

## Issues

| #    | Project                               | Tracker | Status      | Priority | Subject   | Assignee | Updated             | Related issues   |
|------|---------------------------------------|---------|-------------|----------|---|----------|---------------------|--|
| 2764 | SDR (Software Defined Radio)          | Support | New         | Normal   | osmocom_fft & siggen can't access the X display   |          | 12/15/2017 06:09 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 |  |
| 1983 | rtl-sdr                               | Support | New         | Normal   | Add welle.io and rtl_fm_streamer to rtl-sdr app list  |          | 06/03/2018 12:24 PM |  |
| 6193 | Retronetworking                       | Support | New         | Low      | Replace "event rack" PM3 power supply   | laforge  | 09/27/2023 12:19 PM |  |
| 4206 | Qualcomm Linux Modems by Quectel & Co | Support | New         | Urgent   | Unbrick cpe router without web ui interface and terminal  |          | 02/22/2021 02:01 PM |  |
| 4135 | Qualcomm Linux Modems by Quectel & Co | Support | New         | Normal   | how to use network inside ec20  |          | 07/31/2019 11:20 AM |  |
| 4365 | OsmoTRX                               | Support | Stalled     | Normal   | Create testsuite to test osmo-bts-trx+osmo-trx under high channel load  | dexter   | 09/03/2020 10:33 AM | Related to #4366   |
| 3920 | OsmoSGSN                              | Support | In Progress | Normal   | PCAPs files of 3G PS for Osmocom network and Commercial one   |          | 04/18/2019 02:03 PM | Related to #3920,Related to #3936,Related to #3923,Related to #3937,Related to #3922 |
| 4612 | OsmoMSC                               | Support | New         | Normal   | test handover on non-voice call conn (no CC transaction present)  |          | 06/14/2020 12:21 PM |  |
| 6153 | OsmoHNodeB                            | Support | Feedback    | Normal   | List of supported FemtoCell   | Kira     | 08/28/2023 02:24 PM |  |
| 2504 | OsmoGSMTester                         | Support | New         | Normal   | check whether running osmo-* from docker images is feasible on osmo-gsm-tester                                      |          | 04/06/2020 11:28 AM |  |
| 3931 | OsmoGSMTester                         | Support | New         | Normal   | Contact quectel to get info about modem updates (hopefully less crashes)  |          | 01/08/2020 10:56 PM | Related to #3931   |
| 2497 | OsmoGSMTester                         | Support | Stalled     | Normal   | Set up SIM cards with auth algo other than comp128v1  | daniel   | 10/15/2019 11:44 AM | Related to #2475   |
| 4581 | OsmocomBB                             | Support | New         | Normal   | compiler error assert.h no such file  |          | 06/05/2020 09:54 AM |  |
| 4471 | OsmocomBB                             | Support | New         | Normal   | Received FTMTTOOL from phone, ramloader has aborted   |          | 03/29/2020 11:18 AM |  |
| 1627 | OsmocomBB                             | Support | Stalled     | Low      | DCS_8BIT and DCS_UCS2 encoding supprot  |          | 07/16/2018 06:53 PM |  |
| 3863 | OsmoBTS                               | Support | Stalled     | Normal   | setup testing of osmo-bts-oc2g on real hardware with ttcn3 and osmocon/osmocom-bb                                   |          | 12/01/2019 10:52 AM |  |
| 3751 | OsmoBTS                               | Support | New         | Normal   | Ensure BTS Tests.ttcn results of OC-2G resemble what we know/expect from osmo-bts-{sysmo,trx}                       |          | 12/01/2019 10:52 AM |  |
| 4621 | OsmoBSC                               | Support | New         | Normal   | feedback: osmo-bsc modifies the LAI in LU Accept messages, and the MM info data                                     | neels    | 02/06/2021 09:50 AM |  |

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| 2622 | OsmoBSC                                      | Support | Stalled  | High     | Prepare automatic interop testing of OsmoBSC against NG40 core simulator + osmo-bts-virtual + mobile |           | 09/04/2019 09:18 AM | Related to #2478,Related to #2558,Related to #2555 |
| 4593 | OP25   | Support | New      | Normal   | Link to samples on the wiki is dead  | matt      | 06/07/2020 06:53 PM |  |
| 4225 | OP25   | Support | New      | Normal   | Missing rules in cmake lists?  | 2CS350    | 10/12/2019 02:49 PM |  |
| 2677 | libosmocore                                  | Support | New      | Normal   | Make stat_item available over ctrl interface   |           | 09/04/2019 09:21 AM | Related to #2676                                   |
| 3819 | gr-osmosdr                                   | Support | New      | Urgent   | OSMO SDR blocks for GNUradio   |           | 02/28/2019 06:00 PM |  |
| 3512 | gr-osmosdr                                   | Support | New      | Normal   | Bug #3462 on Arch Linux; gr-osmosdr install fails  | horiz0n   | 01/26/2019 06:10 PM |  |
| 4534 | Ericsson RBS 6xxx                            | Support | Stalled  | Normal   | Take pictures of RBS6k gear for documentation  | roh       | 05/20/2020 03:19 PM |  |
| 6434 | E1/T1 Hardware Interface (including icE1usb) | Support | New      | Normal   | D-channel do not recover after underrun  |           | 04/07/2024 09:07 AM |  |
| 6412 | E1/T1 Hardware Interface (including icE1usb) | Support | New      | Normal   | No alignment   | tnt       | 03/27/2024 01:46 PM |  |
| 6416 | E1/T1 Hardware Interface (including icE1usb) | Support | Feedback | Normal   | Serial debug tty port speed  | pfassberg | 03/22/2024 06:52 PM |  |
| 4737 | Distributed GSM                              | Support | New      | Low      | How to configure Queries gsup.hlr.123456789.imsi, sip.voice.123.msisdn, smpp.sms.123.msisdn          |           | 08/31/2020 11:10 AM |  |
| 4308 | Distributed GSM                              | Support | New      | High     | thoughts about incorporating credit / billing in D-GSM   |           | 12/04/2019 04:08 PM |  |
| 4333 | Cellular Network Infrastructure              | Support | Feedback | Normal   | GSUP binary compatibility: add GSUP protocol version IE?   |           | 12/16/2019 01:56 PM | Related to #4333,Related to #4333,Related to #4333 |
| 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 |  |
| 2806 | UUCP and UseNet                              | Feature | New      | Low      | Create Dockerfile and/or ansible playbook for UseNet node  |           | 01/01/2018 01:04 PM |  |
| 3747 | UmTRX  | Feature | New      | Normal   | LMS6002D RX Gain Control   | ipse      | 01/08/2019 09:46 AM |  |
| 1510 | UmTRX  | Feature | New      | High     | Complete UHD integration   | ipse      | 02/21/2016 04:47 PM |  |
| 1509 | UmTRX  | Feature | New      | Normal   | Store calibration values in EEPROM   | ipse      | 02/21/2016 04:47 PM |  |
| 1508 | UmTRX  | Feature | New      | High     | Implement UmSEL diversity switch control   | ipse      | 02/21/2016 04:47 PM |  |
| 1507 | UmTRX  | Feature | New      | High     | Implement UmSEL tuner control  | ipse      | 02/21/2016 04:47 PM |  |
| 1506 | UmTRX  | Feature | New      | Normal   | Move to the latest stable UHD  | ipse      | 02/21/2016 04:47 PM |  |
| 1518 | UmTRX  | Feature | New      | Normal   | Upper limit of the clock is too low  |           | 02/19/2016 10:52 PM |  |
| 1517 | UmTRX  | Feature | New      | Normal   | U_FL (UMC) connectors are not reliable after few connections   |           | 02/19/2016 10:52 PM |  |
| 1516 | UmTRX  | Feature | New      | Normal   | There are no port to control external equipment like PA  |           | 02/19/2016 10:52 PM |  |

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|------|------------------------------|---------|-------------|----------|--|---------------|---------------------|---|
| 1515 | UmTRX                        | Feature | New         | Normal   | Heat dissipation and mounting issue  |               | 02/19/2016 10:52 PM |   |
| 1511 | UmTRX                        | Feature | New         | Normal   | Solve Tx and Rx I/Q imbalance for wideband signals                             |               | 02/19/2016 10:52 PM |   |
| 1504 | UmTRX                        | Feature | New         | Normal   | LMS6002 phase error increases when Rx is enabled and varies with temperature   | ttsou         | 02/19/2016 10:52 PM |   |
| 3711 | SIMtrace 2                   | Feature | New         | Normal   | Add screw holes for permanent installations                                    | mschramm      | 11/01/2023 08:28 PM |   |
| 1706 | SIMtrace 2                   | Feature | In Progress | Low      | Hardware / Circuit board update for SAM3S based SIMtrace2 with 1.8V/5V support | mschramm      | 10/28/2023 11:25 AM | Related to #1706,Related to #5464,Related to #4118,Related to #5826 |
| 5805 | SIMtrace 2                   | Feature | New         | Normal   | SIM Trace 2 Build for Windows  | jelson_simEng | 04/02/2023 09:56 AM |   |
| 5826 | SIMtrace 2                   | Feature | Stalled     | Normal   | SAM4S4BA support in firmware   | laforge       | 01/31/2023 08:06 PM | Related to #5826  |
| 5600 | SIMtrace 2                   | Feature | Feedback    | Normal   | SIMtrace2 fails to emulate EMV cards   | boggy123      | 12/14/2022 01:07 PM |   |
| 5276 | SIMtrace 2                   | Feature | Stalled     | Normal   | jenkins CI integration like for osmo-ccid-firmware                             | roh           | 11/14/2022 05:24 PM | Related to #5422  |
| 5422 | SIMtrace 2                   | Feature | In Progress | Normal   | "cardem" continuous testing setup  | laforge       | 01/27/2022 12:22 PM | Related to #5422  |
| 1912 | SIMtrace 2                   | Feature | Stalled     | Low      | do proper re-layout of the board   | mschramm      | 10/20/2020 08:39 AM | Related to #4118  |
| 1460 | SIMtrace 2                   | Feature | New         | Normal   | include some version information / negotiation in the USB protocol             | laforge       | 12/06/2019 01:39 PM | Related to #1461,Related to #4041                                   |
| 1457 | SIMtrace 2                   | Feature | New         | Low      | Spacing between JTAG and JP1/JP2   | mschramm      | 09/13/2018 07:07 PM |   |
| 1911 | SIMtrace 2                   | Feature | New         | Normal   | check if we can have an enclosed version of simtrace v2                        | tsaitgaist    | 09/13/2018 12:40 PM |   |
| 3501 | SIMtrace 2                   | Feature | New         | Low      | Multi-sim addon board idea   |               | 08/28/2018 03:00 PM |   |
| 1463 | SIMtrace 2                   | Feature | New         | Low      | Add VCC current sensing circuit for SPA & DPA attacks                          | laforge       | 08/27/2018 07:05 AM | Related to #1706  |
| 3371 | SIMtrace 2                   | Feature | New         | Normal   | migrate to use arm-none-eabi build of libosmocore.git                          | laforge       | 08/09/2018 12:14 PM |   |
| 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 |   |
| 4580 | SDR (Software Defined Radio) | Feature | New         | Normal   | gr-osmosdr compilation under GnuRadio 3.9.0                                    |               | 06/04/2020 01:13 AM |   |
| 2224 | SDR (Software Defined Radio) | Feature | New         | Normal   | New Fospor Benchmark Performance   |               | 05/04/2017 01:23 PM |   |
| 5291 | rtl-sdr                      | Feature | New         | Normal   | Ship the udev rules upstream   | steve-m       | 11/05/2021 11:04 AM |   |
| 3315 | rtl-sdr                      | Feature | New         | Normal   | review and possibly apply patches from debian package                          | steve-m       | 06/03/2018 01:17 PM |   |
| 5768 | Retronetworking              | Feature | New         | Normal   | retronetworking logo / artwork   |               | 04/07/2024 10:40 PM |   |
| 6244 | Retronetworking              | Feature | New         | Low      | scan more/all EWS(O) documentation laforge has                                 | laforge       | 11/01/2023 09:50 PM |   |
| 6237 | Retronetworking              | Feature | New         | Low      | Design + Build PCBA for NE555 based fake fan rpm sensor                        | laforge       | 10/30/2023 01:38 AM |   |
| 6224 | Retronetworking              | Feature | Feedback    | Normal   | how to document the rescued EWSD   |               | 10/18/2023 04:51 PM |   |

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| 6218 | Retronetworking                       | Feature | New         | Normal   | write article/report on EWSD rescue for IGHT / Fernmeldemuseum Dresden            | laforge  | 10/17/2023 02:11 PM |                  |
| 6219 | Retronetworking                       | Feature | New         | Normal   | Publish pics/videos for EWSD rescue/move  | laforge  | 10/17/2023 02:10 PM |                  |
| 6195 | Retronetworking                       | Feature | New         | Low      | Wiki page on Cisco *WIC-* line cards for 26xx/28xx series                         | laforge  | 10/08/2023 07:33 AM |                  |
| 6194 | Retronetworking                       | Feature | New         | Low      | wiki page on MultiTech MT5600-BL  | laforge  | 09/27/2023 12:46 PM |                  |
| 5543 | Retronetworking                       | Feature | New         | Normal   | Contact manufacturers for leftover stock  |          | 06/27/2023 09:05 PM |                  |
| 5463 | Retronetworking                       | Feature | In Progress | Low      | X.21 hardware interface   | vogelchr | 03/04/2023 02:37 PM |                  |
| 5855 | Retronetworking                       | Feature | New         | Normal   | Establishing a German non-profit for retronetworking                              | laforge  | 01/13/2023 11:59 AM |                  |
| 5746 | Retronetworking                       | Feature | New         | Low      | Create H.221 decoder  |          | 11/07/2022 10:55 PM |                  |
| 5488 | Retronetworking                       | Feature | In Progress | Low      | create DAHDI mirror sniffer   | laforge  | 11/07/2022 06:04 PM |                  |
| 5511 | Retronetworking                       | Feature | New         | Low      | Idea: DAHDI backend for mISDN   |          | 09/18/2022 03:59 PM |                  |
| 5545 | Retronetworking                       | Feature | New         | Low      | E1 support for dynamips   |          | 04/24/2022 09:56 AM |                  |
| 4226 | Retronetworking                       | Feature | New         | Low      | STM-1 / USB interface?  |          | 01/30/2022 10:14 AM |                  |
| 5938 | Retrocomputing                        | Feature | In Progress | Normal   | assemble "fake parallel printer"  | laforge  | 09/13/2023 09:32 AM |                  |
| 5933 | Retrocomputing                        | Feature | In Progress | Low      | Assemble XT-CF-Lite v4.1  | laforge  | 03/20/2023 09:54 AM |                  |
| 5947 | Retrocomputing                        | Feature | New         | Low      | Assemble PC104-SVGA   | laforge  | 03/15/2023 09:29 AM |                  |
| 5940 | Retrocomputing                        | Feature | New         | Low      | Assemble LPT_Capture  | laforge  | 03/15/2023 09:06 AM |                  |
| 5934 | Retrocomputing                        | Feature | In Progress | Low      | Assemble Pico-GUS   | laforge  | 03/06/2023 04:25 PM |                  |
| 5932 | Retrocomputing                        | Feature | New         | Low      | assemble ISA-USB  | laforge  | 03/02/2023 09:25 PM |                  |
| 5936 | Retrocomputing                        | Feature | New         | Low      | Assemble netpi-ide  | laforge  | 03/02/2023 09:25 PM |                  |
| 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 |                  |
| 6367 | pySim                                 | Feature | New         | Normal   | PC/SC <-> Android OMAPI bridge for pySim and others                               |          | 02/17/2024 01:34 PM |                  |
| 6316 | pySim                                 | Feature | New         | Normal   | include test data in user manual  |          | 12/23/2023 03:10 PM |                  |
| 6315 | pySim                                 | Feature | New         | Low      | have test data for all supported files  |          | 12/23/2023 09:36 AM |                  |
| 6211 | pySim                                 | Feature | In Progress | Low      | decode security attributes _compact_ in human-readable way, like we decode EF.ARR | dexter   | 12/15/2023 07:22 AM | Related to #6211 |
| 6265 | pySim                                 | Feature | New         | Normal   | decode numeric SW in case of errors   | dexter   | 12/11/2023 01:01 PM |                  |
| 6089 | pySim                                 | Feature | Feedback    | Normal   | log the current file / operation during execeution of a script                    | laforge  | 11/27/2023 04:37 PM |                  |
| 6092 | pySim                                 | Feature | New         | Low      | "export" suport for ARA-M   | dexter   | 10/31/2023 06:40 PM |                  |
| 6104 | pySim                                 | Feature | New         | Low      | reduce number of python dependencies  |          | 07/20/2023 04:28 PM |                  |

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|------|---------|---------|-------------|----------|---|-----------|---------------------|--|
| 6086 | pySim   | Feature | New         | Low      | implement features of sysmo-{usim, isim}-tool                         | laforge   | 07/13/2023 04:09 AM |  |
| 5235 | pySim   | Feature | New         | Low      | import / export as eUICC profile package ASN.1                        |           | 06/09/2023 04:55 PM |  |
| 4384 | pySim   | Feature | Stalled     | Normal   | Jenkins program-read verification on daily (or weekly) basis          | dexter    | 03/27/2023 04:13 PM | Related to #4384   |
| 5976 | pySim   | Feature | New         | Low      | pySim-prog: do not program linked files multiple times                | dexter    | 03/27/2023 04:05 PM |  |
| 5127 | pySim   | Feature | New         | Normal   | tool for "re-formatting" [sysmocm] cards in tester                    | laforge   | 10/14/2021 07:16 PM | Related to #5127   |
| 5267 | pySim   | Feature | New         | Normal   | pySim-shell: Ability to deactivate entire applications on the card    |           | 10/14/2021 07:12 PM | Related to #5268   |
| 5268 | pySim   | Feature | New         | Normal   | pySim-shell: GlobalPlatform SCP02 support                             | laforge   | 10/14/2021 07:12 PM | Related to #5268   |
| 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 |  |
| 6231 | OsmoTRX | Feature | New         | Normal   | add support / calibration values for AntSDR E200                      | roh       | 10/21/2023 03:25 PM |  |
| 5516 | OsmoTRX | Feature | In Progress | High     | BladeRF 2.0 Support   | Hoernchen | 02/14/2023 02:59 PM | Is duplicate of #2430  |
| 2430 | OsmoTRX | Feature | New         | Low      | osmo-trx support bladerf  |           | 02/14/2023 01:39 PM | Is duplicate of #2430, Is duplicate of #2430                           |
| 5859 | OsmoTRX | Feature | New         | Normal   | remove non-neon and non-sse support                                   | Hoernchen | 01/16/2023 10:17 PM |  |
| 5228 | OsmoTRX | Feature | New         | Low      | osmo-trx: Missing unit tests for computeCI() and computeEdgeCI()      | Hoernchen | 11/07/2022 06:23 PM |  |
| 5283 | OsmoTRX | Feature | New         | Normal   | Implement TRXDv2 support  | fixeria   | 10/27/2021 10:35 PM | Related to #5283   |
| 4362 | OsmoTRX | Feature | Stalled     | Normal   | osmo-trx-lms: Support multi-arfcn feature                             |           | 09/30/2020 08:09 PM | Related to #4362, Related to #4362                                     |
| 4504 | OsmoTRX | Feature | New         | Low      | Buidl LimeSuite without GUI in osmocm feeds                           |           | 09/30/2020 08:08 PM |  |
| 3962 | OsmoTRX | Feature | New         | Low      | osmo-trx: Use gcc attribute no_sanitize to run fine with ASan enabled |           | 08/26/2019 02:04 PM |  |
| 3054 | OsmoTRX | Feature | Stalled     | Normal   | Extended (11-bit) RACH support in OsmoTRX                             | tnt       | 02/03/2019 11:45 AM | Related to #1854, Related to #3054, Related to #3054, Related to #4006 |
| 3344 | OsmoTRX | Feature | New         | Normal   | merge ttsou/siggen  |           | 06/13/2018 07:26 PM |  |
| 3345 | OsmoTRX | Feature | New         | Low      | merge ms branch   |           | 06/13/2018 07:16 PM |  |
| 3033 | OsmoTRX | Feature | New         | Low      | Split wiki page into multiple smaller pages                           |           | 03/05/2018 11:28 AM |  |
| 4275 | OsmoSTP | Feature | New         | Low      | Add TTCN3 STP_Tests_IPA.TC_tmt_broadcast                              | pespin    | 12/01/2019 11:04 AM |  |

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|------|----------|---------|---------|----------|--|----------|---------------------|---|
| 3605 | OsmoSTP  | Feature | New     | Normal   | Global Title Translation   |          | 07/18/2019 05:15 AM |   |
| 3604 | OsmoSTP  | Feature | New     | Normal   | Global Title Routing   |          | 07/18/2019 05:15 AM |   |
| 3603 | OsmoSTP  | Feature | New     | Low      | M2PA support   |          | 10/03/2018 08:58 AM | Related to #3603  |
| 3606 | OsmoSTP  | Feature | New     | Normal   | Support for multiple NI (network indicator)  |          | 10/03/2018 08:58 AM |   |
| 3607 | OsmoSTP  | Feature | New     | Normal   | Support for capability point codes   |          | 10/03/2018 08:58 AM |   |
| 3609 | OsmoSTP  | Feature | New     | Low      | Support for C-Link   |          | 10/03/2018 08:58 AM |   |
| 3602 | OsmoSTP  | Feature | New     | Low      | M2UA support   |          | 09/30/2018 08:00 AM |   |
| 1689 | OsmoSMSC | Feature | New     | Normal   | insert: Change destination number based on criteria similiar to route handling on output       | zecke    | 04/06/2016 12:18 PM |   |
| 1623 | OsmoSMSC | Feature | New     | Normal   | Configure delivery report for the SMPP delivery links  | zecke    | 02/24/2016 01:49 PM |   |
| 6294 | OsmoSGSN | Feature | New     | High     | Support GN/Gp interoperation procedures between SGSN and MME                                   | daniel   | 04/22/2024 06:04 PM | Related to #6294,Related to #6439                       |
| 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 |   |
| 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  |
| 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 |
| 5853 | OsmoSGSN | Feature | New     | Normal   | osmo-sgsn: Rework to use libosmo-gprs  |          | 01/11/2023 03:14 PM |   |
| 5487 | OsmoSGSN | Feature | New     | Low      | get rid of osmo- <a href="#">iu</a> .git's <code>iu_client</code> API and absorb into OsmoSGSN |          | 03/10/2022 06:05 PM |   |
| 1583 | OsmoSGSN | Feature | New     | Normal   | Gs interface (BSSMAP+) between SGSN and MSC/VLR  |          | 06/13/2020 05:52 PM | Related to #1583,Related to #1583,Related to #4485      |
| 1655 | OsmoSGSN | Feature | Stalled | Normal   | KPIs for OsmoSGSN  |          | 01/08/2020 10:49 PM | Related to #1652,Related to #1655,Related to #1655      |
| 3688 | OsmoSGSN | Feature | New     | Low      | move generic gtpub code to libosmocore   |          | 04/15/2019 07:29 AM |   |
| 1587 | OsmoSGSN | Feature | Stalled | Normal   | SMS over GPRS support  |          | 11/25/2018 08:14 PM | Related to #3587  |
| 33   | OsmoSGSN | Feature | New     | Low      | real LLC implementation with fragmentation and re-transmissions                                |          | 11/09/2016 09:45 AM |   |
| 1588 | OsmoSGSN | Feature | New     | Normal   | Inter-RAT hand-over  |          | 02/23/2016 03:46 PM |   |
| 1586 | OsmoSGSN | Feature | New     | Normal   | Implement QoS profile support  |          | 02/23/2016 03:45 PM |   |
| 5047 | OsmoSDR  | Feature | New     | Normal   | Inconsistencies between SDR's in bias-tee parameter  |          | 12/19/2021 01:17 PM |   |
| 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 <code>msg_id</code> .                     | dexter   | 10/24/2023 03:15 PM |   |

| #    | Project | Tracker | Status  | Priority | Subject   | Assignee | Updated             | Related issues   |
|------|---------|---------|---------|----------|---|----------|---------------------|--|
| 5930 | OsmoPCU | Feature | New     | Low      | handle multiple BTSs with one PCU   |          | 03/03/2023 10:47 AM |  |
| 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 |  |
| 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   |
| 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 |
| 1558 | OsmoPCU | Feature | New     | Low      | Generate BSSGP LLC Discarded messages on TBF/MS free                          | osmith   | 02/13/2021 05:44 PM | Related to #4847   |
| 1527 | OsmoPCU | Feature | New     | Low      | Set correct values of the puncturing scheme and the retransmission flag       | pespin   | 02/08/2021 07:10 PM |  |
| 3285 | OsmoPCU | Feature | New     | Normal   | design + implement tools to analyze inter-PCU cell changes                    | daniel   | 02/06/2021 11:12 AM | Related to #3284   |
| 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 |  |
| 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  |
| 4846 | OsmoPCU | Feature | New     | Normal   | change RBB received block bitmap into 1s when everything was acked            |          | 11/04/2020 02:29 AM |  |
| 4813 | OsmoPCU | Feature | New     | Low      | FANR (Fast ACK/NACK Reporting) support  |          | 10/16/2020 08:46 AM |  |
| 4812 | OsmoPCU | Feature | New     | Low      | RTTI (Reduced Transmission Time Interval) Support                             |          | 10/16/2020 08:43 AM |  |
| 1546 | OsmoPCU | Feature | New     | Low      | closed loop uplink power control  |          | 09/30/2020 08:05 PM |  |
| 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                      |
| 1903 | OsmoPCU | Feature | New     | Low      | convert c++ -> c  |          | 03/23/2020 10:48 PM |  |
| 1530 | OsmoPCU | Feature | New     | Low      | Assign same TFI number in downlink/uplink                                     |          | 01/26/2020 08:50 AM |  |
| 1555 | OsmoPCU | Feature | New     | Low      | Add support for unacknowledged RLC Mode                                       |          | 01/22/2020 02:59 PM |  |
| 1543 | OsmoPCU | Feature | New     | Normal   | link/rate adaption as per spec  |          | 01/08/2020 10:43 PM | Related to #1543,Related to #1543  |
| 1560 | OsmoPCU | Feature | New     | High     | EDGE benchmarking / performance optimization / tuning                         |          | 01/08/2020 10:31 PM |  |
| 1823 | OsmoPCU | Feature | Stalled | Low      | Ericsson PCU TRAU frame encoding/decoding                                     |          | 09/04/2019 09:26 AM | Related to #5198   |

| #    | Project  | Tracker | Status      | Priority | Subject  | Assignee | Updated             | Related issues   |
|------|----------|---------|-------------|----------|--|----------|---------------------|--|
| 1537 | OsmoPCU  | Feature | New         | Low      | Move the BSSGP handling to libosmocore   |          | 03/01/2018 11:17 PM | Related to #1537,Related to #2388  |
| 2405 | OsmoPCU  | Feature | New         | Low      | RLC/MAC encoding routines don't use bitvec L/H                                       |          | 07/29/2017 09:01 AM |  |
| 1533 | OsmoPCU  | Feature | Feedback    | Low      | Separate the window handling from the TBF more clearly                               | zecke    | 07/21/2017 02:46 PM | Related to #1533   |
| 1549 | OsmoPCU  | Feature | New         | Normal   | DRX support for GPRS   |          | 02/04/2017 08:11 AM | Related to #1942   |
| 1554 | OsmoPCU  | Feature | New         | Normal   | per-MS BSSGP flow control  |          | 02/23/2016 03:12 PM | Related to #1554   |
| 1547 | OsmoPCU  | Feature | New         | Normal   | downlink power control on PDTCH  |          | 02/23/2016 03:04 PM |  |
| 1812 | OsmoNITB | Feature | New         | Normal   | Report gsm0408_dispatch() failures to MS / UE  |          | 01/08/2020 10:56 PM |  |
| 1667 | OsmoNITB | Feature | New         | Normal   | Handle callref better  |          | 09/04/2019 09:31 AM | Related to #3294   |
| 18   | OsmoNITB | Feature | New         | Low      | store last location identity to database   |          | 05/24/2018 01:15 PM |  |
| 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   |
| 6151 | OsmoMSC  | Feature | Feedback    | Normal   | osmo-msc: Ability to configure (VTY) the AMR(-WB) formats used in RAB-Assignment-Req | neels    | 08/30/2023 08:16 PM |  |
| 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 |  |
| 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 |
| 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   |
| 1974 | OsmoMSC  | Feature | New         | Low      | VLR: high water mark on subscriber storage   |          | 05/15/2022 01:45 PM | Related to #1973   |
| 5403 | OsmoMSC  | Feature | New         | Normal   | Can't connect Call from 2G to 4G network   | laforge  | 01/14/2022 10:41 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  |
| 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  |
| 4717 | OsmoMSC  | Feature | New         | Normal   | support Handover with changing codec   |          | 08/18/2020 05:14 PM | Related to #4717   |
| 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 |  |



| #    | Project | Tracker | Status      | Priority | Subject   | Assignee | Updated             | Related issues  |
|------|---------|---------|-------------|----------|---|----------|---------------------|---|
| 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  |
| 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 |
| 4374 | OsmoMSC | Feature | New         | Normal   | send GSUP PurgeMS Request (CN-Domain = CS) to the HLR upon IMSI-Detach                        |          | 01/23/2020 03:19 AM |   |
| 4336 | OsmoMSC | Feature | New         | Normal   | Convert vlr_lu_fsm.c to use osmo_tdef (and drop vlr_timer())                                  |          | 01/02/2020 05:32 PM | Related to #4337  |
| 4196 | OsmoMSC | Feature | New         | Normal   | CC Setup, Call Confirmed: decode and use the Supported Codec List IE                          |          | 09/25/2019 05:27 PM |   |
| 4200 | OsmoMSC | Feature | In Progress | Normal   | Work around nano3G-S16 requiring RAB ID to be below 16  | efistokl | 09/14/2019 09:48 AM |   |
| 3620 | OsmoMSC | Feature | Stalled     | Normal   | Implement TTCN-3 testsuite for Inter-MSC HO   | neels    | 09/04/2019 09:08 AM |   |
| 25   | OsmoMSC | Feature | New         | Low      | Call HOLD / RETRIEVE support for internal MNCC  |          | 08/01/2019 03:06 PM |   |
| 1973 | OsmoMSC | Feature | New         | Low      | VLR: efficient subscriber lookup  |          | 07/18/2019 06:15 AM | Related to #1973  |
| 1603 | OsmoMSC | Feature | New         | Low      | Interfacing the MSC with other networks: Roaming interfaces / MAP                             |          | 07/18/2019 06:13 AM |   |
| 3165 | OsmoMSC | Feature | New         | Low      | Verify LU Request's LAI   | osmith   | 07/18/2019 05:48 AM | Related to #3164  |
| 4065 | OsmoMSC | Feature | New         | Normal   | osmo-msc: Support instructing MSC_MGW to use Osmux between 2 endp/call-leg of same voice call | pespin   | 06/19/2019 04:54 PM | Related to #4065  |
| 3988 | OsmoMSC | Feature | New         | Low      | change the remaining DEBUGP() statements to LOG_MSC_A() / LOG_MSC_A_CAT()                     |          | 05/08/2019 03:26 PM |   |
| 3755 | OsmoMSC | Feature | New         | Low      | make retrieval of IMEISV configurable   |          | 05/07/2019 12:28 PM | Related to #3755  |
| 3738 | OsmoMSC | Feature | New         | Normal   | Clarify PS-part of struct vlr_subscr  |          | 12/19/2018 12:34 PM |   |
| 3445 | OsmoMSC | Feature | Stalled     | Normal   | SS/USSD: clean up the local GSM 04.80 API   |          | 12/14/2018 01:57 PM |   |
| 1597 | OsmoMSC | Feature | Stalled     | Low      | External interface for USSD   | fixeria  | 11/27/2018 11:08 PM | Related to #1597,Related to #3433                                   |
| 3687 | OsmoMSC | Feature | New         | Normal   | Expand "show bsc" command   |          | 11/11/2018 09:50 PM |   |
| 3636 | OsmoMSC | Feature | New         | Normal   | detailed call statistics (with rate counters)   | osmith   | 10/08/2018 11:14 AM | Related to #3636  |
| 2391 | OsmoMSC | Feature | New         | Low      | add osmocom specific TLVs to A-interface for BTS/TS and subscriber details                    |          | 10/02/2018 03:40 PM |   |
| 3470 | OsmoMSC | Feature | New         | Low      | Allow sending "Emergency Number List IE" in LU ACCEPT   |          | 09/01/2018 08:18 PM | Related to #3470  |
| 3469 | OsmoMSC | Feature | New         | Low      | Support for "service category" in emergency calls   |          | 08/24/2018 12:48 PM | Related to #3470  |
| 2795 | OsmoMSC | Feature | New         | Normal   | Handle UTRAN_CLSM_CHG in MSC  | neels    | 04/30/2018 12:06 PM | Related to #3043  |
| 2878 | OsmoMSC | Feature | New         | Low      | OsmoMSC support for "Follow-on request/proceed"   |          | 01/26/2018 09:11 PM |   |

| #    | Project   | Tracker | Status      | Priority | Subject  | Assignee  | Updated             | Related issues                                     |
|------|-----------|---------|-------------|----------|--|-----------|---------------------|--|
| 2832 | OsmoMSC   | Feature | New         | Low      | MNCC doesn't include field for "supported codecs"  |           | 01/16/2018 07:00 AM | Related to #2832,Related to #1683                  |
| 2788 | OsmoMSC   | Feature | New         | Normal   | OsmoMSC should handle CM Service Abort message   | neels     | 01/04/2018 10:37 AM |  |
| 2191 | OsmoMSC   | Feature | New         | Normal   | raw PDU mode for SMPP  |           | 12/23/2017 05:48 PM |  |
| 2390 | OsmoMSC   | Feature | New         | Normal   | re-add osmocom specific TLVs to SMPP messages  |           | 12/23/2017 05:48 PM |  |
| 6387 | OsmoMGW   | Feature | In Progress | Normal   | osmo_io / io_uring support for RTP/RTCP  | laforge   | 03/26/2024 06:45 PM | Related to #6387                                   |
| 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     |
| 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                                   |
| 5730 | OsmoMGW   | Feature | New         | Low      | Fax over GSM support   | manawyrm  | 10/16/2023 08:53 PM | Precedes #5730                                     |
| 4092 | OsmoMGW   | Feature | New         | Normal   | Osmux: Support dynamic allocation of osmux sockets   | pespin    | 08/10/2022 07:50 AM | Related to #4092                                   |
| 5468 | OsmoMGW   | Feature | New         | Normal   | osmo-mgw: 2g<->3g call support   |           | 06/03/2022 10:39 AM | Related to #5468,Related to #5468,Related to #5468 |
| 4535 | OsmoMGW   | Feature | In Progress | Low      | Develop "E1/Abis generator"  | laforge   | 01/02/2022 01:57 PM | Precedes #2547                                     |
| 5279 | OsmoMGW   | Feature | New         | Normal   | systemd service / unit for multiple osmo-mgw on one machine                                      | osmith    | 10/25/2021 11:41 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                  |
| 5214 | OsmoMGW   | Feature | In Progress | Normal   | osmo-mgw multithreading  | Hoernchen | 08/31/2021 09:20 AM |  |
| 4551 | OsmoMGW   | Feature | New         | Normal   | Dynamic/runtime allocation of new endpoints  |           | 05/14/2020 10:56 PM |  |
| 3352 | OsmoMGW   | Feature | Feedback    | Low      | osmo-mgw does not allow multiple codecs in LCO   | neels     | 01/08/2020 10:25 PM |  |
| 2580 | OsmoMGW   | Feature | New         | Low      | implement timeout/resend mechanism for mgcp_client   |           | 09/04/2019 09:26 AM |  |
| 4150 | OsmoMGW   | Feature | New         | Low      | dead code / If an MDCX omits SDP, all codec config might be cleared                              |           | 08/13/2019 11:01 PM |  |
| 3207 | OsmoMGW   | Feature | New         | Low      | Support for RTP Payload Format according to "ETSI TS 101 318"                                    |           | 04/24/2018 03:53 PM |  |
| 2523 | OsmoMGW   | Feature | New         | Normal   | transcoding: remove "not yet implemented" from MNCC manual once transcoding is in place          | daniel    | 03/16/2018 07:54 PM |  |
| 2411 | OsmoMGW   | Feature | New         | Low      | No support for RTP dynamic payload types - AMR/HR/EFR payload types are hardcoded                |           | 03/05/2018 07:04 PM |  |
| 2702 | OsmoMGW   | Feature | New         | Low      | libosmo-mgcp doesn't use osmo_sock_ API  |           | 12/03/2017 09:42 AM |  |
| 2651 | OsmoMGW   | Feature | New         | Low      | Support MGCP Piggybacking  |           | 11/18/2017 05:44 PM |  |
| 2546 | OsmoMGW   | Feature | New         | Low      | support play-out/announcement endpoint type  |           | 10/06/2017 12:30 PM |  |
| 6395 | OsmoHNBGW | Feature | New         | Low      | PCFP URR support in osmo-hnbgw   |           | 03/22/2024 08:08 AM | Related to #6395                                   |

| #    | Project   | Tracker | Status      | Priority | Subject   | Assignee | Updated             | Related issues                                     |
|------|-----------|---------|-------------|----------|---|----------|---------------------|--|
| 4574 | OsmoHNBGW | Feature | New         | Low      | Femtocell choice in 2020/06   |          | 03/09/2024 07:09 PM |  |
| 5816 | OsmoHNBGW | Feature | New         | Low      | Picocells available in R.U  |          | 03/09/2024 07:09 PM |  |
| 5813 | OsmoHNBGW | Feature | New         | Low      | Alcatel-Lucent femtocells available in Europe   |          | 03/09/2024 07:09 PM |  |
| 4882 | OsmoHNBGW | Feature | New         | Low      | HSPA+ Picocell available in U.S   |          | 03/09/2024 07:08 PM |  |
| 4790 | OsmoHNBGW | Feature | New         | Low      | Vodafone HSPA+ femtocell available in Deutschland   |          | 03/09/2024 07:08 PM |  |
| 6285 | OsmoHNBGW | Feature | New         | Low      | IUFP needs not CRCX in loopback mode  |          | 12/04/2023 03:58 AM |  |
| 6127 | OsmoHNBGW | Feature | Feedback    | Normal   | Submit RAB Modification Req towards HNB to update its peer luUP address if MGW changed it | pespin   | 11/29/2023 06:45 PM |  |
| 6137 | OsmoHNBGW | Feature | New         | Normal   | ip.access Nano3G  | lynxis   | 10/21/2023 07:24 PM |  |
| 6085 | OsmoHNBGW | Feature | New         | Low      | context_map_sccp.c parrots states/events that the SCCP-SCOC FSM already handles           | neels    | 10/18/2023 03:31 PM |  |
| 5904 | OsmoHNBGW | Feature | New         | Normal   | HNBAP Register Request handling does checks that seem to make no sense                    | neels    | 09/01/2023 05:00 AM |  |
| 6051 | OsmoHNBGW | Feature | New         | Low      | misnomer in internal SCCP functions   | neels    | 07/06/2023 08:26 PM |  |
| 5867 | OsmoHNBGW | Feature | New         | Normal   | HNBGW_Tests.ttcn should do HNBAP UE Register and De-Register tests                        |          | 01/21/2023 02:30 AM |  |
| 5153 | OsmoHNBGW | Feature | In Progress | Normal   | support hnbgw co-located GTP-U proxy (UPF)  | neels    | 11/15/2022 09:54 AM | Related to #5154,Related to #5153                  |
| 5647 | OsmoHNBGW | Feature | New         | Normal   | cfg: separate PFCP Node ID from PFCP local address  |          | 08/17/2022 03:38 PM | Related to #5648,Related to #5682                  |
| 1997 | OsmoHNBGW | Feature | New         | Normal   | Improve error check at compilation time   |          | 10/21/2021 04:28 PM |  |
| 2394 | OsmoHNBGW | Feature | New         | Low      | Implement SABP (Service Area Broadcast Protocol)  | laforge  | 12/30/2020 01:19 AM | Related to #2392,Related to #3979                  |
| 2436 | OsmoHNBGW | Feature | New         | Low      | Test cases for asn1c APER encoding  |          | 01/08/2020 10:56 PM | Related to #2435,Related to #2436,Related to #3862 |
| 4128 | OsmoHNBGW | Feature | New         | Low      | Add support of Huawei hNodeB protocol   |          | 07/24/2019 03:39 PM |  |
| 6135 | OsmoHLR   | Feature | Stalled     | Normal   | Implement routing of SMS-over-GSUP messages between connected MSC/VLRs and SMSCs          | falconia | 01/09/2024 01:11 PM | Related to #6312                                   |
| 5865 | OsmoHLR   | Feature | New         | Low      | Automate selection of LU Reject Cause   |          | 02/16/2023 10:36 AM |  |
| 2542 | OsmoHLR   | Feature | Stalled     | Low      | have subscriber create-on-demand  | osmith   | 03/10/2022 03:40 PM | Related to #2541,Related to #5183                  |
| 5183 | OsmoHLR   | Feature | New         | Low      | EIR functionality   |          | 06/16/2021 06:22 AM | Related to #5183                                   |
| 2840 | OsmoHLR   | Feature | New         | Low      | HLR should allow 2g-only or 3g-only subscribers   | neels    | 10/28/2020 09:22 PM |  |

| #    | Project       | Tracker | Status  | Priority | Subject  | Assignee | Updated             | Related issues                         |
|------|---------------|---------|---------|----------|--|----------|---------------------|--|
| 4588 | OsmoHLR       | Feature | New     | Low      | OsmoHLR doesn't appear to have any statistics / counters   |          | 06/06/2020 09:44 AM |  |
| 3644 | OsmoHLR       | Feature | New     | Normal   | allow arbitrary bytes in Global Title (GT), a.k.a. the VLR,SGSN's identification towards the HLR                       | neels    | 12/01/2019 10:02 AM | Related to #3644,Related to #3644      |
| 3732 | OsmoHLR       | Feature | New     | Low      | Support tacddb query in HLR  |          | 07/18/2019 06:12 AM | Related to #3732                       |
| 3649 | OsmoHLR       | Feature | New     | Low      | Investigate LMDB as HLR data storage   |          | 10/12/2018 11:35 AM | Related to #3649                       |
| 3019 | OsmoHLR       | Feature | New     | Low      | add config for number of auth tuples returned  |          | 06/23/2018 06:58 PM |  |
| 1643 | OsmoHLR       | Feature | New     | Low      | programmatic access to new asynchronous external HLR   |          | 12/10/2017 08:06 PM | Related to #1643,Blocks #1643          |
| 2567 | OsmoHLR       | Feature | New     | Low      | tell the MSC(s) when subscriber data has changed   |          | 10/11/2017 01:50 AM |  |
| 3234 | OsmoGSMTester | Feature | New     | Low      | osmo-gsm-tester: poll the python-smplib socket using non-busy approach   | pespin   | 03/31/2023 03:28 PM | Related to #2512                       |
| 4502 | OsmoGSMTester | Feature | New     | Low      | osmo-gsm-tester: support gpio controlled step attenuators of the LTHW main unit  | pespin   | 03/31/2023 03:28 PM |  |
| 4406 | OsmoGSMTester | Feature | New     | Low      | osmo-gsm-tester: Support setting auth_algo milenage or similar on osmocom software and filling HLR parameters like OPC | pespin   | 03/31/2023 03:26 PM | Related to #4407                       |
| 2860 | OsmoGSMTester | Feature | New     | Low      | osmo-gsm-tester: Add 3g support with nano3G board  | pespin   | 03/31/2023 03:26 PM | Related to #2860                       |
| 4808 | OsmoGSMTester | Feature | New     | Low      | osmo-gsm-tester: Add test setup to verify baseband frequency hopping   | pespin   | 03/31/2023 03:25 PM |  |
| 5839 | OsmoGSMTester | Feature | New     | Normal   | Ability to switch off the osmo-trx machine   | pespin   | 12/20/2022 05:43 PM |  |
| 5838 | OsmoGSMTester | Feature | New     | Normal   | Implement power switching for all BTSs   |          | 12/20/2022 05:30 PM |  |
| 4900 | OsmoGSMTester | Feature | New     | Low      | hardware and wiring verification / selftest  |          | 12/08/2020 11:03 AM |  |
| 2200 | OsmoGSMTester | Feature | New     | Low      | osmo-gsm-tester: allow collecting statistics / KPI of a test case  |          | 04/06/2020 04:57 PM | Related to #2201                       |
| 2612 | OsmoGSMTester | Feature | New     | Low      | Allow skipping pcap by configuration if access to tcpdump is not wanted  |          | 04/06/2020 11:25 AM |  |
| 2432 | OsmoGSMTester | Feature | New     | Low      | ofono: Find out how to receive Status / Delivery report  |          | 01/08/2020 10:51 PM |  |
| 2468 | OsmoGSMTester | Feature | New     | Low      | ofono: gobi modem doesn't support ofono SupplementaryServices interface  |          | 01/08/2020 10:51 PM |  |
| 3564 | OsmoGSMTester | Feature | New     | Normal   | Investigate ofono and modems Cell Broadcast support  |          | 01/08/2020 10:42 PM | Related to #3564                       |
| 2861 | OsmoGSMTester | Feature | New     | Normal   | osmo-gsm-tester: Add 3g support for sysmocc-5k   |          | 12/02/2019 01:36 PM | Related to #2860                       |
| 2646 | OsmoGSMTester | Feature | New     | Normal   | osmo-gsm-tester: Add osmo-sip-connector support  |          | 04/23/2018 10:40 AM |  |
| 2230 | OsmoGSMTester | Feature | New     | Normal   | osmo-gsm-tester: arfcn as resource   |          | 12/14/2017 04:08 PM | Related to #2230                       |
| 2707 | OsmoGSMTester | Feature | New     | Normal   | Add support for verifying content of log files after test is run   |          | 12/04/2017 05:05 PM |  |
| 2197 | OsmoGSMTester | Feature | Stalled | Normal   | osmo-gsm-tester: use MNCC interface  |          | 11/30/2017 10:41 AM | Related to #2194,Is duplicate of #2197 |
| 2266 | OsmoGSMTester | Feature | New     | Normal   | in the gsm tester, use ipa.py from openbsc instead of the current CTRL implementation                                  |          | 10/16/2017 12:36 PM |  |

| #    | Project                    | Tracker | Status      | Priority | Subject   | Assignee | Updated             | Related issues  |
|------|----------------------------|---------|-------------|----------|---|----------|---------------------|---|
| 2374 | OsmoGSMTester              | Feature | New         | Normal   | osmo-gsm-tester: add test case: sms between MS with delivery report                   |          | 08/10/2017 04:37 PM |   |
| 2399 | OsmoGSMTester              | Feature | New         | Normal   | add tests for graceful restart of individual components                               |          | 07/25/2017 12:02 AM |   |
| 2318 | OsmoGSMTester              | Feature | New         | Normal   | testing sysmobts: skip copying of binaries when the same are already installed        |          | 06/07/2017 03:55 PM |   |
| 2314 | OsmoGSMTester              | Feature | New         | Normal   | osmo-gsm-tester: add test case: smpp: correct ESME routing                            |          | 05/31/2017 04:29 PM |   |
| 2313 | OsmoGSMTester              | Feature | New         | Normal   | osmo-gsm-tester: add test case: smpp: imsi extension                                  |          | 05/31/2017 04:27 PM |   |
| 2311 | OsmoGSMTester              | Feature | New         | Normal   | osmo-gsm-tester: add test case: smpp: smpp_first feature                              |          | 05/31/2017 04:21 PM |   |
| 2208 | OsmoGSMTester              | Feature | New         | Low      | osmo-gsm-tester: allow running binaries for a whole suite, or only for a single test  |          | 05/30/2017 01:07 PM | Related to #2208  |
| 2288 | OsmoGSMTester              | Feature | New         | Low      | logging: print in a short way which resource is being reserved and used               |          | 05/23/2017 02:25 PM |   |
| 2287 | OsmoGSMTester              | Feature | New         | Low      | processes launched by gsmtester: store command lines called next to stdout and stderr |          | 05/23/2017 12:11 PM |   |
| 2209 | OsmoGSMTester              | Feature | New         | Low      | osmo-gsm-tester: add test API to explicitly free a resource                           |          | 05/19/2017 11:01 AM | Related to #2208  |
| 2271 | OsmoGSMTester              | Feature | New         | Low      | add test names to pick to the -s cmdline option                                       |          | 05/18/2017 12:32 PM |   |
| 2225 | OsmoGSMTester              | Feature | New         | Low      | tester nitb: connect ctrl interface only once   |          | 05/15/2017 12:58 PM |   |
| 2196 | OsmoGSMTester              | Feature | New         | Low      | libmsc ctrl interface: add CTRL command to query a single subscriber's attached state |          | 05/15/2017 12:58 PM |   |
| 6096 | OsmoGGSN (former OpenGGSN) | Feature | In Progress | Urgent   | add support for kernel-GTP IPv6   | osmith   | 03/25/2024 12:10 PM | Related to #6096,Related to #6106,Related to #6096,Blocks #6096 |
| 6298 | OsmoGGSN (former OpenGGSN) | Feature | New         | Normal   | osmo-ggsn not providing MTU of the GTP tunnel to the MS                               |          | 02/15/2024 10:30 PM | Related to #6298  |
| 6223 | OsmoGGSN (former OpenGGSN) | Feature | In Progress | High     | TTCN3 unit test[s] for GTPv1U with extension headers                                  | osmith   | 01/31/2024 08:19 PM | Related to #6223  |
| 2494 | OsmoGGSN (former OpenGGSN) | Feature | New         | Low      | IPv6 support on the outer (transport) layer   |          | 02/06/2021 12:09 PM |   |
| 4433 | OsmoGGSN (former OpenGGSN) | Feature | New         | Normal   | sgsnemu: Add support for IPv4v6 EUAs  |          | 03/04/2020 10:44 AM |   |
| 4415 | OsmoGGSN (former OpenGGSN) | Feature | New         | Normal   | Document in OsmoGGSN User Manual the IPv6 allocation process over GTP                 |          | 02/25/2020 03:05 PM |   |
| 2946 | OsmoGGSN (former OpenGGSN) | Feature | New         | Low      | Add test suite for sgsnemu  | pespin   | 11/21/2019 05:03 PM |   |
| 4033 | OsmoGGSN (former OpenGGSN) | Feature | New         | Normal   | ttn3-ggsn-test: Add tests to verify secondary pdp context management                  |          | 05/30/2019 03:19 PM |   |
| 5757 | OsmoDia2GSUP               | Feature | Feedback    | Normal   | functional test suite for osmo_dia2gsup   | lynxis   | 09/06/2023 02:48 PM |   |
| 5758 | OsmoDia2GSUP               | Feature | New         | Normal   | bring osmo_dia2gsup to production quality   | lynxis   | 03/30/2023 08:13 PM |   |

| #    | Project           | Tracker | Status      | Priority | Subject   | Assignee | Updated             | Related issues  |
|------|-------------------|---------|-------------|----------|---|----------|---------------------|---|
| 4596 | OsmocomTETRA      | Feature | New         | Normal   | Port to GR3.8   |          | 01/08/2021 05:23 PM |   |
| 5395 | OsmocomDECT       | Feature | New         | Normal   | Support for LMX3161   |          | 01/09/2022 12:55 PM |   |
| 3424 | OsmocomBB SDR PHY | Feature | Stalled     | Normal   | Transceiver: implement automatic TX delay measurement                                     |          | 07/09/2023 07:46 PM |   |
| 3423 | OsmocomBB SDR PHY | Feature | Stalled     | Normal   | Receiver: hard-coded GSM 05.02 channel configuration                                      |          | 07/09/2023 07:45 PM |   |
| 6346 | OsmocomBB         | Feature | New         | Normal   | mobile: support data calls @ 14400 bps (TCH/F14.4)  |          | 01/26/2024 10:03 PM | Related to #6346,Related to #6346                                   |
| 6348 | OsmocomBB         | Feature | New         | Normal   | virtphy: add Circuit Switched Data (CSD) support  |          | 01/26/2024 10:03 PM | Related to #6348  |
| 6347 | OsmocomBB         | Feature | New         | Normal   | mobile: support data calls @ 300 bps and 1200/75 bps (TCH/[FH]2.4)                        |          | 01/26/2024 09:54 PM | Related to #6347  |
| 4030 | OsmocomBB         | Feature | In Progress | Normal   | design breakout board for GTM900-B  | mschramm | 01/05/2024 08:00 AM | Related to #4575,Related to #4610                                   |
| 6115 | OsmocomBB         | Feature | Feedback    | Normal   | modem: MTU not set properly on tun iface  | pespin   | 12/08/2023 05:48 PM | Related to #6115,Related to #6298                                   |
| 6132 | OsmocomBB         | Feature | New         | Normal   | Add MS_GPRS_Tests to osmo-ttcn3-hacks   | fixeria  | 10/04/2023 10:29 PM | Related to #6132  |
| 5501 | OsmocomBB         | Feature | Stalled     | Normal   | MS-side GPRS Mobility Management (GMM) + Session Management (SM)                          | pespin   | 09/14/2023 04:03 PM | Related to #5501,Related to #5502,Related to #5504,Related to #5505 |
| 5502 | OsmocomBB         | Feature | Stalled     | Normal   | MS-side LLC implementation  | pespin   | 09/14/2023 03:59 PM | Related to #5502,Related to #5502                                   |
| 5503 | OsmocomBB         | Feature | Feedback    | Normal   | expose GPRS user plane via tun device   | pespin   | 08/28/2023 10:38 PM | Related to #6115  |
| 5504 | OsmocomBB         | Feature | New         | Normal   | GSM/GPRS coordination (RR/GRR)  |          | 05/23/2023 12:31 PM | Related to #5504  |
| 5815 | OsmocomBB         | Feature | New         | Low      | mobile: compose Bearer Capability IE depending on PHY capabilities and GAPK codec support |          | 12/06/2022 07:38 PM | Related to #5815,Related to #5815                                   |
| 5812 | OsmocomBB         | Feature | New         | Low      | mobile: missing AMR support   |          | 12/06/2022 03:07 PM | Related to #5812  |
| 2409 | OsmocomBB         | Feature | Stalled     | High     | Add GPRS support to virt_phy and L1CTL  | fixeria  | 08/19/2022 03:06 PM |   |
| 5505 | OsmocomBB         | Feature | New         | Normal   | GPRS mobility (cell change) support   |          | 07/01/2022 06:24 AM | Related to #5505  |
| 5466 | OsmocomBB         | Feature | New         | Normal   | CP2102N evaluation for burst_ind baudrate   | laforge  | 02/22/2022 07:17 PM |   |
| 1461 | OsmocomBB         | Feature | Stalled     | High     | include some version information / negotiation in the L1CTL protocol                      | fixeria  | 10/27/2021 10:17 PM | Related to #1461,Related to #5815                                   |

| #    | Project  | Tracker | Status      | Priority | Subject   | Assignee | Updated             | Related issues                                 |
|------|--|---------|-------------|----------|---|----------|---------------------|--|
| 2555 | OsmocomBB  | Feature | Stalled     | Normal   | script interface to OsmocomBB "mobile"  | zecke    | 06/08/2020 07:07 PM | Related to #2555,Related to #2555,Blocks #2893 |
| 2379 | OsmocomBB  | Feature | New         | Normal   | package as .deb   |          | 02/27/2020 02:39 PM |  |
| 4418 | OsmocomBB  | Feature | New         | Normal   | test-sim: support all libosmocore algorithms (comp128 v1, v2, v3; MILENAGE)           |          | 02/26/2020 11:41 PM |  |
| 3666 | OsmocomBB  | Feature | New         | Normal   | trxcon: Introduce VTY interface   | fixeria  | 02/26/2020 02:43 PM | Related to #3667                               |
| 2378 | OsmocomBB  | Feature | New         | Normal   | Remove copy-pasted libosmocore ("git subtree") from osmocom-bb.git                    |          | 10/24/2018 02:13 PM |  |
| 3387 | OsmocomBB  | Feature | New         | Low      | osmocon: Use libosmocore logging system   |          | 10/05/2018 04:21 PM |  |
| 3399 | OsmocomBB  | Feature | Stalled     | High     | mobile: refactor / finish external MNCC handler implementation                        | fixeria  | 10/04/2018 09:07 PM |  |
| 2913 | OsmocomBB  | Feature | New         | Low      | Add a tool that decodes Cell Broadcasts (SMSCB)                                       |          | 09/29/2018 09:31 AM | Related to #3564                               |
| 3280 | OsmocomBB  | Feature | New         | Low      | Multiparty SS support in OsmocomBB  |          | 05/22/2018 07:40 AM |  |
| 6392 | Osmocom Conferences (OsmoDevCon, OsmoCon, OsmoDevCall) | Feature | New         | Normal   | video recording / c3voc at OsmoDevCon 2024  | laforge  | 03/06/2024 12:08 PM |  |
| 6290 | Osmocom Conferences (OsmoDevCon, OsmoCon, OsmoDevCall) | Feature | In Progress | High     | Organize OsmoDevCon 2024  | laforge  | 03/06/2024 12:06 PM |  |
| 4971 | Osmocom Analog   | Feature | New         | Low      | OsmoCC Socket Documentation   | jolly    | 10/18/2023 02:49 PM |  |
| 5167 | Osmocom Analog   | Feature | New         | Low      | LimeNet Micro   |          | 04/02/2023 08:57 AM |  |
| 5143 | Osmocom Analog   | Feature | New         | Low      | Using ADALM PLUTO SDR with osmocom-analog   | jolly    | 05/05/2021 05:01 PM |  |
| 3672 | Osmocom Analog   | Feature | New         | Normal   | Custom announcement and tones   | jolly    | 02/01/2021 10:25 AM |  |
| 5721 | OsmoCBC  | Feature | New         | Normal   | CBC messages Geographical Scope and CBS Index   |          | 10/19/2022 07:23 AM |  |
| 5641 | OsmoCBC  | Feature | New         | Normal   | OsmoCBC doesn't yet support reloading cells becoming operational with active messages |          | 08/05/2022 05:10 PM |  |
| 4944 | OsmoCBC  | Feature | New         | Low      | 3G SABP support in OsmoCBC  | laforge  | 01/13/2021 09:13 AM | Related to #4944,Related to #4944              |
| 3977 | OsmoCBC  | Feature | New         | High     | SABP stream delineation routines  | laforge  | 09/23/2019 04:49 AM | Related to #3979,Related to #4944              |
| 6167 | OsmoBTS  | Feature | New         | Low      | csd_v110: implement rate adaptation for TCH/F14.4                                     |          | 09/01/2023 11:58 AM | Related to #6167,Related to #6346              |
| 6036 | OsmoBTS  | Feature | New         | Normal   | Implement ternary SID classification for HR1 uplink                                   |          | 05/17/2023 09:48 PM | Related to #6036,Related to #6036              |

| #    | Project | Tracker | Status  | Priority | Subject  | Assignee | Updated             | Related issues   |
|------|---------|---------|---------|----------|--|----------|---------------------|--|
| 4941 | OsmoBTS | Feature | Stalled | Normal   | VAMOS support in OsmoBTS   | fixeria  | 03/18/2022 01:19 AM | Related to #4941,Related to #4941,Blocks #4941   |
| 5256 | OsmoBTS | Feature | New     | High     | support for random padding in LAPDm downlink messages  |          | 10/12/2021 11:17 AM | Related to #5256   |
| 1573 | OsmoBTS | Feature | New     | Low      | ENHANCED MEASUREMENT REPORT  |          | 07/19/2021 04:13 PM |  |
| 5025 | OsmoBTS | Feature | New     | Normal   | Missing TTCN-3 coverage for the Timing Advance loop  | fixeria  | 07/02/2021 04:28 PM |  |
| 4989 | OsmoBTS | Feature | New     | Low      | AMR RATSCCH support  |          | 01/28/2021 01:41 PM |  |
| 4988 | OsmoBTS | Feature | New     | Low      | No TTCN3 test for AMR TFO / DL CMR handling  |          | 01/28/2021 01:38 PM |  |
| 4987 | OsmoBTS | Feature | New     | Low      | No TTCN3 test for AMR DTX FSMs   |          | 01/28/2021 01:37 PM | Related to #5474   |
| 4986 | OsmoBTS | Feature | New     | Low      | No TTCN3 tests of AMR rate/link adaptation   |          | 01/28/2021 01:36 PM |  |
| 1579 | OsmoBTS | Feature | New     | Low      | Use epoll  |          | 01/15/2021 01:44 PM |  |
| 3155 | OsmoBTS | Feature | Stalled | High     | execute BTS_Tests.tcn with real (C123) phone hardware in LTHW setup                            | pespin   | 12/04/2020 07:30 PM | Related to #3353,Related to #3155  |
| 2977 | OsmoBTS | Feature | Stalled | Normal   | OsmoBTS measurement processing at L1SAP too complex / pass measurements along with data        | dexter   | 05/18/2020 06:47 PM | Related to #2977,Related to #2977,Related to #3530,Related to #3428,Related to #3395,Related to #2977,Related to #3803 |
| 4473 | OsmoBTS | Feature | New     | Low      | Support for broadcast of MOCN related SI21/22/23   |          | 03/29/2020 07:39 PM | Related to #4473   |
| 2356 | OsmoBTS | Feature | New     | Low      | have per-SAPI logging in OsmoBTS DL1P / DL1C   | osmith   | 03/19/2020 08:06 PM | Related to #2355   |
| 1902 | OsmoBTS | Feature | New     | Low      | unify/refactor dynamic timeslot code   |          | 01/08/2020 10:56 PM | Related to #1902,Related to #3099  |
| 1926 | OsmoBTS | Feature | New     | Low      | unify *_mgr code   |          | 07/18/2019 06:08 AM |  |
| 1568 | OsmoBTS | Feature | New     | Low      | Move various code bits to libosmocore  | fixeria  | 07/18/2019 06:08 AM |  |
| 4014 | OsmoBTS | Feature | New     | Low      | Allow multiple [virtual] BTS instances on same [SDR] hardware that supports multiple TRX       |          | 05/21/2019 12:07 PM |  |
| 2827 | OsmoBTS | Feature | New     | Low      | would be nice if logging of the BTS number in osmo-bts matched the BTS number used in osmo-bsc |          | 06/23/2018 06:48 PM |  |
| 3329 | OsmoBTS | Feature | New     | Normal   | osmo-bts: Implement IMMEDIATE ASSIGNMENT EXTENDED  |          | 06/08/2018 12:02 PM | Related to #3330   |
| 1837 | OsmoBTS | Feature | New     | Low      | autogenerate dtx_dl_amr_fsm.*  |          | 03/01/2018 11:17 PM |  |
| 1771 | OsmoBTS | Feature | New     | Low      | osmo-bts-trx: clarify check_transceiver_availability()   |          | 03/01/2018 11:17 PM | Related to #1770   |
| 2366 | OsmoBTS | Feature | New     | Low      | OsmoBTS lacks EXTENDED BCCH support  |          | 07/15/2017 10:42 AM | Related to #1575,Related to #2014  |



| #    | Project    | Tracker | Status      | Priority | Subject  | Assignee | Updated             | Related issues   |
|------|------------|---------|-------------|----------|--|----------|---------------------|--|
| 1576 | OsmoBTS    | Feature | New         | Low      | consider using hLayer2 as a pointer storage  |          | 02/02/2017 04:11 PM | Related to #1755   |
| 1755 | OsmoBTS    | Feature | New         | Low      | osmo-bts-sysmo L1: unify hLayer3 handling  |          | 02/02/2017 04:00 PM | Related to #1755   |
| 61   | OsmoBTS    | Feature | New         | Low      | osmo-bts: split TRAU/RTP frame handling into separate process  |          | 06/13/2016 01:16 PM |  |
| 1692 | OsmoBTS    | Feature | New         | Low      | clock source monitoring  |          | 04/13/2016 09:49 AM |  |
| 1571 | OsmoBTS    | Feature | New         | Low      | Support RTP multiplexing instead of per-call RTP streams   |          | 02/23/2016 03:32 PM |  |
| 1570 | OsmoBTS    | Feature | New         | Low      | Select RTP payload identifier based on requested speech mode   |          | 02/23/2016 03:31 PM |  |
| 1561 | OsmoBTS    | Feature | New         | Low      | Multi-TRX support (one osmo-bts process per TRX)   |          | 02/23/2016 03:18 PM |  |
| 2545 | OsmoBSCNAT | Feature | Stalled     | Low      | OsmoBSCNAT misses 3GPP AoIP  | osmith   | 10/12/2022 01:15 PM | Related to #5152,Related to #5359,Related to #5574   |
| 4124 | OsmoBSCNAT | Feature | New         | Normal   | OsmoBSCNAT : Write user manual   |          | 01/08/2020 10:56 PM | Related to #4124   |
| 5755 | OsmoBSC    | Feature | In Progress | High     | io_uring support in osmo-bsc   | jolly    | 03/02/2024 08:06 PM | Related to #5755,Related to #6357  |
| 4537 | OsmoBSC    | Feature | In Progress | Normal   | OsmoBSC needs strategies to recover broken lchans (lchan state BORKEN)                               |          | 11/20/2023 05:03 PM | Related to #4537,Related to #4540,Related to #4541,Related to #5106  |
| 4541 | OsmoBSC    | Feature | New         | Normal   | add tton3 tests for situations of Abis latency spikes, where chan act/deact ACK messages arrive late |          | 11/20/2023 05:03 PM | Related to #4541,Related to #6375  |
| 3659 | OsmoBSC    | Feature | Stalled     | High     | handover during LCLS directly between BTSs   | dexter   | 05/22/2023 09:23 AM | Related to #3659,Related to #3659,Related to #3659,Related to #3659,Related to #3659,Related to #3659,Related to #3783 |
| 5106 | OsmoBSC    | Feature | Feedback    | Urgent   | Watchdog that would try to un-BORKE BORKen timeslots   | keith    | 02/07/2023 06:25 PM | Related to #5106,Related to #5785,Related to #5786,Related to #5106  |
| 5740 | OsmoBSC    | Feature | New         | Low      | Disallow unworkable AMR modes.   | keith    | 11/08/2022 05:15 PM |  |
| 5586 | OsmoBSC    | Feature | New         | Normal   | Ericsson RBS could recover Unlocked state without osmo-bsc restart                                   |          | 06/21/2022 10:23 PM | Related to #5983   |
| 5547 | OsmoBSC    | Feature | New         | Low      | upon emergency call, from the MSC-pool pick an MSC that allows emergency calling                     |          | 04/25/2022 05:49 AM |  |

| #    | Project | Tracker | Status      | Priority | Subject  | Assignee | Updated             | Related issues  |
|------|---------|---------|-------------|----------|--|----------|---------------------|---|
| 2781 | OsmoBSC | Feature | Feedback    | Normal   | Extend OsmBSC TTCN-3 test coverage regarding resource leaks  | neels    | 03/25/2022 05:56 AM | Related to #2781,Related to #2781,Related to #5355,Related to #5337 |
| 4922 | OsmoBSC | Feature | In Progress | Normal   | Implement MS Power Control   | keith    | 11/04/2021 06:37 PM |   |
| 5156 | OsmoBSC | Feature | New         | Low      | Support intraBSC handover between distinct BTS types   |          | 11/04/2021 06:27 PM |   |
| 4940 | OsmoBSC | Feature | Stalled     | High     | VAMOS support in OsmoBSC   | neels    | 08/11/2021 02:47 PM | Related to #4941  |
| 4990 | OsmoBSC | Feature | New         | Low      | TTCN3 test for AMR MultiRate IEs in RR and RSL   |          | 07/02/2021 04:34 PM |   |
| 4010 | OsmoBSC | Feature | New         | Low      | Test RSL CHAN ACT related details for different scenarios  | neels    | 02/06/2021 10:04 AM | Related to #4010,Related to #4010                                   |
| 4981 | OsmoBSC | Feature | New         | Low      | Support for generating BSSMAP RESOURCE INDICATION  |          | 01/27/2021 03:02 PM | Related to #4982  |
| 4979 | OsmoBSC | Feature | New         | Low      | Support for parsing incoming BSSMAP LOAD INDICATION  |          | 01/27/2021 02:41 PM | Related to #4979,Related to #4980                                   |
| 4978 | OsmoBSC | Feature | New         | Low      | Support for generating BSSMAP LOAD INDICATION  |          | 01/27/2021 02:40 PM | Related to #4979,Related to #4980                                   |
| 3831 | OsmoBSC | Feature | New         | Low      | BSC support for "network sharing" via MOCN   |          | 01/20/2021 10:03 AM | Related to #4473  |
| 4716 | OsmoBSC | Feature | Stalled     | Normal   | support handover between different codec types, like TCH/F FR1 <--> TCH/H HR1  | neels    | 10/28/2020 08:22 PM | Related to #4717  |
| 1946 | OsmoBSC | Feature | New         | Low      | Add checks to the BSC VTY to prevent configurations known to not work  |          | 10/20/2020 08:40 AM | Related to #1614  |
| 4682 | OsmoBSC | Feature | New         | Low      | OM2000 MCTR Support for Ericsson RBS6000 / DUG 20  |          | 07/30/2020 06:51 AM | Precedes #4682  |
| 4640 | OsmoBSC | Feature | New         | Low      | SI2quater: support multiple EUTRAN Neighbor Cells List entries, not only multiple EUTRAN Cell Descriptions in the first Cells List entry |          | 07/06/2020 03:03 PM |   |
| 4650 | OsmoBSC | Feature | New         | Normal   | Add BIG FAT error message in case OM2000 BTS fail to start up  | laforge  | 07/04/2020 07:30 PM |   |
| 4536 | OsmoBSC | Feature | New         | Normal   | Multi BTS support within a single physical device  |          | 06/21/2020 01:10 PM |   |
| 3656 | OsmoBSC | Feature | New         | Normal   | inter-BSC handover outgoing: compose Cell Identifier List from several ARFCN+BSIC  | neels    | 06/08/2020 07:08 PM | Related to #3656  |
| 3481 | OsmoBSC | Feature | New         | Normal   | handover from TCH/H to TCH/F to reduce load  |          | 06/08/2020 07:08 PM | Related to #3481,Related to #3481                                   |
| 3480 | OsmoBSC | Feature | New         | Normal   | handover from TCH/F to TCH/H to reduce load  |          | 06/08/2020 07:08 PM | Related to #3480,Related to #3481                                   |
| 39   | OsmoBSC | Feature | New         | Low      | Logging filter on bts/trx or such  |          | 06/08/2020 07:07 PM |   |

| #    | Project | Tracker | Status      | Priority | Subject   | Assignee | Updated             | Related issues  |
|------|---------|---------|-------------|----------|---|----------|---------------------|---|
| 1605 | OsmoBSC | Feature | In Progress | Low      | logging / ring buffer for ALERT messages from A-bis OML from the BTS side   | osmith   | 03/27/2020 09:40 AM | Related to #1605  |
| 2918 | OsmoBSC | Feature | New         | Low      | Implement a function to properly test connection clearing in MSC_ConnectionHandler.ttcn (BSC-Tests)                                       |          | 01/08/2020 10:21 PM |   |
| 2893 | OsmoBSC | Feature | Stalled     | Low      | automatic simulator for large LU load   |          | 09/04/2019 09:23 AM | Related to #2722,Related to #2591,Blocks #2893,Blocks #2893 |
| 4189 | OsmoBSC | Feature | New         | Low      | TTCN-3 tests for load-based hand-over in BSC  |          | 09/04/2019 09:10 AM | Related to #4189  |
| 3872 | OsmoBSC | Feature | New         | Normal   | osmo_scu_prim.conn_id should be picked from a distinct number space for outgoing and incoming N-CONNECT                                   | osmith   | 03/28/2019 08:06 PM | Blocks #3872  |
| 3586 | OsmoBSC | Feature | New         | Normal   | support LCLS for inter-BSC handover   | neels    | 01/17/2019 04:18 PM | Related to #3586,Related to #3659                           |
| 3483 | OsmoBSC | Feature | New         | Normal   | handover decision: if rxlev is ok but rxqual is bad, move from TCH/H to TCH/F   | neels    | 10/16/2018 01:53 PM | Related to #3483  |
| 3484 | OsmoBSC | Feature | New         | Low      | handover decision: if rxlev is ok but rxqual is bad, move to different timeslot with same TCH kind to avoid interference                  |          | 10/16/2018 01:30 PM |   |
| 3638 | OsmoBSC | Feature | New         | Low      | handover decision 2: load balancing across BSS  |          | 10/16/2018 01:16 PM | Related to #3638,Related to #3638,Related to #3638          |
| 3486 | OsmoBSC | Feature | New         | Low      | handover decision: congestion: figure out the tradeoff: re-assign within same cell vs. handover to another cell                           |          | 10/16/2018 01:16 PM | Related to #3486,Related to #3638                           |
| 3485 | OsmoBSC | Feature | New         | Low      | handover to make room for a less capable subscriber   |          | 10/16/2018 01:16 PM | Related to #3485  |
| 3482 | OsmoBSC | Feature | New         | Low      | handover decision: if a new call causes congestion that would trigger immedate re-assignment, assigning the other TCH kind from the start |          | 10/16/2018 01:15 PM | Related to #3482  |
| 3505 | OsmoBSC | Feature | New         | Normal   | ttcn3: test inter-BSC HO with encryption enabled  | neels    | 08/28/2018 06:38 PM | Related to #3505  |
| 3479 | OsmoBSC | Feature | New         | Normal   | test "every single failure" in osmo-bsc FSMs  |          | 08/20/2018 11:15 AM | Related to #3479  |
| 3330 | OsmoBSC | Feature | New         | Normal   | osmo-bsc: Implement IMMEDIATE ASSIGNMENT EXTENDED   |          | 06/08/2018 12:14 PM | Related to #3330  |
| 3097 | OsmoBSC | Feature | New         | Normal   | ramping of "rxlev access min"   |          | 03/22/2018 11:51 AM | Related to #3097  |
| 2724 | OsmoBSC | Feature | New         | Normal   | Improve default timers  | laforge  | 01/04/2018 11:06 AM | Related to #2724  |
| 1857 | OsmoBSC | Feature | New         | Normal   | aggregate and report OML ALERT messages received from BTSs  |          | 12/10/2017 08:16 PM | Related to #1615,Related to #1605                           |
| 1659 | OsmoBSC | Feature | New         | Low      | Check encoding of SI at time parameters are entered from VTY, not just at generation time   |          | 12/10/2017 08:06 PM |   |

| #    | Project            | Tracker | Status      | Priority | Subject  | Assignee | Updated             | Related issues                                 |
|------|--------------------|---------|-------------|----------|--|----------|---------------------|--|
| 1613 | OsmoBSC            | Feature | New         | Low      | make BTS/TRX configuration changes without having to drop BTS OML link         |          | 12/10/2017 08:06 PM |  |
| 1600 | OsmoBSC            | Feature | New         | Low      | BSC: Make SI / rest octests more configurable                                  |          | 12/10/2017 08:04 PM |  |
| 1858 | OsmoBSC            | Feature | New         | Normal   | make BSC also generate ALERTs  |          | 12/10/2017 07:59 PM |  |
| 2462 | OsmoBSC            | Feature | New         | Low      | clarify lchan->encr.alg_id   |          | 08/24/2017 01:27 PM | Related to #2462                               |
| 5012 | osmo-uecups        | Feature | New         | Low      | use osmo-uecups from GGSN_Tests.ttcn   | pespin   | 02/06/2021 10:02 AM | Related to #5012                               |
| 4498 | osmo-uecups        | Feature | New         | Normal   | IPv6 neighbor discovery  | laforge  | 04/17/2020 08:33 AM |  |
| 4496 | osmo-uecups        | Feature | New         | Low      | implement filters for sharing as single tun device between multiple bearers    | laforge  | 04/17/2020 08:31 AM |  |
| 1686 | osmo-sip-connector | Feature | New         | Normal   | osmo-sip-connector: Implement call holding on SIP                              |          | 10/20/2020 08:36 AM |  |
| 4762 | osmo-sip-connector | Feature | New         | Low      | Osmo Analog Support  |          | 09/25/2020 07:31 AM | Related to #4763                               |
| 1687 | osmo-sip-connector | Feature | New         | Low      | osmo-sip-connector: Explore 3-way conference call                              |          | 01/08/2020 10:56 PM |  |
| 1685 | osmo-sip-connector | Feature | In Progress | Normal   | osmo-sip-connector: Review and define log statements and which info to include | osmith   | 09/04/2019 09:31 AM |  |
| 5614 | osmo-remsim        | Feature | New         | Normal   | log also application-level errors  | laforge  | 07/11/2022 08:09 PM |  |
| 5320 | osmo-remsim        | Feature | New         | Low      | support SAP of Telit AT#RSEN   |          | 11/22/2021 10:38 AM |  |
| 5321 | osmo-remsim        | Feature | New         | Low      | support SAP of u-blox AT+USAPMODE  |          | 11/22/2021 10:37 AM |  |
| 4249 | osmo-remsim        | Feature | New         | Normal   | ability to explicitly provision an "empty SIM card slot" to a modem            | laforge  | 09/08/2021 07:48 PM | Related to #5216                               |
| 3887 | osmo-remsim        | Feature | New         | Low      | remsim-client: allow for local handling of APDUs                               | laforge  | 12/03/2019 12:20 AM |  |
| 3884 | osmo-remsim        | Feature | New         | Normal   | redesign bankd thread architecture   | laforge  | 05/08/2019 03:31 PM | Related to #5527,Precedes #3885,Precedes #3886 |
| 3886 | osmo-remsim        | Feature | New         | Normal   | expose ICCID or even IMSI of all cards on remsim-server                        | laforge  | 05/08/2019 03:31 PM | Precedes #3886                                 |
| 3885 | osmo-remsim        | Feature | New         | Normal   | remsim-server should expose status information                                 | laforge  | 04/01/2019 07:23 PM | Precedes #3885                                 |
| 2697 | osmo-qcdiag        | Feature | New         | Normal   | Create and add debian packages for osmo-qcdiag to osmocom debian repositories  |          | 11/30/2017 06:03 PM |  |
| 1908 | osmo-qcdiag        | Feature | New         | Normal   | add VTY interface to osmo-qcdiag   | laforge  | 01/12/2017 01:15 PM |  |
| 1900 | osmo-qcdiag        | Feature | New         | Normal   | osmo-qcdiag: Add FUSE based access for EFS                                     |          | 01/11/2017 12:15 PM |  |
| 1901 | osmo-qcdiag        | Feature | New         | Normal   | osmo-qcdiag: Ability to read/write NV data                                     |          | 01/11/2017 12:15 PM |  |
| 5745 | osmo-lab-rack      | Feature | In Progress | Low      | component carrier Ethernet switch  | laforge  | 02/03/2023 11:29 AM |  |
| 5372 | osmo-lab-rack      | Feature | New         | Low      | AC power supply  |          | 12/23/2021 06:33 PM |  |
| 5371 | osmo-lab-rack      | Feature | New         | Low      | component carrier USB-UART   |          | 12/23/2021 06:31 PM |  |
| 5370 | osmo-lab-rack      | Feature | New         | Low      | component carrier USB hub  |          | 12/23/2021 06:30 PM |  |
| 4522 | osmo-gbproxy       | Feature | Stalled     | High     | gbproxy: Redundancy within proxy pair  | daniel   | 07/09/2021 06:43 PM |  |

| #    | Project  | Tracker | Status      | Priority | Subject  | Assignee | Updated             | Related issues                    |
|------|--|---------|-------------|----------|--|----------|---------------------|-----------------------------------|
| 4951 | osmo-gbproxy                                   | Feature | In Progress | Normal   | more TTCN3 tests for SGSN pooling  | daniel   | 07/08/2021 08:36 PM | Related to #4951,Related to #4952 |
| 4520 | osmo-gbproxy                                   | Feature | In Progress | Normal   | gbproxy: Redundancy between NS-VCs (BSS Side)                                  | lynxis   | 02/19/2021 04:50 PM | Related to #4520                  |
| 4961 | osmo-gbproxy                                   | Feature | New         | Normal   | gbproxy support for "network sharing" via MOCN                                 |          | 01/20/2021 08:38 PM |                                   |
| 4521 | osmo-gbproxy                                   | Feature | New         | Normal   | gbproxy: Redundancy between NS-VCs (SGSN Side)                                 | laforge  | 01/19/2021 05:24 PM | Related to #4959                  |
| 4893 | osmo-gbproxy                                   | Feature | New         | Low      | gbproxy2: Make feature bitmap configurable                                     |          | 12/08/2020 07:55 AM | Related to #4893                  |
| 3210 | osmo-fl2k                                      | Feature | New         | Low      | man pages  | steve-m  | 04/24/2018 08:55 PM |                                   |
| 6408 | osmo-ePDG - VoWifi Evolved Packet Data Gateway | Feature | New         | Normal   | osmo-epdg: Support check IMEI  |          | 03/15/2024 06:45 PM |                                   |
| 6407 | osmo-ePDG - VoWifi Evolved Packet Data Gateway | Feature | New         | Normal   | osmo-epdg: Support Emergency services (no IMSI)                                |          | 03/15/2024 06:43 PM |                                   |
| 6354 | osmo-ePDG - VoWifi Evolved Packet Data Gateway | Feature | New         | Low      | investigate UE behavior in terms of respecting ePDG configuration on USIM/ISIM |          | 02/07/2024 04:10 PM |                                   |
| 5861 | osmo-ePDG - VoWifi Evolved Packet Data Gateway | Feature | In Progress | Urgent   | extend charon with external authentication interface                           | lynxis   | 02/07/2024 04:00 PM | Related to #5868                  |
| 6345 | osmo-ePDG - VoWifi Evolved Packet Data Gateway | Feature | New         | Low      | osmo-epdg: Implement SWm interface (Diameter) ePDG <> AAA                      |          | 01/25/2024 05:22 PM |                                   |
| 6332 | osmo-ePDG - VoWifi Evolved Packet Data Gateway | Feature | New         | Normal   | osmo-epdg: Write User Manual   |          | 01/18/2024 04:15 PM | Related to #6332                  |
| 4915 | osmo-e1d                                       | Feature | New         | Low      | consider a one-thread-per-line architecture                                    |          | 07/29/2023 07:31 AM |                                   |
| 5520 | osmo-e1d                                       | Feature | New         | Low      | exponential back-off on octoi client reconnect attempts                        |          | 07/29/2023 07:30 AM |                                   |
| 4917 | osmo-e1d                                       | Feature | Stalled     | Normal   | reporting of alarms/errors known to the icE1usb                                | laforge  | 04/10/2022 10:36 AM |                                   |
| 5633 | osmo-clock-gen                                 | Feature | New         | Normal   | towards a first osmo-clock-gen production batch                                | laforge  | 07/26/2022 12:39 PM |                                   |
| 4678 | osmo-clock-gen                                 | Feature | New         | Low      | Increase mounting hole size to support M3 screws                               | mschramm | 07/25/2020 08:43 PM |                                   |
| 4809 | osmo-clock-conv                                | Feature | New         | Low      | alignment of DC barrel with face plate   | laforge  | 10/16/2020 05:29 PM | Related to #4814                  |
| 4810 | osmo-clock-conv                                | Feature | New         | Normal   | horizontal DC input on rear side of PCB  | mschramm | 10/15/2020 10:53 PM |                                   |
| 4806 | osmo-ccid-firmware                             | Feature | New         | Low      | Add support of T=1?  |          | 10/15/2020 03:40 PM |                                   |
| 6319 | Osmo-CC  | Feature | New         | Normal   | protocol version should have a defined end marker                              | neels    | 01/10/2024 01:31 PM |                                   |
| 5481 | Open Source IMS Client                         | Feature | New         | Urgent   | SIM card interface for doubango  | laforge  | 03/25/2022 11:00 AM | Related to #5482                  |
| 5480 | Open Source IMS Client                         | Feature | In Progress | High     | Linux kernel IPsec plugin for doubango   | laforge  | 03/25/2022 10:44 AM |                                   |

| #    | Project                | Tracker | Status | Priority | Subject   | Assignee | Updated             | Related issues   |
|------|------------------------|---------|--------|----------|---|----------|---------------------|------------------|
| 5482 | Open Source IMS Client | Feature | New    | Normal   | VoWiFi client for creating [outer] IPsec tunnel to ePDG             |          | 03/07/2022 09:33 PM | Related to #5482 |
| 5483 | Open Source IMS Client | Feature | New    | Normal   | SIM card interface for strongswan                                   |          | 03/07/2022 03:19 PM |                  |
| 5484 | Open Source IMS Client | Feature | New    | Normal   | create setup for nested IPsec (doubango on top of StrongSWAN)       |          | 03/07/2022 11:19 AM |                  |
| 4455 | OP25                   | Feature | New    | Normal   | AMBE CODEC  |          | 03/28/2020 09:53 PM |                  |
| 2155 | OP25                   | Feature | New    | High     | Replace FSK4 demodulation with IQ demodulator stage.                |          | 04/22/2017 04:16 PM |                  |
| 2156 | OP25                   | Feature | New    | High     | Implement forward error correction for HDU.                         |          | 04/22/2017 04:16 PM |                  |
| 2157 | OP25                   | Feature | New    | High     | Fix "traffic" tab so it displays data for non-HDU data units        |          | 04/22/2017 04:16 PM |                  |
| 2158 | OP25                   | Feature | New    | High     | Create a shared library for decoding for WireShark and the decoder. |          | 04/22/2017 04:16 PM |                  |
| 2160 | OP25                   | Feature | New    | High     | Add "datascope" to usrp_p25_rx.py                                   |          | 04/22/2017 04:16 PM |                  |
| 2166 | OP25                   | Feature | New    | High     | Add support for Max's I/Q 455khz downconverter                      |          | 04/22/2017 04:15 PM |                  |
| 2167 | OP25                   | Feature | New    | High     | Implement Encryption/Decryption P25 blocks                          |          | 04/22/2017 04:15 PM |                  |
| 2171 | OP25                   | Feature | New    | High     | Use libfft3 for IFFT/FFT functions.                                 |          | 04/22/2017 04:14 PM |                  |

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