | Bug     | New         | Low      | ATR type annotation                                                           |          | 01/03/2024 09:55 PM |                                    |
| 6317              | pySim                                 |                 | Bug     | Stalled     | Normal   | data driven tests for TLV decoders                                            | laforge  | 02/15/2024 09:21 PM |                                    |
| 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                   |
| 6119              | pySim                                 |                 | Bug     | In Progress | Normal   | aram_get_config runs into an exception on a sysmocomSJA2                      | laforge  | 12/05/2023 05:26 PM |                                    |
| 6086              | pySim                                 |                 | Feature | New         | Low      | implement features of sysmo-{usim, isim}-tool                                 | 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 |                                    |
| 5878              | pySim                                 |                 | Bug     | New         | Normal   | pySim shell: version fails with DistributionNotFound                          | fixeria  | 10/06/2023 09:03 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                   |
| 5235              | pySim                                 |                 | Feature | New         | Low      | import / export as eUICC profile package ASN.1                                |          | 06/09/2023 04:55 PM |                                    |
| 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                   |
| 4383              | pySim                                 |                 | Bug     | Stalled     | High     | Jenkins build verification is non-deterministic                               | dexter   | 04/06/2021 04:58 PM | Related to #4384, Related to #5127 |
| 1919              | pySim                                 |                 | Bug     | New         | Low      | issue with grcardsim from Greencard (grcard.cn)                               |          | 08/17/2017 06:45 AM |                                    |
| 6340              | pySim                                 | osmo-smdpp      | Bug     | New         | Low      | exception when using osmo-smdpp with python 3.9                               | laforge  | 02/15/2024 09:29 PM |                                    |
| 6315              | pySim                                 | pySim libraries | Feature | New         | Low      | have test data for all supported files                                        |          | 12/23/2023 09:36 AM |                                    |
| 6104              | pySim                                 | pySim libraries | Feature | New         | Low      | reduce number of python dependencies                                          |          | 07/20/2023 04:28 PM |                                    |
| 5714              | pySim                                 | pySim libraries | Bug     | Stalled     | Normal   | update_record_decoded does not use real record length when writing EF.MSISDN  | dexter   | 09/17/2023 09:46 AM |                                    |

| #    | Project | Category    | Tracker | Status      | Priority | Subject                                                                                        | Assignee | Updated             | Related issues   |
|------|---------|-------------|---------|-------------|----------|------------------------------------------------------------------------------------------------|----------|---------------------|------------------|
| 6265 | pySim   | pySim-prog  | Feature | New         | Normal   | decode numeric SW in case of errors                                                            | dexter   | 12/11/2023 01:01 PM |                  |
| 6316 | pySim   | pySim-shell | Feature | New         | Normal   | include test data in user manual                                                               |          | 12/23/2023 03:10 PM |                  |
| 6211 | pySim   | pySim-shell | 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 |
| 6092 | pySim   | pySim-shell | Feature | New         | Low      | "export" suport for ARA-M                                                                      | dexter   | 10/31/2023 06:40 PM |                  |
| 6089 | pySim   | pySim-shell | Feature | Feedback    | Normal   | log the current file / operation during execeution of a script                                 | laforge  | 11/27/2023 04:37 PM |                  |
| 6314 | pySim   | pySim-trace | Bug     | New         | Low      | pySim-trace doesn't support ARA-M                                                              |          | 12/23/2023 09:36 AM |                  |

### OsmoUPF (5)

|      |         |  |         |             |        |                                                               |  |                     |                  |
|------|---------|--|---------|-------------|--------|---------------------------------------------------------------|--|---------------------|------------------|
| 6394 | OsmoUPF |  | Feature | Stalled     | Low    | Basic URR (Usage Reporting Rule) support for tunnel mapping   |  | 03/22/2024 08:08 AM | Related to #6395 |
| 5900 | OsmoUPF |  | Feature | In Progress | Normal | make sure chain ids used in the tunmap nft ruleset are unused |  | 02/09/2023 05:34 PM |                  |
| 5814 | OsmoUPF |  | Feature | New         | Normal | tunmap: more concisely match on GTP-U packets                 |  | 12/06/2022 07:30 PM |                  |
| 5682 | OsmoUPF |  | Feature | New         | Low    | cfg: separate PFCP Node ID from PFCP local address            |  | 09/17/2022 02:21 PM | Related to #5682 |
| 5662 | OsmoUPF |  | Feature | New         | Normal | add Linux kernel options to manual                            |  | 08/24/2022 03:13 PM |                  |

### OsmoTRX (31)

|      |         |  |         |             |        |                                                                                            |           |                     |                                                    |
|------|---------|--|---------|-------------|--------|--------------------------------------------------------------------------------------------|-----------|---------------------|----------------------------------------------------|
| 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 |                                                    |
| 5516 | OsmoTRX |  | Feature | In Progress | High   | BladeRF 2.0 Support                                                                        | Hoernchen | 02/14/2023 02:59 PM | Is duplicate of #2430                              |
| 5228 | OsmoTRX |  | Feature | New         | Low    | osmo-trx: Missing unit tests for <code>computeCI()</code> and <code>computeEdgeCI()</code> | Hoernchen | 11/07/2022 06:23 PM |                                                    |
| 5178 | OsmoTRX |  | Bug     | New         | Normal | LimeNET Micro clock error                                                                  | Hoernchen | 09/15/2021 09:42 AM |                                                    |
| 5050 | OsmoTRX |  | Bug     | New         | Normal | How can I solve limesdr mini clock problem with osmocom ?                                  |           | 02/27/2021 01:55 PM |                                                    |
| 4504 | OsmoTRX |  | Feature | New         | Low    | Buidl LimeSuite without GUI in osmocom feeds                                               |           | 09/30/2020 08:08 PM |                                                    |
| 4469 | OsmoTRX |  | Bug     | New         | Normal | osmo-trx-uhd is sending UDP packets to port 49600 at various addresses on startup          | laforge   | 06/13/2020 06:07 PM |                                                    |
| 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 |
| 3962 | OsmoTRX |  | Feature | New         | Low    | osmo-trx: Use gcc attribute <code>no_sanitize</code> 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 |                                                    |

| #    | Project | Category | Tracker | Status  | Priority | Subject                                                                                      | Assignee  | Updated             | Related issues                                                      |
|------|---------|----------|---------|---------|----------|----------------------------------------------------------------------------------------------|-----------|---------------------|---------------------------------------------------------------------|
| 3344 | OsmoTRX |          | Feature | New     | Normal   | merge ttsou/siggen                                                                           |           | 06/13/2018 07:26 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 |                                                                     |
| 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 |
| 3033 | OsmoTRX |          | Feature | New     | Low      | Split wiki page into multiple smaller pages                                                  |           | 03/05/2018 11:28 AM |                                                                     |
| 2430 | OsmoTRX |          | Feature | New     | Low      | osmo-trx support bladerf                                                                     |           | 02/14/2023 01:39 PM | Is duplicate of #2430,Is duplicate of #2430                         |
| 4637 | OsmoTRX | LimeSDR  | Bug     | New     | Normal   | limesdr usb gain setting changes break gsm phasenoise constraints                            |           | 06/29/2020 04:43 PM |                                                                     |
| 4366 | OsmoTRX | LimeSDR  | 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 | LimeSDR  | 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 | LimeSDR  | Feature | Stalled | Normal   | osmo-trx-lms: Support multi-arfcn feature                                                    |           | 09/30/2020 08:09 PM | Related to #4362,Related to #4362                                   |
| 3981 | OsmoTRX | LimeSDR  | Bug     | New     | Normal   | osmo-trx-lms: Overruns appear from time to time                                              |           | 09/30/2020 08:08 PM | Related to #3981                                                    |
| 3949 | OsmoTRX | LimeSDR  | Bug     | New     | Normal   | osmo-trx-lms: improve runtime gain setting (missing calibration)                             |           | 09/30/2020 08:08 PM | Related to #4468                                                    |
| 3775 | OsmoTRX | LimeSDR  | 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                              |
| 3342 | OsmoTRX | LimeSDR  | Bug     | Stalled | Normal   | osmo-trx-lms: low tx output power level                                                      | Hoernchen | 04/06/2022 09:25 AM | Related to #3342,Blocks #3342                                       |



| #    | Project | Category        | Tracker | Status  | Priority | Subject                                                                                                    | Assignee  | Updated             | Related issues                                 |
|------|---------|-----------------|---------|---------|----------|------------------------------------------------------------------------------------------------------------|-----------|---------------------|------------------------------------------------|
| 3341 | OsmoTRX | LimeSDR         | Bug     | Stalled | High     | osmo-trx-lms RF Envelope FAIL on LimeSDR, but not on LimeSDR-mini                                          |           | 09/30/2020 08:08 PM | Related to #3341,Related to #3861,Blocks #3341 |
| 5283 | OsmoTRX | TRX Interface   | Feature | New     | Normal   | Implement TRXDv2 support                                                                                   | fixeria   | 10/27/2021 10:35 PM | Related to #5283                               |
| 4622 | OsmoTRX | UHD             | Bug     | New     | High     | Lots of "dumping STALE burst in TRX->SDR interface" messages in osmo-trx after osmo-bts-trx proper restart | Hoernchen | 07/06/2020 11:57 AM |                                                |
| 3970 | OsmoTRX | USRP1 (libusrp) | 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                          |

### OsmoSTP (9)

|      |         |  |         |     |        |                                             |        |                     |                  |
|------|---------|--|---------|-----|--------|---------------------------------------------|--------|---------------------|------------------|
| 4275 | OsmoSTP |  | Feature | New | Low    | Add TTCN3 STP_Tests_IPA.TC_tmt_broadcast    | pespin | 12/01/2019 11:04 AM |                  |
| 4274 | OsmoSTP |  | Bug     | New | Normal | AS Name isn't displayed                     |        | 03/14/2024 10:33 AM |                  |
| 3609 | OsmoSTP |  | Feature | New | Low    | Support for C-Link                          |        | 10/03/2018 08:58 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 |                  |
| 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 |                  |

### OsmoSMSC (3)

|      |          |  |         |     |        |                                                                                          |       |                     |  |
|------|----------|--|---------|-----|--------|------------------------------------------------------------------------------------------|-------|---------------------|--|
| 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 |  |

### OsmoSGSN (65)

|      |          |  |         |          |        |                                                                 |         |                     |                                   |
|------|----------|--|---------|----------|--------|-----------------------------------------------------------------|---------|---------------------|-----------------------------------|
| 6442 | OsmoSGSN |  | Bug     | New      | Normal | SGSN does not answer to first GMM ATTACH REQUEST                |         | 04/24/2024 05:48 PM |                                   |
| 6441 | OsmoSGSN |  | Bug     | New      | Normal | use-after-free on RAU with invalid Old RAI                      |         | 04/22/2024 01:23 PM | Related to #6441                  |
| 6439 | OsmoSGSN |  | Bug     | Feedback | Normal | ttcn3-sgsn-test: SGSN_Tests.TC_attach_rau_a_b crashes osmo-sgsn | fixeria | 04/21/2024 02:07 PM | Related to #6439,Related to #6441 |
| 6295 | OsmoSGSN |  | Bug     | New      | Normal | TMSI realloc complete leads to SecurityModeReject               | osmith  | 12/07/2023 03:15 PM |                                   |
| 6294 | OsmoSGSN |  | Feature | New      | High   | Support GN/Gp interoperation procedures between SGSN and MME    | daniel  | 04/22/2024 06:04 PM | Related to #6294,Related to #6439 |

| #    | Project  | Category | Tracker | Status      | Priority | Subject                                                                                  | Assignee | Updated             | Related issues                                                         |
|------|----------|----------|---------|-------------|----------|------------------------------------------------------------------------------------------|----------|---------------------|------------------------------------------------------------------------|
| 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 |                                                                        |
| 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 |                                                                        |
| 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 |                                                                        |
| 5853 | OsmoSGSN |          | Feature | New         | Normal   | osmo-sgsn: Rework to use libosmo-gprs                                                    |          | 01/11/2023 03:14 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 |                                                                        |
| 5487 | OsmoSGSN |          | Feature | New         | Low      | get rid of osmo-juh.git's iu_client API and absorb into OsmoSGSN                         |          | 03/10/2022 06:05 PM |                                                                        |
| 5398 | OsmoSGSN |          | Bug     | New         | Normal   | Null pointer access at "uctx" in ranap_iu_tx                                             | pespin   | 01/10/2022 01:14 PM |                                                                        |
| 5349 | OsmoSGSN |          | Bug     | In Progress | High     | Message for non-existing SNDCP Entity                                                    |          | 07/17/2023 04:42 PM |                                                                        |
| 5154 | OsmoSGSN |          | Bug     | New         | Normal   | OsmoSGSN doesn't trigger 3G paging if downlink GTP traffic arrives after long break      |          | 05/13/2021 12:28 PM | Related to #5154                                                       |
| 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 |                                                                        |
| 4631 | OsmoSGSN |          | Bug     | New         | Low      | packet/byte counters don't work for 3G                                                   |          | 06/24/2020 06:58 AM |                                                                        |
| 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                                                       |
| 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:pdpctx already exists for index X, instead using Y                    |          | 09/09/2020 10:05 AM | Related to #4604                                                       |

| #    | Project  | Category | Tracker | Status      | Priority | Subject                                                                              | Assignee | Updated             | Related issues                                                               |
|------|----------|----------|---------|-------------|----------|--------------------------------------------------------------------------------------|----------|---------------------|------------------------------------------------------------------------------|
| 4222 | OsmoSGSN |          | Bug     | New         | High     | Implement PS Paging for the Routing Areas                                            |          | 10/03/2020 02:20 PM | Related to #4222                                                             |
| 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                           |
| 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 |                                                                              |
| 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 |                                                                              |
| 3688 | OsmoSGSN |          | Feature | New         | Low      | move generic gtpub code to libosmocore                                               |          | 04/15/2019 07:29 AM |                                                                              |
| 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                                            |
| 2951 | OsmoSGSN |          | Bug     | Feedback    | Normal   | OsmoSGSN Accepts two MO L3 Messages with N(U) set to zero                            | osmith   | 09/11/2019 12:24 PM |                                                                              |
| 2692 | OsmoSGSN |          | Bug     | New         | Low      | HLR string in CDR and VTY is empty                                                   | pespin   | 09/30/2018 11:39 AM |                                                                              |
| 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 |                                                                              |
| 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 |
| 1768 | OsmoSGSN |          | Bug     | Stalled     | Low      | VTY show llc displays State TLLI Unassigned permanently                              |          | 01/08/2020 10:52 PM |                                                                              |
| 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 |                                                                              |

| #    | Project  | Category       | Tracker | Status      | Priority | Subject                                                                       | Assignee | Updated             | Related issues                                                                       |
|------|----------|----------------|---------|-------------|----------|-------------------------------------------------------------------------------|----------|---------------------|--------------------------------------------------------------------------------------|
| 1586 | OsmoSGSN |                | Feature | New         | Normal   | Implement QoS profile support                                                 |          | 02/23/2016 03:45 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                              |
| 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 |                                                                                      |
| 33   | OsmoSGSN |                | Feature | New         | Low      | real LLC implementation with fragmentation and re-transmissions               |          | 11/09/2016 09:45 AM |                                                                                      |
| 5852 | OsmoSGSN | Gb interface   | Bug     | New         | Normal   | osmo-sgsn: Keep TLLI<->NSEI+BVCI relation knowledge in BSSGP layer            |          | 01/11/2023 03:08 PM |                                                                                      |
| 3356 | OsmoSGSN | GSUP interface | 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                                   |
| 2957 | OsmoSGSN | GSUP interface | Bug     | New         | Normal   | No timeout during GSUP PURGE MS to HLR                                        |          | 01/08/2020 10:47 PM |                                                                                      |
| 2955 | OsmoSGSN | GSUP interface | Bug     | New         | High     | No GMM ATTACH REJECT on GSUP UpdateLocation Error                             | lynxis   | 09/10/2019 07:39 PM |                                                                                      |
| 2953 | OsmoSGSN | GSUP interface | Bug     | New         | Normal   | No timeout waiting for UpdateLocation Response on GSUP                        |          | 01/08/2020 10:47 PM | Related to #2952                                                                     |
| 1587 | OsmoSGSN | GSUP interface | Feature | Stalled     | Normal   | SMS over GPRS support                                                         |          | 11/25/2018 08:14 PM | Related to #3587                                                                     |
| 2959 | OsmoSGSN | GTP interface  | Bug     | New         | Low      | OsmoSGSN puts bogus LAC/RAC in GTP Create PDP CTX ACT REQ                     | osmith   | 09/30/2018 11:41 AM |                                                                                      |
| 3940 | OsmoSGSN | Iu interface   | Bug     | New         | Normal   | TTCN-3: Iu: test UMTS Auth                                                    |          | 04/24/2019 08:24 AM |                                                                                      |
| 3937 | OsmoSGSN | Iu interface   | Bug     | In Progress | Normal   | Iu: verify handling of GMM Service Request (data)when no PDP Context present. |          | 05/21/2019 10:28 AM | Related to #3937                                                                     |
| 3936 | OsmoSGSN | Iu interface   | Bug     | New         | Normal   | Iu: first GMM Service Request does not find a MM ctx                          |          | 05/07/2019 01:37 PM | Related to #3936                                                                     |
| 3923 | OsmoSGSN | Iu interface   | Bug     | New         | Normal   | Iu: Respond to SecurityCommandReject messages                                 |          | 04/24/2019 08:26 AM | Related to #3923                                                                     |
| 3920 | OsmoSGSN | Iu interface   | 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 |
| 3403 | OsmoSGSN | Iu interface   | 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  | Category     | Tracker | Status  | Priority | Subject                                                                             | Assignee | Updated             | Related issues                                     |
|---------------------|----------|--------------|---------|---------|----------|-------------------------------------------------------------------------------------|----------|---------------------|----------------------------------------------------|
| 3224                | OsmoSGSN | lu interface | Bug     | New     | Normal   | verify ciphering after UMTS AKA                                                     |          | 01/08/2020 10:48 PM | Related to #3193,Related to #3224                  |
| 1818                | OsmoSGSN | lu interface | 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 |
| <b>OsmoSDR (3)</b>  |          |              |         |         |          |                                                                                     |          |                     |                                                    |
| 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 |                                                    |
| <b>OsmoPCU (71)</b> |          |              |         |         |          |                                                                                     |          |                     |                                                    |
| 6436                | OsmoPCU  |              | Bug     | New     | High     | high cpu usage, entire BTS unresponsive after some hours                            | keith    | 04/13/2024 04:32 PM |                                                    |
| 6303                | OsmoPCU  |              | Feature | New     | Low      | Convert pcuif to TLV to make backwards compatibility more feasible                  |          | 02/15/2024 09:23 PM |                                                    |
| 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 |                                                    |
| 5930                | OsmoPCU  |              | Feature | New     | Low      | handle multiple BTSs with one PCU                                                   |          | 03/03/2023 10:47 AM |                                                    |
| 5844                | OsmoPCU  |              | Bug     | New     | Normal   | pcu: ns: ip-sns: 2 local binds with a single remote is invalid                      |          | 12/22/2022 09:59 PM |                                                    |
| 5834                | OsmoPCU  |              | Feature | New     | Normal   | VTY option "two-phase-access" is misleading                                         |          | 12/19/2022 06:55 PM |                                                    |
| 5833                | OsmoPCU  |              | Feature | New     | Low      | A "meas-feed" for osmo-pcu                                                          | keith    | 12/18/2022 06:42 PM |                                                    |
| 5827                | OsmoPCU  |              | Feature | New     | Normal   | osmo-pcu: Hardcoded limit of maximum number of 8 TRX per BTS                        | pespin   | 12/16/2022 11:55 AM |                                                    |
| 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 |                                                    |
| 5212                | OsmoPCU  |              | Bug     | New     | Low      | apparently T3193 is by default not set to its defined default value                 | pespin   | 11/15/2021 07:13 PM |                                                    |

| #    | Project | Category | Tracker | Status   | Priority | Subject                                                                                                                  | Assignee | Updated             | Related issues                     |
|------|---------|----------|---------|----------|----------|--------------------------------------------------------------------------------------------------------------------------|----------|---------------------|------------------------------------|
| 5149 | OsmoPCU |          | Bug     | New      | Low      | osmo-pcu fails to allocate all DL-TBF possible slots under specific scenario                                             | pespin   | 09/15/2021 09:49 AM |                                    |
| 5122 | OsmoPCU |          | Feature | New      | Normal   | Choose SBA allocation offset based on AGCH queue load in the BTS                                                         | pespin   | 04/20/2021 12:51 PM | Related to #5122                   |
| 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 GSMK-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 |                                    |
| 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 |                                    |
| 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 |                                    |
| 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 |                                    |
| 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                   |
| 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 |                                    |
| 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 | Category | 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                  |
| 2603 | OsmoPCU |          | Bug     | New         | Low      | Review the various incomplete and never merged changes in radisy 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 |                                                    |
| 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 |
| 2383 | OsmoPCU |          | Bug     | New         | Normal   | incompatibility with some SGSNs during P-TMSI allocation                                                       | laforge  | 07/04/2018 12:50 PM |                                                    |
| 1925 | OsmoPCU |          | Bug     | New         | High     | Fix padding for MCS8 transition                                                                                |          | 01/08/2020 10:31 PM |                                                    |
| 1903 | OsmoPCU |          | Feature | New         | Low      | convert c++ -> c                                                                                               |          | 03/23/2020 10:48 PM |                                                    |
| 1838 | OsmoPCU |          | Bug     | Stalled     | Normal   | Nokia E52 doest reply to PUAN message properly                                                                 |          | 10/29/2017 06:47 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                                   |
| 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                  |
| 1640 | OsmoPCU |          | Bug     | Feedback    | Low      | Missing release field/length in MS RA capability container                                                     |          | 10/20/2020 09:19 AM |                                                    |
| 1624 | OsmoPCU |          | Bug     | New         | Normal   | add CRBB support to write_packet_ack_nack_desc_egprs                                                           |          | 10/20/2020 08:37 AM |                                                    |
| 1560 | OsmoPCU |          | Feature | New         | High     | EDGE benchmarking / performance optimization / tuning                                                          |          | 01/08/2020 10:31 PM |                                                    |
| 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 |                                                    |
| 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                                   |

| #                    | Project  | Category | Tracker | Status   | Priority | Subject                                                                 | Assignee | Updated             | Related issues                                                                                                         |
|----------------------|----------|----------|---------|----------|----------|-------------------------------------------------------------------------|----------|---------------------|------------------------------------------------------------------------------------------------------------------------|
| 1547                 | OsmoPCU  |          | Feature | New      | Normal   | downlink power control on PDTCH                                         |          | 02/23/2016 03:04 PM |                                                                                                                        |
| 1546                 | OsmoPCU  |          | Feature | New      | Low      | closed loop uplink power control                                        |          | 09/30/2020 08:05 PM |                                                                                                                        |
| 1545                 | OsmoPCU  |          | Feature | Stalled  | Normal   | continuous timing advance loop using PTCCCH                             | 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                                                                                      |
| 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 |                                                                                                                        |
| 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 |
| <b>OsmoNITB (21)</b> |          |          |         |          |          |                                                                         |          |                     |                                                                                                                        |
| 4642                 | OsmoNITB |          | Bug     | New      | Low      | Attempting to set illegal id for FSM instance of type 'OM2000-MO'       |          | 07/03/2020 06:40 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 |                                                                                                                        |



| #    | Project  | Category           | 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 |                                   |
| 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 |                                   |
| 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 |                                   |
| 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 |                                   |
| 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 |                                   |
| 1667 | OsmoNITB | osmo-sip-connector | Feature | New     | Normal   | Handle callref better                                                                                   |          | 09/04/2019 09:31 AM | Related to #3294                  |

### OsmoMSC (102)

|      |         |  |         |             |        |                                                                                     |         |                     |                                   |
|------|---------|--|---------|-------------|--------|-------------------------------------------------------------------------------------|---------|---------------------|-----------------------------------|
| 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 |
| 6321 | OsmoMSC |  | Bug     | New         | Low    | SMS not delivered from corrupted SMS database                                       |         | 01/02/2024 01:07 PM |                                   |
| 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                  |

| #    | Project | Category | Tracker | Status      | Priority | Subject                                                                                                                                                                           | Assignee | Updated             | Related issues                    |
|------|---------|----------|---------|-------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------------------|-----------------------------------|
| 6217 | OsmoMSC |          | Bug     | Feedback    | Normal   | Bearer Capability mismatch in MT SETUP                                                                                                                                            | neels    | 10/10/2023 10:17 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                  |
| 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 |                                   |
| 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 |                                   |
| 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 |                                   |
| 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 |                                   |
| 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 |                                   |
| 4634 | OsmoMSC |          | Feature | New         | Low      | lu: record SAC, and show RNC ID and SAC in the vty upon 'show subscriber'                                                                                                         |          | 06/24/2020 06:08 PM |                                   |
| 4633 | OsmoMSC |          | Feature | New         | Normal   | update the Cell ID in the VLR after an inter-BSC / inter-MSC handover                                                                                                             |          | 06/24/2020 12:40 PM |                                   |
| 4632 | OsmoMSC |          | Feature | New         | Normal   | update the cell id in the VLR when receiving BSSMAP HANDOVER PERFORMED from the BSC                                                                                               |          | 06/24/2020 12:35 PM | Related to #4632                  |

| #    | Project | Category | Tracker | Status      | Priority | Subject                                                                                            | Assignee | Updated             | Related issues                                                      |
|------|---------|----------|---------|-------------|----------|----------------------------------------------------------------------------------------------------|----------|---------------------|---------------------------------------------------------------------|
| 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   | vty '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 |                                                                     |
| 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 |                                                                     |
| 4017 | OsmoMSC |          | Bug     | New         | Normal   | MSC fails to handle calls                                                                          |          | 05/29/2019 04:56 PM |                                                                     |
| 3992 | OsmoMSC |          | Bug     | New         | Normal   | inter-MSC handover for signalling-only?                                                            |          | 05/09/2019 11:39 AM |                                                                     |
| 3988 | OsmoMSC |          | Feature | New         | Low      | change the remaining DEBUGP() statements to LOG_MSC_A() / LOG_MSC_A_CAT()                          |          | 05/08/2019 03:26 PM |                                                                     |
| 3829 | OsmoMSC |          | Bug     | New         | Normal   | osmo-msc expects aoip TLV in Assignement Complete messages from BSC                                |          | 03/07/2019 08:30 PM |                                                                     |
| 3755 | OsmoMSC |          | Feature | New         | Low      | make retrieval of IMEISV configurable                                                              |          | 05/07/2019 12:28 PM | Related to #3755                                                    |
| 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 |                                                                     |
| 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                                                    |
| 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 |                                                                     |
| 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 |
| 3165 | OsmoMSC |          | Feature | New         | Low      | Verify LU Request's LAI                                                                            | osmith   | 07/18/2019 05:48 AM | Related to #3164                                                    |
| 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                  |

| #    | Project | Category | Tracker | Status  | Priority | Subject                                                                        | Assignee | Updated             | Related issues                                                                                                     |
|------|---------|----------|---------|---------|----------|--------------------------------------------------------------------------------|----------|---------------------|--------------------------------------------------------------------------------------------------------------------|
| 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                                                                                  |
| 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                                                                                              |
| 2933 | OsmoMSC |          | Bug     | New     | Low      | change of trans->bearer_cap (e.g. via MNCC) will not trigger BSSMAP ASSIGNMENT |          | 02/12/2018 11:36 AM | Related to #2854                                                                                                   |
| 2928 | OsmoMSC |          | Bug     | New     | Normal   | OsmoMSC doesn't do BSSMAP ASSIGNMENT if no MNCC_RTP_CREATE is received         |          | 02/11/2018 05:38 PM |                                                                                                                    |
| 2916 | OsmoMSC |          | Bug     | New     | Normal   | asan failure on debian unstable in msc_vlr_test_gsm_ciph                       |          | 02/09/2018 04:20 PM |                                                                                                                    |
| 2895 | OsmoMSC |          | Bug     | New     | Normal   | OsmoMSC excessively uses LU Reject Cause 22 (congestion)                       | osmith   | 07/18/2019 05:41 AM |                                                                                                                    |
| 2884 | OsmoMSC |          | Bug     | New     | Low      | Call Control timers are very long and not configurable                         |          | 01/08/2020 10:56 PM |                                                                                                                    |
| 2883 | OsmoMSC |          | Bug     | New     | Normal   | GSUP encoding of MSISDN is wrong                                               |          | 10/20/2020 08:41 AM | Related to #4324,Related to #4333                                                                                  |
| 2878 | OsmoMSC |          | Feature | New     | Low      | OsmoMSC support for "Follow-on request/proceed"                                |          | 01/26/2018 09:11 PM |                                                                                                                    |
| 2877 | OsmoMSC |          | Bug     | New     | Normal   | OsmoMSC fails on bearer capability without octet 3a                            | osmith   | 07/18/2019 05:45 AM |                                                                                                                    |
| 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 |                                                                                                                    |
| 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                                                                                  |
| 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 |                                                                                                                    |
| 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                                                                                                   |
| 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 |

| #    | Project | Category              | Tracker | Status      | Priority | Subject                                                                                            | Assignee | Updated             | Related issues                                                      |
|------|---------|-----------------------|---------|-------------|----------|----------------------------------------------------------------------------------------------------|----------|---------------------|---------------------------------------------------------------------|
| 2391 | OsmoMSC |                       | Feature | New         | Low      | add osmocomb 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 |                                                                     |
| 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 |                                                                     |
| 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 |
| 1597 | OsmoMSC |                       | Feature | Stalled     | Low      | External interface for USSD                                                                        | fixeria  | 11/27/2018 11:08 PM | Related to #1597,Related to #3433                                   |
| 2872 | OsmoMSC | A interface (general) | Bug     | Feedback    | Normal   | OsmoMSC doesn't check if CIPHER MODE COMPLETE contains cipher that matches REQUEST                 | neels    | 07/29/2019 01:15 PM |                                                                     |
| 2669 | OsmoMSC | A interface (general) | Bug     | New         | Low      | osm-msc doesn't clean up BSC state                                                                 | osmith   | 09/30/2018 11:37 AM |                                                                     |
| 6330 | OsmoMSC | Call Control          | Bug     | New         | Normal   | Incorrect handling of V.120 data calls                                                             |          | 01/18/2024 03:02 PM | Related to #6344                                                    |
| 6152 | OsmoMSC | Call Control          | 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 | Call Control          | 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 |                                                                     |
| 4784 | OsmoMSC | Call Control          | Bug     | New         | Normal   | wrong cause code (resources unavailable) in MO-to-MT call without response                         | neels    | 10/08/2020 02:35 PM |                                                                     |
| 3469 | OsmoMSC | Call Control          | Feature | New         | Low      | Support for "service category" in emergency calls                                                  |          | 08/24/2018 12:48 PM | Related to #3470                                                    |
| 41   | OsmoMSC | Call Control          | Bug     | New         | Normal   | Numbering Plan in OsmoMSC                                                                          |          | 06/23/2018 07:37 PM |                                                                     |
| 25   | OsmoMSC | Call Control          | Feature | New         | Low      | Call HOLD / RETRIEVE support for internal MNCC                                                     |          | 08/01/2019 03:06 PM |                                                                     |
| 4691 | OsmoMSC | MGCP towards MGW      | Bug     | New         | Low      | setfault in osmo_sockaddr_str_is_set() via call_leg_ensure_ci()                                    |          | 02/06/2021 09:47 AM |                                                                     |
| 4065 | OsmoMSC | MGCP towards MGW      | 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                                                    |
| 2943 | OsmoMSC | MGCP towards MGW      | Bug     | New         | Normal   | Errors in MGCP do not propagate back to MNCC gsm_subscriber_conn state machine                     |          | 09/04/2019 09:21 AM |                                                                     |
| 4972 | OsmoMSC | MNCC Interface        | Bug     | New         | Normal   | manual: the MNCC protocol is outdated (RTP)                                                        |          | 01/24/2021 05:58 PM |                                                                     |
| 4337 | OsmoMSC | Mobility Management   | 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                                                    |
| 4004 | OsmoMSC | Mobility Management   | Bug     | New         | Low      | lu_fsm_priv.rej_cause is never used                                                                | neels    | 11/21/2023 02:37 AM |                                                                     |

| #    | Project | Category            | Tracker | Status      | Priority | Subject                                                                    | Assignee  | Updated             | Related issues                                     |
|------|---------|---------------------|---------|-------------|----------|----------------------------------------------------------------------------|-----------|---------------------|----------------------------------------------------|
| 3470 | OsmoMSC | Mobility Management | Feature | New         | Low      | Allow sending "Emergency Number List IE" in LU ACCEPT                      |           | 09/01/2018 08:18 PM | Related to #3470                                   |
| 5403 | OsmoMSC | SGs Interface       | Feature | New         | Normal   | Can't connect Call from 2G to 4G network                                   | laforge   | 01/14/2022 10:41 PM |                                                    |
| 5568 | OsmoMSC | SMPP Interface      | Bug     | Stalled     | Low      | SMPP socket doesn't use TCP_NODELAY                                        | osmith    | 10/31/2023 09:36 AM |                                                    |
| 5057 | OsmoMSC | SMPP Interface      | Bug     | New         | High     | Can only send a maximum of 15 SMPP messages?                               | Hoernchen | 09/15/2021 09:53 AM |                                                    |
| 3169 | OsmoMSC | SMPP Interface      | Bug     | New         | Low      | OsmoMSC rejects SMPP messages with empty SMS                               |           | 01/08/2020 10:56 PM |                                                    |
| 2390 | OsmoMSC | SMPP Interface      | Feature | New         | Normal   | re-add osmocom specific TLVs to SMPP messages                              |           | 12/23/2017 05:48 PM |                                                    |
| 2191 | OsmoMSC | SMPP Interface      | Feature | New         | Normal   | raw PDU mode for SMPP                                                      |           | 12/23/2017 05:48 PM |                                                    |
| 5564 | OsmoMSC | SMS                 | 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 | SMS                 | 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 |
| 5559 | OsmoMSC | SMS                 | Bug     | Stalled     | Urgent   | OsmoMSC at 100% CPU and unresponsive for up to several minutes!            | laforge   | 08/04/2022 08:14 AM | Related to #5563                                   |
| 3880 | OsmoMSC | SMS                 | Bug     | New         | Normal   | GSUP MT-ForwardSM Message Reference - wrong value in a response            |           | 04/01/2019 07:47 AM |                                                    |
| 3445 | OsmoMSC | SS/USSD             | Feature | Stalled     | Normal   | SS/USSD: clean up the local GSM 04.80 API                                  |           | 12/14/2018 01:57 PM |                                                    |
| 4830 | OsmoMSC | VLR                 | Bug     | In Progress | High     | LU reject when no authentication data in HLR but "authentication optional" | neels     | 10/10/2022 02:03 PM |                                                    |
| 4336 | OsmoMSC | VLR                 | 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                                   |
| 1974 | OsmoMSC | VLR                 | Feature | New         | Low      | VLR: high water mark on subscriber storage                                 |           | 05/15/2022 01:45 PM | Related to #1973                                   |

### OsmoMGW (42)

|      |         |  |         |             |        |                                                                                                                                         |         |                     |                                                |
|------|---------|--|---------|-------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------|---------|---------------------|------------------------------------------------|
| 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 | Category | 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     |
| 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                                                                                                                              | manawyrn  | 10/16/2023 08:53 PM | Precedes #5730                                     |
| 5726 | OsmoMGW |          | Bug     | New         | Normal   | AMR octet-align in SDP: lack of 'octet-align' fmtp should imply octet-align=0, and the presence or absence of this fmtp should not have an effect |           | 12/12/2023 01:51 AM | Is duplicate of #5726                              |
| 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 |                                                    |
| 5044 | OsmoMGW |          | Bug     | New         | Low      | potential null pointer dereferences                                                                                                               | pespin    | 02/24/2021 11:48 AM |                                                    |
| 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 |                                                    |
| 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 |                                                    |
| 4535 | OsmoMGW |          | Feature | In Progress | Low      | Develop "E1/Abis generator"                                                                                                                       | laforge   | 01/02/2022 01:57 PM | Precedes #2547                                     |
| 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 |                                                    |
| 4150 | OsmoMGW |          | Feature | New         | Low      | dead code / If an MDCX omits SDP, all codec config might be cleared                                                                               |           | 08/13/2019 11:01 PM |                                                    |
| 4092 | OsmoMGW |          | Feature | New         | Normal   | Osmux: Support dynamic allocation of osmux sockets                                                                                                | pespin    | 08/10/2022 07:50 AM | Related to #4092                                   |

| #                     | Project    | Category     | Tracker | Status   | Priority | Subject                                                                                                                                          | Assignee | Updated             | Related issues   |
|-----------------------|------------|--------------|---------|----------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------------------|------------------|
| 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 |                  |
| 3822                  | OsmoMGW    |              | Bug     | New      | Low      | conn mode "sendonly" behaves identically to "sendrecv"                                                                                           |          | 03/04/2019 09:34 PM |                  |
| 3731                  | OsmoMGW    |              | Bug     | New      | Normal   | TTCN3 TC_rtpem_selftest randomly fails                                                                                                           |          | 01/08/2020 10:18 PM |                  |
| 3443                  | OsmoMGW    |              | Bug     | New      | Low      | Check audio-payload options in osmo-mgw VTY                                                                                                      |          | 03/15/2020 08:43 AM |                  |
| 3442                  | OsmoMGW    |              | Bug     | New      | Normal   | fix int mgcp_codec_decide() in mgcp_codec.c                                                                                                      |          | 09/04/2019 09:26 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 |                  |
| 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 |
| 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 |                  |
| 2523                  | OsmoMGW    |              | Feature | New      | Normal   | transcoding: remove "not yet implemented" from MNCC manual once transcoding is in place                                                          | daniel   | 03/16/2018 07:54 PM |                  |
| 2411                  | OsmoMGW    |              | Feature | New      | Low      | No support for RTP dynamic payload types - AMR/HR/EFR payload types are hardcoded                                                                |          | 03/05/2018 07:04 PM |                  |
| 4005                  | OsmoMGW    | libosmo-mgcp | 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 |
| <b>OsmoHNodeB (1)</b> |            |              |         |          |          |                                                                                                                                                  |          |                     |                  |
| 6153                  | OsmoHNodeB |              | Support | Feedback | Normal   | List of supported FemtoCell                                                                                                                      | Kira     | 08/28/2023 02:24 PM |                  |
| <b>OsmoHNBGW (36)</b> |            |              |         |          |          |                                                                                                                                                  |          |                     |                  |
| 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 |                  |

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