

## Issues

| #    | Project  | Tracker | Status   | Priority | Subject  | Assignee | Updated             | Related issues   |
|------|--|---------|----------|----------|--|----------|---------------------|------------------|
| 6442 | OsmoSGSN                                       | Bug     | New      | Normal   | SGSN does not answer to first GMM ATTACH REQUEST   |          | 04/29/2024 01:27 PM |                  |
| 6441 | OsmoSGSN                                       | Bug     | New      | Normal   | use-after-free on RAU with invalid Old RAI   |          | 04/22/2024 01:23 PM | Related to #6441 |
| 6440 | libosmocore                                    | Bug     | Feedback | Normal   | VTY: 'write file' breaks 'show startup-config'   |          | 04/26/2024 04:23 AM |                  |
| 6438 | libosmocore                                    | Bug     | New      | Normal   | write_config_file() calls blocking sync()  |          | 04/26/2024 09:15 AM |                  |
| 6434 | E1/T1 Hardware Interface (including icE1usb)   | Support | New      | Normal   | D-channel do not recover after underrun  |          | 04/27/2024 09:03 PM |                  |
| 6433 | OsmoHNBGW                                      | Bug     | New      | Normal   | DLGLOBAL ERROR counter group 'hnb' already exists for index 0, instead using index 1. This is a software bug that needs fixing. (rate_ctr.c:221) |          | 04/04/2024 11:11 PM |                  |
| 6427 | OsmoMSC  | Bug     | New      | Normal   | ttcn3-msc-test: TC_mo_ussd_for_unknown_trans fails sporadically  |          | 04/02/2024 03:01 PM | Related to #6427 |
| 6420 | OsmoGGSN (former OpenGGSN)                     | Bug     | New      | Low      | osmo-ggsn + pre-configured tun device seems to be broken with kernel gtp-u   |          | 03/26/2024 11:43 AM |                  |
| 6419 | OsmoGGSN (former OpenGGSN)                     | Bug     | New      | Low      | osmo-ggsn removes tun devices it did not create  |          | 03/26/2024 11:26 AM |                  |
| 6418 | pySim  | Bug     | New      | Normal   | osmo-smdpp docs  |          | 03/25/2024 05:54 PM |                  |
| 6411 | Cellular Network Infrastructure                | Bug     | Stalled  | Normal   | ttcn3: execute testsuites with a more realistic link performance   |          | 04/03/2024 06:25 PM |                  |
| 6410 | libosmocore                                    | Bug     | New      | Normal   | osmo_io poll backend doesn't work on file descriptors that are not sockets   |          | 03/19/2024 07:33 PM |                  |
| 6408 | osmo-ePDG - VoWifi Evolved Packet Data Gateway | Feature | New      | Normal   | osmo-epdg: Support check IMEI  |          | 03/15/2024 06:45 PM |                  |
| 6407 | osmo-ePDG - VoWifi Evolved Packet Data Gateway | Feature | New      | Normal   | osmo-epdg: Support Emergency services (no IMSI)  |          | 03/15/2024 06:43 PM |                  |
| 6402 | libosmocore                                    | Feature | New      | Low      | consider using IORING_RECVSEND_POLL_FIRST for our socket-reads   |          | 03/14/2024 08:21 AM |                  |
| 6401 | libosmocore                                    | Feature | New      | Low      | benchmark batching io_uring operations   |          | 03/14/2024 08:10 AM |                  |
| 6398 | pySim  | Bug     | New      | Normal   | Add helper for SwMatchError  |          | 03/09/2024 09:34 PM |                  |
| 6395 | OsmoHNBGW                                      | Feature | New      | Low      | PFCP URR support in osmo-hnbgw   |          | 03/22/2024 08:08 AM | Related to #6395 |
| 6394 | OsmoUPF  | Feature | Stalled  | Low      | Basic URR (Usage Reporting Rule) support for tunnel mapping  |          | 03/22/2024 08:08 AM | Related to #6395 |
| 6390 | libosmocore                                    | Feature | New      | Low      | port CTRL over to osmo_io / io_uring   |          | 03/02/2024 06:45 PM | Related to #6390 |
| 6389 | libosmocore                                    | Feature | New      | Low      | port VTY over to osmo_io / io_uring  |          | 03/02/2024 04:55 PM | Related to #6389 |
| 6388 | libosmocore                                    | Feature | New      | Normal   | stats_reporter via osmo_io / io_uring?   |          | 03/02/2024 04:54 PM | Related to #6388 |
| 6382 | Linux Kernel GTP-U                             | Bug     | Feedback | Normal   | "TC_pdp6_act_deact_gtpu_access" fails with kernel gtp-u  |          | 03/05/2024 04:06 PM |                  |

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| 6380 | OsmoHNBGW                                      | Bug     | New    | Normal   | VTY transcript tests are broken [again]  |          | 02/28/2024 06:57 PM |                                    |
| 6374 | libosmocore                                    | Bug     | New    | Normal   | libosmocore --disable-libsctp not tested by jenkins                            |          | 02/23/2024 03:47 PM |                                    |
| 6372 | OsmocomBB SDR PHY                              | Bug     | New    | Normal   | Cant connect to BS using cell_log and mobile                                   |          | 02/22/2024 07:13 AM |                                    |
| 6367 | pySim  | Feature | New    | Normal   | PC/SC <-> Android OMAPI bridge for pySim and others                            |          | 02/17/2024 01:34 PM |                                    |
| 6360 | libosmocore                                    | Bug     | New    | Normal   | libosmovty fails to parse commands like "test (foo bar [(one two three)])"     |          | 02/14/2024 09:25 PM |                                    |
| 6354 | osmo-ePDG - VoWifi Evolved Packet Data Gateway | Feature | New    | Low      | investigate UE behavior in terms of respecting ePDG configuration on USIM/ISIM |          | 02/07/2024 04:10 PM |                                    |
| 6348 | OsmocomBB                                      | Feature | New    | Normal   | virtphy: add Circuit Switched Data (CSD) support                               |          | 01/26/2024 10:03 PM | Related to #6348                   |
| 6347 | OsmocomBB                                      | Feature | New    | Normal   | mobile: support data calls @ 300 bps and 1200/75 bps (TCH/[FH]2.4)             |          | 01/26/2024 09:54 PM | Related to #6347                   |
| 6346 | OsmocomBB                                      | Feature | New    | Normal   | mobile: support data calls @ 14400 bps (TCH/F14.4)                             |          | 01/26/2024 10:03 PM | Related to #6346, Related to #6346 |
| 6345 | osmo-ePDG - VoWifi Evolved Packet Data Gateway | Feature | New    | Low      | osmo-epdg: Implement SWm interface (Diameter) ePDG <-> AAA                     |          | 01/25/2024 05:22 PM |                                    |
| 6344 | libosmocore                                    | Feature | New    | Normal   | New TS 24.008 Bearer Capability codec API                                      |          | 01/24/2024 11:19 PM | Related to #6344                   |
| 6337 | OsmocomBB                                      | Bug     | New    | High     | bad fr audio with gapk/ms-sdr  |          | 01/22/2024 09:21 PM | Related to #6337                   |
| 6332 | osmo-ePDG - VoWifi Evolved Packet Data Gateway | Feature | New    | Normal   | osmo-epdg: Write User Manual   |          | 01/18/2024 04:15 PM | Related to #6332                   |
| 6330 | OsmoMSC  | Bug     | New    | Normal   | Incorrect handling of V.120 data calls   |          | 01/18/2024 03:02 PM | Related to #6344                   |
| 6329 | rtl-sdr  | Bug     | New    | Normal   | rtl_sdr does not have correct rpath set on OSX build                           |          | 01/12/2024 09:57 PM |                                    |
| 6328 | OsmoBSC  | Bug     | New    | Normal   | Channel Mode Modify fails to modify the RTP payload type number                |          | 01/12/2024 06:24 AM | Related to #6328                   |
| 6323 | OP25   | Bug     | New    | Normal   | Install script is broken on Ubuntu 23.10                                       |          | 01/05/2024 07:54 PM |                                    |
| 6322 | pySim  | Bug     | New    | Low      | ATR type annotation  |          | 01/03/2024 09:55 PM |                                    |
| 6321 | OsmoMSC  | Bug     | New    | Low      | SMS not delivered from corrupted SMS database                                  |          | 01/02/2024 01:07 PM |                                    |
| 6316 | pySim  | Feature | New    | Normal   | include test data in user manual   |          | 12/23/2023 03:10 PM |                                    |
| 6315 | pySim  | Feature | New    | Low      | have test data for all supported files   |          | 12/23/2023 09:36 AM |                                    |
| 6314 | pySim  | Bug     | New    | Low      | pySim-trace doesn't support ARA-M  |          | 12/23/2023 09:36 AM |                                    |
| 6312 | OsmoHLR  | Bug     | New    | Normal   | Querying HLR for MSISDN-to-IMSI mapping is too cumbersome and inefficient      |          | 12/21/2023 06:52 AM | Related to #6312                   |
| 6303 | OsmoPCU  | Feature | New    | Low      | Convert pcuif to TLV to make backwards compatibility more feasible             |          | 02/15/2024 09:23 PM |                                    |
| 6298 | OsmoGGSN (former OpenGGSN)                     | Feature | New    | Normal   | osmo-ggsn not providing MTU of the GTP tunnel to the MS                        |          | 02/15/2024 10:30 PM | Related to #6298                   |

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| 6297 | OsmoMGW                               | Bug     | New         | Normal   | octet-align=0 is the RFC 6871 specified default to use when omitted; but osmo-mgw assumes don't-care when omitted                       |          | 12/12/2023 02:12 AM | Is duplicate of #5726                          |
| 6293 | OsmoMGW                               | Bug     | New         | Normal   | osmo-mgw "decides" for a codec during MGCP handling; instead it should handle all configured payload type numbers as they arrive in RTP |          | 12/07/2023 05:52 AM | Related to #6293,Related to #6293,Blocks #6136 |
| 6285 | OsmoHNBGW                             | Feature | New         | Low      | IUFP needs not CRCX in loopback mode  |          | 12/04/2023 03:58 AM |  |
| 6283 | OsmoHNBGW                             | Bug     | New         | Normal   | crnpool: hnbgw fails to extract Mobile Identity from some GMM Attach Request messages   |          | 12/04/2023 01:48 AM |  |
| 6281 | OCTOI - Osmocom Community TDM over IP | Bug     | New         | Normal   | divf yate: calls to wave playback or loopback never connect   |          | 12/04/2023 12:14 PM | Related to #6282                               |
| 6258 | OsmoMSC                               | Feature | In Progress | Normal   | if MT call leg does not support the assigned codec, re-assign to a compatible codec   |          | 01/12/2024 06:26 AM | Related to #6328                               |
| 6255 | OsmoDia2GSUP                          | Bug     | New         | Normal   | Implement 3GPP Purge UE Request   |          | 11/10/2023 01:29 PM |  |
| 6243 | Cellular Network Infrastructure       | Feature | New         | Low      | vty cfg: make changing startup defaults of applications backwards compatible  |          | 11/01/2023 07:06 PM |  |
| 6242 | Core testing infrastructure           | Feature | New         | Normal   | Test eUPF against ttcn3-upf-test setup  |          | 12/18/2023 11:33 AM |  |
| 6241 | libosmo-sccp + libosmo-sigtran        | Feature | New         | Low      | M3UA "Network Appearance" support   |          | 10/31/2023 03:00 PM | Related to #6241                               |
| 6239 | libosmo-sccp + libosmo-sigtran        | Feature | New         | Normal   | finally deprecate libosmo-sccp (headers, static lib)  |          | 10/31/2023 07:31 PM |  |
| 6224 | Retronetworking                       | Feature | Feedback    | Normal   | how to document the rescued EWSD  |          | 10/18/2023 04:51 PM |  |
| 6201 | OsmocomBB                             | Bug     | New         | Normal   | modem: signal proper MS Radio Access Capability   |          | 10/04/2023 12:34 PM | Related to #6201                               |
| 6176 | OsmoSGSN                              | Bug     | New         | Low      | build failure (dependency / concurrency issue)  |          | 09/13/2023 03:14 PM |  |
| 6167 | OsmoBTS                               | Feature | New         | Low      | csd_v110: implement rate adaptation for TCH/F14.4   |          | 09/01/2023 11:58 AM | Related to #6167,Related to #6346              |
| 6129 | Miscellaneous Projects                | Bug     | New         | Normal   | Discourse: Setting a custom avatar via upload fails   |          | 08/02/2023 06:07 PM |  |
| 6126 | OsmoGSMTester                         | Bug     | New         | Normal   | osmo-gsm-tester docker container uses debian 10   |          | 08/01/2023 09:49 AM | Related to #6126                               |
| 6106 | OsmoGGSN (former OpenGGSN)            | Bug     | New         | Normal   | OsmoGGSN attempts to use the same GTP-U socket for all APNs with gtpu-mode kernel-gtp   |          | 02/21/2024 10:31 AM | Related to #6106,Related to #6106              |
| 6104 | pySim                                 | Feature | New         | Low      | reduce number of python dependencies  |          | 07/20/2023 04:28 PM |  |
| 6036 | OsmoBTS                               | Feature | New         | Normal   | Implement ternary SID classification for HR1 uplink   |          | 05/17/2023 09:48 PM | Related to #6036,Related to #6036              |
| 6032 | rtl-sdr                               | Bug     | New         | Normal   | Poor APRS demodulation using RTL_FM on RaspberryPI or on old PC   |          | 05/15/2023 12:14 PM |  |

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| 6029 | Core testing infrastructure     | Bug     | New         | Normal   | Single TTCN3 BSC handover test fails  |          | 10/18/2023 05:31 PM |                  |
| 6009 | OsmoMSC                         | Bug     | New         | Normal   | omo-msc: lots of tlv_parse() calls in src/libmsc/gsm_04_08.c have no return code checked for errors |          | 04/19/2023 03:19 PM |                  |
| 6007 | OsmoBSC                         | Bug     | New         | Normal   | network -> bts -> gprs nsvc will always create a nsvc node  |          | 04/17/2023 04:08 PM |                  |
| 6000 | OsmoMSC                         | Feature | New         | Normal   | Allow emergency calls without IMSI (using IMEI as MI)   |          | 04/12/2023 11:03 AM | Related to #6000 |
| 5995 | OsmoBTS                         | Bug     | New         | Low      | osmo-bts printing log line 'OC=GPRS-NSE(f0) INST=(00,ff,ff): Tx unknown 0xf6'                       |          | 10/18/2023 05:47 PM |                  |
| 5985 | Cellular Network Infrastructure | Bug     | New         | Normal   | tests: not all Osmocom projects have @osmoappdesc.py@   |          | 03/29/2023 08:09 PM |                  |
| 5930 | OsmoPCU                         | Feature | New         | Low      | handle multiple BTSs with one PCU   |          | 03/03/2023 10:47 AM |                  |
| 5908 | Cellular Network Infrastructure | Feature | New         | Low      | Cleanup license information throughout the projects   |          | 02/16/2023 11:02 AM |                  |
| 5900 | OsmoUPF                         | Feature | In Progress | Normal   | make sure chain ids used in the tunmap nft ruleset are unused                                       |          | 02/09/2023 05:34 PM |                  |
| 5895 | OsmoBTS                         | Bug     | New         | Low      | LC15: Audio Quality Problem sometime after cf7a7fceb625a14fd764355c3b96fa86c77458c                  |          | 03/20/2023 11:37 PM |                  |
| 5869 | OsmoHNBGW                       | Bug     | New         | Normal   | osmo-hnbgw ignores HNBAP HNB De-Register  |          | 01/21/2023 01:52 AM |                  |
| 5867 | OsmoHNBGW                       | Feature | New         | Normal   | HNBGW_Tests.ttcn should do HNBAP UE Register and De-Register tests                                  |          | 01/21/2023 02:30 AM |                  |
| 5865 | OsmoHLR                         | Feature | New         | Low      | Automate selection of LU Reject Cause   |          | 02/16/2023 10:36 AM |                  |
| 5864 | libosmocore                     | Bug     | New         | Normal   | Libosmocore: Fix order of config parsing output   |          | 02/04/2023 05:21 PM |                  |
| 5858 | Core testing infrastructure     | Bug     | Feedback    | Normal   | osmo-python-tests: Ignore, at least clean up 'tmp_dummy_sock'                                       |          | 02/22/2023 06:25 PM | Related to #5858 |
| 5853 | OsmoSGSN                        | Feature | New         | Normal   | osmo-sgsn: Rework to use libosmo-gprs   |          | 01/11/2023 03:14 PM |                  |
| 5852 | OsmoSGSN                        | Bug     | New         | Normal   | osmo-sgsn: Keep TLLI<->NSEI+BVCI relation knowledge in BSSGP layer                                  |          | 01/11/2023 03:08 PM |                  |
| 5851 | OsmoSGSN                        | Bug     | New         | Normal   | check if rate ctr GMM_CTR_PKTS_UDATA_IN is correct increased in sgsn_gtp_data_req() func            |          | 01/10/2023 06:40 PM |                  |
| 5844 | OsmoPCU                         | Bug     | New         | Normal   | pcu: ns: ip-sns: 2 local binds with a single remote is invalid                                      |          | 12/22/2022 09:59 PM |                  |
| 5843 | OsmoBSC                         | Bug     | New         | Normal   | BTS features aren't reset after oml drop  |          | 12/22/2022 09:27 PM |                  |
| 5842 | OsmoBSC                         | Bug     | New         | Normal   | ipa: investigate NSVC local and remote port configuration difference with wireshark dissector       |          | 12/22/2022 07:18 PM |                  |
| 5838 | OsmoGSMTester                   | Feature | New         | Normal   | Implement power switching for all BTSs  |          | 12/20/2022 05:30 PM |                  |
| 5837 | OsmoHNBGW                       | Bug     | New         | Normal   | osmo-iuh: UE-REGISTER-REQ with uE_Identity type IMEI not implemented.                               |          | 12/20/2022 03:43 PM |                  |
| 5834 | OsmoPCU                         | Feature | New         | Normal   | VTY option "two-phase-access" is misleading   |          | 12/19/2022 06:55 PM |                  |
| 5829 | libosmocore                     | Feature | New         | Low      | log fallback for log_check_level(), log_parse_category()  |          | 12/13/2022 10:44 PM |                  |

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| 5822 | OsmocomBB                       | Bug     | New    | Normal   | SE K2x0i: missing RF and AFC params   |          | 12/15/2022 11:36 PM |  |
| 5819 | Cellular Network Infrastructure | Bug     | New    | Low      | Gerrit/gitiles: Parent links don't work   |          | 12/08/2022 01:28 PM |  |
| 5818 | libosmocore                     | Bug     | New    | Normal   | multithreaded logging causes lock contention and needs a rework   |          | 01/10/2024 09:05 AM |  |
| 5816 | OsmoHNBGW                       | Feature | New    | Low      | Picocells available in R.U  |          | 03/09/2024 07:09 PM |  |
| 5815 | OsmocomBB                       | Feature | New    | Low      | mobile: compose Bearer Capability IE depending on PHY capabilities and GAPK codec support   |          | 12/06/2022 07:38 PM | Related to #5815, Related to #5815               |
| 5814 | OsmoUPF                         | Feature | New    | Normal   | tunmap: more concisely match on GTP-U packets   |          | 12/06/2022 07:30 PM |  |
| 5813 | OsmoHNBGW                       | Feature | New    | Low      | Alcatel-Lucent femtocells available in Europe   |          | 03/09/2024 07:09 PM |  |
| 5812 | OsmocomBB                       | Feature | New    | Low      | mobile: missing AMR support   |          | 12/06/2022 03:07 PM | Related to #5812                                 |
| 5808 | gr-osmosdr                      | Feature | New    | Normal   | New option, for selecting an input channel of a soapy_source_c  |          | 12/05/2022 11:45 AM |  |
| 5780 | OsmoMSC                         | Feature | New    | Normal   | Implement/Support UUS1  |          | 01/24/2023 10:48 AM |  |
| 5773 | OsmoGGSN (former OpenGGSN)      | Bug     | New    | Normal   | OsmoGGSN sends Direct Tunnel packets to the wrong IP address  |          | 11/17/2022 04:17 AM |  |
| 5771 | Cellular Network Infrastructure | Feature | New    | Normal   | series of presentations about the individual CNI network elements   |          | 11/14/2022 07:25 PM |  |
| 5768 | Retronetworking                 | Feature | New    | Normal   | retronetworking logo / artwork  |          | 04/07/2024 10:40 PM |  |
| 5766 | libosmo-abis                    | Feature | New    | Low      | use Linux kernel KCM for IPA header?  |          | 11/13/2022 08:15 AM | Related to #5766                                 |
| 5764 | Cellular Network Infrastructure | Bug     | New    | Normal   | GCC does not check format strings in LOGPFMSM macros  |          | 11/11/2022 06:30 AM |  |
| 5762 | Core testing infrastructure     | Feature | New    | Normal   | Develop TTCN-3 test suite for PGW   |          | 11/10/2022 06:38 PM |  |
| 5761 | Core testing infrastructure     | Feature | New    | Normal   | Develop TTCN-3 test suite for SGW   |          | 11/09/2022 09:49 PM |  |
| 5756 | libosmo-abis                    | Bug     | New    | Normal   | io_uring support in libosmo-abis  |          | 03/20/2024 03:58 PM | Related to #5756, Related to #6357, Blocks #5896 |
| 5750 | Cellular Network Infrastructure | Bug     | New    | Normal   | contrib/jenkins.sh: build with -Wunused-macros and -Wundef  |          | 11/08/2022 08:07 PM |  |
| 5746 | Retronetworking                 | Feature | New    | Low      | Create H.221 decoder  |          | 11/07/2022 10:55 PM |  |
| 5738 | Misc Hardware Projects          | Bug     | New    | Normal   | Sim 800L module Connectivity  |          | 11/02/2022 06:55 PM |  |
| 5735 | osmo-e1d                        | Bug     | New    | Normal   | ctl client disconnect doesn't re-set timeslot state   |          | 05/23/2023 06:19 AM |  |
| 5731 | gr-osmosdr                      | Bug     | New    | High     | Install gr-osmosdr on Ubuntu 20.04  |          | 10/27/2022 01:39 PM |  |
| 5726 | OsmoMGW                         | Bug     | New    | Normal   | AMR octet-align in SDP: lack of 'octet-align' fmtp should imply octet-align=0, and the presence or absence of this fmtp should not have an effect |          | 12/12/2023 01:51 AM | Is duplicate of #5726                            |

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| 5722 | Cellular Network Infrastructure       | Feature | New     | Low       | Migrate jenkins build slaves from docker to podman   |          | 10/21/2022 08:29 PM | Related to #5722                  |
| 5721 | OsmoCBC                               | Feature | New     | Normal    | CBC messages Geographical Scope and CBS Index  |          | 10/19/2022 07:23 AM |                                   |
| 5699 | OsmoMSC                               | Bug     | New     | Normal    | MNCC RTP_CREATE is not sent in a call waiting scenario                                       |          | 10/10/2022 06:46 PM |                                   |
| 5693 | OCTOI - Osmocom Community TDM over IP | Bug     | Stalled | Normal    | no progress tones in yate  |          | 12/03/2023 11:10 AM |                                   |
| 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 |                                   |
| 5683 | Osmocom Libraries                     | Bug     | New     | Immediate | How to install osmocom in China  |          | 09/18/2022 10:18 AM |                                   |
| 5682 | OsmoUPF                               | Feature | New     | Low       | cfg: separate PFCP Node ID from PFCP local address   |          | 09/17/2022 02:21 PM | Related to #5682                  |
| 5672 | Misc Hardware Projects                | Bug     | New     | Normal    | sfp-experimenter / voltage swing of LVDS driver insufficient for SFP spec                    |          | 09/02/2022 03:27 PM |                                   |
| 5669 | Cellular Network Infrastructure       | Bug     | New     | Normal    | Test .deb packages built by our OBS  |          | 09/21/2022 01:03 PM | Related to #5669,Related to #5669 |
| 5662 | OsmoUPF                               | Feature | New     | Normal    | add Linux kernel options to manual   |          | 08/24/2022 03:13 PM |                                   |
| 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 |
| 5644 | Osmocom Libraries                     | Bug     | New     | Normal    | Check library pkg-config files for proper dependencies                                       |          | 08/10/2022 01:02 PM | Related to #5644                  |
| 5641 | OsmoCBC                               | Feature | New     | Normal    | OsmoCBC doesn't yet support reloading cells becoming operational with active messages        |          | 08/05/2022 05:10 PM |                                   |
| 5628 | osmo-remsim                           | Bug     | New     | Low       | client-st2: error mesasges when mapping is removed   |          | 07/24/2022 07:14 AM |                                   |
| 5586 | OsmoBSC                               | Feature | New     | Normal    | Ericsson RBS could recover Unlocked state without osmo-bsc restart                           |          | 06/21/2022 10:23 PM | Related to #5983                  |
| 5585 | OsmoCBC                               | Bug     | New     | Low       | CBC should not send WRITE-REPLACE to cells that had sent FAILURE                             |          | 08/05/2022 04:58 PM |                                   |
| 5576 | OsmoBTS                               | Bug     | New     | Normal    | osmo-bts not moving NM state "Enabled -> DisabledDependency" when Admin state becomes Locked |          | 06/02/2022 10:38 AM |                                   |
| 5573 | OsmoHNBGW                             | Bug     | New     | Normal    | osmo-hnbgw: RANAP LocationReportingControl not implemented                                   |          | 05/30/2022 02:05 PM |                                   |
| 5561 | libosmo-sccp + libosmo-sigtran        | Bug     | New     | Low       | pc=0=0.0.0 / RCOC-ERROR.ind not permitted  |          | 05/23/2023 06:20 AM |                                   |
| 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 |                                   |
| 5546 | OCTOI - Osmocom Community TDM over IP | Feature | New     | Normal    | build frame relay "hub" similar to ISDN "hub"  |          | 04/24/2022 03:03 PM |                                   |
| 5545 | Retronetworking                       | Feature | New     | Low       | E1 support for dynamips  |          | 04/24/2022 09:56 AM |                                   |

| #    | Project                               | Tracker | Status | Priority | Subject   | Assignee | Updated             | Related issues                                       |
|------|---------------------------------------|---------|--------|----------|---|----------|---------------------|--|
| 5544 | OCTOI - Osmocom Community TDM over IP | Bug     | New    | Normal   | Strange HDLC frames in PPP when using mISDN/pppd/capiplugin against Portmaster3                   |          | 04/23/2022 01:50 PM |  |
| 5543 | Retronetworking                       | Feature | New    | Normal   | Contact manufacturers for leftover stock  |          | 06/27/2023 09:05 PM |  |
| 5526 | OCTOI - Osmocom Community TDM over IP | Feature | New    | Low      | ability to generate GSMTAP traces from osmo-e1d   |          | 07/29/2023 07:23 AM |  |
| 5521 | osmo-e1d                              | Bug     | New    | Low      | don't attempt OCTOI connection of no TDM data from driver (icE1usb)                               |          | 04/10/2022 05:28 PM |  |
| 5520 | osmo-e1d                              | Feature | New    | Low      | exponential back-off on octoi client reconnect attempts   |          | 07/29/2023 07:30 AM |  |
| 5519 | OCTOI - Osmocom Community TDM over IP | Feature | New    | Low      | reimplement overlapped.php based on yate python module  |          | 12/03/2023 10:47 AM |  |
| 5515 | OsmoBSC                               | Bug     | New    | Normal   | BSC_Tests: re-establishment: RA during CHAN RQD should reflect re-establishment                   |          | 04/06/2022 08:02 PM |  |
| 5512 | Retronetworking                       | Bug     | New    | Low      | Idea: L1OIP driver for DAHDI  |          | 04/03/2022 11:46 AM |  |
| 5511 | Retronetworking                       | Feature | New    | Low      | Idea: DAHDI backend for mISDN   |          | 09/18/2022 03:59 PM |  |
| 5509 | OsmoSGSN                              | Bug     | New    | Normal   | llc/pdu lifetime: add vty config option to define default lifetime                                |          | 03/31/2022 04:11 PM |  |
| 5505 | OsmocomBB                             | Feature | New    | Normal   | GPRS mobility (cell change) support   |          | 07/01/2022 06:24 AM | Related to #5505                                     |
| 5504 | OsmocomBB                             | Feature | New    | Normal   | GSM/GPRS coordination (RR/GRR)  |          | 05/23/2023 12:31 PM | Related to #5504                                     |
| 5499 | osmo-e1d                              | Bug     | New    | Low      | octoi client binds to specific IP even if 0.0.0.0 is specified                                    |          | 05/23/2023 07:10 AM |  |
| 5489 | linmodem                              | Feature | New    | Low      | linmodem mISDN integration  |          | 03/13/2022 09:35 PM |  |
| 5487 | OsmoSGSN                              | Feature | New    | Low      | get rid of osmo-juh.git's iu_client API and absorb into OsmoSGSN                                  |          | 03/10/2022 06:05 PM |  |
| 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                                     |
| 5474 | OsmoBTS                               | Bug     | New    | Normal   | osmo-bts-trx: DTXd support not implemented  |          | 03/02/2022 05:06 PM | Related to #5474, Related to #5474                   |
| 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 |
| 5462 | osmo-sip-connector                    | Bug     | New    | Normal   | Contact Header Missing - Way Forward?   |          | 02/21/2022 05:51 AM |  |
| 5460 | gr-osmosdr                            | Bug     | New    | Normal   | Please use double for ppm with fcdp/pp  |          | 02/17/2022 10:43 PM |  |
| 5449 | OsmoGGSN (former OpenGGSN)            | Bug     | New    | Low      | osmo-ggsn: Accept IPv4v6 EUA pdp creation in APv4/v6-only APNs by answering with changed PDP Type |          | 04/04/2023 09:46 AM |  |
| 5448 | gr-osmosdr                            | Bug     | New    | Low      | a bug related to gqrx using gr-osmosdr for sdrplay rsp1 through soapy(?)                          |          | 02/09/2022 02:56 AM |  |
| 5446 | Cellular Network Infrastructure       | Feature | New    | Normal   | correlate git version to ttcn3 tests  |          | 02/07/2022 09:40 PM | Related to #5446                                     |

| #    | Project                                      | Tracker | Status   | Priority | Subject   | Assignee | Updated             | Related issues                     |
|------|--|---------|----------|----------|---|----------|---------------------|------------------------------------|
| 5445 | gr-osmosdr                                   | Bug     | New      | Normal   | Please switch to the gr-funcube   |          | 02/15/2022 11:56 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 |                                    |
| 5435 | OCTOI - Osmocom Community TDM over IP        | Feature | New      | Low      | use DNS to resolve the server   |          | 04/05/2022 08:20 PM |                                    |
| 5434 | OCTOI - Osmocom Community TDM over IP        | Feature | Stalled  | Normal   | more statistics / counters  |          | 12/03/2023 11:17 AM |                                    |
| 5433 | OCTOI - Osmocom Community TDM over IP        | Bug     | New      | Normal   | forwarding of TS0 / Alarms  |          | 01/30/2022 11:02 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 |                                    |
| 5425 | gr-osmosdr                                   | Bug     | New      | High     | Problem receiving samples using dual receivers with BladeRF                               |          | 01/29/2022 04:22 AM |                                    |
| 5423 | SIMtrace 2                                   | Bug     | New      | Low      | "trace" firmware continuous test setup  |          | 01/27/2022 12:24 PM |                                    |
| 5402 | E1/T1 Hardware Interface (including icE1usb) | Bug     | New      | Normal   | no2e1 gateway improvements  |          | 01/13/2022 12:02 PM |                                    |
| 5396 | OsmocomDECT                                  | Bug     | New      | High     | TcpDump/WireShark will not build with libpcap(dect)                                       |          | 01/09/2022 12:57 PM |                                    |
| 5395 | OsmocomDECT                                  | Feature | New      | Normal   | Support for LMX3161   |          | 01/09/2022 12:55 PM |                                    |
| 5394 | OsmocomDECT                                  | Bug     | New      | High     | Kernel Oops when loading com_on_air_cs (unable to handle kernel NULL pointer dereference) |          | 01/09/2022 12:54 PM |                                    |
| 5393 | OsmocomDECT                                  | Bug     | New      | High     | tipc problems while building on Ubuntu  |          | 01/09/2022 12:48 PM |                                    |
| 5392 | OsmocomDECT                                  | Bug     | New      | High     | Sliding collision errors  |          | 01/09/2022 12:44 PM |                                    |
| 5389 | OsmocomDECT                                  | Bug     | New      | Low      | Namespace clashes between kernel and userspace  |          | 01/09/2022 12:30 PM |                                    |
| 5388 | OsmocomDECT                                  | Bug     | New      | Low      | {MM-INFO-SUGGEST} message not sent with ext bit set to 0                                  |          | 01/09/2022 12:28 PM |                                    |
| 5382 | E1/T1 Hardware Interface (including icE1usb) | Bug     | New      | Low      | icE1usb: detect all-1 pattern and report as BLUE alarm                                    |          | 01/02/2022 12:17 PM | Related to #5382                   |
| 5380 | osmo-ccid-firmware                           | Bug     | New      | Normal   | Incorrect answer to PC_to_RDR_SetParameters CCID command                                  |          | 01/16/2022 08:55 PM |                                    |
| 5372 | osmo-lab-rack                                | Feature | New      | Low      | AC power supply   |          | 12/23/2021 06:33 PM |                                    |
| 5371 | osmo-lab-rack                                | Feature | New      | Low      | component carrier USB-UART  |          | 12/23/2021 06:31 PM |                                    |
| 5370 | osmo-lab-rack                                | Feature | New      | Low      | component carrier USB hub   |          | 12/23/2021 06:30 PM |                                    |
| 5368 | libosmo-netif                                | Bug     | Feedback | Low      | consider using SCTP_EVENT instead of SCTP_EVENTS  |          | 12/23/2021 09:09 AM | Related to #5368, Related to #5368 |
| 5357 | OsmoGGSN (former OpenGGSN)                   | Bug     | New      | Normal   | no more than PDP_MAX == 1024 PDP contexts possible in libgtp                              |          | 12/14/2021 01:20 PM | Related to #5469                   |
| 5356 | libosmo-abis                                 | Bug     | New      | Normal   | libosmo-abis: osmo_rtp_socket_connect() not calling connect() on sockets                  |          | 12/13/2021 12:50 PM |                                    |



| #    | Project                     | Tracker | Status      | Priority | Subject  | Assignee | Updated             | Related issues   |
|------|-----------------------------|---------|-------------|----------|--|----------|---------------------|------------------|
| 5352 | gr-osmosdr                  | Bug     | New         | Normal   | ImportError: generic_type: type "sink" referenced unknown base type "gr::hier_block2"                      |          | 12/11/2021 08:19 AM |                  |
| 5349 | OsmoSGSN                    | Bug     | In Progress | High     | Message for non-existing SNDSCP Entity   |          | 07/17/2023 04:42 PM |                  |
| 5338 | OsmoBTS                     | Bug     | New         | Normal   | LMSDevice.cpp:261 Power parameters requested before Tx Frequency was set! Providing band 900 by default... |          | 12/09/2021 11:42 PM |                  |
| 5323 | Core testing infrastructure | Feature | New         | Normal   | Add docker image containing titan.core master  |          | 12/15/2021 04:43 PM | Related to #6187 |
| 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 |                  |
| 5313 | OsmoMGW                     | Bug     | New         | Normal   | libosmo-mgcp-client-dbg specific package not generated for debian  |          | 11/16/2021 03:57 PM |                  |
| 5310 | osmo-ccid-firmware          | Bug     | New         | Normal   | sysmoOCTSIM does not re-enumerate after unplug/replug the USB cable when PSU is connected                  |          | 11/15/2021 05:13 PM |                  |
| 5307 | Ericsson RBS 6xxx           | Feature | New         | Normal   | Support for Multiple Sectors at an RBS site.   |          | 11/13/2021 08:20 PM |                  |
| 5305 | OsmocomBB                   | Bug     | New         | Normal   | Burst capture  |          | 11/10/2021 06:38 PM |                  |
| 5304 | OsmoHNBGW                   | Bug     | New         | Low      | Verizon CDMA femtocell   |          | 03/09/2024 07:09 PM |                  |
| 5300 | OsmoPCU                     | Bug     | New         | Normal   | osmo-pcu: SUSPEND-NACK not implemented   |          | 03/31/2022 02:59 PM |                  |
| 5298 | gr-osmosdr                  | Bug     | New         | Normal   | object has no attribute 'pyqwidget' on arch linux  |          | 11/09/2021 01:25 AM |                  |
| 5267 | pySim                       | Feature | New         | Normal   | pySim-shell: Ability to deactivate entire applications on the card   |          | 10/14/2021 07:12 PM | Related to #5268 |
| 5257 | OsmoBTS                     | Bug     | New         | High     | support random padding in SACCH downlink messages  |          | 10/12/2021 11:18 AM | Related to #5257 |
| 5256 | OsmoBTS                     | Feature | New         | High     | support for random padding in LAPDm downlink messages  |          | 10/12/2021 11:17 AM | Related to #5256 |
| 5235 | pySim                       | Feature | New         | Low      | import / export as eUICC profile package ASN.1   |          | 06/09/2023 04:55 PM |                  |
| 5218 | gr-osmosdr                  | Bug     | New         | Normal   | compilation fails: "no matching function for call to fcd_source_c::connect"                                |          | 09/05/2021 10:58 PM |                  |
| 5202 | OsmocomBB                   | Bug     | New         | Normal   | [Assert failed rc >= 0 l1ctl.c:83] cell_log crashes (mostly) when monitoring specific ARFCN                |          | 07/25/2021 01:38 PM |                  |
| 5190 | OsmoBSC                     | Bug     | New         | Low      | segfault with osmo-e1d   |          | 09/15/2021 09:34 AM |                  |
| 5183 | OsmoHLR                     | Feature | New         | Low      | EIR functionality  |          | 06/16/2021 06:22 AM | Related to #5183 |
| 5167 | Osmocom Analog              | Feature | New         | Low      | LimeNet Micro  |          | 04/02/2023 08:57 AM |                  |
| 5156 | OsmoBSC                     | Feature | New         | Low      | Support intraBSC handover between distinct BTS types   |          | 11/04/2021 06:27 PM |                  |
| 5154 | OsmoSGSN                    | Bug     | New         | Normal   | OsmoSGSN doesn't trigger 3G paging if downlink GTP traffic arrives after long break                        |          | 05/13/2021 12:28 PM | Related to #5154 |
| 5128 | Core testing infrastructure | Feature | New         | Low      | dec_RlcmacDICTrlBlock: Get rid of annoying warning about remaining padding                                 |          | 12/09/2021 09:14 PM |                  |
| 5120 | rtl-sdr                     | Bug     | New         | Normal   | rtlsdr_demod_write_reg failed with -9  |          | 04/18/2021 08:55 PM |                  |
| 5117 | OsmoSDR                     | Bug     | New         | Normal   | Error building gr-osmosdr with libhackrf   |          | 04/15/2021 07:56 AM |                  |
| 5050 | OsmoTRX                     | Bug     | New         | Normal   | How can I solve limesdr mini clock problem with osmocom ?  |          | 02/27/2021 01:55 PM |                  |

| #    | Project                         | Tracker | Status | Priority | Subject  | Assignee | Updated             | Related issues                     |
|------|---------------------------------|---------|--------|----------|--|----------|---------------------|------------------------------------|
| 5047 | OsmoSDR                         | Feature | New    | Normal   | Inconsistencies between SDR's in bias-tee parameter  |          | 12/19/2021 01:17 PM |                                    |
| 5035 | libosmocore                     | Bug     | New    | Low      | ns2: add a vty to drop a sns connection  |          | 03/29/2021 09:16 PM |                                    |
| 5031 | OsmoSDR                         | Bug     | New    | Normal   | Please switch to gr-funcube  |          | 06/17/2021 09:23 AM |                                    |
| 5029 | libosmocore                     | Bug     | New    | Normal   | vtty: optional cases with multiple arguments is undefined behaviour  |          | 02/18/2021 05:44 PM |                                    |
| 5015 | libosmocore                     | Bug     | New    | Low      | ns2: add consistency check for ns configuration as callback  |          | 03/29/2021 09:17 PM |                                    |
| 5013 | Cellular Network Infrastructure | Feature | New    | Low      | investigate "vttysh" for Osmocom   |          | 02/06/2021 02:14 PM | Related to #5013                   |
| 5011 | Core testing infrastructure     | Bug     | New    | Normal   | Warning about unrecognized escape sequence in Osmocom_CTRL_Types   |          | 02/05/2021 11:21 AM |                                    |
| 5008 | gr-osmosdr                      | Bug     | New    | Normal   | Quoted whitespace parsing problem in source_impl::source_impl  |          | 02/04/2021 02:16 AM |                                    |
| 4990 | OsmoBSC                         | Feature | New    | Low      | TTCN3 test for AMR MultiRate IEs in RR and RSL   |          | 07/02/2021 04:34 PM |                                    |
| 4989 | OsmoBTS                         | Feature | New    | Low      | AMR RATSCCH support  |          | 01/28/2021 01:41 PM |                                    |
| 4988 | OsmoBTS                         | Feature | New    | Low      | No TTCN3 test for AMR TFO / DL CMR handling  |          | 01/28/2021 01:38 PM |                                    |
| 4987 | OsmoBTS                         | Feature | New    | Low      | No TTCN3 test for AMR DTX FSMs   |          | 01/28/2021 01:37 PM | Related to #5474                   |
| 4986 | OsmoBTS                         | Feature | New    | Low      | No TTCN3 tests of AMR rate/link adaptation   |          | 01/28/2021 01:36 PM |                                    |
| 4985 | OsmoBTS                         | Bug     | New    | Normal   | AMR RTP CMR of downlink frames not used to influence CMC   |          | 01/28/2021 01:35 PM |                                    |
| 4983 | OsmoMSC                         | Feature | New    | Low      | PERFORM LOCATION REQUEST / RESPONSE  |          | 01/28/2021 11:44 AM |                                    |
| 4982 | OsmoMSC                         | Feature | New    | Low      | Support for BSSMAP RESOURCE INDICATION   |          | 01/27/2021 03:01 PM | Related to #4982                   |
| 4981 | OsmoBSC                         | Feature | New    | Low      | Support for generating BSSMAP RESOURCE INDICATION  |          | 01/27/2021 03:02 PM | Related to #4982                   |
| 4980 | OsmoMSC                         | Feature | New    | Low      | Implement routing of BSSMAP LOAD INDICATION in OsmoMSC   |          | 01/27/2021 02:43 PM | Related to #4980, Related to #4980 |
| 4979 | OsmoBSC                         | Feature | New    | Low      | Support for parsing incoming BSSMAP LOAD INDICATION  |          | 01/27/2021 02:41 PM | Related to #4979, Related to #4980 |
| 4978 | OsmoBSC                         | Feature | New    | Low      | Support for generating BSSMAP LOAD INDICATION  |          | 01/27/2021 02:40 PM | Related to #4979, Related to #4980 |
| 4972 | OsmoMSC                         | Bug     | New    | Normal   | manual: the MNCC protocol is outdated (RTP)  |          | 01/24/2021 05:58 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 |                                    |
| 4966 | OsmoPCU                         | Bug     | New    | Normal   | osmo-pcu: gprs+egprs multiplex: Allow selecting original 8-PSK dl block during retransmission for GMSK-required DL block |          | 01/26/2021 01:07 PM | Related to #4966                   |
| 4961 | osmo-gbproxy                    | Feature | New    | Normal   | gbproxy support for "network sharing" via MOCN   |          | 01/20/2021 08:38 PM |                                    |
| 4950 | gr-osmosdr                      | Bug     | New    | Normal   | gr-osmosdr doesn't find iqbalance during build   |          | 02/22/2021 02:46 AM |                                    |
| 4933 | OsmoHNBGW                       | Bug     | New    | Low      | Femtocell choice in U.K 2021/01  |          | 03/09/2024 07:09 PM |                                    |

| #    | Project                        | Tracker | Status  | Priority | Subject  | Assignee | Updated             | Related issues   |
|------|--------------------------------|---------|---------|----------|--|----------|---------------------|------------------|
| 4930 | OsmoBSC                        | Bug     | New     | Normal   | bsc: cbc: vty: "no remote-ip" in cbc > client  |          | 12/31/2020 10:42 PM |                  |
| 4926 | OsmoHNBGW                      | Bug     | New     | Normal   | nano3G disconnect / reconnect cycle with SCTP multi-homing                                     |          | 01/04/2021 11:38 AM | Related to #4926 |
| 4925 | libosmo-sccp + libosmo-sigtran | Bug     | New     | Normal   | SCTP multihoming / ABORT between osmo-msc and osmo-stp   |          | 01/04/2021 11:32 AM | Related to #4926 |
| 4915 | osmo-e1d                       | Feature | New     | Low      | consider a one-thread-per-line architecture  |          | 07/29/2023 07:31 AM |                  |
| 4908 | libosmocore                    | Bug     | New     | Normal   | Errors compiling with -std=c++14   |          | 03/01/2021 03:38 PM |                  |
| 4900 | OsmoGSMTester                  | Feature | New     | Low      | hardware and wiring verification / selftest  |          | 12/08/2020 11:03 AM |                  |
| 4893 | osmo-gbproxy                   | Feature | New     | Low      | gbproxy2: Make feature bitmap configurable   |          | 12/08/2020 07:55 AM | Related to #4893 |
| 4886 | OsmoSGSN                       | Bug     | New     | Normal   | UE does not connect data when moving from 2G->3G   |          | 12/04/2020 01:29 AM |                  |
| 4885 | libosmocore                    | Bug     | New     | Normal   | configure doesn't check for python3  |          | 12/02/2020 03:36 AM |                  |
| 4884 | OsmoBSC                        | Bug     | New     | Normal   | RLL_REL_IND is recieved after RF_CHAN_REL  |          | 12/02/2020 11:51 AM |                  |
| 4882 | OsmoHNBGW                      | Feature | New     | Low      | HSPA+ Picocell available in U.S  |          | 03/09/2024 07:08 PM |                  |
| 4869 | OsmoPCU                        | Bug     | New     | Normal   | wireshark: Support dissecting LLC frames on top of RLCMAC (E)GPRS data blocks                  |          | 06/26/2023 11:03 AM | Related to #5367 |
| 4863 | OsmoMSC                        | Bug     | New     | Low      | T3212 is unclear in config/vty   |          | 11/19/2020 06:10 PM |                  |
| 4860 | libosmo-abis                   | Feature | New     | Low      | Implement separation of line/TEI/datalinks in E1 pcap  |          | 11/04/2021 06:31 PM |                  |
| 4858 | OsmoBSC                        | Bug     | New     | Normal   | handover CHANnel ACTIVation: BSC sends timing advance for lchan activation in a different cell |          | 11/10/2020 05:41 PM |                  |
| 4847 | OsmoPCU                        | Bug     | New     | Normal   | fix LLC-DISCARD behaviour  |          | 11/04/2020 02:37 AM | Related to #4847 |
| 4846 | OsmoPCU                        | Feature | New     | Normal   | change RBB received block bitmap into 1s when everything was acked                             |          | 11/04/2020 02:29 AM |                  |
| 4827 | OsmoBTS                        | Bug     | New     | Normal   | OsmoBTS VTY is lacking various vital information   |          | 10/23/2020 07:14 PM |                  |
| 4825 | OsmoSGSN                       | Bug     | New     | Normal   | security command is missing sometimes  |          | 10/22/2020 02:40 AM |                  |
| 4822 | osmo-ccid-firmware             | Bug     | Stalled | Low      | sysmoOCTSIM with osmo-ccid-firmware sometimes fails to enumerate on USB                        |          | 11/05/2021 05:19 PM |                  |
| 4813 | OsmoPCU                        | Feature | New     | Low      | FANR (Fast ACK/NACK Reporting) support   |          | 10/16/2020 08:46 AM |                  |
| 4812 | OsmoPCU                        | Feature | New     | Low      | RTTI (Reduced Transmission Time Interval) Support  |          | 10/16/2020 08:43 AM |                  |
| 4806 | osmo-ccid-firmware             | Feature | New     | Low      | Add support of T=1?  |          | 10/15/2020 03:40 PM |                  |
| 4790 | OsmoHNBGW                      | Feature | New     | Low      | Vodafone HSPA+ femtocell available in Deutschland  |          | 03/09/2024 07:08 PM |                  |
| 4783 | libosmocore                    | Bug     | New     | Low      | doxygen: duplicate 'ports.h' warning   |          | 10/07/2020 01:29 PM |                  |
| 4767 | OsmoBSC                        | Bug     | New     | Normal   | pcu interface: add suspend request support   |          | 09/29/2020 04:40 PM |                  |
| 4766 | OsmoBSC                        | Bug     | New     | Normal   | pcu interface: add app info request  |          | 09/26/2020 10:21 PM |                  |
| 4764 | OsmoMSC                        | Bug     | New     | Normal   | make sure Assignment times out, always   |          | 09/23/2020 02:08 PM |                  |
| 4762 | osmo-sip-connector             | Feature | New     | Low      | Osmo Analog Support  |          | 09/25/2020 07:31 AM | Related to #4763 |
| 4749 | OsmoGGSN (former OpenGGSN)     | Bug     | New     | Normal   | Unknown/Unimplemented PCO Protocol   |          | 02/09/2022 01:26 PM |                  |

| #    | Project                        | Tracker | Status | Priority | Subject  | Assignee | Updated             | Related issues   |
|------|--------------------------------|---------|--------|----------|--|----------|---------------------|------------------|
| 4746 | libosmocore                    | Bug     | New    | Normal   | gb: NS2: implement a NSE based logfilter   |          | 11/14/2020 08:42 AM |                  |
| 4745 | OsmoMGW                        | Bug     | New    | Low      | osmo-mgw: Wrong IP address returned in SDP "o=" section  |          | 10/05/2022 11:00 AM |                  |
| 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 |                  |
| 4720 | rtl-sdr                        | Bug     | New    | Normal   | rtl_power reports invalid values   |          | 08/19/2020 02:47 PM |                  |
| 4717 | OsmoMSC                        | Feature | New    | Normal   | support Handover with changing codec   |          | 08/18/2020 05:14 PM | Related to #4717 |
| 4705 | Distributed GSM                | Bug     | New    | Normal   | osmo-hlr user manual: explain the mslookup domain suffix "mdns.osmocom.org", it has no mention in the user manual                        |          | 08/13/2020 12:54 AM |                  |
| 4691 | OsmoMSC                        | Bug     | New    | Low      | setfault in osmo_sockaddr_str_is_set() via call_leg_ensure_ci()  |          | 02/06/2021 09:47 AM |                  |
| 4685 | SDR (Software Defined Radio)   | Bug     | New    | Normal   | Can't compile libusrp  |          | 08/04/2020 08:52 AM |                  |
| 4682 | OsmoBSC                        | Feature | New    | Low      | OM2000 MCTR Support for Ericsson RBS6000 / DUG 20  |          | 07/30/2020 06:51 AM | Precedes #4682   |
| 4677 | SDR (Software Defined Radio)   | Bug     | New    | Normal   | fopher crash on OSX with Qt  |          | 07/27/2020 03:27 AM |                  |
| 4660 | OsmoMSC                        | Bug     | New    | Normal   | GSM AUTH failure: mismatching sres - with module TRM-5 ext   |          | 07/12/2020 08:01 PM |                  |
| 4653 | SDR (Software Defined Radio)   | Bug     | New    | Normal   | cannot import name 'fosphor'   |          | 07/07/2020 02:39 AM |                  |
| 4647 | OsmoBSC                        | Bug     | New    | Low      | Getting attributes from BTS0 type nokia_site is not supported.   |          | 07/04/2020 09:05 AM |                  |
| 4642 | OsmoNITB                       | Bug     | New    | Low      | Attempting to set illegal id for FSM instance of type 'OM2000-MO'  |          | 07/03/2020 06:40 PM |                  |
| 4640 | OsmoBSC                        | Feature | New    | Low      | SI2quater: support multiple EUTRAN Neighbor Cells List entries, not only multiple EUTRAN Cell Descriptions in the first Cells List entry |          | 07/06/2020 03:03 PM |                  |
| 4638 | Altair LTE Modems              | Feature | New    | Normal   | Mikrotik R11e-4G mtd dump  |          | 06/13/2021 10:15 AM |                  |
| 4637 | OsmoTRX                        | Bug     | New    | Normal   | limesdr usb gain setting changes break gsm phasenoise constraints  |          | 06/29/2020 04:43 PM |                  |
| 4635 | libosmo-sccp + libosmo-sigtran | Feature | New    | Normal   | quirks when initializing SS7 ASP   |          | 06/25/2020 04:46 PM | Related to #4635 |
| 4634 | OsmoMSC                        | Feature | New    | Low      | lu: record SAC, and show RNC ID and SAC in the vty upon 'show subscriber'  |          | 06/24/2020 06:08 PM |                  |
| 4633 | OsmoMSC                        | Feature | New    | Normal   | update the Cell ID in the VLR after an inter-BSC / inter-MSC handover  |          | 06/24/2020 12:40 PM |                  |
| 4632 | OsmoMSC                        | Feature | New    | Normal   | update the cell id in the VLR when receiving BSSMAP HANDOVER PERFORMED from the BSC  |          | 06/24/2020 12:35 PM | Related to #4632 |
| 4631 | OsmoSGSN                       | Bug     | New    | Low      | packet/byte counters don't work for 3G   |          | 06/24/2020 06:58 AM |                  |
| 4630 | OsmoBTS                        | Bug     | New    | Low      | osmo-bts: GSMTAP DL (tx) messages use hardcoded signal level 0   |          | 10/05/2022 09:11 AM |                  |
| 4612 | OsmoMSC                        | Support | New    | Normal   | test handover on non-voice call conn (no CC transaction present)   |          | 06/14/2020 12:21 PM |                  |
| 4599 | OsmoSGSN                       | Bug     | New    | Normal   | counter group sgsn:pdpctx already exists for index X, instead using Y  |          | 09/09/2020 10:05 AM | Related to #4604 |
| 4596 | OsmocomTETRA                   | Feature | New    | Normal   | Port to GR3.8  |          | 01/08/2021 05:23 PM |                  |
| 4591 | libosmocore                    | Feature | New    | Normal   | Export FSM states and statistics with counters   |          | 03/24/2021 12:34 PM |                  |

| #    | Project                         | Tracker | Status      | Priority | Subject  | Assignee | Updated             | Related issues   |
|------|---------------------------------|---------|-------------|----------|--|----------|---------------------|--|
| 4590 | libosmocore                     | Feature | New         | Normal   | Export talloc data as counters for better memory leakage monitoring in production                    |          | 09/12/2022 03:53 PM |  |
| 4589 | OsmoBSC                         | Bug     | New         | Normal   | osmo-bsc crashes with "lchan allocation failed in state WAIT_RF_RELEASE_ACK: Timeout"                |          | 06/06/2020 10:40 PM |  |
| 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   |
| 4581 | OsmocomBB                       | Support | New         | Normal   | compiler error assert.h no such file   |          | 06/05/2020 09:54 AM |  |
| 4580 | SDR (Software Defined Radio)    | Feature | New         | Normal   | gr-osmosdr compilation under GnuRadio 3.9.0  |          | 06/04/2020 01:13 AM |  |
| 4579 | OsmoBTS                         | Bug     | New         | Normal   | add IPv6 support   |          | 02/12/2021 12:26 PM |  |
| 4574 | OsmoHNBGW                       | Feature | New         | Low      | Femtocell choice in 2020/06  |          | 03/09/2024 07:09 PM |  |
| 4557 | OsmoMSC                         | Bug     | New         | Normal   | normal BSSMAP Clear Command from MSC contains cause == 0 meaning "Radio interface message failure"   |          | 05/20/2020 07:17 PM |  |
| 4554 | OsmoMGW                         | Bug     | New         | Normal   | Clean up stale endpoints after OsmoBSC crash   |          | 05/16/2020 08:52 PM |  |
| 4553 | OsmoBSC                         | Bug     | New         | Normal   | OsmoBSC doesn't handle RESET IP RESOURCE BSSMAP message  |          | 05/16/2020 07:44 PM |  |
| 4552 | OsmoMGW                         | Bug     | New         | Normal   | ip-probing issue with BTS connection - no rebinding to a correct IP address                          |          | 05/14/2020 11:18 PM |  |
| 4551 | OsmoMGW                         | Feature | New         | Normal   | Dynamic/runtime allocation of new endpoints  |          | 05/14/2020 10:56 PM |  |
| 4541 | OsmoBSC                         | Feature | New         | Normal   | add ttcn3 tests for situations of Abis latency spikes, where chan act/deact ACK messages arrive late |          | 11/20/2023 05:03 PM | Related to #4541, Related to #6375                                     |
| 4538 | OsmoBSC                         | Bug     | New         | Normal   | timeslot_fsm.c: make the PDCH act/deact timeout configurable   |          | 05/09/2020 08:20 PM | Related to #4539   |
| 4537 | OsmoBSC                         | Feature | In Progress | Normal   | OsmoBSC needs strategies to recover broken lchans (lchan state BORKEN)                               |          | 11/20/2023 05:03 PM | Related to #4537, Related to #4540, Related to #4541, Related to #5106 |
| 4536 | OsmoBSC                         | Feature | New         | Normal   | Multi BTS support within a single physical device  |          | 06/21/2020 01:10 PM |  |
| 4525 | Cellular Modem Information      | Feature | New         | Normal   | MTK  |          | 05/03/2020 03:57 PM | Is duplicate of #4525  |
| 4513 | rtl-sdr                         | Bug     | New         | Normal   | PKG information broken   |          | 04/26/2020 03:21 PM |  |
| 4504 | OsmoTRX                         | Feature | New         | Low      | Buidl LimeSuite without GUI in osmocom feeds   |          | 09/30/2020 08:08 PM |  |
| 4491 | OsmoHLR                         | Bug     | New         | Low      | Cancel in old VLR/SGSN, if new VLR/SGSN differs from old   |          | 04/15/2020 12:29 PM |  |
| 4490 | IMSI Pseudonymization           | Feature | New         | Normal   | Specification: how would IMSI-pseudo interact within a combined (2G-4G)+5G network?                  |          | 04/16/2020 08:44 AM |  |
| 4489 | IMSI Pseudonymization           | Feature | New         | Normal   | Specification: mark mandatory parts / implementation details as such                                 |          | 04/16/2020 08:44 AM |  |

| #    | Project                        | Tracker | Status      | Priority | Subject  | Assignee | Updated             | Related issues                    |
|------|--------------------------------|---------|-------------|----------|--|----------|---------------------|-----------------------------------|
| 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 |
| 4486 | IMSI Pseudonymization          | Feature | New         | Normal   | Applet: gracefully handle case where timer is set twice                                      |          | 04/16/2020 08:45 AM |                                   |
| 4484 | gr-osmosdr                     | Bug     | New         | Normal   | CMakeFiles.txt   |          | 04/06/2020 05:19 PM |                                   |
| 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 |                                   |
| 4480 | IMSI Pseudonymization          | Bug     | New         | Normal   | Applet/OsmoMSC: fix or workaround for OsmoMSC only paging attached MS                        |          | 04/16/2020 08:45 AM | Related to #4480                  |
| 4479 | IMSI Pseudonymization          | Feature | New         | Normal   | Applet: change IMSI after receiving SMS  |          | 04/16/2020 08:45 AM |                                   |
| 4478 | IMSI Pseudonymization          | Feature | New         | Normal   | Applet: proper warning after too many LU with same IMSI                                      |          | 04/16/2020 08:45 AM | Related to #4478                  |
| 4477 | IMSI Pseudonymization          | Feature | New         | Normal   | OsmoHLR: send next pseudo IMSI via SMS   |          | 04/16/2020 08:45 AM | Blocks #4477,Blocks #4477         |
| 4474 | OsmoBTS                        | Bug     | In Progress | Low      | l1fwd (-remote) tried to read eeprom locally   |          | 11/04/2021 06:35 PM |                                   |
| 4473 | OsmoBTS                        | Feature | New         | Low      | Support for broadcast of MOCN related SI21/22/23   |          | 03/29/2020 07:39 PM | Related to #4473                  |
| 4471 | OsmocomBB                      | Support | New         | Normal   | Received FTMT00L from phone, ramloader has aborted   |          | 03/29/2020 11:18 AM |                                   |
| 4458 | Core testing infrastructure    | Feature | New         | Low      | Set up a STF (Smartphone Testing Farm)   |          | 03/18/2020 02:44 PM |                                   |
| 4457 | libosmo-sccp + libosmo-sigtran | Bug     | New         | Normal   | editing the SCCP address book (global-title) on a running instance may crash the application |          | 03/17/2020 11:17 PM |                                   |
| 4455 | OP25                           | Feature | New         | Normal   | AMBE CODEC   |          | 03/28/2020 09:53 PM |                                   |
| 4452 | OsmoPCU                        | Bug     | Stalled     | Normal   | manual testing of osmo-pcu   |          | 07/28/2023 02:48 PM |                                   |
| 4451 | OsmoMSC                        | Bug     | New         | Normal   | vty 'show stats level': different stats levels yield identical results                       |          | 03/09/2020 10:10 PM |                                   |
| 4443 | libosmocore                    | Bug     | New         | Normal   | CTRL interface blocks wildcard in rate_ctr   |          | 03/08/2020 01:06 PM | Related to #4443,Related to #4443 |
| 4433 | OsmoGGSN (former OpenGGSN)     | Feature | New         | Normal   | sgsnemu: Add support for IPv4v6 EUAs   |          | 03/04/2020 10:44 AM |                                   |
| 4432 | OsmoMGW                        | Bug     | New         | Normal   | for 'domain *', mgw should echo the domain of the MGCP client                                |          | 03/04/2020 12:39 AM |                                   |
| 4427 | rtl-sdr                        | Bug     | New         | Normal   | docker + rtl_sdr issue   |          | 02/29/2020 01:16 PM |                                   |
| 4418 | OsmocomBB                      | Feature | New         | Normal   | test-sim: support all libosmocore algorithms (comp128 v1, v2, v3; MILENAGE)                  |          | 02/26/2020 11:41 PM |                                   |
| 4417 | IMSI Pseudonymization          | Bug     | New         | Normal   | Applet: LU counter should only increase on successful location update                        |          | 04/16/2020 08:45 AM | Related to #4478                  |
| 4415 | OsmoGGSN (former OpenGGSN)     | Feature | New         | Normal   | Document in OsmoGGSN User Manual the IPv6 allocation process over GTP                        |          | 02/25/2020 03:05 PM |                                   |

| #    | Project                         | Tracker | Status      | Priority | Subject  | Assignee | Updated             | Related issues                                     |
|------|---------------------------------|---------|-------------|----------|--|----------|---------------------|--|
| 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                  |
| 4403 | IMSI Pseudonymization           | Feature | Feedback    | Normal   | OsmoHLR: How to interface with SMS service?  |          | 04/16/2020 08:45 AM | Blocks #4477                                       |
| 4376 | Cellular Network Infrastructure | Feature | New         | Normal   | Define distinct X timer numbers across all osmo programs                               |          | 01/23/2020 09:21 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 |  |
| 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                                   |
| 4362 | OsmoTRX                         | Feature | Stalled     | Normal   | osmo-trx-lms: Support multi-arfcn feature  |          | 09/30/2020 08:09 PM | Related to #4362,Related to #4362                  |
| 4359 | gr-osmosdr                      | Bug     | New         | Normal   | Compiling from Git Bramcj gr3.8 fails  |          | 01/12/2020 05:08 PM |  |
| 4352 | osmo-sip-connector              | Bug     | New         | Normal   | Need to handle 401 Unauthorized  |          | 01/09/2020 02:03 PM |  |
| 4337 | OsmoMSC                         | Bug     | New         | Normal   | osmo-msc: Don't send LU-Reject after LU-Accept if no TMSI Realloc Complete is received |          | 01/07/2021 06:22 PM | Related to #4337                                   |
| 4336 | OsmoMSC                         | Feature | New         | Normal   | Convert vlr_lu_fsm.c to use osmo_tdef (and drop vlr_timer())                           |          | 01/02/2020 05:32 PM | Related to #4337                                   |
| 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 |
| 4325 | gr-osmosdr                      | Bug     | New         | Normal   | can't open hackrf_sink with device index   |          | 12/13/2019 09:18 AM |  |
| 4317 | osmo-pcap                       | Bug     | New         | Low      | external tests not enabled in jenkins.sh   |          | 12/10/2019 02:42 PM |  |
| 4312 | OsmoHLR                         | Bug     | New         | High     | GSUP keepalives / connection loss detection  |          | 10/12/2020 02:42 PM |  |
| 4310 | osmo-sip-connector              | Bug     | New         | Normal   | sends BYE to self  |          | 01/09/2020 09:21 AM |  |
| 4308 | Distributed GSM                 | Support | New         | High     | thoughts about incorporating credit / billing in D-GSM                                 |          | 12/04/2019 04:08 PM |  |
| 4306 | Distributed GSM                 | Feature | Stalled     | Low      | GSUP proxy cache: store data persistently  |          | 05/20/2020 09:18 PM | Precedes #4306                                     |
| 4305 | Distributed GSM                 | Feature | Stalled     | Low      | GSUP proxy: cache auth tuples to re-use / fall back to simpler auth methods            |          | 04/28/2020 02:37 PM | Precedes #4306                                     |
| 4304 | libosmocore                     | Bug     | New         | Low      | missing unit tests for many gsm48_{encode,decode} functions                            |          | 12/04/2019 01:50 PM |  |
| 4303 | OsmoHLR                         | Bug     | New         | Low      | various minor issues about evaluation of rc = db_subscr_get_by_*()                     |          | 12/03/2019 11:02 PM |  |
| 4277 | Cellular Network Infrastructure | Feature | New         | Low      | implement an SMSC to work with OsmoMSC   |          | 11/22/2019 02:45 PM |  |
| 4274 | OsmoSTP                         | Bug     | New         | Normal   | AS Name isn't displayed  |          | 03/14/2024 10:33 AM |  |
| 4265 | libosmocore                     | Bug     | New         | Normal   | --enable-embedded doesn't work as expected   |          | 11/12/2019 11:18 AM |  |
| 4242 | BBS-Revival                     | Feature | New         | Low      | offer CCC event schedule (Fahrplan) as gopher service                                  |          | 10/28/2019 09:22 AM |  |
| 4240 | OsmoMSC                         | Bug     | In Progress | Normal   | test: incoming call when already Paging  |          | 11/27/2019 11:09 PM |  |

| #    | Project                               | Tracker | Status  | Priority | Subject   | Assignee | Updated             | Related issues                    |
|------|---------------------------------------|---------|---------|----------|---|----------|---------------------|-----------------------------------|
| 4226 | Retronetworking                       | Feature | New     | Low      | STM-1 / USB interface?  |          | 01/30/2022 10:14 AM |                                   |
| 4222 | OsmoSGSN                              | Bug     | New     | High     | Implement PS Paging for the Routing Areas   |          | 10/03/2020 02:20 PM | Related to #4222                  |
| 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 |                                   |
| 4196 | OsmoMSC                               | Feature | New     | Normal   | CC Setup, Call Confirmed: decode and use the Supported Codec List IE                                |          | 09/25/2019 05:27 PM |                                   |
| 4189 | OsmoBSC                               | Feature | New     | Low      | TTCN-3 tests for load-based hand-over in BSC  |          | 09/04/2019 09:10 AM | Related to #4189                  |
| 4174 | osmo-fl2k                             | Bug     | New     | Normal   | After the latest commits, the fl2k tools do not exit on first SIGINT                                |          | 08/25/2019 04:57 PM |                                   |
| 4172 | OsmoGGSN (former OpenGGSN)            | Bug     | New     | Normal   | osmoggsn crashes when stopping  |          | 08/29/2019 11:35 AM |                                   |
| 4158 | OsmoHNBGW                             | Bug     | New     | Normal   | segfault when paging, in a situation with duplicate CID in hnb register requests                    |          | 05/13/2021 12:01 PM | Related to #4162                  |
| 4153 | OsmoMGW                               | Bug     | New     | Normal   | 3G voice broken with ALu 9361 femto   |          | 04/25/2022 05:43 PM |                                   |
| 4151 | OsmoGSMTester                         | Bug     | Stalled | Normal   | osmo-gsm-tester: osmo-trx-lms process sometimes kept forever in zombie-alike state after killing it |          | 09/30/2020 08:08 PM | Related to #4151                  |
| 4150 | OsmoMGW                               | Feature | New     | Low      | dead code / If an MDCX omits SDP, all codec config might be cleared                                 |          | 08/13/2019 11:01 PM |                                   |
| 4141 | Cellular Network Infrastructure       | Bug     | New     | Normal   | No osmux specific code in place during codec negotiation  |          | 08/05/2019 03:57 PM |                                   |
| 4135 | Qualcomm Linux Modems by Quectel & Co | Support | New     | Normal   | how to use network inside ec20  |          | 07/31/2019 11:20 AM |                                   |
| 4130 | OP25                                  | Bug     | New     | Normal   | OP25 User Interface   |          | 07/26/2019 02:36 AM |                                   |
| 4128 | OsmoHNBGW                             | Feature | New     | Low      | Add support of Huawei hNodeB protocol   |          | 07/24/2019 03:39 PM |                                   |
| 4124 | OsmoBSCNAT                            | Feature | New     | Normal   | OsmoBSCNAT : Write user manual  |          | 01/08/2020 10:56 PM | Related to #4124                  |
| 4108 | Cellular Network Infrastructure       | Bug     | New     | Low      | osmo-ctrl2cgi, osmo-trap2cgi: missing default configs   |          | 07/16/2019 12:30 PM | Related to #4108                  |
| 4103 | libosmocore                           | Feature | New     | Low      | TUAK support as per 3GPP TS 35.231  |          | 03/24/2021 12:33 PM |                                   |
| 4082 | OsmoBTS                               | Bug     | New     | Normal   | OML: Unknown/unhandled PCHAN type: 0 NONE   |          | 11/18/2019 10:09 AM |                                   |
| 4080 | rtl-sdr                               | Support | New     | Normal   | Receiving UTAs on 978 Mhz   |          | 07/02/2019 12:08 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 |
| 4033 | OsmoGGSN (former OpenGGSN)            | Feature | New     | Normal   | ttn3-ggsn-test: Add tests to verify secondary pdp context management                                |          | 05/30/2019 03:19 PM |                                   |
| 4031 | OsmoBTS                               | Bug     | New     | Normal   | OML part of BTS has no TTCN-3 tests   |          | 09/04/2019 09:04 AM | Related to #4031,Related to #4031 |



| #    | Project       | Tracker | Status      | Priority | Subject  | Assignee | Updated             | Related issues                                     |
|------|---------------|---------|-------------|----------|--|----------|---------------------|--|
| 4023 | OsmoBTS       | Bug     | Stalled     | Normal   | Missing coverage of PCU interface in osmo-bts  |          | 03/21/2023 01:07 PM | Related to #4023                                   |
| 4019 | OsmoPCU       | Bug     | New         | Normal   | implement a command to show all informations from the bits                               |          | 11/25/2020 07:33 PM |  |
| 4018 | OsmoPCU       | Bug     | New         | Normal   | investigate ordering of includes paths   |          | 05/23/2019 10:59 AM |  |
| 4017 | OsmoMSC       | Bug     | New         | Normal   | MSC fails to handle calls  |          | 05/29/2019 04:56 PM |  |
| 4014 | OsmoBTS       | Feature | New         | Low      | Allow multiple [virtual] BTS instances on same [SDR] hardware that supports multiple TRX |          | 05/21/2019 12:07 PM |  |
| 4009 | OsmoBTS       | Bug     | New         | Normal   | Channel Activation starts SACCH too early in Synchronous Handover                        |          | 03/11/2022 12:44 PM | Related to #4009,Related to #4010,Related to #4009 |
| 4008 | OsmoBTS       | Bug     | Feedback    | High     | Channel Activation starts SACCH too early in Asynchronous Handover                       |          | 03/11/2022 12:47 PM | Related to #4008,Related to #4010,Related to #4009 |
| 3992 | OsmoMSC       | Bug     | New         | Normal   | inter-MSC handover for signalling-only?  |          | 05/09/2019 11:39 AM |  |
| 3988 | OsmoMSC       | Feature | New         | Low      | change the remaining DEBUGP() statements to LOG_MSC_A() / LOG_MSC_A_CAT()                |          | 05/08/2019 03:26 PM |  |
| 3987 | libosmocore   | Feature | New         | Low      | introduce libosmocore_init() to replace individual initialization calls                  |          | 05/08/2019 03:03 PM | Related to #3987                                   |
| 3983 | libosmocore   | Bug     | New         | Normal   | osmo_fsm_inst_change_parent() forgets to talloc reparent                                 |          | 03/24/2021 12:35 PM |  |
| 3981 | OsmoTRX       | Bug     | New         | Normal   | osmo-trx-lms: Overruns appear from time to time  |          | 09/30/2020 08:08 PM | Related to #3981                                   |
| 3980 | OsmoMGW       | Bug     | New         | Normal   | Clear Command before CRCX OK may leak MGW endpoint                                       |          | 05/06/2019 10:11 PM |  |
| 3970 | OsmoTRX       | Bug     | New         | Low      | libusrp fails to compile 1/4 of times in jenkins with PARALLEL_MAKE set                  |          | 01/08/2020 10:56 PM | Is duplicate of #3970                              |
| 3964 | OsmoSGSN      | Bug     | New         | Normal   | SIGSEGV in sndcp_sm_deactivate_ind()   |          | 10/10/2019 07:11 PM | Related to #3964,Related to #4221,Related to #4602 |
| 3962 | OsmoTRX       | Feature | New         | Low      | osmo-trx: Use gcc attribute no_sanitize to run fine with ASan enabled                    |          | 08/26/2019 02:04 PM |  |
| 3949 | OsmoTRX       | Bug     | New         | Normal   | osmo-trx-lms: improve runtime gain setting (missing calibration)                         |          | 09/30/2020 08:08 PM | Related to #4468                                   |
| 3940 | OsmoSGSN      | Bug     | New         | Normal   | TTCN-3: lu: test UMTS Auth   |          | 04/24/2019 08:24 AM |  |
| 3939 | OsmoSGSN      | Bug     | New         | Normal   | TTCN: do a GMM Attach Request when in GMM Connected and have a PDP Request               |          | 04/24/2019 08:25 AM |  |
| 3937 | OsmoSGSN      | Bug     | In Progress | Normal   | lu: verify handling of GMM Service Request (data)when no PDP Context present.            |          | 05/21/2019 10:28 AM | Related to #3937                                   |
| 3936 | OsmoSGSN      | Bug     | New         | Normal   | lu: first GMM Service Request does not find a MM ctx                                     |          | 05/07/2019 01:37 PM | Related to #3936                                   |
| 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                                   |
| 3923 | OsmoSGSN      | Bug     | New         | Normal   | lu: Respond to SecurityCommandReject messages  |          | 04/24/2019 08:26 AM | Related to #3923                                   |

| #    | Project                      | Tracker | Status      | Priority | Subject  | Assignee | Updated             | Related issues   |
|------|------------------------------|---------|-------------|----------|--|----------|---------------------|--|
| 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 |
| 3917 | OsmoGSMTester                | Bug     | New         | Normal   | ofono: update debian packages to match our dependencies                                    |          | 04/06/2020 11:30 AM |  |
| 3909 | libosmocore                  | Bug     | New         | Normal   | osmo_get_rand_id() fails in containerised environment                                      |          | 03/24/2021 12:34 PM | Related to #3909   |
| 3880 | OsmoMSC                      | Bug     | New         | Normal   | GSUP MT-ForwardSM Message Reference - wrong value in a response                            |          | 04/01/2019 07:47 AM |  |
| 3865 | OsmoBSC                      | Bug     | New         | Normal   | nanoBTS: GPRS not working anymore, modems unable to attach in osmo-gsm-tester              |          | 05/11/2023 01:00 PM | Is duplicate of #3865  |
| 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 |  |
| 3849 | OsmoMGW                      | Bug     | New         | Normal   | race condition problem in rtp flow tests of the ttcn3 testsuite                            |          | 09/04/2019 09:26 AM |  |
| 3845 | libosmocore                  | Feature | New         | Low      | Unified logging in Gb NS / BSSGP code  |          | 03/16/2019 02:33 PM |  |
| 3831 | OsmoBSC                      | Feature | New         | Low      | BSC support for "network sharing" via MOCN   |          | 01/20/2021 10:03 AM | Related to #4473   |
| 3829 | OsmoMSC                      | Bug     | New         | Normal   | osmo-msc expects aoip TLV in Assignment Complete messages from BSC                         |          | 03/07/2019 08:30 PM |  |
| 3822 | OsmoMGW                      | Bug     | New         | Low      | conn mode "sendonly" behaves identically to "sendrecv"                                     |          | 03/04/2019 09:34 PM |  |
| 3820 | OsmoHNBGW                    | Bug     | New         | Normal   | osmo-hnbgw does not properly do RANAP RESET and RESET ACK on the link towards MSC and SGSN |          | 05/13/2021 12:01 PM | Related to #3944   |
| 3819 | gr-osmosdr                   | Support | New         | Urgent   | OSMO SDR blocks for GNUradio   |          | 02/28/2019 06:00 PM |  |
| 3817 | SDR (Software Defined Radio) | Bug     | New         | Normal   | Unable to use fospor display on Ubuntu 18.10   |          | 02/26/2019 06:56 PM |  |
| 3814 | OsmoBSC                      | Bug     | New         | Normal   | MS Power Control Problem with Osmo-BSC and nanoBTS   |          | 02/24/2019 01:15 AM |  |
| 3812 | libosmo-netif                | Bug     | Stalled     | Normal   | stream_test fails depending on where it is run   |          | 03/13/2019 04:15 PM |  |
| 3806 | OsmoBSC                      | Bug     | Stalled     | Normal   | OsmoBSC accepts BSSAP with wrong length field  |          | 08/28/2020 08:15 PM | Related to #3806   |
| 3797 | rtl-sdr                      | Bug     | New         | Normal   | Exits with "Bus error"   |          | 02/12/2019 02:28 PM |  |
| 3796 | OsmoBTS                      | Bug     | New         | Low      | OsmoBTS doesn't send proper cause values in NACK   |          | 07/18/2019 06:04 AM | Related to #3796   |
| 3787 | OsmoBSC                      | Bug     | New         | Low      | Assignment Request modifies conn->codec_list before the Assignment is successful           |          | 01/08/2020 10:25 PM | Related to #3833   |
| 3786 | OsmoBSC                      | Bug     | New         | Low      | Assignment Request modifies conn->lcls state before the Assignment is successful           |          | 01/08/2020 10:25 PM |  |
| 3782 | OsmoBTS                      | Bug     | New         | Low      | OML bringup fails for osmo-bts-oc2g on high latency links                                  |          | 01/08/2020 10:27 PM | Related to #3782,Related to #3782,Related to #3789,Related to #4031                  |

| #    | 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 |  |
| 3776 | OP25                            | Bug     | New         | Normal   | Build fail using gcc version 7.3.0 Ubuntu 18.04.1 LTS  |          | 07/05/2019 07:12 PM |  |
| 3775 | OsmoTRX                         | Bug     | Stalled     | Normal   | properly debug limesdr usb and limesdr mini clocking requirements and osmo-trx support           |          | 09/30/2020 08:09 PM | Blocks #3341,Blocks #3342,Blocks #3775 |
| 3763 | osmo-sip-connector              | Bug     | New         | Normal   | Implement correct handling for call answered elsewhere   |          | 01/22/2019 01:03 PM |  |
| 3755 | OsmoMSC                         | Feature | New         | Low      | make retrieval of IMEISV configurable  |          | 05/07/2019 12:28 PM | Related to #3755                       |
| 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 |  |
| 3741 | osmo-sip-connector              | Bug     | New         | Normal   | Unknow call parameters shown in vty  |          | 12/28/2018 02:01 PM |  |
| 3738 | OsmoMSC                         | Feature | New         | Normal   | Clarify PS-part of struct vlr_subscr   |          | 12/19/2018 12:34 PM |  |
| 3737 | OsmoBSC                         | Bug     | New         | Low      | abort because unused lchan has non-null conn pointer, after AMR config error                     |          | 05/08/2019 03:35 PM |  |
| 3734 | gr-osmosdr                      | Bug     | New         | High     | Cannot compile gr-osmocom  |          | 12/16/2018 12:22 AM |  |
| 3732 | OsmoHLR                         | Feature | New         | Low      | Support tacdb query in HLR   |          | 07/18/2019 06:12 AM | Related to #3732                       |
| 3731 | OsmoMGW                         | Bug     | New         | Normal   | TTCN3 TC_rtpem_selftest randomly fails   |          | 01/08/2020 10:18 PM |  |
| 3724 | osmo-sip-connector              | Bug     | New         | Normal   | Wrong media format used in SIP INVITE causes one-way audio                                       |          | 12/11/2018 02:57 PM | Related to #3724,Related to #5177      |
| 3696 | OsmoSGSN                        | Bug     | New         | Normal   | Intermittent Connection Drop   |          | 01/08/2020 10:48 PM |  |
| 3694 | Cellular Network Infrastructure | Bug     | New         | Low      | Fix lintian warnings in .deb packages  |          | 07/18/2019 05:20 AM | Related to #3699                       |
| 3693 | libosmocore                     | Bug     | In Progress | Low      | gsm_04_08.h: numerous packed structs with sub-byte ints lack the order-swap shims for big endian |          | 11/19/2018 02:05 PM |  |
| 3689 | OsmoSGSN                        | Bug     | New         | Normal   | Support Cisco GGSN (Cisco 7200 with IOS 12.4.x)  |          | 04/09/2019 11:21 AM |  |
| 3688 | OsmoSGSN                        | Feature | New         | Low      | move generic gtphub code to libosmocore  |          | 04/15/2019 07:29 AM |  |
| 3687 | OsmoMSC                         | Feature | New         | Normal   | Expand "show bsc" command  |          | 11/11/2018 09:50 PM |  |
| 3676 | OsmoGSMTester                   | Bug     | New         | Normal   | ofono: org.ofono.ConnectionManager property Bearer returning "none"                              |          | 06/09/2020 08:39 PM |  |
| 3670 | Cellular Network Infrastructure | Feature | New         | Low      | TTCN-3 tests for statsd exporter code  |          | 09/04/2019 09:03 AM |  |
| 3663 | gr-osmosdr                      | Bug     | New         | Normal   | Can't compile gr-osmosdr on macOS Mojave   |          | 10/19/2018 02:37 PM |  |
| 3658 | Cellular Modem Information      | Feature | New         | Low      | Create a "osmocom-bb-host-latest" docker container   |          | 12/01/2019 09:07 AM | Related to #3658                       |
| 3653 | OsmocomBB                       | Bug     | New         | Normal   | FACCH/H sometimes not received by BTS with osmocomBB+motorolaCXX                                 |          | 10/22/2018 02:37 PM | Related to #5518                       |
| 3652 | OsmocomBB                       | Bug     | New         | Normal   | Incorrect IMEISV setting in mobile application   |          | 10/12/2018 08:20 PM |  |

| #    | Project       | Tracker | Status | Priority | Subject  | Assignee | Updated             | Related issues                                     |
|------|---------------|---------|--------|----------|--|----------|---------------------|--|
| 3649 | OsmoHLR       | Feature | New    | Low      | Investigate LMDB as HLR data storage   |          | 10/12/2018 11:35 AM | Related to #3649                                   |
| 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                                   |
| 3642 | OsmoBSC       | Bug     | New    | Low      | logging filter imsi leaks bsc_subscr references  |          | 10/09/2018 10:04 PM |  |
| 3638 | OsmoBSC       | Feature | New    | Low      | handover decision 2: load balancing across BSS   |          | 10/16/2018 01:16 PM | Related to #3638,Related to #3638,Related to #3638 |
| 3629 | OsmocomBB     | Bug     | New    | Normal   | mobile aborting after 'test re-selection 1' on vty   |          | 10/04/2018 02:58 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 |  |
| 3605 | OsmoSTP       | Feature | New    | Normal   | Global Title Translation   |          | 07/18/2019 05:15 AM |  |
| 3604 | OsmoSTP       | Feature | New    | Normal   | Global Title Routing   |          | 07/18/2019 05:15 AM |  |
| 3603 | OsmoSTP       | Feature | New    | Low      | M2PA support   |          | 10/03/2018 08:58 AM | Related to #3603                                   |
| 3602 | OsmoSTP       | Feature | New    | Low      | M2UA support   |          | 09/30/2018 08:00 AM |  |
| 3596 | gr-osmosdr    | Feature | New    | Normal   | TX Tags  |          | 09/25/2018 04:01 PM |  |
| 3595 | gr-osmosdr    | Feature | New    | Normal   | RX Tags  |          | 09/25/2018 04:01 PM |  |
| 3594 | gr-osmosdr    | Feature | New    | Normal   | Message Commands   |          | 09/25/2018 03:59 PM |  |
| 3591 | rtl-sdr       | Bug     | New    | Normal   | No Way To Detect Occasional Failed Bulk Transfers  |          | 09/25/2018 01:29 PM |  |
| 3590 | rtl-sdr       | Bug     | New    | Normal   | Key Functions Missing Documentation  |          | 09/25/2018 01:04 PM |  |
| 3589 | rtl-sdr       | Bug     | New    | Normal   | Zerocopy Buffers Unusable Outside Callback Without memcpy()  |          | 09/25/2018 12:58 PM |  |
| 3588 | rtl-sdr       | Bug     | New    | Normal   | Error Values Inconsistent  |          | 09/25/2018 12:47 PM |  |
| 3564 | OsmoGSMTester | Feature | New    | Normal   | Investigate ofono and modems Cell Broadcast support  |          | 01/08/2020 10:42 PM | Related to #3564                                   |
| 3531 | OP25          | Bug     | New    | Normal   | Unknown status of the p25 wireshark plugin   |          | 10/06/2022 05:52 AM |  |
| 3501 | SIMtrace 2    | Feature | New    | Low      | Multi-sim addon board idea   |          | 08/28/2018 03:00 PM |  |
| 3486 | OsmoBSC       | Feature | New    | Low      | handover decision: congestion: figure out the tradeoff: re-assign within same cell vs. handover to another cell                            |          | 10/16/2018 01:16 PM | Related to #3486,Related to #3638                  |
| 3485 | OsmoBSC       | Feature | New    | Low      | handover to make room for a less capable subscriber  |          | 10/16/2018 01:16 PM | Related to #3485                                   |
| 3484 | OsmoBSC       | Feature | New    | Low      | handover decision: if rxlev is ok but rxqual is bad, move to different timeslot with same TCH kind to avoid interference                   |          | 10/16/2018 01:30 PM |  |
| 3482 | OsmoBSC       | Feature | New    | Low      | handover decision: if a new call causes congestion that would trigger immediate re-assignment, assigning the other TCH kind from the start |          | 10/16/2018 01:15 PM | Related to #3482                                   |
| 3481 | OsmoBSC       | Feature | New    | Normal   | handover from TCH/H to TCH/F to reduce load  |          | 06/08/2020 07:08 PM | Related to #3481,Related to #3481                  |

| #    | Project           | Tracker | Status  | Priority | Subject  | Assignee | Updated             | Related issues                    |
|------|-------------------|---------|---------|----------|--|----------|---------------------|-----------------------------------|
| 3480 | OsmoBSC           | Feature | New     | Normal   | handover from TCH/F to TCH/H to reduce load                                      |          | 06/08/2020 07:08 PM | Related to #3480,Related to #3481 |
| 3479 | OsmoBSC           | Feature | New     | Normal   | test "every single failure" in osmo-bsc FSMs                                     |          | 08/20/2018 11:15 AM | Related to #3479                  |
| 3470 | OsmoMSC           | Feature | New     | Low      | Allow sending "Emergency Number List IE" in LU ACCEPT                            |          | 09/01/2018 08:18 PM | Related to #3470                  |
| 3469 | OsmoMSC           | Feature | New     | Low      | Support for "service category" in emergency calls                                |          | 08/24/2018 12:48 PM | Related to #3470                  |
| 3459 | OsmocomBB SDR PHY | Bug     | Stalled | Normal   | apps/grgsm_trx: AssertionError: packe t_info.packet_count == (seq_to_ack & 0xff) |          | 07/09/2023 07:48 PM |                                   |
| 3458 | OsmocomBB SDR PHY | Bug     | Stalled | Normal   | apps/grgsm_trx: [ERROR] [STREAMER] recv packet demuxer unexpected sid 0xXX       |          | 07/09/2023 07:48 PM | Related to #3692                  |
| 3445 | OsmoMSC           | Feature | Stalled | Normal   | SS/USSD: clean up the local GSM 04.80 API  |          | 12/14/2018 01:57 PM |                                   |
| 3443 | OsmoMGW           | Bug     | New     | Low      | Check audio-payload options in osmo-mgw VTY                                      |          | 03/15/2020 08:43 AM |                                   |

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