

## Issues

| #    | Project                                      | Tracker | Status      | Priority | Subject  | Assignee  | Updated             | Related issues   |
|------|--|---------|-------------|----------|--|-----------|---------------------|--|
| 4534 | Ericsson RBS 6xxx                            | Support | Stalled     | Normal   | Take pictures of RBS6k gear for documentation  | roh       | 05/20/2020 03:19 PM |  |
| 2622 | OsmoBSC                                      | Support | Stalled     | High     | Prepare automatic interop testing of OmsoBSC against NG40 core simulator + osmo-bts-virtual + mobile |           | 09/04/2019 09:18 AM | Related to #2478,Related to #2558,Related to #2555                                   |
| 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 |  |
| 1627 | OsmocomBB                                    | Support | Stalled     | Low      | DCS_8BIT and DCS_UCS2 encoding supprot   |           | 07/16/2018 06:53 PM |  |
| 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   |
| 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   |
| 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                                   |
| 6416 | E1/T1 Hardware Interface (including icE1usb) | Support | Feedback    | Normal   | Serial debug tty port speed  | pfassberg | 03/22/2024 06:52 PM |  |
| 6153 | OsmoHNodeB                                   | Support | Feedback    | Normal   | List of supported FemtoCell  | Kira      | 08/28/2023 02:24 PM |  |
| 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 |
| 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 |  |
| 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 |  |
| 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 |  |
| 2677 | libosmocore                                  | Support | New         | Normal   | Make stat_item available over ctrl interface   |           | 09/04/2019 09:21 AM | Related to #2676   |
| 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 |  |
| 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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| 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 |  |
| 4581 | OsmocomBB                             | Support | New     | Normal   | compiler error assert.h no such file  |           | 06/05/2020 09:54 AM |  |
| 4471 | OsmocomBB                             | Support | New     | Normal   | Received FTMT00L from phone, ramloader has aborted  |           | 03/29/2020 11:18 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   |
| 2504 | OsmoGSMTester                         | Support | New     | Normal   | check whether running osmo-* from docker images is feasible on osmo-gsm-tester                                      |           | 04/06/2020 11:28 AM |  |
| 4612 | OsmoMSC                               | Support | New     | Normal   | test handover on non-voice call conn (no CC transaction present)  |           | 06/14/2020 12:21 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 |  |
| 6193 | Retronetworking                       | Support | New     | Low      | Replace "event rack" PM3 power supply   | laforge   | 09/27/2023 12:19 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 |  |
| 2764 | SDR (Software Defined Radio)          | Support | New     | Normal   | osmocom_fft & siggen can't access the X display   |           | 12/15/2017 06:09 PM |  |
| 4073 | Cellular Network Infrastructure       | Feature | Stalled | Low      | try to get counter and vty reference information at compile time  | Hoernchen | 02/06/2021 02:17 PM | Related to #4073,Related to #4848  |
| 4006 | Cellular Network Infrastructure       | Feature | Stalled | Normal   | TRX protocol: wind of change  | fixeria   | 10/27/2021 10:22 PM | Related to #4006,Related to #4006,Related to #4006,Related to #4081,Related to #4658,Related to #4941,Related to #5283 |
| 3699 | Cellular Network Infrastructure       | Feature | Stalled | Low      | merge Debian patches  | Hoernchen | 01/08/2020 10:24 PM | Related to #3699,Related to #3753  |
| 2604 | Cellular Network Infrastructure       | Feature | Stalled | High     | GSUP-to-DIAMETER converter / IWF  | laforge   | 02/29/2020 11:27 AM | Related to #5646   |
| 2558 | Cellular Network Infrastructure       | Feature | Stalled | Normal   | Scripts to manage thousands of "mobile" and hundreds of osmo-bts-virtual instances                                  |           | 06/08/2020 07:07 PM | Related to #2557,Related to #2556,Related to #2555,Related to #2558,Blocks #2893                                       |

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|------|---------------------------------------|---------|---------|----------|---|----------|---------------------|--|
| 6023 | Core testing infrastructure           | Feature | Stalled | Normal   | test rack/lab power management software with usage/reference counting         | laforge  | 10/18/2023 05:42 PM |  |
| 5760 | Core testing infrastructure           | Feature | Stalled | Normal   | Develop TTCN-3 test suite for MME   | dexter   | 10/04/2023 01:51 PM |  |
| 4692 | Core testing infrastructure           | Feature | Stalled | Normal   | finally implement testing of the actual voice audio path                      | laforge  | 04/19/2021 06:27 PM |  |
| 4306 | Distributed GSM                       | Feature | Stalled | Low      | GSUP proxy cache: store data persistently                                     |          | 05/20/2020 09:18 PM | Precedes #4306   |
| 4305 | Distributed GSM                       | Feature | Stalled | Low      | GSUP proxy: cache auth tuples to re-use / fall back to simpler auth methods   |          | 04/28/2020 02:37 PM | Precedes #4306   |
| 4476 | IMSI Pseudonymization                 | Feature | Stalled | Normal   | OsmoHLR: support IMSI pseudo in location update                               | neels    | 05/27/2020 01:11 PM | Blocks #4477   |
| 4404 | IMSI Pseudonymization                 | Feature | Stalled | Normal   | Research: Make sure that we can silently detach the IMSI                      |          | 04/15/2020 10:06 AM | Related to #4404,Related to #4480  |
| 5691 | libosmo-abis                          | Feature | Stalled | Normal   | Expose DAHDI statistics to prometheus   | laforge  | 01/05/2023 06:06 PM |  |
| 5034 | libosmocore                           | Feature | Stalled | Low      | logging: Enable category name instead of hex val by default                   | pespin   | 06/12/2021 05:40 PM | Related to #6272   |
| 3566 | Misc Hardware Projects                | Feature | Stalled | Normal   | power supply / battery / charge for our GSM-R OPS 940                         | laforge  | 04/02/2023 09:05 AM |  |
| 5434 | OCTOI - Osmocom Community TDM over IP | Feature | Stalled | Normal   | more statistics / counters  |          | 12/03/2023 11:17 AM |  |
| 5417 | OCTOI - Osmocom Community TDM over IP | Feature | Stalled | Low      | S/T (S0) ISDN BRI adapter with VCXO / GPS-DO                                  | laforge  | 05/16/2023 08:06 AM | Related to #5436   |
| 4917 | osmo-e1d                              | Feature | Stalled | Normal   | reporting of alarms/errors known to the icE1usb                               | laforge  | 04/10/2022 10:36 AM |  |
| 4522 | osmo-gbproxy                          | Feature | Stalled | High     | gbproxy: Redundancy within proxy pair   | daniel   | 07/09/2021 06:43 PM |  |
| 4940 | OsmoBSC                               | Feature | Stalled | High     | VAMOS support in OsmoBSC  | neels    | 08/11/2021 02:47 PM | Related to #4941   |
| 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   |
| 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 |
| 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  |
| 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   |

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| 4941 | OsmoBTS           | Feature | Stalled | Normal   | VAMOS support in OsmoBTS   | fixeria  | 03/18/2022 01:19 AM | Related to #4941,Related to #4941,Blocks #4941   |
| 3155 | OsmoBTS           | Feature | Stalled | High     | execute BTS_Tests.ttcn 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 measurment 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 |
| 5502 | OsmocomBB         | Feature | Stalled | Normal   | MS-side LLC implementation   | pespin   | 09/14/2023 03:59 PM | Related to #5502,Related to #5502  |
| 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  |
| 3399 | OsmocomBB         | Feature | Stalled | High     | mobile: refactor / finish external MNCC handler implementation                         | fixeria  | 10/04/2018 09:07 PM |  |
| 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   |
| 2409 | OsmocomBB         | Feature | Stalled | High     | Add GPRS support to virt_phy and L1CTL   | fixeria  | 08/19/2022 03:06 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  |
| 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 |  |
| 2197 | OsmoGSMTester     | Feature | Stalled | Normal   | osmo-gsm-tester: use MNCC interface  |          | 11/30/2017 10:41 AM | Related to #2194,Is duplicate of #2197   |
| 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   |
| 2542 | OsmoHLR           | Feature | Stalled | Low      | have subscriber create-on-demand   | osmith   | 03/10/2022 03:40 PM | Related to #2541,Related to #5183  |
| 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   |

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|------|----------|---------|---------|----------|--|----------|---------------------|--|
| 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  |
| 3620 | OsmoMSC  | Feature | Stalled | Normal   | Implement TTCN-3 testsuite for Inter-MSC HO                                  | neels    | 09/04/2019 09:08 AM |  |
| 3445 | OsmoMSC  | Feature | Stalled | Normal   | SS/USSD: clean up the local GSM 04.80 API                                    |          | 12/14/2018 01:57 PM |  |
| 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 |
| 1597 | OsmoMSC  | Feature | Stalled | Low      | External interface for USSD  | fixeria  | 11/27/2018 11:08 PM | Related to #1597,Related to #3433  |
| 1823 | OsmoPCU  | Feature | Stalled | Low      | Ericsson PCU TRAU frame encoding/decoding                                    |          | 09/04/2019 09:26 AM | Related to #5198   |
| 1545 | OsmoPCU  | Feature | Stalled | Normal   | continuous timing advance loop using PTCCH                                   | fixeria  | 03/24/2020 09:49 PM | Related to #1545,Related to #4102,Related to #4500,Blocks #1545  |
| 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                               |
| 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   |
| 1655 | OsmoSGSN | Feature | Stalled | Normal   | KPIs for OsmoSGSN  |          | 01/08/2020 10:49 PM | Related to #1652,Related to #1655,Related to #1655   |
| 1587 | OsmoSGSN | Feature | Stalled | Normal   | SMS over GPRS support  |          | 11/25/2018 08:14 PM | Related to #3587   |
| 4362 | OsmoTRX  | Feature | Stalled | Normal   | osmo-trx-lms: Support multi-arfcn feature                                    |          | 09/30/2020 08:09 PM | Related to #4362,Related to #4362  |
| 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  |
| 6394 | OsmoUPF  | Feature | Stalled | Low      | Basic URR (Usage Reporting Rule) support for tunnel mapping                  |          | 03/22/2024 08:08 AM | Related to #6395   |
| 4384 | pySim    | Feature | Stalled | Normal   | Jenkins program-read verification on daily (or weekly) basis                 | dexter   | 03/27/2023 04:13 PM | Related to #4384   |

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|------|---------------------------------|---------|----------|----------|---|----------|---------------------|---|
| 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 |   |
| 5826 | SIMtrace 2                      | Feature | Stalled  | Normal   | SAM4S4BA support in firmware  | laforge  | 01/31/2023 08:06 PM | Related to #5826  |
| 5276 | SIMtrace 2                      | Feature | Stalled  | Normal   | jenkins CI integration like for osmo-ccid-firmware  | roh      | 11/14/2022 05:24 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  |
| 5124 | Cellular Network Infrastructure | Feature | Feedback | Normal   | network:osmocom:nightly feed with "-O0" builds  | laforge  | 05/11/2023 11:11 AM |   |
| 3982 | Cellular Network Infrastructure | Feature | Feedback | Low      | osmo-depcheck.py: set dependency hashes on command line                                   | osmith   | 05/15/2023 09:51 AM |   |
| 4403 | IMSI Pseudonymization           | Feature | Feedback | Normal   | OsmoHLR: How to interface with SMS service?   |          | 04/16/2020 08:45 AM | Blocks #4477  |
| 5917 | libosmo-sccp + libosmo-sigtran  | Feature | Feedback | Normal   | immediately detect SCTP SHUTDOWN in SCCP link / in SCCP user / in active SCCP connections | neels    | 03/20/2023 10:23 AM |   |
| 4727 | libosmocore                     | Feature | Feedback | Normal   | Add more distro/platform/archs to jenkins CI  | laforge  | 05/15/2023 09:48 AM | Is duplicate of #4789   |
| 6103 | Linux Kernel GTP-U              | Feature | Feedback | Normal   | move from 1:1 relationship of UDP socket and net-device to a N:M relationship             | pablo    | 10/06/2023 10:49 AM | Related to #6106  |
| 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 |
| 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 |
| 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                                   |
| 5503 | OsmocomBB                       | Feature | Feedback | Normal   | expose GPRS user plane via tun device   | pespin   | 08/28/2023 10:38 PM | Related to #6115  |
| 5757 | OsmoDia2GSUP                    | Feature | Feedback | Normal   | functional test suite for osmo_dia2gsup   | lynxis   | 09/06/2023 02:48 PM |   |
| 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 |   |
| 3352 | OsmoMGW                         | Feature | Feedback | Low      | osmo-mgw does not allow multiple codecs in LCO  | neels    | 01/08/2020 10:25 PM |   |
| 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 |   |
| 1533 | OsmoPCU                         | Feature | Feedback | Low      | Separate the window handling from the TBF more clearly                                    | zecke    | 07/21/2017 02:46 PM | Related to #1533  |
| 6089 | pySim                           | Feature | Feedback | Normal   | log the current file / operation during execution of a script                             | laforge  | 11/27/2023 04:37 PM |   |
| 6224 | Retronetworking                 | Feature | Feedback | Normal   | how to document the rescued EWSD  |          | 10/18/2023 04:51 PM |   |

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|------|--|---------|-------------|----------|--|----------|---------------------|--|
| 5600 | SIMtrace 2   | Feature | Feedback    | Normal   | SIMtrace2 fails to emulate EMV cards   | boggy123 | 12/14/2022 01:07 PM |  |
| 6069 | Cellular Network Infrastructure                        | Feature | In Progress | Normal   | port hello-stk to ant-based build like mrlnc>HelloSTK2                         | dexter   | 11/02/2023 12:52 PM |  |
| 5929 | Cellular Network Infrastructure                        | Feature | In Progress | Normal   | document current (milestones of) nlnet funded projects; mention nlnet funding  | laforge  | 04/04/2023 10:05 AM |  |
| 4107 | Cellular Network Infrastructure                        | Feature | In Progress | High     | Start systemd services as non-root user  | osmith   | 04/24/2024 10:05 AM | Related to #4107,Related to #4821,Related to #4107,Related to #5669,Related to #5685,Related to #5687,Related to #5722 |
| 5679 | libosmo-sccp + libosmo-sigran                          | Feature | In Progress | Normal   | unsupported SCCP user primitive N-PCSTATE.indication                           | neels    | 02/18/2023 01:46 AM |  |
| 5480 | Open Source IMS Client                                 | Feature | In Progress | High     | Linux kernel IPsec plugin for doubango   | laforge  | 03/25/2022 10:44 AM |  |
| 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   |
| 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   |
| 5745 | osmo-lab-rack  | Feature | In Progress | Low      | component carrier Ethernet switch  | laforge  | 02/03/2023 11:29 AM |  |
| 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 |  |
| 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  |
| 4922 | OsmoBSC  | Feature | In Progress | Normal   | Implement MS Power Control   | keith    | 11/04/2021 06:37 PM |  |
| 4537 | OsmoBSC  | Feature | In Progress | Normal   | OsmoBSC needs strategies to recover broken IchanS (Ichan state BORKEN)         |          | 11/20/2023 05:03 PM | Related to #4537,Related to #4540,Related to #4541,Related to #5106  |
| 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   |
| 6290 | Osmocom Conferences (OsmoDevCon, OsmoCon, OsmoDevCall) | Feature | In Progress | High     | Organize OsmoDevCon 2024   | laforge  | 03/06/2024 12:06 PM |  |

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|------|----------------------------|---------|-------------|----------|--|-----------|---------------------|---|
| 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                                   |
| 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  |
| 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     |
| 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                                   |
| 6387 | OsmoMGW                    | Feature | In Progress | Normal   | osmo_io / io_uring support for RTP/RTCP  | laforge   | 03/26/2024 06:45 PM | Related to #6387  |
| 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  |
| 5214 | OsmoMGW                    | Feature | In Progress | Normal   | osmo-mgw multithreading  | Hoernchen | 08/31/2021 09:20 AM |   |
| 4535 | OsmoMGW                    | Feature | In Progress | Low      | Develop "E1/Abis generator"  | laforge   | 01/02/2022 01:57 PM | Precedes #2547  |
| 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  |
| 4200 | OsmoMSC                    | Feature | In Progress | Normal   | Work around nano3G-S16 requiring RAB ID to be below 16   | efistokl  | 09/14/2019 09:48 AM |   |
| 5516 | OsmoTRX                    | Feature | In Progress | High     | BladeRF 2.0 Support  | Hoernchen | 02/14/2023 02:59 PM | Is duplicate of #2430   |
| 5900 | OsmoUPF                    | Feature | In Progress | Normal   | make sure chain ids used in the tunmap nft ruleset are unused                                    |           | 02/09/2023 05:34 PM |   |
| 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  |
| 5938 | Retrocomputing             | Feature | In Progress | Normal   | assemble "fake parallel printer"   | laforge   | 09/13/2023 09:32 AM |   |
| 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 |   |
| 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 |   |
| 5422 | SIMtrace 2                 | Feature | In Progress | Normal   | "cardem" continuous testing setup  | laforge   | 01/27/2022 12:22 PM | Related to #5422  |
| 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 |
| 4638 | Altair LTE Modems          | Feature | New         | Normal   | Mikrotik R11e-4G mtd dump  |           | 06/13/2021 10:15 AM |   |
| 4341 | BBS-Revival                | Feature | New         | Normal   | setup for telnet access to legacy BBS software which doesn't have telnet/tcp support             | laforge   | 10/03/2022 12:09 PM |   |



| #    | Project                         | Tracker | Status | Priority | Subject   | Assignee | Updated             | Related issues        |
|------|---------------------------------|---------|--------|----------|---|----------|---------------------|-----------------------|
| 4242 | BBS-Revival                     | Feature | New    | Low      | offer CCC event schedule (Fahrplan) as gopher service   |          | 10/28/2019 09:22 AM |                       |
| 4525 | Cellular Modem Information      | Feature | New    | Normal   | MTK   |          | 05/03/2020 03:57 PM | Is duplicate of #4525 |
| 3658 | Cellular Modem Information      | Feature | New    | Low      | Create a "osmocom-bb-host-latest" docker container  |          | 12/01/2019 09:07 AM | Related to #3658      |
| 6327 | Cellular Network Infrastructure | Feature | New    | Low      | Osmocom-build-tags-against-master job builds very basic configurations                          | osmith   | 01/11/2024 08:17 PM |                       |
| 6243 | Cellular Network Infrastructure | Feature | New    | Low      | vtty cfg: make changing startup defaults of applications backwards compatible                   |          | 11/01/2023 07:06 PM |                       |
| 5908 | Cellular Network Infrastructure | Feature | New    | Low      | Cleanup license information throughout the projects   |          | 02/16/2023 11:02 AM |                       |
| 5771 | Cellular Network Infrastructure | Feature | New    | Normal   | series of presentations about the individual CNI network elements                               |          | 11/14/2022 07:25 PM |                       |
| 5722 | Cellular Network Infrastructure | Feature | New    | Low      | Migrate jenkins build slaves from docker to podman  |          | 10/21/2022 08:29 PM | Related to #5722      |
| 5692 | Cellular Network Infrastructure | Feature | New    | Low      | switch to C99 standard flexible arrays instad of gcc-specific zero-length arrays                |          | 09/29/2022 05:59 AM |                       |
| 5446 | Cellular Network Infrastructure | Feature | New    | Normal   | correlate git version to ttcn3 tests  |          | 02/07/2022 09:40 PM | Related to #5446      |
| 5045 | Cellular Network Infrastructure | Feature | New    | Normal   | write libversion "major" on build files automatically based on LIBVERSION                       | pespin   | 02/24/2021 01:14 PM |                       |
| 5013 | Cellular Network Infrastructure | Feature | New    | Low      | investigate "vttysh" for Osmocom  |          | 02/06/2021 02:14 PM | Related to #5013      |
| 4587 | Cellular Network Infrastructure | Feature | New    | Low      | Add port numbers to /etc/services during installation   |          | 06/08/2020 10:28 AM | Related to #5013      |
| 4376 | Cellular Network Infrastructure | Feature | New    | Normal   | Define distinct X timer numbers across all osmo programs  |          | 01/23/2020 09:21 PM |                       |
| 4277 | Cellular Network Infrastructure | Feature | New    | Low      | implement an SMSC to work with OsmoMSC  |          | 11/22/2019 02:45 PM |                       |
| 4109 | Cellular Network Infrastructure | Feature | New    | Low      | debian-repo-install-test: start a virtual MS and perform a LU                                   | osmith   | 11/29/2019 10:39 AM | Related to #4109      |
| 4091 | Cellular Network Infrastructure | Feature | New    | Normal   | Osmux: Make sure all handover types work fine if a call leg is using Osmux between BSC and MSC. | pespin   | 06/08/2020 07:08 PM |                       |
| 3779 | Cellular Network Infrastructure | Feature | New    | Low      | explore providing a VM image with all of osmocom CNI and related tools installed                |          | 02/04/2019 09:52 AM |                       |
| 3714 | Cellular Network Infrastructure | Feature | New    | Low      | implement Internal Handover With MSC Support  | neels    | 02/06/2021 02:04 PM | Related to #3714      |
| 3670 | Cellular Network Infrastructure | Feature | New    | Low      | TTCN-3 tests for statsd exporter code   |          | 09/04/2019 09:03 AM |                       |

| #    | Project                         | Tracker | Status | Priority | Subject  | Assignee | Updated             | Related issues  |
|------|---------------------------------|---------|--------|----------|--|----------|---------------------|---|
| 3628 | Cellular Network Infrastructure | Feature | New    | Low      | document nanoBTS calibration procedure using ipaccess-config tool                                  | fixeria  | 02/06/2021 02:03 PM | Related to #3628  |
| 3477 | Cellular Network Infrastructure | Feature | New    | Low      | add a wiki page explaining interconnection between components across several machines              | osmith   | 12/01/2019 09:29 AM |   |
| 3386 | Cellular Network Infrastructure | Feature | New    | Low      | Generate man pages at build time from adoc files   | osmith   | 05/11/2023 11:24 AM | Precedes #3386  |
| 3229 | Cellular Network Infrastructure | Feature | New    | Low      | build-system: jenkins.sh: Improve debian package generation test coverage during gerrit submission |          | 05/08/2019 02:36 PM | Related to #3228  |
| 3227 | Cellular Network Infrastructure | Feature | New    | Normal   | general idea: separate GSUP spec document  | roh      | 12/01/2019 09:26 AM | Is duplicate of #3227   |
| 3142 | Cellular Network Infrastructure | Feature | New    | Low      | Further simplification of "NITB like" setups   |          | 04/05/2018 08:09 PM |   |
| 2623 | Cellular Network Infrastructure | Feature | New    | High     | SCCP/M3UA: detect restart of osmo-msc and osmo-sgsn  | neels    | 02/07/2021 12:55 PM | Related to #3403,Related to #4701                                   |
| 2584 | Cellular Network Infrastructure | Feature | New    | Low      | Have "osmo-network-check" to verify "Network In The Box" setup                                     | neels    | 10/05/2018 04:20 PM | Related to #2618  |
| 2554 | Cellular Network Infrastructure | Feature | New    | Low      | Reference/Demo setup + documentation for use of OsmoBSC+OsmoBSCNAT with OSMUX                      | pespin   | 06/08/2020 07:07 PM | Related to #2553,Related to #2552,Related to #2551,Related to #2554 |
| 2451 | Cellular Network Infrastructure | Feature | New    | Low      | Add static builds to jenkins jobs  | osmith   | 09/30/2018 08:18 AM |   |
| 2011 | Cellular Network Infrastructure | Feature | New    | Low      | clean-up / merge IPA (and IPA CCM) code of libosmocore, libosmo-abis, libosmo-netif, openbsc, etc. |          | 12/07/2022 04:11 PM | Related to #4841  |
| 1975 | Cellular Network Infrastructure | Feature | New    | Low      | Redesigned configuration management / MIB  | laforge  | 02/16/2021 05:59 PM |   |
| 1598 | Cellular Network Infrastructure | Feature | New    | Low      | Scripting language interface   |          | 12/10/2017 08:04 PM |   |
| 1596 | Cellular Network Infrastructure | Feature | New    | Low      | Generation of accounting/billing data  |          | 12/10/2017 08:03 PM |   |
| 1590 | Cellular Network Infrastructure | Feature | New    | Low      | Extension of Control Interface / external SNMP agent   |          | 07/18/2019 05:22 AM |   |
| 6242 | Core testing infrastructure     | Feature | New    | Normal   | Test eUPF against ttcn3-upf-test setup   |          | 12/18/2023 11:33 AM |   |
| 5762 | Core testing infrastructure     | Feature | New    | Normal   | Develop TTCN-3 test suite for PGW  |          | 11/10/2022 06:38 PM |   |
| 5761 | Core testing infrastructure     | Feature | New    | Normal   | Develop TTCN-3 test suite for SGW  |          | 11/09/2022 09:49 PM |   |
| 5323 | Core testing infrastructure     | Feature | New    | Normal   | Add docker image containing titan.core master  |          | 12/15/2021 04:43 PM | Related to #6187  |
| 5128 | Core testing infrastructure     | Feature | New    | Low      | dec_RlmacDlCtrlBlock: Get rid of annoying warning about remaining padding                          |          | 12/09/2021 09:14 PM |   |

| #    | Project                                      | Tracker | Status | Priority | Subject  | Assignee | Updated             | Related issues            |
|------|--|---------|--------|----------|--|----------|---------------------|---------------------------|
| 4840 | Core testing infrastructure                  | Feature | New    | Low      | migrate osmo-gsm-tester docker images to registry.osmocom.org                              | pespin   | 11/02/2020 05:13 PM | Related to #4840          |
| 4458 | Core testing infrastructure                  | Feature | New    | Low      | Set up a STF (Smartphone Testing Farm)   |          | 03/18/2020 02:44 PM |                           |
| 4363 | Distributed GSM                              | Feature | New    | Low      | mslookup_client_mdns_test: add stubs, so it works without multicast                        |          | 04/28/2020 02:55 PM | Related to #4363          |
| 6417 | E1/T1 Hardware Interface (including icE1usb) | Feature | New    | Normal   | CRC4 configuration   |          | 03/22/2024 09:02 PM |                           |
| 5710 | E1/T1 Hardware Interface (including icE1usb) | Feature | New    | Normal   | rs422: Merge as much of the gateware in master as possible                                 | tnt      | 10/13/2022 06:53 PM | Related to #5710          |
| 5709 | E1/T1 Hardware Interface (including icE1usb) | Feature | New    | Normal   | rs422: Merge as much of the firmware into master to avoid separate branch                  | tnt      | 10/13/2022 06:49 PM | Related to #5709          |
| 4910 | E1/T1 Hardware Interface (including icE1usb) | Feature | New    | Low      | Automatically set the A / alarm bits in Tx if no signal on Rx                              | tnt      | 01/13/2022 07:22 PM | Related to #5381          |
| 5307 | Ericsson RBS 6xxx                            | Feature | New    | Normal   | Support for Multiple Sectors at an RBS site.   |          | 11/13/2021 08:20 PM |                           |
| 5808 | gr-osmosdr                                   | Feature | New    | Normal   | New option, for selecting an input channel of a soapy_source_c                             |          | 12/05/2022 11:45 AM |                           |
| 3802 | gr-osmosdr                                   | Feature | New    | Normal   | New release  | horiz0n  | 02/15/2019 07:22 AM |                           |
| 3597 | gr-osmosdr                                   | Feature | New    | Low      | rtl: send final samples when device is lost  | horiz0n  | 07/18/2019 05:35 AM |                           |
| 3596 | gr-osmosdr                                   | Feature | New    | Normal   | TX Tags  |          | 09/25/2018 04:01 PM |                           |
| 3595 | gr-osmosdr                                   | Feature | New    | Normal   | RX Tags  |          | 09/25/2018 04:01 PM |                           |
| 3594 | gr-osmosdr                                   | Feature | New    | Normal   | Message Commands   |          | 09/25/2018 03:59 PM |                           |
| 3414 | gr-osmosdr                                   | Feature | New    | Normal   | Include Airspy serial number in connection string.   | horiz0n  | 07/24/2018 04:52 AM |                           |
| 4495 | IMSI Pseudonymization                        | Feature | New    | Normal   | Specification: More references   | neels    | 05/27/2020 01:11 PM |                           |
| 4494 | IMSI Pseudonymization                        | Feature | New    | Normal   | Specification: Add bibliography  | neels    | 05/27/2020 01:11 PM |                           |
| 4493 | IMSI Pseudonymization                        | Feature | New    | Normal   | Specification: Cover 2G, 3G and 4G separately  | neels    | 05/27/2020 01:11 PM |                           |
| 4490 | IMSI Pseudonymization                        | Feature | New    | Normal   | Specification: how would IMSI-pseudo interact within a combined (2G-4G)+5G network?        |          | 04/16/2020 08:44 AM |                           |
| 4489 | IMSI Pseudonymization                        | Feature | New    | Normal   | Specification: mark mandatory parts / implementation details as such                       |          | 04/16/2020 08:44 AM |                           |
| 4486 | IMSI Pseudonymization                        | Feature | New    | Normal   | Applet: gracefully handle case where timer is set twice                                    |          | 04/16/2020 08:45 AM |                           |
| 4481 | IMSI Pseudonymization                        | Feature | New    | Low      | Applet: test various REFRESH qualifiers to possibly shorten the time for changing the IMSI |          | 04/16/2020 08:45 AM |                           |
| 4479 | IMSI Pseudonymization                        | Feature | New    | Normal   | Applet: change IMSI after receiving SMS  |          | 04/16/2020 08:45 AM |                           |
| 4478 | IMSI Pseudonymization                        | Feature | New    | Normal   | Applet: proper warning after too many LU with same IMSI                                    |          | 04/16/2020 08:45 AM | Related to #4478          |
| 4477 | IMSI Pseudonymization                        | Feature | New    | Normal   | OsmoHLR: send next pseudo IMSI via SMS   |          | 04/16/2020 08:45 AM | Blocks #4477,Blocks #4477 |
| 5766 | libosmo-abis                                 | Feature | New    | Low      | use Linux kernel KCM for IPA header?   |          | 11/13/2022 08:15 AM | Related to #5766          |
| 4860 | libosmo-abis                                 | Feature | New    | Low      | Implement separation of line/TEI/datalinks in E1 pcap                                      |          | 11/04/2021 06:31 PM |                           |

| #    | Project                           | Tracker | Status | Priority | Subject   | Assignee | Updated             | Related issues   |
|------|-----------------------------------|---------|--------|----------|---|----------|---------------------|------------------|
| 5648 | libosmo-pfcp                      | Feature | New    | Normal   | implement common PFCP CPF client VTY config                                       |          | 08/17/2022 03:29 PM | Related to #5648 |
| 6241 | libosmo-sccp +<br>libosmo-sigtran | Feature | New    | Low      | M3UA "Network Appearance" support   |          | 10/31/2023 03:00 PM | Related to #6241 |
| 6239 | libosmo-sccp +<br>libosmo-sigtran | Feature | New    | Normal   | finally deprecate libosmo-sccp (headers, static lib)                              |          | 10/31/2023 07:31 PM |                  |
| 4635 | libosmo-sccp +<br>libosmo-sigtran | Feature | New    | Normal   | quirks when initializing SS7 ASP  |          | 06/25/2020 04:46 PM | Related to #4635 |
| 4608 | libosmo-sccp +<br>libosmo-sigtran | Feature | New    | Low      | "action" commands to interactively shutdown/re-enable/restart sigtran connections | laforge  | 06/10/2020 01:12 PM |                  |
| 4356 | libosmo-sccp +<br>libosmo-sigtran | Feature | New    | Low      | execute sccp_demo_user server+client against each other in some test suite        | pespin   | 01/10/2020 12:23 PM | Related to #4356 |
| 2601 | libosmo-sccp +<br>libosmo-sigtran | Feature | New    | Low      | osmo-msc still needs libosmo-sccp-dev for SCCP CAUSE definitions                  | laforge  | 02/13/2021 06:07 PM |                  |
| 2009 | libosmo-sccp +<br>libosmo-sigtran | Feature | New    | Low      | Implement SCCP connection coupling ("proxy")                                      |          | 04/10/2017 12:09 PM |                  |
| 2008 | libosmo-sccp +<br>libosmo-sigtran | Feature | New    | Low      | Implement Global Title Translation  |          | 04/10/2017 12:05 PM |                  |
| 2007 | libosmo-sccp +<br>libosmo-sigtran | Feature | New    | Low      | Implement GT based routing  |          | 04/10/2017 12:04 PM |                  |
| 2006 | libosmo-sccp +<br>libosmo-sigtran | Feature | New    | Low      | Implement M2PA support  |          | 02/10/2024 01:17 PM | Related to #3603 |
| 2003 | libosmo-sccp +<br>libosmo-sigtran | Feature | New    | Low      | Implement M2UA support  |          | 04/10/2017 12:01 PM |                  |
| 2000 | libosmo-sccp +<br>libosmo-sigtran | Feature | New    | Low      | use m3ua-testtool for the ASP-side verification                                   |          | 07/18/2019 05:42 AM |                  |
| 1688 | libosmo-sccp +<br>libosmo-sigtran | Feature | New    | Low      | SUA: support N-STATE indication primitives for connect and disconnect events      |          | 04/08/2018 07:59 AM |                  |
| 6402 | libosmocore                       | Feature | New    | Low      | consider using IORING_RECVSEND_POLL_FIRST for our socket-reads                    |          | 03/14/2024 08:21 AM |                  |
| 6401 | libosmocore                       | Feature | New    | Low      | benchmark batching io_uring operations  |          | 03/14/2024 08:10 AM |                  |
| 6390 | libosmocore                       | Feature | New    | Low      | port CTRL over to osmo_io / io_uring  |          | 03/02/2024 06:45 PM | Related to #6390 |
| 6389 | libosmocore                       | Feature | New    | Low      | port VTY over to osmo_io / io_uring   |          | 03/02/2024 04:55 PM | Related to #6389 |
| 6388 | libosmocore                       | Feature | New    | Normal   | stats_reporter via osmo_io / io_uring?  |          | 03/02/2024 04:54 PM | Related to #6388 |
| 6344 | libosmocore                       | Feature | New    | Normal   | New TS 24.008 Bearer Capability codec API   |          | 01/24/2024 11:19 PM | Related to #6344 |
| 5829 | libosmocore                       | Feature | New    | Low      | log fallback for log_check_level(), log_parse_category()                          |          | 12/13/2022 10:44 PM |                  |
| 5507 | libosmocore                       | Feature | New    | Normal   | Optimize reset time after SGSN is restarted                                       | lynxis   | 03/31/2022 12:33 PM |                  |
| 4591 | libosmocore                       | Feature | New    | Normal   | Export FSM states and statistics with counters                                    |          | 03/24/2021 12:34 PM |                  |

| #    | Project                                  | Tracker | Status | Priority | Subject   | Assignee | Updated             | Related issues                         |
|------|--|---------|--------|----------|---|----------|---------------------|--|
| 4590 | libosmocore                              | Feature | New    | Normal   | Export talloc data as counters for better memory leakage monitoring in production |          | 09/12/2022 03:53 PM |  |
| 4105 | libosmocore                              | Feature | New    | Normal   | Support for LTE key derivation functions  | laforge  | 07/13/2019 02:07 AM | Related to #4105                       |
| 4103 | libosmocore                              | Feature | New    | Low      | TUAK support as per 3GPP TS 35.231  |          | 03/24/2021 12:33 PM |  |
| 4053 | libosmocore                              | Feature | New    | Low      | CTRL: Add CTRL cmd introspection to print documentation                           |          | 01/08/2020 10:21 PM | Related to #4053,Related to #4443      |
| 3987 | libosmocore                              | Feature | New    | Low      | introduce libosmocore_init() to replace individual initialization calls           |          | 05/08/2019 03:03 PM | Related to #3987                       |
| 3845 | libosmocore                              | Feature | New    | Low      | Unified logging in Gb NS / BSSGP code   |          | 03/16/2019 02:33 PM |  |
| 3522 | libosmocore                              | Feature | New    | Low      | libosmocoding: move TCH ordering functions to libosmocodec and share them         | fixeria  | 09/04/2018 08:49 PM |  |
| 3521 | libosmocore                              | Feature | New    | Normal   | core/utills: engineering notation helpers   | fixeria  | 09/04/2018 08:32 PM |  |
| 3309 | libosmocore                              | Feature | New    | Normal   | osmo_timer_* should use monotonic clock   |          | 05/31/2018 03:59 PM | Related to #3309                       |
| 2712 | libosmocore                              | Feature | New    | Low      | implement reproducible talloc context printout, i.e. without memory addresses     |          | 01/08/2020 10:21 PM | Related to #2781                       |
| 2610 | libosmocore                              | Feature | New    | Low      | optimize GnuTLS fallback  |          | 05/01/2018 04:07 PM | Related to #2610,Related to #3909      |
| 2186 | libosmocore                              | Feature | New    | Low      | split libosmocrpto  |          | 10/05/2017 06:25 AM |  |
| 1987 | libosmocore                              | Feature | New    | Normal   | gcov code coverage test support   |          | 12/01/2019 01:42 PM | Related to #1987,Is duplicate of #1987 |
| 1872 | libosmocore                              | Feature | New    | Low      | high-performance remote logging   |          | 03/24/2021 12:36 PM |  |
| 1716 | libosmocore                              | Feature | New    | Normal   | enhance unit test coverage  |          | 08/17/2016 03:57 PM | Related to #1987,Precedes #1717        |
| 5489 | linmodem                                 | Feature | New    | Low      | linmodem mISDN integration  |          | 03/13/2022 09:35 PM |  |
| 2815 | linmodem                                 | Feature | New    | Normal   | modern ptmx / pty handling (UNIX 98)  |          | 01/01/2018 02:48 PM |  |
| 2804 | linmodem                                 | Feature | New    | Low      | DAHDI interface   |          | 01/01/2018 12:27 PM |  |
| 2802 | linmodem                                 | Feature | New    | Low      | report the connected speed in "CONNECT" message                                   |          | 01/01/2018 12:18 PM |  |
| 2801 | linmodem                                 | Feature | New    | Normal   | V.90 completion   |          | 01/01/2018 12:18 PM |  |
| 2800 | linmodem                                 | Feature | New    | Normal   | Interop testing with real modems  |          | 01/01/2018 12:16 PM |  |
| 2799 | linmodem                                 | Feature | New    | Normal   | SIP client support  |          | 01/01/2020 08:05 PM |  |
| 2798 | linmodem                                 | Feature | New    | Normal   | ALSA Soundcard Support  |          | 01/01/2018 12:02 PM |  |
| 1832 | Linux Kernel GTP-U                       | Feature | New    | Normal   | OpenvSwitch GTP-u patch for 2.5   |          | 10/27/2016 08:56 AM |  |
| 5002 | M.2 (NGFF) WWAN modem USB breakout board | Feature | New    | Normal   | Ensure current return paths via M.2 connector are sufficient                      | mschramm | 03/23/2021 06:48 PM |  |

| #    | Project                               | Tracker | Status | Priority | Subject  | Assignee   | Updated             | Related issues   |
|------|---------------------------------------|---------|--------|----------|--|------------|---------------------|------------------|
| 3847 | Miscellaneous Projects                | Feature | New    | Normal   | Osmocom logo with/for black background                                   | tsaitgaist | 12/10/2019 11:53 AM |                  |
| 3038 | multi-voltage USB UART                | Feature | New    | Normal   | Add mounting holes?  |            | 03/07/2018 02:12 AM |                  |
| 6246 | OCTOI - Osmocom Community TDM over IP | Feature | New    | Low      | co-locate cisco 2811 for FrameRelay and X.25                             | laforge    | 11/06/2023 01:48 PM |                  |
| 6245 | OCTOI - Osmocom Community TDM over IP | Feature | New    | Low      | co-locate cisco 2811 ITP/STP in data center                              | laforge    | 11/06/2023 01:46 PM |                  |
| 5885 | OCTOI - Osmocom Community TDM over IP | Feature | New    | Low      | set up a second GPS03 + icE1usb setup                                    | laforge    | 01/31/2023 08:05 PM | Related to #5885 |
| 5546 | OCTOI - Osmocom Community TDM over IP | Feature | New    | Normal   | build frame relay "hub" similar to ISDN "hub"                            |            | 04/24/2022 03:03 PM |                  |
| 5526 | OCTOI - Osmocom Community TDM over IP | Feature | New    | Low      | ability to generate GSMTAP traces from osmo-e1d                          |            | 07/29/2023 07:23 AM |                  |
| 5519 | OCTOI - Osmocom Community TDM over IP | Feature | New    | Low      | reimplement overlapped.php based on yate python module                   |            | 12/03/2023 10:47 AM |                  |
| 5443 | OCTOI - Osmocom Community TDM over IP | Feature | New    | Normal   | possibility to transmit frames from multiple lines in one packet         |            | 02/06/2022 08:15 AM |                  |
| 5442 | OCTOI - Osmocom Community TDM over IP | Feature | New    | Normal   | ensure sequence number covers longer duration than default PRI LOS timer | laforge    | 02/06/2022 08:16 AM |                  |
| 5437 | OCTOI - Osmocom Community TDM over IP | Feature | New    | Low      | brainstorm about making protocol even more efficient                     | laforge    | 01/30/2022 01:45 PM |                  |
| 5436 | OCTOI - Osmocom Community TDM over IP | Feature | New    | Low      | BRI variant of OCTOI protocol  | laforge    | 01/30/2023 06:49 PM | Related to #5436 |
| 5435 | OCTOI - Osmocom Community TDM over IP | Feature | New    | Low      | use DNS to resolve the server  |            | 04/05/2022 08:20 PM |                  |
| 5429 | OCTOI - Osmocom Community TDM over IP | Feature | New    | Normal   | authentication in TDMoIP protocol  | laforge    | 11/07/2022 05:29 PM |                  |
| 5427 | OCTOI - Osmocom Community TDM over IP | Feature | New    | Low      | STUN/TURN/ICE for peer-to-peer connections                               |            | 01/30/2022 10:43 AM |                  |
| 4455 | OP25                                  | Feature | New    | Normal   | AMBE CODEC   |            | 03/28/2020 09:53 PM |                  |
| 2175 | OP25                                  | Feature | New    | High     | Update code for GNURadio 3.6 and later                                   |            | 04/22/2017 04:14 PM |                  |
| 2173 | OP25                                  | Feature | New    | High     | Remove dependency on ET++  |            | 04/22/2017 04:14 PM |                  |
| 2171 | OP25                                  | Feature | New    | High     | Use libfft3 for IFFT/FFT functions.                                      |            | 04/22/2017 04:14 PM |                  |
| 2167 | OP25                                  | Feature | New    | High     | Implement Encryption/Decryption P25 blocks                               |            | 04/22/2017 04:15 PM |                  |
| 2166 | OP25                                  | Feature | New    | High     | Add support for Max's I/Q 455khz downconverter                           |            | 04/22/2017 04:15 PM |                  |
| 2160 | OP25                                  | Feature | New    | High     | Add "datascope" to usrp_p25_rx.py  |            | 04/22/2017 04:16 PM |                  |
| 2158 | OP25                                  | Feature | New    | High     | Create a shared library for decoding for WireShark and the decoder.      |            | 04/22/2017 04:16 PM |                  |
| 2157 | OP25                                  | Feature | New    | High     | Fix "traffic" tab so it displays data for non-HDU data units             |            | 04/22/2017 04:16 PM |                  |

| #    | Project  | Tracker | Status | Priority | Subject  | Assignee | Updated             | Related issues   |
|------|--|---------|--------|----------|--|----------|---------------------|------------------|
| 2156 | OP25   | Feature | New    | High     | Implement forward error correction for HDU.                                    |          | 04/22/2017 04:16 PM |                  |
| 2155 | OP25   | Feature | New    | High     | Replace FSK4 demodulation with IQ demodulator stage.                           |          | 04/22/2017 04:16 PM |                  |
| 5484 | Open Source IMS Client                         | Feature | New    | Normal   | create setup for nested IPsec (doubango on top of StrongSWAN)                  |          | 03/07/2022 11:19 AM |                  |
| 5483 | Open Source IMS Client                         | Feature | New    | Normal   | SIM card interface for strongswan  |          | 03/07/2022 03:19 PM |                  |
| 5482 | Open Source IMS Client                         | Feature | New    | Normal   | VoWiFi client for creating [outer] IPsec tunnel to ePDG                        |          | 03/07/2022 09:33 PM | Related to #5482 |
| 5481 | Open Source IMS Client                         | Feature | New    | Urgent   | SIM card interface for doubango  | laforge  | 03/25/2022 11:00 AM | Related to #5482 |
| 6319 | Osmo-CC  | Feature | New    | Normal   | protocol version should have a defined end marker                              | neels    | 01/10/2024 01:31 PM |                  |
| 4806 | osmo-ccid-firmware                             | Feature | New    | Low      | Add support of T=1?  |          | 10/15/2020 03:40 PM |                  |
| 4810 | osmo-clock-conv                                | Feature | New    | Normal   | horizontal DC input on rear side of PCB  | mschramm | 10/15/2020 10:53 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 |
| 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 |                  |
| 5520 | osmo-e1d                                       | Feature | New    | Low      | exponential back-off on octoi client reconnect attempts                        |          | 07/29/2023 07:30 AM |                  |
| 4915 | osmo-e1d                                       | Feature | New    | Low      | consider a one-thread-per-line architecture                                    |          | 07/29/2023 07:31 AM |                  |
| 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 |                  |
| 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 |
| 3210 | osmo-fl2k                                      | Feature | New    | Low      | man pages  | steve-m  | 04/24/2018 08:55 PM |                  |
| 4961 | osmo-gbproxy                                   | Feature | New    | Normal   | gbproxy support for "network sharing" via MOCN                                 |          | 01/20/2021 08:38 PM |                  |
| 4893 | osmo-gbproxy                                   | Feature | New    | Low      | gbproxy2: Make feature bitmap configurable                                     |          | 12/08/2020 07:55 AM | Related to #4893 |
| 4521 | osmo-gbproxy                                   | Feature | New    | Normal   | gbproxy: Redundancy between NS-VCs (SGSN Side)                                 | laforge  | 01/19/2021 05:24 PM | Related to #4959 |
| 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 |                  |

| #    | Project            | Tracker | Status | Priority | Subject  | Assignee | Updated             | Related issues                                 |
|------|--------------------|---------|--------|----------|--|----------|---------------------|--|
| 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 |  |
| 1901 | osmo-qcdiag        | Feature | New    | Normal   | osmo-qcdiag: Ability to read/write NV data                                       |          | 01/11/2017 12:15 PM |  |
| 1900 | osmo-qcdiag        | Feature | New    | Normal   | osmo-qcdiag: Add FUSE based access for EFS                                       |          | 01/11/2017 12:15 PM |  |
| 5614 | osmo-remsim        | Feature | New    | Normal   | log also application-level errors  | laforge  | 07/11/2022 08:09 PM |  |
| 5321 | osmo-remsim        | Feature | New    | Low      | support SAP of u-blox AT+USAPMODE  |          | 11/22/2021 10:37 AM |  |
| 5320 | osmo-remsim        | Feature | New    | Low      | support SAP of Telit AT#RSEN   |          | 11/22/2021 10:38 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 |  |
| 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                                 |
| 3884 | osmo-remsim        | Feature | New    | Normal   | redesign bankd thread architecture   | laforge  | 05/08/2019 03:31 PM | Related to #5527,Precedes #3885,Precedes #3886 |
| 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 |  |
| 1686 | osmo-sip-connector | Feature | New    | Normal   | osmo-sip-connector: Implement call holding on SIP                                |          | 10/20/2020 08:36 AM |  |
| 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 |  |
| 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 |  |
| 5156 | OsmoBSC            | Feature | New    | Low      | Support intraBSC handover between distinct BTS types                             |          | 11/04/2021 06:27 PM |  |
| 4990 | OsmoBSC            | Feature | New    | Low      | TTCN3 test for AMR MultiRate IEs in RR and RSL                                   |          | 07/02/2021 04:34 PM |  |
| 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              |



| #    | Project | Tracker | Status | Priority | Subject   | Assignee | Updated             | Related issues                                     |
|------|---------|---------|--------|----------|---|----------|---------------------|--|
| 4682 | OsmoBSC | Feature | New    | Low      | OM2000 MCTR Support for Ericsson RBS6000 / DUG 20   |          | 07/30/2020 06:51 AM | Precedes #4682                                     |
| 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 |  |
| 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 |  |
| 4541 | OsmoBSC | Feature | New    | Normal   | add ttcn3 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                  |
| 4536 | OsmoBSC | Feature | New    | Normal   | Multi BTS support within a single physical device   |          | 06/21/2020 01:10 PM |  |
| 4189 | OsmoBSC | Feature | New    | Low      | TTCN-3 tests for load-based hand-over in BSC  |          | 09/04/2019 09:10 AM | Related to #4189                                   |
| 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                  |
| 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                                       |
| 3831 | OsmoBSC | Feature | New    | Low      | BSC support for "network sharing" via MOCN  |          | 01/20/2021 10:03 AM | Related to #4473                                   |
| 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                                   |
| 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 |
| 3586 | OsmoBSC | Feature | New    | Normal   | support LCLS for inter-BSC handover   | neels    | 01/17/2019 04:18 PM | Related to #3586,Related to #3659                  |
| 3505 | OsmoBSC | Feature | New    | Normal   | ttcn3: test inter-BSC HO with encryption enabled  | neels    | 08/28/2018 06:38 PM | Related to #3505                                   |
| 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                                   |
| 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 |  |
| 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                                   |
| 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                                   |
| 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                  |

| #    | Project    | Tracker | Status | Priority | Subject   | Assignee | Updated             | Related issues                    |
|------|------------|---------|--------|----------|---|----------|---------------------|-----------------------------------|
| 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 |
| 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                  |
| 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 |                                   |
| 2724 | OsmoBSC    | Feature | New    | Normal   | Improve default timers  | laforge  | 01/04/2018 11:06 AM | Related to #2724                  |
| 2462 | OsmoBSC    | Feature | New    | Low      | clarify lchan->encr.alg_id  |          | 08/24/2017 01:27 PM | Related to #2462                  |
| 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                  |
| 1858 | OsmoBSC    | Feature | New    | Normal   | make BSC also generate ALERTs   |          | 12/10/2017 07:59 PM |                                   |
| 1857 | OsmoBSC    | Feature | New    | Normal   | aggregate and report OML ALERT messages received from BTSs  |          | 12/10/2017 08:16 PM | Related to #1615,Related to #1605 |
| 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 |                                   |
| 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 |                                   |
| 39   | OsmoBSC    | Feature | New    | Low      | Logging filter on bts/trx or such   |          | 06/08/2020 07:07 PM |                                   |
| 4124 | OsmoBSCNAT | Feature | New    | Normal   | OsmoBSCNAT : Write user manual  |          | 01/08/2020 10:56 PM | Related to #4124                  |
| 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 |
| 5256 | OsmoBTS    | Feature | New    | High     | support for random padding in LAPDm downlink messages   |          | 10/12/2021 11:17 AM | Related to #5256                  |
| 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 |                                   |
| 4473 | OsmoBTS    | Feature | New    | Low      | Support for broadcast of MOCN related SI21/22/23  |          | 03/29/2020 07:39 PM | Related to #4473                  |
| 4014 | OsmoBTS    | Feature | New    | Low      | Allow multiple [virtual] BTS instances on same [SDR] hardware that supports multiple TRX            |          | 05/21/2019 12:07 PM |                                   |

| #    | Project        | Tracker | Status | Priority | Subject  | Assignee | Updated             | Related issues                    |
|------|----------------|---------|--------|----------|--|----------|---------------------|-----------------------------------|
| 3329 | OsmoBTS        | Feature | New    | Normal   | osmo-bts: Implement IMMEDIATE ASSIGNMENT EXTENDED  |          | 06/08/2018 12:02 PM | Related to #3330                  |
| 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 |                                   |
| 2366 | OsmoBTS        | Feature | New    | Low      | OsmoBTS lacks EXTENDED BCCH support  |          | 07/15/2017 10:42 AM | Related to #1575,Related to #2014 |
| 2356 | OsmoBTS        | Feature | New    | Low      | have per-SAPI logging in OsmoBTS DL1P / DL1C   | osmith   | 03/19/2020 08:06 PM | Related to #2355                  |
| 1926 | OsmoBTS        | Feature | New    | Low      | unify *_mgr code   |          | 07/18/2019 06:08 AM |                                   |
| 1902 | OsmoBTS        | Feature | New    | Low      | unify/refactor dynamic timeslot code   |          | 01/08/2020 10:56 PM | Related to #1902,Related to #3099 |
| 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                  |
| 1755 | OsmoBTS        | Feature | New    | Low      | osmo-bts-sysmo L1: unify hLayer3 handling  |          | 02/02/2017 04:00 PM | Related to #1755                  |
| 1692 | OsmoBTS        | Feature | New    | Low      | clock source monitoring  |          | 04/13/2016 09:49 AM |                                   |
| 1579 | OsmoBTS        | Feature | New    | Low      | Use epoll  |          | 01/15/2021 01:44 PM |                                   |
| 1576 | OsmoBTS        | Feature | New    | Low      | consider using hLayer2 as a pointer storage  |          | 02/02/2017 04:11 PM | Related to #1755                  |
| 1573 | OsmoBTS        | Feature | New    | Low      | ENHANCED MEASUREMENT REPORT  |          | 07/19/2021 04:13 PM |                                   |
| 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 |                                   |
| 1568 | OsmoBTS        | Feature | New    | Low      | Move various code bits to libosmocore  | fixeria  | 07/18/2019 06:08 AM |                                   |
| 1561 | OsmoBTS        | Feature | New    | Low      | Multi-TRX support (one osmo-bts process per TRX)   |          | 02/23/2016 03:18 PM |                                   |
| 61   | OsmoBTS        | Feature | New    | Low      | osmo-bts: split TRAU/RTP frame handling into separate process                                  |          | 06/13/2016 01:16 PM |                                   |
| 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 |
| 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 |                                   |
| 4971 | Osmocom Analog | Feature | New    | Low      | OsmoCC Socket Documentation  | jolly    | 10/18/2023 02:49 PM |                                   |
| 3672 | Osmocom Analog | Feature | New    | Normal   | Custom announcement and tones  | jolly    | 02/01/2021 10:25 AM |                                   |

| #    | Project  | Tracker | Status | Priority | Subject   | Assignee | Updated             | Related issues                    |
|------|--|---------|--------|----------|---|----------|---------------------|-----------------------------------|
| 6392 | Osmocom Conferences (OsmoDevCon, OsmoCon, OsmoDevCall) | Feature | New    | Normal   | video recording / c3voc at OsmoDevCon 2024  | laforge  | 03/06/2024 12:08 PM |                                   |
| 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                  |
| 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 |
| 6132 | OsmocomBB  | Feature | New    | Normal   | Add MS_GPRS_Tests to osmo-ttcn3-hacks   | fixeria  | 10/04/2023 10:29 PM | Related to #6132                  |
| 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                  |
| 5505 | OsmocomBB  | Feature | New    | Normal   | GPRS mobility (cell change) support   |          | 07/01/2022 06:24 AM | Related to #5505                  |
| 5504 | OsmocomBB  | Feature | New    | Normal   | GSM/GPRS coordination (RR/GRR)  |          | 05/23/2023 12:31 PM | Related to #5504                  |
| 5466 | OsmocomBB  | Feature | New    | Normal   | CP2102N evaluation for burst_ind baudrate   | laforge  | 02/22/2022 07:17 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                  |
| 3387 | OsmocomBB  | Feature | New    | Low      | osmocon: Use libosmocore logging system   |          | 10/05/2018 04:21 PM |                                   |
| 3280 | OsmocomBB  | Feature | New    | Low      | Multiparty SS support in OsmocomBB  |          | 05/22/2018 07:40 AM |                                   |
| 2913 | OsmocomBB  | Feature | New    | Low      | Add a tool that decodes Cell Broadcasts (SMSCB)   |          | 09/29/2018 09:31 AM | Related to #3564                  |
| 2379 | OsmocomBB  | Feature | New    | Normal   | package as .deb   |          | 02/27/2020 02:39 PM |                                   |
| 2378 | OsmocomBB  | Feature | New    | Normal   | Remove copy-pasted libosmocore ("git subtree") from osmocom-bb.git                        |          | 10/24/2018 02:13 PM |                                   |
| 5395 | OsmocomDECT  | Feature | New    | Normal   | Support for LMX3161   |          | 01/09/2022 12:55 PM |                                   |
| 4596 | OsmocomTETRA   | Feature | New    | Normal   | Port to GR3.8   |          | 01/08/2021 05:23 PM |                                   |
| 5758 | OsmoDia2GSUP   | Feature | New    | Normal   | bring osmo_dia2gsup to production quality   | lynxis   | 03/30/2023 08:13 PM |                                   |
| 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                  |
| 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 |                                   |
| 4033 | OsmoGGSN (former OpenGGSN)                             | Feature | New    | Normal   | ttcn3-ggsn-test: Add tests to verify secondary pdp context management                     |          | 05/30/2019 03:19 PM |                                   |

| #    | Project                    | Tracker | Status | Priority | Subject  | Assignee | Updated             | Related issues   |
|------|----------------------------|---------|--------|----------|--|----------|---------------------|------------------|
| 2946 | OsmoGGSN (former OpenGGSN) | Feature | New    | Low      | Add test suite for sgsnemu   | pespin   | 11/21/2019 05:03 PM |                  |
| 2494 | OsmoGGSN (former OpenGGSN) | Feature | New    | Low      | IPv6 support on the outer (transport) layer  |          | 02/06/2021 12:09 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 |                  |
| 4808 | OsmoGSMTester              | Feature | New    | Low      | osmo-gsm-tester: Add test setup to verify baseband frequency hopping   | pespin   | 03/31/2023 03:25 PM |                  |
| 4502 | OsmoGSMTester              | Feature | New    | Low      | osmo-gsm-tester: support gpio controlled step attenuators of the LTHW main unit  | pespin   | 03/31/2023 03:28 PM |                  |
| 4406 | OsmoGSMTester              | Feature | New    | Low      | osmo-gsm-tester: Support setting auth_algo milenage or similar on osmocom software and filling HLR parameters like OPC | pespin   | 03/31/2023 03:26 PM | Related to #4407 |
| 3564 | OsmoGSMTester              | Feature | New    | Normal   | Investigate ofono and modems Cell Broadcast support  |          | 01/08/2020 10:42 PM | Related to #3564 |
| 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 |
| 2861 | OsmoGSMTester              | Feature | New    | Normal   | osmo-gsm-tester: Add 3g support for sysmocell-5k   |          | 12/02/2019 01:36 PM | Related to #2860 |
| 2860 | OsmoGSMTester              | Feature | New    | Low      | osmo-gsm-tester: Add 3g support with nano3G board  | pespin   | 03/31/2023 03:26 PM | Related to #2860 |
| 2707 | OsmoGSMTester              | Feature | New    | Normal   | Add support for verifying content of log files after test is run   |          | 12/04/2017 05:05 PM |                  |
| 2646 | OsmoGSMTester              | Feature | New    | Normal   | osmo-gsm-tester: Add osmo-sip-connector support  |          | 04/23/2018 10:40 AM |                  |
| 2612 | OsmoGSMTester              | Feature | New    | Low      | Allow skipping pcaps by configuration if access to tcpdump is not wanted   |          | 04/06/2020 11:25 AM |                  |
| 2468 | OsmoGSMTester              | Feature | New    | Low      | ofono: gobi modem doesn't support ofono SupplementaryServices interface  |          | 01/08/2020 10:51 PM |                  |
| 2432 | OsmoGSMTester              | Feature | New    | Low      | ofono: Find out how to receive Status / Delivery report  |          | 01/08/2020 10:51 PM |                  |
| 2399 | OsmoGSMTester              | Feature | New    | Normal   | add tests for graceful restart of individual components  |          | 07/25/2017 12:02 AM |                  |
| 2374 | OsmoGSMTester              | Feature | New    | Normal   | osmo-gsm-tester: add test case: sms between MS with delivery report  |          | 08/10/2017 04:37 PM |                  |
| 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 |                  |
| 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 |                  |

| #    | Project       | Tracker | Status | Priority | Subject  | Assignee | Updated             | Related issues                    |
|------|---------------|---------|--------|----------|--|----------|---------------------|-----------------------------------|
| 2271 | OsmoGSMTester | Feature | New    | Low      | add test names to pick to the -s cmdline option  |          | 05/18/2017 12:32 PM |                                   |
| 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 |                                   |
| 2230 | OsmoGSMTester | Feature | New    | Normal   | osmo-gsm-tester: arfcn as resource   |          | 12/14/2017 04:08 PM | Related to #2230                  |
| 2225 | OsmoGSMTester | Feature | New    | Low      | tester nitb: connect ctrl interface only once  |          | 05/15/2017 12:58 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                  |
| 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                  |
| 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                  |
| 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 |                                   |
| 5865 | OsmoHLR       | Feature | New    | Low      | Automate selection of LU Reject Cause  |          | 02/16/2023 10:36 AM |                                   |
| 5183 | OsmoHLR       | Feature | New    | Low      | EIR functionality  |          | 06/16/2021 06:22 AM | Related to #5183                  |
| 4588 | OsmoHLR       | Feature | New    | Low      | OsmoHLR doesn't appear to have any statistics / counters   |          | 06/06/2020 09:44 AM |                                   |
| 3732 | OsmoHLR       | Feature | New    | Low      | Support tacdb query in HLR   |          | 07/18/2019 06:12 AM | Related to #3732                  |
| 3649 | OsmoHLR       | Feature | New    | Low      | Investigate LMDB as HLR data storage   |          | 10/12/2018 11:35 AM | Related to #3649                  |
| 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 |
| 3019 | OsmoHLR       | Feature | New    | Low      | add config for number of auth tuples returned  |          | 06/23/2018 06:58 PM |                                   |
| 2840 | OsmoHLR       | Feature | New    | Low      | HLR should allow 2g-only or 3g-only subscribers  | neels    | 10/28/2020 09:22 PM |                                   |
| 2567 | OsmoHLR       | Feature | New    | Low      | tell the MSC(s) when subscriber data has changed   |          | 10/11/2017 01:50 AM |                                   |
| 1643 | OsmoHLR       | Feature | New    | Low      | programmatic access to new asynchronous external HLR   |          | 12/10/2017 08:06 PM | Related to #1643,Blocks #1643     |
| 6395 | OsmoHNBGW     | Feature | New    | Low      | PFCP URR support in osmo-hnbgw   |          | 03/22/2024 08:08 AM | Related to #6395                  |
| 6285 | OsmoHNBGW     | Feature | New    | Low      | IUFP needs not CRCX in loopback mode   |          | 12/04/2023 03:58 AM |                                   |
| 6137 | OsmoHNBGW     | Feature | New    | Normal   | ip.access Nano3G   | lynxis   | 10/21/2023 07:24 PM |                                   |
| 6085 | OsmoHNBGW     | Feature | New    | Low      | context_map_sccp.c parrots states/events that the SCCP-SCOC FSM already handles                  | neels    | 10/18/2023 03:31 PM |                                   |
| 6051 | OsmoHNBGW     | Feature | New    | Low      | misnomer in internal SCCP functions  | neels    | 07/06/2023 08:26 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 |                                   |
| 5867 | OsmoHNBGW     | Feature | New    | Normal   | HNBGW_Tests.ttcn should do HNBAP UE Register and De-Register tests                               |          | 01/21/2023 02:30 AM |                                   |
| 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 |                                   |

| #    | Project   | Tracker | Status | Priority | Subject   | Assignee | Updated             | Related issues                                     |
|------|-----------|---------|--------|----------|---|----------|---------------------|--|
| 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                  |
| 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 |  |
| 4574 | OsmoHNBGW | Feature | New    | Low      | Femtocell choice in 2020/06   |          | 03/09/2024 07:09 PM |  |
| 4128 | OsmoHNBGW | Feature | New    | Low      | Add support of Huawei hNodeB protocol                               |          | 07/24/2019 03:39 PM |  |
| 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 |
| 2394 | OsmoHNBGW | Feature | New    | Low      | Implement SABP (Service Area Broadcast Protocol)                    | laforge  | 12/30/2020 01:19 AM | Related to #2392,Related to #3979                  |
| 1997 | OsmoHNBGW | Feature | New    | Normal   | Improve error check at compilation time                             |          | 10/21/2021 04:28 PM |  |
| 5730 | OsmoMGW   | Feature | New    | Low      | Fax over GSM support  | manawyrm | 10/16/2023 08:53 PM | Precedes #5730                                     |
| 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 |
| 5279 | OsmoMGW   | Feature | New    | Normal   | systemd service / unit for multiple osmo-mgw on one machine         | osmith   | 10/25/2021 11:41 AM |  |
| 4551 | OsmoMGW   | Feature | New    | Normal   | Dynamic/runtime allocation of new endpoints                         |          | 05/14/2020 10:56 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                                   |
| 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 |  |

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