

## Issues

| #    | Project                               | Tracker | Status      | Priority | Subject   | Assignee | Updated             | Related issues   |
|------|---------------------------------------|---------|-------------|----------|---|----------|---------------------|--|
| 2764 | SDR (Software Defined Radio)          | Support | New         | Normal   | osmocom_fft & siggen can't access the X display   |          | 12/15/2017 06:09 PM |  |
| 1983 | rtl-sdr                               | Support | New         | Normal   | Add welle.io and rtl_fm_streamer to rtl-sdr app list  |          | 06/03/2018 12:24 PM |  |
| 1627 | OsmocomBB                             | Support | Stalled     | Low      | DCS_8BIT and DCS_UCS2 encoding supprot  |          | 07/16/2018 06:53 PM |  |
| 3512 | gr-osmosdr                            | Support | New         | Normal   | Bug #3462 on Arch Linux; gr-osmosdr install fails   | horiz0n  | 01/26/2019 06:10 PM |  |
| 3819 | gr-osmosdr                            | Support | New         | Urgent   | OSMO SDR blocks for GNUradio  |          | 02/28/2019 06:00 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 |
| 4080 | rtl-sdr                               | Support | New         | Normal   | Receiving UTAs on 978 Mhz   |          | 07/02/2019 12:08 PM |  |
| 4135 | Qualcomm Linux Modems by Quectel & Co | Support | New         | Normal   | how to use network inside ec20  |          | 07/31/2019 11:20 AM |  |
| 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                                   |
| 2677 | libosmocore                           | Support | New         | Normal   | Make stat_item available over ctrl interface  |          | 09/04/2019 09:21 AM | Related to #2676   |
| 4225 | OP25                                  | Support | New         | Normal   | Missing rules in cmake lists?   | 2CS350   | 10/12/2019 02:49 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   |
| 3863 | OsmoBTS                               | Support | Stalled     | Normal   | setup testing of osmo-bts-oc2g on real hardware with ttcn3 and osmocon/osmocom-bb                                   |          | 12/01/2019 10:52 AM |  |
| 3751 | OsmoBTS                               | Support | New         | Normal   | Ensure BTS Tests.ttcn results of OC-2G resemble what we know/expect from osmo-bts-{sysmo,trx}                       |          | 12/01/2019 10:52 AM |  |
| 4308 | Distributed GSM                       | Support | New         | High     | thoughts about incorporating credit / billing in D-GSM  |          | 12/04/2019 04:08 PM |  |
| 4333 | Cellular Network Infrastructure       | Support | Feedback    | Normal   | GSUP binary compatibility: add GSUP protocol version IE?  |          | 12/16/2019 01:56 PM | Related to #4333,Related to #4333,Related to #4333                                   |
| 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   |
| 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 |  |
| 4471 | OsmocomBB                             | Support | New         | Normal   | Received FTMT00L from phone, ramloader has aborted  |          | 03/29/2020 11:18 AM |  |

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| 2504 | OsmoGSMTester                                | Support | New      | Normal   | check whether running osmo-* from docker images is feasible on osmo-gsm-tester              |           | 04/06/2020 11:28 AM |                  |
| 4534 | Ericsson RBS 6xxx                            | Support | Stalled  | Normal   | Take pictures of RBS6k gear for documentation   | roh       | 05/20/2020 03:19 PM |                  |
| 4581 | OsmocomBB                                    | Support | New      | Normal   | compiler error assert.h no such file  |           | 06/05/2020 09:54 AM |                  |
| 4593 | OP25   | Support | New      | Normal   | Link to samples on the wiki is dead   | matt      | 06/07/2020 06:53 PM |                  |
| 4612 | OsmoMSC                                      | Support | New      | Normal   | test handover on non-voice call conn (no CC transaction present)                            |           | 06/14/2020 12:21 PM |                  |
| 4737 | Distributed GSM                              | Support | New      | Low      | How to configure Queries gsup.hlr.123456789.imsi, sip.voice.123.msisdn, smpp.sms.123.msisdn |           | 08/31/2020 11:10 AM |                  |
| 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 |
| 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 |                  |
| 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 |                  |
| 6153 | OsmoHNodeB                                   | Support | Feedback | Normal   | List of supported FemtoCell   | Kira      | 08/28/2023 02:24 PM |                  |
| 6193 | Retronetworking                              | Support | New      | Low      | Replace "event rack" PM3 power supply   | laforge   | 09/27/2023 12:19 PM |                  |
| 6416 | E1/T1 Hardware Interface (including icE1usb) | Support | Feedback | Normal   | Serial debug tty port speed   | pfassberg | 03/22/2024 06:52 PM |                  |
| 6412 | E1/T1 Hardware Interface (including icE1usb) | Support | New      | Normal   | No alignment  | tnt       | 03/27/2024 01:46 PM |                  |
| 6434 | E1/T1 Hardware Interface (including icE1usb) | Support | New      | Normal   | D-channel do not recover after underrun   |           | 04/07/2024 09:07 AM |                  |
| 1504 | UmTRX  | Feature | New      | Normal   | LMS6002 phase error increases when Rx is enabled and varies with temperature                | ttsou     | 02/19/2016 10:52 PM |                  |
| 1511 | UmTRX  | Feature | New      | Normal   | Solve Tx and Rx I/Q imbalance for wideband signals  |           | 02/19/2016 10:52 PM |                  |
| 1518 | UmTRX  | Feature | New      | Normal   | Upper limit of the clock is too low   |           | 02/19/2016 10:52 PM |                  |
| 1517 | UmTRX  | Feature | New      | Normal   | U_FL (UMC) connectors are not reliable after few connections                                |           | 02/19/2016 10:52 PM |                  |
| 1516 | UmTRX  | Feature | New      | Normal   | There are no port to control external equipment like PA                                     |           | 02/19/2016 10:52 PM |                  |
| 1515 | UmTRX  | Feature | New      | Normal   | Heat dissipation and mounting issue   |           | 02/19/2016 10:52 PM |                  |
| 1506 | UmTRX  | Feature | New      | Normal   | Move to the latest stable UHD   | ipse      | 02/21/2016 04:47 PM |                  |
| 1510 | UmTRX  | Feature | New      | High     | Complete UHD integration  | ipse      | 02/21/2016 04:47 PM |                  |
| 1509 | UmTRX  | Feature | New      | Normal   | Store calibration values in EEPROM  | ipse      | 02/21/2016 04:47 PM |                  |
| 1508 | UmTRX  | Feature | New      | High     | Implement UmSEL diversity switch control  | ipse      | 02/21/2016 04:47 PM |                  |
| 1507 | UmTRX  | Feature | New      | High     | Implement UmSEL tuner control   | ipse      | 02/21/2016 04:47 PM |                  |

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|------|---------------------------------------|---------|--------|----------|--|----------|---------------------|---------------------------------|
| 1547 | OsmoPCU                               | Feature | New    | Normal   | downlink power control on PDTCH  |          | 02/23/2016 03:04 PM |                                 |
| 1554 | OsmoPCU                               | Feature | New    | Normal   | per-MS BSSGP flow control  |          | 02/23/2016 03:12 PM | Related to #1554                |
| 1561 | OsmoBTS                               | Feature | New    | Low      | Multi-TRX support (one osmo-bts process per TRX)   |          | 02/23/2016 03:18 PM |                                 |
| 1570 | OsmoBTS                               | Feature | New    | Low      | Select RTP payload identifier based on requested speech mode                             |          | 02/23/2016 03:31 PM |                                 |
| 1571 | OsmoBTS                               | Feature | New    | Low      | Support RTP multiplexing instead of per-call RTP streams                                 |          | 02/23/2016 03:32 PM |                                 |
| 1586 | OsmoSGSN                              | Feature | New    | Normal   | Implement QoS profile support  |          | 02/23/2016 03:45 PM |                                 |
| 1588 | OsmoSGSN                              | Feature | New    | Normal   | Inter-RAT hand-over  |          | 02/23/2016 03:46 PM |                                 |
| 1623 | OsmoSMSC                              | Feature | New    | Normal   | Configure delivery report for the SMPP delivery links                                    | zecke    | 02/24/2016 01:49 PM |                                 |
| 1689 | OsmoSMSC                              | Feature | New    | Normal   | insert: Change destination number based on criteria similiar to route handling on output | zecke    | 04/06/2016 12:18 PM |                                 |
| 1692 | OsmoBTS                               | Feature | New    | Low      | clock source monitoring  |          | 04/13/2016 09:49 AM |                                 |
| 61   | OsmoBTS                               | Feature | New    | Low      | osmo-bts: split TRAU/RTP frame handling into separate process                            |          | 06/13/2016 01:16 PM |                                 |
| 1716 | libosmocore                           | Feature | New    | Normal   | enhance unit test coverage   |          | 08/17/2016 03:57 PM | Related to #1987,Precedes #1717 |
| 1814 | Qualcomm Linux Modems by Quectel & Co | Feature | New    | Low      | check if qtools work   |          | 10/02/2016 04:08 AM |                                 |
| 1815 | Qualcomm Linux Modems by Quectel & Co | Feature | New    | Normal   | tool for building binary ipk from .list/.control   |          | 10/02/2016 05:06 AM |                                 |
| 1832 | Linux Kernel GTP-U                    | Feature | New    | Normal   | OpenvSwitch GTP-u patch for 2.5  |          | 10/27/2016 08:56 AM |                                 |
| 33   | OsmoSGSN                              | Feature | New    | Low      | real LLC implementation with fragmentation and re-transmissions                          |          | 11/09/2016 09:45 AM |                                 |
| 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 |                                 |
| 1908 | osmo-qcdiag                           | Feature | New    | Normal   | add VTY interface to osmo-qcdiag   | laforge  | 01/12/2017 01:15 PM |                                 |
| 1755 | OsmoBTS                               | Feature | New    | Low      | osmo-bts-sysmo L1: unify hLayer3 handling  |          | 02/02/2017 04:00 PM | Related to #1755                |
| 1576 | OsmoBTS                               | Feature | New    | Low      | consider using hLayer2 as a pointer storage  |          | 02/02/2017 04:11 PM | Related to #1755                |
| 1549 | OsmoPCU                               | Feature | New    | Normal   | DRX support for GPRS   |          | 02/04/2017 08:11 AM | Related to #1942                |
| 2003 | libosmo-sccp + libosmo-sigtran        | Feature | New    | Low      | Implement M2UA support   |          | 04/10/2017 12:01 PM |                                 |
| 2007 | libosmo-sccp + libosmo-sigtran        | Feature | New    | Low      | Implement GT based routing   |          | 04/10/2017 12:04 PM |                                 |
| 2008 | libosmo-sccp + libosmo-sigtran        | Feature | New    | Low      | Implement Global Title Translation   |          | 04/10/2017 12:05 PM |                                 |
| 2009 | libosmo-sccp + libosmo-sigtran        | Feature | New    | Low      | Implement SCCP connection coupling ("proxy")   |          | 04/10/2017 12:09 PM |                                 |

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| 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 libfftw3 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 |                                   |
| 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 |                                   |
| 2224 | SDR (Software Defined Radio) | Feature | New      | Normal   | New Fospor Benchmark Performance  |          | 05/04/2017 01:23 PM |                                   |
| 2225 | OsmoGSMTester                | Feature | New      | Low      | tester nitb: connect ctrl interface only once   |          | 05/15/2017 12:58 PM |                                   |
| 2196 | OsmoGSMTester                | Feature | New      | Low      | libmsc ctrl interface: add CTRL command to query a single subscriber's attached state |          | 05/15/2017 12:58 PM |                                   |
| 2271 | OsmoGSMTester                | Feature | New      | Low      | add test names to pick to the -s cmdline option                                       |          | 05/18/2017 12:32 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                  |
| 2287 | OsmoGSMTester                | Feature | New      | Low      | processes launched by gsmtester: store command lines called next to stdout and stderr |          | 05/23/2017 12:11 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 |                                   |
| 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                  |
| 2311 | OsmoGSMTester                | Feature | New      | Normal   | osmo-gsm-tester: add test case: smpp: smpp_first feature                              |          | 05/31/2017 04:21 PM |                                   |
| 2313 | OsmoGSMTester                | Feature | New      | Normal   | osmo-gsm-tester: add test case: smpp: imsi extension                                  |          | 05/31/2017 04:27 PM |                                   |
| 2314 | OsmoGSMTester                | Feature | New      | Normal   | osmo-gsm-tester: add test case: smpp: correct ESME routing                            |          | 05/31/2017 04:29 PM |                                   |
| 2318 | OsmoGSMTester                | Feature | New      | Normal   | testing sysmobts: skip copying of binaries when the same are already installed        |          | 06/07/2017 03:55 PM |                                   |
| 2366 | OsmoBTS                      | Feature | New      | Low      | OsmoBTS lacks EXTENDED BCCH support   |          | 07/15/2017 10:42 AM | Related to #1575,Related to #2014 |
| 1533 | OsmoPCU                      | Feature | Feedback | Low      | Separate the window handling from the TBF more clearly                                | zecke    | 07/21/2017 02:46 PM | Related to #1533                  |
| 2399 | OsmoGSMTester                | Feature | New      | Normal   | add tests for graceful restart of individual components                               |          | 07/25/2017 12:02 AM |                                   |
| 2405 | OsmoPCU                      | Feature | New      | Low      | RLC/MAC encoding routines don't use bitvec L/H  |          | 07/29/2017 09:01 AM |                                   |
| 2374 | OsmoGSMTester                | Feature | New      | Normal   | osmo-gsm-tester: add test case: sms between MS with delivery report                   |          | 08/10/2017 04:37 PM |                                   |

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| 2462 | OsmoBSC                         | Feature | New     | Low      | clarify lchan->encr.alg_id  |          | 08/24/2017 01:27 PM | Related to #2462                       |
| 2186 | libosmocore                     | Feature | New     | Low      | split libosmocrpto  |          | 10/05/2017 06:25 AM |  |
| 2546 | OsmoMGW                         | Feature | New     | Low      | support play-out/announcement endpoint type   |          | 10/06/2017 12:30 PM |  |
| 2567 | OsmoHLR                         | Feature | New     | Low      | tell the MSC(s) when subscriber data has changed  |          | 10/11/2017 01:50 AM |  |
| 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 |  |
| 2651 | OsmoMGW                         | Feature | New     | Low      | Support MGCP Piggybacking   |          | 11/18/2017 05:44 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 |
| 2697 | osmo-qcdiag                     | Feature | New     | Normal   | Create and add debian packages for osmo-qcdiag to osmocom debian repositories             |          | 11/30/2017 06:03 PM |  |
| 2702 | OsmoMGW                         | Feature | New     | Low      | libosmo-mgcp doesn't use osmo_sock_ API   |          | 12/03/2017 09:42 AM |  |
| 2707 | OsmoGSMTester                   | Feature | New     | Normal   | Add support for verifying content of log files after test is run                          |          | 12/04/2017 05:05 PM |  |
| 1858 | OsmoBSC                         | Feature | New     | Normal   | make BSC also generate ALERTs   |          | 12/10/2017 07:59 PM |  |
| 1596 | Cellular Network Infrastructure | Feature | New     | Low      | Generation of accounting/billing data   |          | 12/10/2017 08:03 PM |  |
| 1598 | Cellular Network Infrastructure | Feature | New     | Low      | Scripting language interface  |          | 12/10/2017 08:04 PM |  |
| 1600 | OsmoBSC                         | Feature | New     | Low      | BSC: Make SI / rest octests more configurable   |          | 12/10/2017 08:04 PM |  |
| 1613 | OsmoBSC                         | Feature | New     | Low      | make BTS/TRX configuration changes without having to drop BTS OML link                    |          | 12/10/2017 08:06 PM |  |
| 1643 | OsmoHLR                         | Feature | New     | Low      | programmatic access to new asynchronous external HLR                                      |          | 12/10/2017 08:06 PM | Related to #1643,Blocks #1643          |
| 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 |  |
| 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      |
| 2230 | OsmoGSMTester                   | Feature | New     | Normal   | osmo-gsm-tester: arfcn as resource  |          | 12/14/2017 04:08 PM | Related to #2230                       |
| 2390 | OsmoMSC                         | Feature | New     | Normal   | re-add osmocom specific TLVs to SMPP messages   |          | 12/23/2017 05:48 PM |  |
| 2191 | OsmoMSC                         | Feature | New     | Normal   | raw PDU mode for SMPP   |          | 12/23/2017 05:48 PM |  |
| 2798 | linmodem                        | Feature | New     | Normal   | ALSA Soundcard Support  |          | 01/01/2018 12:02 PM |  |
| 2800 | linmodem                        | Feature | New     | Normal   | Interop testing with real modems  |          | 01/01/2018 12:16 PM |  |
| 2801 | linmodem                        | Feature | New     | Normal   | V.90 completion   |          | 01/01/2018 12:18 PM |  |
| 2802 | linmodem                        | Feature | New     | Low      | report the connected speed in "CONNECT" message   |          | 01/01/2018 12:18 PM |  |
| 2804 | linmodem                        | Feature | New     | Low      | DAHDI interface   |          | 01/01/2018 12:27 PM |  |

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| 2806 | UUCP and UseNet                 | Feature | New    | Low      | Create Dockerfile and/or ansible playbook for UseNet node                               |          | 01/01/2018 01:04 PM |                                   |
| 2813 | Z-Netz                          | Feature | New    | Normal   | Create + Document OpenXP setup on Linux   |          | 01/01/2018 01:41 PM |                                   |
| 2814 | Z-Netz                          | Feature | New    | Normal   | Create + Document classic CrossPoint setup on DOS (dosemu)                              |          | 01/01/2018 01:41 PM |                                   |
| 2815 | linmodem                        | Feature | New    | Normal   | modern ptmx / pty handling (UNIX 98)  |          | 01/01/2018 02:48 PM |                                   |
| 2788 | OsmoMSC                         | Feature | New    | Normal   | OsmoMSC should handle CM Service Abort message  | neels    | 01/04/2018 10:37 AM |                                   |
| 2724 | OsmoBSC                         | Feature | New    | Normal   | Improve default timers  | laforge  | 01/04/2018 11:06 AM | Related to #2724                  |
| 2832 | OsmoMSC                         | Feature | New    | Low      | MNCC doesn't include field for "supported codecs"                                       |          | 01/16/2018 07:00 AM | Related to #2832,Related to #1683 |
| 2878 | OsmoMSC                         | Feature | New    | Low      | OsmoMSC support for "Follow-on request/proceed"   |          | 01/26/2018 09:11 PM |                                   |
| 1537 | OsmoPCU                         | Feature | New    | Low      | Move the BSSGP handling to libosmocore  |          | 03/01/2018 11:17 PM | Related to #1537,Related to #2388 |
| 1771 | OsmoBTS                         | Feature | New    | Low      | osmo-bts-trx: clarify check_transceiver_availability()                                  |          | 03/01/2018 11:17 PM | Related to #1770                  |
| 1837 | OsmoBTS                         | Feature | New    | Low      | autogenerate dtx_dl_amr_fsm.*   |          | 03/01/2018 11:17 PM |                                   |
| 3033 | OsmoTRX                         | Feature | New    | Low      | Split wiki page into multiple smaller pages   |          | 03/05/2018 11:28 AM |                                   |
| 2411 | OsmoMGW                         | Feature | New    | Low      | No support for RTP dynamic payload types - AMR/HR/EFR payload types are hardcoded       |          | 03/05/2018 07:04 PM |                                   |
| 3038 | multi-voltage USB UART          | Feature | New    | Normal   | Add mounting holes?   |          | 03/07/2018 02:12 AM |                                   |
| 2523 | OsmoMGW                         | Feature | New    | Normal   | transcoding: remove "not yet implemented" from MNCC manual once transcoding is in place | daniel   | 03/16/2018 07:54 PM |                                   |
| 3097 | OsmoBSC                         | Feature | New    | Normal   | ramping of "rxlev access min"   |          | 03/22/2018 11:51 AM | Related to #3097                  |
| 3142 | Cellular Network Infrastructure | Feature | New    | Low      | Further simplification of "NITB like" setups  |          | 04/05/2018 08:09 PM |                                   |
| 1688 | libosmo-sccp + libosmo-sigtran  | Feature | New    | Low      | SUA: support N-STATE indication primitives for connect and disconnect events            |          | 04/08/2018 07:59 AM |                                   |
| 2646 | OsmoGSMTester                   | Feature | New    | Normal   | osmo-gsm-tester: Add osmo-sip-connector support   |          | 04/23/2018 10:40 AM |                                   |
| 3207 | OsmoMGW                         | Feature | New    | Low      | Support for RTP Payload Format according to "ETSI TS 101 318"                           |          | 04/24/2018 03:53 PM |                                   |
| 3210 | osmo-fl2k                       | Feature | New    | Low      | man pages   | steve-m  | 04/24/2018 08:55 PM |                                   |
| 2795 | OsmoMSC                         | Feature | New    | Normal   | Handle UTRAN_CLSM_CHG in MSC  | neels    | 04/30/2018 12:06 PM | Related to #3043                  |
| 2610 | libosmocore                     | Feature | New    | Low      | optimize GnuTLS fallback  |          | 05/01/2018 04:07 PM | Related to #2610,Related to #3909 |
| 3280 | OsmocomBB                       | Feature | New    | Low      | Multiparty SS support in OsmocomBB  |          | 05/22/2018 07:40 AM |                                   |
| 18   | OsmoNITB                        | Feature | New    | Low      | store last location identity to database  |          | 05/24/2018 01:15 PM |                                   |
| 3309 | libosmocore                     | Feature | New    | Normal   | osmo_timer_* should use monotonic clock   |          | 05/31/2018 03:59 PM | Related to #3309                  |

| #    | Project                         | Tracker | Status | Priority | Subject  | Assignee   | Updated             | Related issues   |
|------|---------------------------------|---------|--------|----------|--|------------|---------------------|------------------|
| 3315 | rtl-sdr                         | Feature | New    | Normal   | review and possibly apply patches from debian package  | steve-m    | 06/03/2018 01:17 PM |                  |
| 3329 | OsmoBTS                         | Feature | New    | Normal   | osmo-bts: Implement IMMEDIATE ASSIGNMENT EXTENDED  |            | 06/08/2018 12:02 PM | Related to #3330 |
| 3330 | OsmoBSC                         | Feature | New    | Normal   | osmo-bsc: Implement IMMEDIATE ASSIGNMENT EXTENDED  |            | 06/08/2018 12:14 PM | Related to #3330 |
| 3345 | OsmoTRX                         | Feature | New    | Low      | merge ms branch  |            | 06/13/2018 07:16 PM |                  |
| 3344 | OsmoTRX                         | Feature | New    | Normal   | merge ttsou/siggen   |            | 06/13/2018 07:26 PM |                  |
| 2827 | OsmoBTS                         | Feature | New    | Low      | would be nice if logging of the BTS number in osmo-bts matched the BTS number used in osmo-bsc |            | 06/23/2018 06:48 PM |                  |
| 3019 | OsmoHLR                         | Feature | New    | Low      | add config for number of auth tuples returned  |            | 06/23/2018 06:58 PM |                  |
| 3414 | gr-osmosdr                      | Feature | New    | Normal   | Include Airspy serial number in connection string.   | horiz0n    | 07/24/2018 04:52 AM |                  |
| 3371 | SIMtrace 2                      | Feature | New    | Normal   | migrate to use arm-none-eabi build of libosmocore.git  | laforge    | 08/09/2018 12:14 PM |                  |
| 3479 | OsmoBSC                         | Feature | New    | Normal   | test "every single failure" in osmo-bsc FSMs   |            | 08/20/2018 11:15 AM | Related to #3479 |
| 3469 | OsmoMSC                         | Feature | New    | Low      | Support for "service category" in emergency calls  |            | 08/24/2018 12:48 PM | Related to #3470 |
| 1463 | SIMtrace 2                      | Feature | New    | Low      | Add VCC current sensing circuit for SPA & DPA attacks  | laforge    | 08/27/2018 07:05 AM | Related to #1706 |
| 3501 | SIMtrace 2                      | Feature | New    | Low      | Multi-sim addon board idea   |            | 08/28/2018 03:00 PM |                  |
| 3505 | OsmoBSC                         | Feature | New    | Normal   | ttn3: test inter-BSC HO with encryption enabled  | neels      | 08/28/2018 06:38 PM | Related to #3505 |
| 3470 | OsmoMSC                         | Feature | New    | Low      | Allow sending "Emergency Number List IE" in LU ACCEPT  |            | 09/01/2018 08:18 PM | Related to #3470 |
| 3521 | libosmocore                     | Feature | New    | Normal   | core/utils: engineering notation helpers   | fixeria    | 09/04/2018 08:32 PM |                  |
| 3522 | libosmocore                     | Feature | New    | Low      | libosmocoding: move TCH ordering functions to libosmocodec and share them                      | fixeria    | 09/04/2018 08:49 PM |                  |
| 1911 | SIMtrace 2                      | Feature | New    | Normal   | check if we can have an enclosed version of simtrace v2  | tsaitgaist | 09/13/2018 12:40 PM |                  |
| 1457 | SIMtrace 2                      | Feature | New    | Low      | Spacing between JTAG and JP1/JP2   | mschramm   | 09/13/2018 07:07 PM |                  |
| 3594 | gr-osmosdr                      | Feature | New    | Normal   | Message Commands   |            | 09/25/2018 03:59 PM |                  |
| 3595 | gr-osmosdr                      | Feature | New    | Normal   | RX Tags  |            | 09/25/2018 04:01 PM |                  |
| 3596 | gr-osmosdr                      | Feature | New    | Normal   | TX Tags  |            | 09/25/2018 04:01 PM |                  |
| 2913 | OsmocomBB                       | Feature | New    | Low      | Add a tool that decodes Cell Broadcasts (SMSCB)  |            | 09/29/2018 09:31 AM | Related to #3564 |
| 3602 | OsmoSTP                         | Feature | New    | Low      | M2UA support   |            | 09/30/2018 08:00 AM |                  |
| 2451 | Cellular Network Infrastructure | Feature | New    | Low      | Add static builds to jenkins jobs  | osmith     | 09/30/2018 08:18 AM |                  |
| 2391 | OsmoMSC                         | Feature | New    | Low      | add osmocom specific TLVs to A-interface for BTS/TS and subscriber details                     |            | 10/02/2018 03:40 PM |                  |
| 3609 | OsmoSTP                         | Feature | New    | Low      | Support for C-Link   |            | 10/03/2018 08:58 AM |                  |
| 3607 | OsmoSTP                         | Feature | New    | Normal   | Support for capability point codes   |            | 10/03/2018 08:58 AM |                  |
| 3606 | OsmoSTP                         | Feature | New    | Normal   | Support for multiple NI (network indicator)  |            | 10/03/2018 08:58 AM |                  |
| 3603 | OsmoSTP                         | Feature | New    | Low      | M2PA support   |            | 10/03/2018 08:58 AM | Related to #3603 |

| #    | Project                         | Tracker | Status  | Priority | Subject   | Assignee | Updated             | Related issues  |
|------|---------------------------------|---------|---------|----------|---|----------|---------------------|---|
| 3399 | OsmocomBB                       | Feature | Stalled | High     | mobile: refactor / finish external MNCC handler implementation  | fixeria  | 10/04/2018 09:07 PM |   |
| 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  |
| 3387 | OsmocomBB                       | Feature | New     | Low      | osmocon: Use libosmocore logging system   |          | 10/05/2018 04:21 PM |   |
| 3636 | OsmoMSC                         | Feature | New     | Normal   | detailed call statistics (with rate counters)   | osmith   | 10/08/2018 11:14 AM | Related to #3636  |
| 3649 | OsmoHLR                         | Feature | New     | Low      | Investigate LMDB as HLR data storage  |          | 10/12/2018 11:35 AM | Related to #3649  |
| 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  |
| 3485 | OsmoBSC                         | Feature | New     | Low      | handover to make room for a less capable subscriber   |          | 10/16/2018 01:16 PM | Related to #3485  |
| 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                                   |
| 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                  |
| 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  |
| 2378 | OsmocomBB                       | Feature | New     | Normal   | Remove copy-pasted libosmocore ("git subtree") from osmocom-bb.git  |          | 10/24/2018 02:13 PM |   |
| 3687 | OsmoMSC                         | Feature | New     | Normal   | Expand "show bsc" command   |          | 11/11/2018 09:50 PM |   |
| 1587 | OsmoSGSN                        | Feature | Stalled | Normal   | SMS over GPRS support   |          | 11/25/2018 08:14 PM | Related to #3587  |
| 1597 | OsmoMSC                         | Feature | Stalled | Low      | External interface for USSD   | fixeria  | 11/27/2018 11:08 PM | Related to #1597,Related to #3433                                   |
| 3445 | OsmoMSC                         | Feature | Stalled | Normal   | SS/USSD: clean up the local GSM 04.80 API   |          | 12/14/2018 01:57 PM |   |
| 3738 | OsmoMSC                         | Feature | New     | Normal   | Clarify PS-part of struct vlr_subscr  |          | 12/19/2018 12:34 PM |   |
| 3747 | UmTRX                           | Feature | New     | Normal   | LMS6002D RX Gain Control  | ipse     | 01/08/2019 09:46 AM |   |
| 3586 | OsmoBSC                         | Feature | New     | Normal   | support LCLS for inter-BSC handover   | neels    | 01/17/2019 04:18 PM | Related to #3586,Related to #3659                                   |
| 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 |



| #    | Project                         | Tracker | Status | Priority | Subject   | Assignee | Updated             | Related issues                                 |
|------|---------------------------------|---------|--------|----------|---|----------|---------------------|--|
| 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 |  |
| 3802 | gr-osmosdr                      | Feature | New    | Normal   | New release   | horiz0n  | 02/15/2019 07:22 AM |  |
| 3845 | libosmocore                     | Feature | New    | Low      | Unified logging in Gb NS / BSSGP code   |          | 03/16/2019 02:33 PM |  |
| 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                                   |
| 3885 | osmo-remsim                     | Feature | New    | Normal   | remsim-server should expose status information  | laforge  | 04/01/2019 07:23 PM | Precedes #3885                                 |
| 3688 | OsmoSGSN                        | Feature | New    | Low      | move generic gtpub code to libosmocore  |          | 04/15/2019 07:29 AM |  |
| 3755 | OsmoMSC                         | Feature | New    | Low      | make retrieval of IMEISV configurable   |          | 05/07/2019 12:28 PM | Related to #3755                               |
| 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                               |
| 3987 | libosmocore                     | Feature | New    | Low      | introduce libosmocore_init() to replace individual initialization calls                                 |          | 05/08/2019 03:03 PM | Related to #3987                               |
| 3988 | OsmoMSC                         | Feature | New    | Low      | change the remaining DEBUG() statements to LOG_MSC_A() / LOG_MSC_A_CAT()                                |          | 05/08/2019 03:26 PM |  |
| 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                                 |
| 3884 | osmo-remsim                     | Feature | New    | Normal   | redesign bankd thread architecture  | laforge  | 05/08/2019 03:31 PM | Related to #5527,Precedes #3885,Precedes #3886 |
| 4014 | OsmoBTS                         | Feature | New    | Low      | Allow multiple [virtual] BTS instances on same [SDR] hardware that supports multiple TRX                |          | 05/21/2019 12:07 PM |  |
| 4033 | OsmoGGSN (former OpenGGSN)      | Feature | New    | Normal   | ttn3-ggsn-test: Add tests to verify secondary pdp context management                                    |          | 05/30/2019 03:19 PM |  |
| 4065 | OsmoMSC                         | Feature | New    | Normal   | osmo-msc: Support instructing MSC_MGW to use Osmux between 2 endp/call-leg of same voice call           | pespin   | 06/19/2019 04:54 PM | Related to #4065                               |
| 4105 | libosmocore                     | Feature | New    | Normal   | Support for LTE key derivation functions  | laforge  | 07/13/2019 02:07 AM | Related to #4105                               |
| 3604 | OsmoSTP                         | Feature | New    | Normal   | Global Title Routing  |          | 07/18/2019 05:15 AM |  |
| 3605 | OsmoSTP                         | Feature | New    | Normal   | Global Title Translation  |          | 07/18/2019 05:15 AM |  |
| 1590 | Cellular Network Infrastructure | Feature | New    | Low      | Extension of Control Interface / external SNMP agent  |          | 07/18/2019 05:22 AM |  |
| 3597 | gr-osmosdr                      | Feature | New    | Low      | rtl: send final samples when device is lost   | horiz0n  | 07/18/2019 05:35 AM |  |
| 2000 | libosmo-sccp + libosmo-sigtran  | Feature | New    | Low      | use m3ua-testtool for the ASP-side verification   |          | 07/18/2019 05:42 AM |  |
| 3165 | OsmoMSC                         | Feature | New    | Low      | Verify LU Request's LAI   | osmith   | 07/18/2019 05:48 AM | Related to #3164                               |
| 1568 | OsmoBTS                         | Feature | New    | Low      | Move various code bits to libosmocore   | fixeria  | 07/18/2019 06:08 AM |  |
| 1926 | OsmoBTS                         | Feature | New    | Low      | unify *_mgr code  |          | 07/18/2019 06:08 AM |  |
| 3732 | OsmoHLR                         | Feature | New    | Low      | Support tacdb query in HLR  |          | 07/18/2019 06:12 AM | Related to #3732                               |

| #    | Project                         | Tracker | Status      | Priority | Subject  | Assignee | Updated             | Related issues  |
|------|---------------------------------|---------|-------------|----------|--|----------|---------------------|---|
| 1603 | OsmoMSC                         | Feature | New         | Low      | Interfacing the MSC with other networks: Roaming interfaces / MAP              |          | 07/18/2019 06:13 AM |   |
| 1973 | OsmoMSC                         | Feature | New         | Low      | VLR: efficient subscriber lookup   |          | 07/18/2019 06:15 AM | Related to #1973  |
| 4128 | OsmoHNBGW                       | Feature | New         | Low      | Add support of Huawei hNodeB protocol  |          | 07/24/2019 03:39 PM |   |
| 25   | OsmoMSC                         | Feature | New         | Low      | Call HOLD / RETRIEVE support for internal MNCC                                 |          | 08/01/2019 03:06 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 |   |
| 3962 | OsmoTRX                         | Feature | New         | Low      | osmo-trx: Use gcc attribute no_sanitize to run fine with ASan enabled          |          | 08/26/2019 02:04 PM |   |
| 3670 | Cellular Network Infrastructure | Feature | New         | Low      | TTCN-3 tests for statsd exporter code  |          | 09/04/2019 09:03 AM |   |
| 3620 | OsmoMSC                         | Feature | Stalled     | Normal   | Implement TTCN-3 testsuite for Inter-MSC HO                                    | neels    | 09/04/2019 09:08 AM |   |
| 4189 | OsmoBSC                         | Feature | New         | Low      | TTCN-3 tests for load-based hand-over in BSC                                   |          | 09/04/2019 09:10 AM | Related to #4189  |
| 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 |
| 1823 | OsmoPCU                         | Feature | Stalled     | Low      | Ericsson PCU TRAU frame encoding/decoding                                      |          | 09/04/2019 09:26 AM | Related to #5198  |
| 2580 | OsmoMGW                         | Feature | New         | Low      | implement timeout/resend mechanism for mgcp_client                             |          | 09/04/2019 09:26 AM |   |
| 1667 | OsmoNITB                        | Feature | New         | Normal   | Handle callref better  |          | 09/04/2019 09:31 AM | Related to #3294  |
| 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 |   |
| 4200 | OsmoMSC                         | Feature | In Progress | Normal   | Work around nano3G-S16 requiring RAB ID to be below 16                         | efistokl | 09/14/2019 09:48 AM |   |
| 3977 | OsmoCBC                         | Feature | New         | High     | SABP stream delineation routines   | laforge  | 09/23/2019 04:49 AM | Related to #3979,Related to #4944                           |
| 4196 | OsmoMSC                         | Feature | New         | Normal   | CC Setup, Call Confirmed: decode and use the Supported Codec List IE           |          | 09/25/2019 05:27 PM |   |
| 4242 | BBS-Revival                     | Feature | New         | Low      | offer CCC event schedule (Fahrplan) as gopher service                          |          | 10/28/2019 09:22 AM |   |
| 2946 | OsmoGGSN (former OpenGGSN)      | Feature | New         | Low      | Add test suite for sgsnemu   | pespin   | 11/21/2019 05:03 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  |
| 3658 | Cellular Modem Information      | Feature | New         | Low      | Create a "osmocom-bb-host-latest" docker container                             |          | 12/01/2019 09:07 AM | Related to #3658  |
| 3227 | Cellular Network Infrastructure | Feature | New         | Normal   | general idea: separate GSUP spec document                                      | roh      | 12/01/2019 09:26 AM | Is duplicate of #3227                                       |

| #    | Project                         | Tracker | Status   | Priority | Subject   | Assignee   | Updated             | Related issues                                     |
|------|---------------------------------|---------|----------|----------|---|------------|---------------------|--|
| 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 |  |
| 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                  |
| 4275 | OsmoSTP                         | Feature | New      | Low      | Add TTCN3 STP_Tests_IPA.TC_tmt_broadcast  | pespin     | 12/01/2019 11:04 AM |  |
| 1987 | libosmocore                     | Feature | New      | Normal   | gcov code coverage test support   |            | 12/01/2019 01:42 PM | Related to #1987,Is duplicate of #1987             |
| 2861 | OsmoGSMTester                   | Feature | New      | Normal   | osmo-gsm-tester: Add 3g support for sysmocell-5k  |            | 12/02/2019 01:36 PM | Related to #2860                                   |
| 3887 | osmo-remsim                     | Feature | New      | Low      | remsim-client: allow for local handling of APDUs  | laforge    | 12/03/2019 12:20 AM |  |
| 1460 | SIMtrace 2                      | Feature | New      | Normal   | include some version information / negotiation in the USB protocol                                  | laforge    | 12/06/2019 01:39 PM | Related to #1461,Related to #4041                  |
| 3847 | Miscellaneous Projects          | Feature | New      | Normal   | Osmocom logo with/for black background  | tsaitgaist | 12/10/2019 11:53 AM |  |
| 2799 | linmodem                        | Feature | New      | Normal   | SIP client support  |            | 01/01/2020 08:05 PM |  |
| 4336 | OsmoMSC                         | Feature | New      | Normal   | Convert vlr_lu_fsm.c to use osmo_tdef (and drop vlr_timer())  |            | 01/02/2020 05:32 PM | Related to #4337                                   |
| 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 |  |
| 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                  |
| 2712 | libosmocore                     | Feature | New      | Low      | implement reproducible talloc context printout, i.e. without memory addresses                       |            | 01/08/2020 10:21 PM | Related to #2781                                   |
| 3699 | Cellular Network Infrastructure | Feature | Stalled  | Low      | merge Debian patches  | Hoernchen  | 01/08/2020 10:24 PM | Related to #3699,Related to #3753                  |
| 3352 | OsmoMGW                         | Feature | Feedback | Low      | osmo-mgw does not allow multiple codecs in LCO  | neels      | 01/08/2020 10:25 PM |  |
| 1560 | OsmoPCU                         | Feature | New      | High     | EDGE benchmarking / performance optimization / tuning   |            | 01/08/2020 10:31 PM |  |
| 3564 | OsmoGSMTester                   | Feature | New      | Normal   | Investigate ofono and modems Cell Broadcast support   |            | 01/08/2020 10:42 PM | Related to #3564                                   |
| 1543 | OsmoPCU                         | Feature | New      | Normal   | link/rate adaption as per spec  |            | 01/08/2020 10:43 PM | Related to #1543,Related to #1543                  |
| 1655 | OsmoSGSN                        | Feature | Stalled  | Normal   | KPIs for OsmoSGSN   |            | 01/08/2020 10:49 PM | Related to #1652,Related to #1655,Related to #1655 |
| 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 |  |

| #    | Project                         | Tracker | Status      | Priority | Subject  | Assignee | Updated             | Related issues  |
|------|---------------------------------|---------|-------------|----------|--|----------|---------------------|---|
| 1687 | osmo-sip-connector              | Feature | New         | Low      | osmo-sip-connector: Explore 3-way conference call                          |          | 01/08/2020 10:56 PM |   |
| 1902 | OsmoBTS                         | Feature | New         | Low      | unify/refactor dynamic timeslot code                                       |          | 01/08/2020 10:56 PM | Related to #1902,Related to #3099                               |
| 1812 | OsmoNITB                        | Feature | New         | Normal   | Report gsm0408_dispatch() failures to MS / UE                              |          | 01/08/2020 10:56 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              |
| 4124 | OsmoBSCNAT                      | Feature | New         | Normal   | OsmoBSCNAT : Write user manual   |          | 01/08/2020 10:56 PM | Related to #4124  |
| 4356 | libosmo-sccp + 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  |
| 1555 | OsmoPCU                         | Feature | New         | Low      | Add support for unacknowledged RLC Mode                                    |          | 01/22/2020 02:59 PM |   |
| 4374 | OsmoMSC                         | Feature | New         | Normal   | send GSUP PurgeMS Request (CN-Domain = CS) to the HLR upon IMSI-Detach     |          | 01/23/2020 03:19 AM |   |
| 4376 | Cellular Network Infrastructure | Feature | New         | Normal   | Define distinct X timer numbers across all osmo programs                   |          | 01/23/2020 09:21 PM |   |
| 1530 | OsmoPCU                         | Feature | New         | Low      | Assign same TFI number in downlink/uplink                                  |          | 01/26/2020 08:50 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 |   |
| 3666 | OsmocomBB                       | Feature | New         | Normal   | trxcon: Introduce VTY interface  | fixeria  | 02/26/2020 02:43 PM | Related to #3667  |
| 4418 | OsmocomBB                       | Feature | New         | Normal   | test-sim: support all libosmocom algorithms (comp128 v1, v2, v3; MILENAGE) |          | 02/26/2020 11:41 PM |   |
| 2379 | OsmocomBB                       | Feature | New         | Normal   | package as .deb  |          | 02/27/2020 02:39 PM |   |
| 2604 | Cellular Network Infrastructure | Feature | Stalled     | High     | GSUP-to-DIAMETER converter / IWF   | laforge  | 02/29/2020 11:27 AM | Related to #5646  |
| 4433 | OsmoGGSN (former OpenGGSN)      | Feature | New         | Normal   | sgsnemu: Add support for IPv4v6 EUAs                                       |          | 03/04/2020 10:44 AM |   |
| 4458 | Core testing infrastructure     | Feature | New         | Low      | Set up a STF (Smartphone Testing Farm)                                     |          | 03/18/2020 02:44 PM |   |
| 2356 | OsmoBTS                         | Feature | New         | Low      | have per-SAPI logging in OsmoBTS DL1P / DL1C                               | osmith   | 03/19/2020 08:06 PM | Related to #2355  |
| 1903 | OsmoPCU                         | Feature | New         | Low      | convert c++ -> c   |          | 03/23/2020 10:48 PM |   |
| 1545 | OsmoPCU                         | Feature | Stalled     | Normal   | continuous timing advance loop using PTCCH                                 | fixeria  | 03/24/2020 09:49 PM | Related to #1545,Related to #4102,Related to #4500,Blocks #1545 |
| 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  |
| 4455 | OP25                            | Feature | New         | Normal   | AMBE CODEC   |          | 03/28/2020 09:53 PM |   |

| #    | Project                    | Tracker | Status   | Priority | Subject  | Assignee | Updated             | Related issues   |
|------|----------------------------|---------|----------|----------|--|----------|---------------------|--|
| 4473 | OsmoBTS                    | Feature | New      | Low      | Support for broadcast of MOCN related SI21/22/23   |          | 03/29/2020 07:39 PM | Related to #4473   |
| 2612 | OsmoGSMTester              | Feature | New      | Low      | Allow skipping pcaps by configuration if access to tcpdump is not wanted                   |          | 04/06/2020 11:25 AM |  |
| 2200 | OsmoGSMTester              | Feature | New      | Low      | osmo-gsm-tester: allow collecting statistics / KPI of a test case                          |          | 04/06/2020 04:57 PM | Related to #2201   |
| 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  |
| 4489 | IMSI Pseudonymization      | Feature | New      | Normal   | Specification: mark mandatory parts / implementation details as such                       |          | 04/16/2020 08:44 AM |  |
| 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 |  |
| 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   |
| 4479 | IMSI Pseudonymization      | Feature | New      | Normal   | Applet: change IMSI after receiving SMS  |          | 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 |  |
| 4486 | IMSI Pseudonymization      | Feature | New      | Normal   | Applet: gracefully handle case where timer is set twice                                    |          | 04/16/2020 08:45 AM |  |
| 4403 | IMSI Pseudonymization      | Feature | Feedback | Normal   | OsmoHLR: How to interface with SMS service?  |          | 04/16/2020 08:45 AM | Blocks #4477   |
| 4477 | IMSI Pseudonymization      | Feature | New      | Normal   | OsmoHLR: send next pseudo IMSI via SMS   |          | 04/16/2020 08:45 AM | Blocks #4477,Blocks #4477  |
| 4496 | osmo-uecaps                | Feature | New      | Low      | implement filters for sharing as single tun device between multiple bearers                | laforge  | 04/17/2020 08:31 AM |  |
| 4498 | osmo-uecaps                | Feature | New      | Normal   | IPv6 neighbor discovery  | laforge  | 04/17/2020 08:33 AM |  |
| 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   |
| 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   |
| 4525 | Cellular Modem Information | Feature | New      | Normal   | MTK  |          | 05/03/2020 03:57 PM | Is duplicate of #4525  |
| 4551 | OsmoMGW                    | Feature | New      | Normal   | Dynamic/runtime allocation of new endpoints  |          | 05/14/2020 10:56 PM |  |
| 2977 | OsmoBTS                    | Feature | Stalled  | Normal   | OsmoBTS measurement processing at L1SAP too complex / pass measurements along with data    | dexter   | 05/18/2020 06:47 PM | Related to #2977,Related to #2977,Related to #3530,Related to #3428,Related to #3395,Related to #2977,Related to #3803 |
| 4306 | Distributed GSM            | Feature | Stalled  | Low      | GSUP proxy cache: store data persistently  |          | 05/20/2020 09:18 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   |
| 4493 | IMSI Pseudonymization      | Feature | New      | Normal   | Specification: Cover 2G, 3G and 4G separately  | neels    | 05/27/2020 01:11 PM |  |
| 4494 | IMSI Pseudonymization      | Feature | New      | Normal   | Specification: Add bibliography  | neels    | 05/27/2020 01:11 PM |  |

| #    | Project                         | Tracker | Status  | Priority | Subject   | Assignee | Updated             | Related issues   |
|------|---------------------------------|---------|---------|----------|---|----------|---------------------|--|
| 4495 | IMSI Pseudonymization           | Feature | New     | Normal   | Specification: More references  | neels    | 05/27/2020 01:11 PM |  |
| 4580 | SDR (Software Defined Radio)    | Feature | New     | Normal   | gr-osmosdr compilation under GnuRadio 3.9.0   |          | 06/04/2020 01:13 AM |  |
| 4588 | OsmoHLR                         | Feature | New     | Low      | OsmoHLR doesn't appear to have any statistics / counters  |          | 06/06/2020 09:44 AM |  |
| 4587 | Cellular Network Infrastructure | Feature | New     | Low      | Add port numbers to /etc/services during installation   |          | 06/08/2020 10:28 AM | Related to #5013   |
| 39   | OsmoBSC                         | Feature | New     | Low      | Logging filter on bts/trx or such   |          | 06/08/2020 07:07 PM |  |
| 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              |
| 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                                   |
| 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 |
| 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  |
| 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  |
| 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   |
| 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 |  |
| 4608 | libosmo-sccp + libosmo-sigtran  | Feature | New     | Low      | "action" commands to interactively shutdown/re-enable/restart sigtran connections               | laforge  | 06/10/2020 01:12 PM |  |
| 1583 | OsmoSGSN                        | Feature | New     | Normal   | Gs interface (BSSMAP+) between SGSN and MSC/VLR   |          | 06/13/2020 05:52 PM | Related to #1583,Related to #1583,Related to #4485                               |
| 1599 | OsmoMSC                         | Feature | New     | Normal   | Gs interface (BSSMAP+) between SGSN and MSC/VLR   |          | 06/13/2020 05:52 PM | Related to #1583,Related to #1747,Related to #1599,Related to #4485              |
| 4536 | OsmoBSC                         | Feature | New     | Normal   | Multi BTS support within a single physical device   |          | 06/21/2020 01:10 PM |  |

| #    | Project                        | Tracker | Status  | Priority | Subject   | Assignee | Updated             | Related issues                    |
|------|--------------------------------|---------|---------|----------|---|----------|---------------------|-----------------------------------|
| 4632 | OsmoMSC                        | Feature | New     | Normal   | update the cell id in the VLR when receiving BSSMAP HANDOVER PERFORMED from the BSC   |          | 06/24/2020 12:35 PM | Related to #4632                  |
| 4633 | OsmoMSC                        | Feature | New     | Normal   | update the Cell ID in the VLR after an inter-BSC / inter-MSC handover   |          | 06/24/2020 12:40 PM |                                   |
| 4634 | OsmoMSC                        | Feature | New     | Low      | lu: record SAC, and show RNC ID and SAC in the vty upon 'show subscriber'   |          | 06/24/2020 06:08 PM |                                   |
| 4635 | libosmo-sccp + libosmo-sigtran | Feature | New     | Normal   | quirks when initializing SS7 ASP  |          | 06/25/2020 04:46 PM | Related to #4635                  |
| 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      | SI2quarter: 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 |                                   |
| 4678 | osmo-clock-gen                 | Feature | New     | Low      | Increase mounting hole size to support M3 screws  | mschramm | 07/25/2020 08:43 PM |                                   |
| 4682 | OsmoBSC                        | Feature | New     | Low      | OM2000 MCTR Support for Ericsson RBS6000 / DUG 20   |          | 07/30/2020 06:51 AM | Precedes #4682                    |
| 4717 | OsmoMSC                        | Feature | New     | Normal   | support Handover with changing codec  |          | 08/18/2020 05:14 PM | Related to #4717                  |
| 4762 | osmo-sip-connector             | Feature | New     | Low      | Osmo Analog Support   |          | 09/25/2020 07:31 AM | Related to #4763                  |
| 1546 | OsmoPCU                        | Feature | New     | Low      | closed loop uplink power control  |          | 09/30/2020 08:05 PM |                                   |
| 4504 | OsmoTRX                        | Feature | New     | Low      | Buidl LimeSuite without GUI in osmocom feeds  |          | 09/30/2020 08:08 PM |                                   |
| 4362 | OsmoTRX                        | Feature | Stalled | Normal   | osmo-trx-lms: Support multi-arfcn feature   |          | 09/30/2020 08:09 PM | Related to #4362,Related to #4362 |
| 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 |                                   |
| 4812 | OsmoPCU                        | Feature | New     | Low      | RTTI (Reduced Transmission Time Interval) Support   |          | 10/16/2020 08:43 AM |                                   |
| 4813 | OsmoPCU                        | Feature | New     | Low      | FANR (Fast ACK/NACK Reporting) support  |          | 10/16/2020 08:46 AM |                                   |
| 4809 | osmo-clock-conv                | Feature | New     | Low      | alignment of DC barrel with face plate  | laforge  | 10/16/2020 05:29 PM | Related to #4814                  |
| 1686 | osmo-sip-connector             | Feature | New     | Normal   | osmo-sip-connector: Implement call holding on SIP   |          | 10/20/2020 08:36 AM |                                   |
| 1912 | SIMtrace 2                     | Feature | Stalled | Low      | do proper re-layout of the board  | mschramm | 10/20/2020 08:39 AM | Related to #4118                  |
| 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                  |
| 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                  |
| 3069 | OsmoMSC                        | Feature | New     | Normal   | investigate multiple CM Service Request on the same conn  | neels    | 10/28/2020 08:36 PM | Is duplicate of #3069             |
| 2840 | OsmoHLR                        | Feature | New     | Low      | HLR should allow 2g-only or 3g-only subscribers   | neels    | 10/28/2020 09:22 PM |                                   |
| 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                  |

| #    | Project       | Tracker | Status  | Priority | Subject   | Assignee | Updated             | Related issues                    |
|------|---------------|---------|---------|----------|---|----------|---------------------|-----------------------------------|
| 4846 | OsmoPCU       | Feature | New     | Normal   | change RBB received block bitmap into 1s when everything was acked            |          | 11/04/2020 02:29 AM |                                   |
| 4488 | OsmoPCU       | Feature | New     | Normal   | have uplink/downlink tests for all CS/MCS                                     |          | 11/25/2020 07:28 PM | Related to #4488,Related to #4510 |
| 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 |
| 4893 | osmo-gbproxy  | Feature | New     | Low      | gbproxy2: Make feature bitmap configurable                                    |          | 12/08/2020 07:55 AM | Related to #4893                  |
| 4900 | OsmoGSMTester | Feature | New     | Low      | hardware and wiring verification / selftest                                   |          | 12/08/2020 11:03 AM |                                   |
| 2394 | OsmoHNBGW     | Feature | New     | Low      | Implement SABP (Service Area Broadcast Protocol)                              | laforge  | 12/30/2020 01:19 AM | Related to #2392,Related to #3979 |
| 4596 | OsmocomTETRA  | Feature | New     | Normal   | Port to GR3.8   |          | 01/08/2021 05:23 PM |                                   |
| 4944 | OsmoCBC       | Feature | New     | Low      | 3G SABP support in OsmoCBC  | laforge  | 01/13/2021 09:13 AM | Related to #4944,Related to #4944 |
| 1579 | OsmoBTS       | Feature | New     | Low      | Use epoll   |          | 01/15/2021 01:44 PM |                                   |
| 4521 | osmo-gbproxy  | Feature | New     | Normal   | gbproxy: Redundancy between NS-VCs (SGSN Side)                                | laforge  | 01/19/2021 05:24 PM | Related to #4959                  |
| 3831 | OsmoBSC       | Feature | New     | Low      | BSC support for "network sharing" via MOCN                                    |          | 01/20/2021 10:03 AM | Related to #4473                  |
| 4961 | osmo-gbproxy  | Feature | New     | Normal   | gbproxy support for "network sharing" via MOCN                                |          | 01/20/2021 08:38 PM |                                   |
| 4967 | OsmoPCU       | Feature | New     | Normal   | osmo-pcu: Avoid sending new DL EGPRS blocks to MS announcing MS_OUT_OF_MEMORY |          | 01/21/2021 02:26 PM |                                   |
| 4978 | OsmoBSC       | Feature | New     | Low      | Support for generating BSSMAP LOAD INDICATION                                 |          | 01/27/2021 02:40 PM | Related to #4979,Related to #4980 |
| 4979 | OsmoBSC       | Feature | New     | Low      | Support for parsing incoming BSSMAP LOAD INDICATION                           |          | 01/27/2021 02:41 PM | Related to #4979,Related to #4980 |
| 4980 | OsmoMSC       | Feature | New     | Low      | Implement routing of BSSMAP LOAD INDICATION in OsmoMSC                        |          | 01/27/2021 02:43 PM | Related to #4980,Related to #4980 |
| 4982 | OsmoMSC       | Feature | New     | Low      | Support for BSSMAP RESOURCE INDICATION  |          | 01/27/2021 03:01 PM | Related to #4982                  |
| 4981 | OsmoBSC       | Feature | New     | Low      | Support for generating BSSMAP RESOURCE INDICATION                             |          | 01/27/2021 03:02 PM | Related to #4982                  |
| 4983 | OsmoMSC       | Feature | New     | Low      | PERFORM LOCATION REQUEST / RESPONSE   |          | 01/28/2021 11:44 AM |                                   |
| 4986 | OsmoBTS       | Feature | New     | Low      | No TTCN3 tests of AMR rate/link adaptation                                    |          | 01/28/2021 01:36 PM |                                   |
| 4987 | OsmoBTS       | Feature | New     | Low      | No TTCN3 test for AMR DTX FSMs  |          | 01/28/2021 01:37 PM | Related to #5474                  |
| 4988 | OsmoBTS       | Feature | New     | Low      | No TTCN3 test for AMR TFO / DL CMR handling                                   |          | 01/28/2021 01:38 PM |                                   |
| 4989 | OsmoBTS       | Feature | New     | Low      | AMR RATSCCH support   |          | 01/28/2021 01:41 PM |                                   |



| #    | Project                                  | Tracker | Status      | Priority | Subject   | Assignee  | Updated             | Related issues                    |
|------|--|---------|-------------|----------|---|-----------|---------------------|-----------------------------------|
| 3672 | Osmocom Analog                           | Feature | New         | Normal   | Custom announcement and tones   | jolly     | 02/01/2021 10:25 AM |                                   |
| 5012 | osmo-uecups                              | Feature | New         | Low      | use osmo-uecups from GGSN_Tests.ttcn                                      | pespin    | 02/06/2021 10:02 AM | Related to #5012                  |
| 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 |
| 3285 | OsmoPCU                                  | Feature | New         | Normal   | design + implement tools to analyze inter-PCU cell changes                | daniel    | 02/06/2021 11:12 AM | Related to #3284                  |
| 2494 | OsmoGGSN (former OpenGGSN)               | Feature | New         | Low      | IPv6 support on the outer (transport) layer                               |           | 02/06/2021 12:09 PM |                                   |
| 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                  |
| 3714 | Cellular Network Infrastructure          | Feature | New         | Low      | implement Internal Handover With MSC Support                              | neels     | 02/06/2021 02:04 PM | Related to #3714                  |
| 5013 | Cellular Network Infrastructure          | Feature | New         | Low      | investigate "vtysh" for Osmocom   |           | 02/06/2021 02:14 PM | Related to #5013                  |
| 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 |
| 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 |
| 1527 | OsmoPCU                                  | Feature | New         | Low      | Set correct values of the puncturing scheme and the retransmission flag   | pespin    | 02/08/2021 07:10 PM |                                   |
| 1558 | OsmoPCU                                  | Feature | New         | Low      | Generate BSSGP LLC Discarded messages on TBF/MS free                      | osmith    | 02/13/2021 05:44 PM | Related to #4847                  |
| 2601 | libosmo-sccp + libosmo-sigtran           | Feature | New         | Low      | osmo-msc still needs libosmo-sccp-dev for SCCP CAUSE definitions          | laforge   | 02/13/2021 06:07 PM |                                   |
| 1975 | Cellular Network Infrastructure          | Feature | New         | Low      | Redesigned configuration management / MIB                                 | laforge   | 02/16/2021 05:59 PM |                                   |
| 4520 | osmo-gbproxy                             | Feature | In Progress | Normal   | gbproxy: Redundancy between NS-VCs (BSS Side)                             | lynxis    | 02/19/2021 04:50 PM | Related to #4520                  |
| 5045 | Cellular Network Infrastructure          | Feature | New         | Normal   | write libversion "major" on build files automatically based on LIBVERSION | pespin    | 02/24/2021 01:14 PM |                                   |
| 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 |                                   |
| 4103 | libosmocore                              | Feature | New         | Low      | TUAK support as per 3GPP TS 35.231  |           | 03/24/2021 12:33 PM |                                   |
| 4591 | libosmocore                              | Feature | New         | Normal   | Export FSM states and statistics with counters                            |           | 03/24/2021 12:34 PM |                                   |
| 1872 | libosmocore                              | Feature | New         | Low      | high-performance remote logging   |           | 03/24/2021 12:36 PM |                                   |

| #    | Project                     | Tracker | Status      | Priority | Subject  | Assignee  | Updated             | Related issues   |
|------|-----------------------------|---------|-------------|----------|--|-----------|---------------------|--|
| 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 |
| 4692 | Core testing infrastructure | Feature | Stalled     | Normal   | finally implement testing of the actual voice audio path                     | laforge   | 04/19/2021 06:27 PM |  |
| 5122 | OsmoPCU                     | Feature | New         | Normal   | Choose SBA allocation offset based on AGCH queue load in the BTS             | pespin    | 04/20/2021 12:51 PM | Related to #5122   |
| 5143 | Osmocom Analog              | Feature | New         | Low      | Using ADALM PLUTO SDR with osmocom-analog                                    | jolly     | 05/05/2021 05:01 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   |
| 4638 | Altair LTE Modems           | Feature | New         | Normal   | Mikrotik R11e-4G mtd dump  |           | 06/13/2021 10:15 AM |  |
| 5183 | OsmoHLR                     | Feature | New         | Low      | EIR functionality  |           | 06/16/2021 06:22 AM | Related to #5183   |
| 5025 | OsmoBTS                     | Feature | New         | Normal   | Missing TTCN-3 coverage for the Timing Advance loop                          | fixeria   | 07/02/2021 04:28 PM |  |
| 4990 | OsmoBSC                     | Feature | New         | Low      | TTCN3 test for AMR MultiRate IEs in RR and RSL                               |           | 07/02/2021 04:34 PM |  |
| 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  |
| 4522 | osmo-gbproxy                | Feature | Stalled     | High     | gbproxy: Redundancy within proxy pair  | daniel    | 07/09/2021 06:43 PM |  |
| 1573 | OsmoBTS                     | Feature | New         | Low      | ENHANCED MEASUREMENT REPORT  |           | 07/19/2021 04:13 PM |  |
| 4940 | OsmoBSC                     | Feature | Stalled     | High     | VAMOS support in OsmoBSC   | neels     | 08/11/2021 02:47 PM | Related to #4941   |
| 5214 | OsmoMGW                     | Feature | In Progress | Normal   | osmo-mgw multithreading  | Hoernchen | 08/31/2021 09:20 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   |
| 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  |
| 5256 | OsmoBTS                     | Feature | New         | High     | support for random padding in LAPDm downlink messages                        |           | 10/12/2021 11:17 AM | Related to #5256   |
| 5268 | pySim                       | Feature | New         | Normal   | pySim-shell: GlobalPlatform SCP02 support                                    | laforge   | 10/14/2021 07:12 PM | Related to #5268   |
| 5267 | pySim                       | Feature | New         | Normal   | pySim-shell: Ability to deactivate entire applications on the card           |           | 10/14/2021 07:12 PM | Related to #5268   |
| 5127 | pySim                       | Feature | New         | Normal   | tool for "re-formatting" [sysmocom] cards in tester                          | laforge   | 10/14/2021 07:16 PM | Related to #5127   |
| 1997 | OsmoHNBGW                   | Feature | New         | Normal   | Improve error check at compilation time                                      |           | 10/21/2021 04:28 PM |  |
| 5279 | OsmoMGW                     | Feature | New         | Normal   | systemd service / unit for multiple osmo-mgw on one machine                  | osmith    | 10/25/2021 11:41 AM |  |
| 1461 | OsmocomBB                   | Feature | Stalled     | High     | include some version information / negotiation in the L1CTL protocol         | fixeria   | 10/27/2021 10:17 PM | Related to #1461,Related to #5815  |

| #    | Project                                      | Tracker | Status      | Priority | Subject  | Assignee | Updated             | Related issues   |
|------|--|---------|-------------|----------|--|----------|---------------------|--|
| 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 |
| 5283 | OsmoTRX                                      | Feature | New         | Normal   | Implement TRXDv2 support   | fixeria  | 10/27/2021 10:35 PM | Related to #5283   |
| 5156 | OsmoBSC                                      | Feature | New         | Low      | Support intraBSC handover between distinct BTS types                       |          | 11/04/2021 06:27 PM |  |
| 4860 | libosmo-abis                                 | Feature | New         | Low      | Implement separation of line/TEI/datalinks in E1 pcap                      |          | 11/04/2021 06:31 PM |  |
| 4922 | OsmoBSC                                      | Feature | In Progress | Normal   | Implement MS Power Control   | keith    | 11/04/2021 06:37 PM |  |
| 5291 | rtl-sdr                                      | Feature | New         | Normal   | Ship the udev rules upstream   | steve-m  | 11/05/2021 11:04 AM |  |
| 5307 | Ericsson RBS 6xxx                            | Feature | New         | Normal   | Support for Multiple Sectors at an RBS site.                               |          | 11/13/2021 08:20 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 |  |
| 5128 | Core testing infrastructure                  | Feature | New         | Low      | dec_RlcMacDlCtrlBlock: Get rid of annoying warning about remaining padding |          | 12/09/2021 09:14 PM |  |
| 5323 | Core testing infrastructure                  | Feature | New         | Normal   | Add docker image containing titan.core master                              |          | 12/15/2021 04:43 PM | Related to #6187   |
| 5047 | OsmoSDR                                      | Feature | New         | Normal   | Inconsistencies between SDR's in bias-tee parameter                        |          | 12/19/2021 01:17 PM |  |
| 5370 | osmo-lab-rack                                | Feature | New         | Low      | component carrier USB hub  |          | 12/23/2021 06:30 PM |  |
| 5371 | osmo-lab-rack                                | Feature | New         | Low      | component carrier USB-UART   |          | 12/23/2021 06:31 PM |  |
| 5372 | osmo-lab-rack                                | Feature | New         | Low      | AC power supply  |          | 12/23/2021 06:33 PM |  |
| 4535 | OsmoMGW                                      | Feature | In Progress | Low      | Develop "E1/Abis generator"  | laforge  | 01/02/2022 01:57 PM | Precedes #2547   |
| 5395 | OsmocomDECT                                  | Feature | New         | Normal   | Support for LMX3161  |          | 01/09/2022 12:55 PM |  |
| 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   |
| 5403 | OsmoMSC                                      | Feature | New         | Normal   | Can't connect Call from 2G to 4G network                                   | laforge  | 01/14/2022 10:41 PM |  |
| 5422 | SIMtrace 2                                   | Feature | In Progress | Normal   | "cardem" continuous testing setup  | laforge  | 01/27/2022 12:22 PM | Related to #5422   |
| 4226 | Retronetworking                              | Feature | New         | Low      | STM-1 / USB interface?   |          | 01/30/2022 10:14 AM |  |
| 5427 | OCTOI - Osmocom Community TDM over IP        | Feature | New         | Low      | STUN/TURN/ICE for peer-to-peer connections                                 |          | 01/30/2022 10:43 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 |  |
| 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 |  |

| #    | Project                               | Tracker | Status      | Priority | Subject  | Assignee | Updated             | Related issues  |
|------|---------------------------------------|---------|-------------|----------|--|----------|---------------------|---|
| 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 |   |
| 5446 | Cellular Network Infrastructure       | Feature | New         | Normal   | correlate git version to ttcn3 tests   |          | 02/07/2022 09:40 PM | Related to #5446  |
| 5466 | OsmocomBB                             | Feature | New         | Normal   | CP2102N evaluation for burst_ind baudrate  | laforge  | 02/22/2022 07:17 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  |
| 2542 | OsmoHLR                               | Feature | Stalled     | Low      | have subscriber create-on-demand   | osmith   | 03/10/2022 03:40 PM | Related to #2541,Related to #5183                                   |
| 5487 | OsmoSGSN                              | Feature | New         | Low      | get rid of osmo-ih.git's iu_client API and absorb into OsmoSGSN                  |          | 03/10/2022 06:05 PM |   |
| 5489 | linmodem                              | Feature | New         | Low      | linmodem mISDN integration   |          | 03/13/2022 09:35 PM |   |
| 4941 | OsmoBTS                               | Feature | Stalled     | Normal   | VAMOS support in OsmoBTS   | fixeria  | 03/18/2022 01:19 AM | Related to #4941,Related to #4941,Blocks #4941                      |
| 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 |
| 5480 | Open Source IMS Client                | Feature | In Progress | High     | Linux kernel IPsec plugin for doubango   | laforge  | 03/25/2022 10:44 AM |   |
| 5481 | Open Source IMS Client                | Feature | New         | Urgent   | SIM card interface for doubango  | laforge  | 03/25/2022 11:00 AM | Related to #5482  |
| 5507 | libosmocore                           | Feature | New         | Normal   | Optimize reset time after SGSN is restarted                                      | lynxis   | 03/31/2022 12:33 PM |   |
| 5435 | OCTOI - Osmocom Community TDM over IP | Feature | New         | Low      | use DNS to resolve the server  |          | 04/05/2022 08:20 PM |   |
| 4917 | osmo-e1d                              | Feature | Stalled     | Normal   | reporting of alarms/errors known to the icE1usb                                  | laforge  | 04/10/2022 10:36 AM |   |
| 5545 | Retronetworking                       | Feature | New         | Low      | E1 support for dynamips  |          | 04/24/2022 09:56 AM |   |
| 5546 | OCTOI - Osmocom Community TDM over IP | Feature | New         | Normal   | build frame relay "hub" similar to ISDN "hub"                                    |          | 04/24/2022 03:03 PM |   |
| 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 |   |
| 1974 | OsmoMSC                               | Feature | New         | Low      | VLR: high water mark on subscriber storage                                       |          | 05/15/2022 01:45 PM | Related to #1973  |
| 3648 | OsmoMSC                               | Feature | New         | Low      | persistent VLR (across re-starts of osmo-msc / across power outage)              |          | 05/17/2022 05:39 PM | Related to #3649  |
| 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                  |
| 5586 | OsmoBSC                               | Feature | New         | Normal   | Ericsson RBS could recover Unlocked state without osmo-bsc restart               |          | 06/21/2022 10:23 PM | Related to #5983  |

| #    | Project                                      | Tracker | Status  | Priority | Subject   | Assignee | Updated             | Related issues   |
|------|--|---------|---------|----------|---|----------|---------------------|--|
| 5505 | OsmocomBB                                    | Feature | New     | Normal   | GPRS mobility (cell change) support   |          | 07/01/2022 06:24 AM | Related to #5505   |
| 5614 | osmo-remsim                                  | Feature | New     | Normal   | log also application-level errors   | laforge  | 07/11/2022 08:09 PM |  |
| 5633 | osmo-clock-gen                               | Feature | New     | Normal   | towards a first osmo-clock-gen production batch                                       | laforge  | 07/26/2022 12:39 PM |  |
| 5641 | OsmoCBC                                      | Feature | New     | Normal   | OsmoCBC doesn't yet support reloading cells becoming operational with active messages |          | 08/05/2022 05:10 PM |  |
| 4092 | OsmoMGW                                      | Feature | New     | Normal   | Osmux: Support dynamic allocation of osmux sockets                                    | pespin   | 08/10/2022 07:50 AM | Related to #4092   |
| 5648 | libosmo-pfcp                                 | Feature | New     | Normal   | implement common PFCP CPF client VTY config   |          | 08/17/2022 03:29 PM | Related to #5648   |
| 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  |
| 2409 | OsmocomBB                                    | Feature | Stalled | High     | Add GPRS support to virt_phy and L1CTL  | fixeria  | 08/19/2022 03:06 PM |  |
| 5662 | OsmoUPF                                      | Feature | New     | Normal   | add Linux kernel options to manual  |          | 08/24/2022 03:13 PM |  |
| 4590 | libosmocore                                  | Feature | New     | Normal   | Export talloc data as counters for better memory leakage monitoring in production     |          | 09/12/2022 03:53 PM |  |
| 5682 | OsmoUPF                                      | Feature | New     | Low      | cfg: separate PFCP Node ID from PFCP local address                                    |          | 09/17/2022 02:21 PM | Related to #5682   |
| 5511 | Retronetworking                              | Feature | New     | Low      | Idea: DAHDI backend for mISDN   |          | 09/18/2022 03:59 PM |  |
| 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 |  |
| 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 |  |
| 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   |
| 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   |
| 5710 | E1/T1 Hardware Interface (including icE1usb) | Feature | New     | Normal   | rs422: Merge as much of the gateway in master as possible                             | tnt      | 10/13/2022 06:53 PM | Related to #5710   |
| 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 |
| 5721 | OsmoCBC                                      | Feature | New     | Normal   | CBC messages Geographical Scope and CBS Index   |          | 10/19/2022 07:23 AM |  |
| 5722 | Cellular Network Infrastructure              | Feature | New     | Low      | Migrate jenkins build slaves from docker to podman                                    |          | 10/21/2022 08:29 PM | Related to #5722   |

| #    | Project                               | Tracker | Status      | Priority | Subject   | Assignee  | Updated             | Related issues                     |
|------|---------------------------------------|---------|-------------|----------|---|-----------|---------------------|------------------------------------|
| 5429 | OCTOI - Osmocom Community TDM over IP | Feature | New         | Normal   | authentication in TDMoIP protocol                                 | laforge   | 11/07/2022 05:29 PM |                                    |
| 5488 | Retronetworking                       | Feature | In Progress | Low      | create DAHDI mirror sniffer                                       | laforge   | 11/07/2022 06:04 PM |                                    |
| 5228 | OsmoTRX                               | Feature | New         | Low      | osmo-trx: Missing unit tests for computeCI() and computeEdgeCI()  | Hoernchen | 11/07/2022 06:23 PM |                                    |
| 5746 | Retronetworking                       | Feature | New         | Low      | Create H.221 decoder  |           | 11/07/2022 10:55 PM |                                    |
| 5740 | OsmoBSC                               | Feature | New         | Low      | Disallow unworkable AMR modes.                                    | keith     | 11/08/2022 05:15 PM |                                    |
| 5761 | Core testing infrastructure           | Feature | New         | Normal   | Develop TTCN-3 test suite for SGW                                 |           | 11/09/2022 09:49 PM |                                    |
| 5762 | Core testing infrastructure           | Feature | New         | Normal   | Develop TTCN-3 test suite for PGW                                 |           | 11/10/2022 06:38 PM |                                    |
| 5766 | libosmo-abis                          | Feature | New         | Low      | use Linux kernel KCM for IPA header?                              |           | 11/13/2022 08:15 AM | Related to #5766                   |
| 5276 | SIMtrace 2                            | Feature | Stalled     | Normal   | jenkins CI integration like for osmo-ccid-firmware                | roh       | 11/14/2022 05:24 PM | Related to #5422                   |
| 5771 | Cellular Network Infrastructure       | Feature | New         | Normal   | series of presentations about the individual CNI network elements |           | 11/14/2022 07:25 PM |                                    |
| 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 |
| 5808 | gr-osmosdr                            | Feature | New         | Normal   | New option, for selecting an input channel of a soapy_source_c    |           | 12/05/2022 11:45 AM |                                    |
| 5812 | OsmocomBB                             | Feature | New         | Low      | mobile: missing AMR support                                       |           | 12/06/2022 03:07 PM | Related to #5812                   |

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