

## Issues

| #    | Project                                      | Tracker | Status   | Priority | Subject   | Assignee  | Updated             | Related issues                                     |
|------|--|---------|----------|----------|---|-----------|---------------------|--|
| 4367 | rtl-sdr                                      | Support | New      | Normal   | "Communications Toolbox Support Package for RTL-SDR Radio" from "Mathworks Matlab" appears to be with broken links? | steve-m   | 01/21/2020 08:52 PM |  |
| 4534 | Ericsson RBS 6xxx                            | Support | Stalled  | Normal   | Take pictures of RBS6k gear for documentation   | roh       | 05/20/2020 03:19 PM |  |
| 6416 | E1/T1 Hardware Interface (including icE1usb) | Support | Feedback | Normal   | Serial debug tty port speed   | pfassberg | 03/22/2024 06:52 PM |  |
| 4621 | OsmoBSC                                      | Support | New      | Normal   | feedback: osmo-bsc modifies the LAI in LU Accept messages, and the MM info data                                     | neels     | 02/06/2021 09:50 AM |  |
| 4593 | OP25   | Support | New      | Normal   | Link to samples on the wiki is dead   | matt      | 06/07/2020 06:53 PM |  |
| 6193 | Retronetworking                              | Support | New      | Low      | Replace "event rack" PM3 power supply   | laforge   | 09/27/2023 12:19 PM |  |
| 6153 | OsmoHNodeB                                   | Support | Feedback | Normal   | List of supported FemtoCell   | Kira      | 08/28/2023 02:24 PM |  |
| 3512 | gr-osmosdr                                   | Support | New      | Normal   | Bug #3462 on Arch Linux; gr-osmosdr install fails   | horiz0n   | 01/26/2019 06:10 PM |  |
| 4365 | OsmoTRX                                      | Support | Stalled  | Normal   | Create testsuite to test osmo-bts-trx+osmo-trx under high channel load  | dexter    | 09/03/2020 10:33 AM | Related to #4366                                   |
| 2497 | OsmoGSMTester                                | Support | Stalled  | Normal   | Set up SIM cards with auth algo other than comp128v1  | daniel    | 10/15/2019 11:44 AM | Related to #2475                                   |
| 4225 | OP25   | Support | New      | Normal   | Missing rules in cmake lists?   | 2CS350    | 10/12/2019 02:49 PM |  |
| 4206 | Qualcomm Linux Modems by Quectel & Co        | Support | New      | Urgent   | Unbrick cpe router without web ui interface and terminal  |           | 02/22/2021 02:01 PM |  |
| 3819 | gr-osmosdr                                   | Support | New      | Urgent   | OSMO SDR blocks for GNUradio  |           | 02/28/2019 06:00 PM |  |
| 4308 | Distributed GSM                              | Support | New      | High     | thoughts about incorporating credit / billing in D-GSM  |           | 12/04/2019 04:08 PM |  |
| 2622 | OsmoBSC                                      | Support | Stalled  | High     | Prepare automatic interop testing of OsmoBSC against NG40 core simulator + osmo-bts-virtual + mobile                |           | 09/04/2019 09:18 AM | Related to #2478,Related to #2558,Related to #2555 |
| 6434 | E1/T1 Hardware Interface (including icE1usb) | Support | New      | Normal   | D-channel do not recover after underrun   |           | 04/27/2024 09:03 PM |  |
| 4612 | OsmoMSC                                      | Support | New      | Normal   | test handover on non-voice call conn (no CC transaction present)  |           | 06/14/2020 12:21 PM |  |
| 4581 | OsmocomBB                                    | Support | New      | Normal   | compiler error assert.h no such file  |           | 06/05/2020 09:54 AM |  |
| 4471 | OsmocomBB                                    | Support | New      | Normal   | Received FTMT00L from phone, ramloader has aborted  |           | 03/29/2020 11:18 AM |  |
| 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 |
| 4135 | Qualcomm Linux Modems by Quectel & Co        | Support | New      | Normal   | how to use network inside ec20  |           | 07/31/2019 11:20 AM |  |
| 4080 | rtl-sdr                                      | Support | New      | Normal   | Receiving UTAs on 978 Mhz   |           | 07/02/2019 12:08 PM |  |

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| 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   |
| 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 |
| 3863 | OsmoBTS                                      | Support | Stalled     | Normal   | setup testing of osmo-bts-oc2g on real hardware with ttcn3 and osmocon/osmocom-bb             |            | 12/01/2019 10:52 AM |  |
| 3751 | OsmoBTS                                      | Support | New         | Normal   | Ensure BTS Tests.ttcn results of OC-2G resemble what we know/expect from osmo-bts-{sysmo,trx} |            | 12/01/2019 10:52 AM |  |
| 2764 | SDR (Software Defined Radio)                 | Support | New         | Normal   | osmocom_fft & siggen can't access the X display   |            | 12/15/2017 06:09 PM |  |
| 2677 | libosmocore                                  | Support | New         | Normal   | Make stat_item available over ctrl interface  |            | 09/04/2019 09:21 AM | Related to #2676   |
| 2504 | OsmoGSMTester                                | Support | New         | Normal   | check whether running osmo-* from docker images is feasible on osmo-gsm-tester                |            | 04/06/2020 11:28 AM |  |
| 1983 | rtl-sdr                                      | Support | New         | Normal   | Add welle.io and rtl_fm_streamer to rtl-sdr app list  |            | 06/03/2018 12:24 PM |  |
| 4737 | Distributed GSM                              | Support | New         | Low      | How to configure Queries gsup.hlr.123456789.imsi, sip.voice.123.msisdn, smpp.sms.123.msisdn   |            | 08/31/2020 11:10 AM |  |
| 1627 | OsmocomBB                                    | Support | Stalled     | Low      | DCS_8BIT and DCS_UCS2 encoding supprot  |            | 07/16/2018 06:53 PM |  |
| 2555 | OsmocomBB                                    | Feature | Stalled     | Normal   | script interface to OsmocomBB "mobile"  | zecke      | 06/08/2020 07:07 PM | Related to #2555,Related to #2555,Blocks #2893                                       |
| 1689 | OsmoSMSC                                     | Feature | New         | Normal   | insert: Change destination number based on criteria similiar to route handling on output      | zecke      | 04/06/2016 12:18 PM |  |
| 1623 | OsmoSMSC                                     | Feature | New         | Normal   | Configure delivery report for the SMPP delivery links   | zecke      | 02/24/2016 01:49 PM |  |
| 1533 | OsmoPCU                                      | Feature | Feedback    | Low      | Separate the window handling from the TBF more clearly  | zecke      | 07/21/2017 02:46 PM | Related to #1533   |
| 5463 | Retronetworking                              | Feature | In Progress | Low      | X.21 hardware interface   | vogelchr   | 03/04/2023 02:37 PM |  |
| 1504 | UmTRX  | Feature | New         | Normal   | LMS6002 phase error increases when Rx is enabled and varies with temperature                  | ttsou      | 02/19/2016 10:52 PM |  |
| 3847 | Miscellaneous Projects                       | Feature | New         | Normal   | Osmocom logo with/for black background  | tsaitgaist | 12/10/2019 11:53 AM |  |
| 1911 | SIMtrace 2                                   | Feature | New         | Normal   | check if we can have an enclosed version of simtrace v2                                       | tsaitgaist | 09/13/2018 12:40 PM |  |
| 6417 | E1/T1 Hardware Interface (including icE1usb) | Feature | In Progress | Normal   | CRC4 configuration  | tnt        | 04/28/2024 03:44 PM |  |
| 5710 | E1/T1 Hardware Interface (including icE1usb) | Feature | New         | Normal   | rs422: Merge as much of the gateway in master as possible                                     | tnt        | 10/13/2022 06:53 PM | Related to #5710   |
| 5709 | E1/T1 Hardware Interface (including icE1usb) | Feature | New         | Normal   | rs422: Merge as much of the firmware into master to avoid separate branch                     | tnt        | 10/13/2022 06:49 PM | Related to #5709   |

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|------|--|---------|----------|----------|---|----------|---------------------|---|
| 3054 | OsmoTRX                                      | Feature | Stalled  | Normal   | Extended (11-bit) RACH support in OsmoTRX   | tnt      | 02/03/2019 11:45 AM | Related to #1854,Related to #3054,Related to #3054,Related to #4006 |
| 4910 | E1/T1 Hardware Interface (including icE1usb) | Feature | New      | Low      | Automatically set the A / alarm bits in Tx if no signal on Rx                             | tnt      | 04/29/2024 09:30 AM | Related to #5381  |
| 5291 | rtl-sdr                                      | Feature | New      | Normal   | Ship the udev rules upstream  | steve-m  | 11/05/2021 11:04 AM |   |
| 3315 | rtl-sdr                                      | Feature | New      | Normal   | review and possibly apply patches from debian package                                     | steve-m  | 06/03/2018 01:17 PM |   |
| 3210 | osmo-fl2k                                    | Feature | New      | Low      | man pages   | steve-m  | 04/24/2018 08:55 PM |   |
| 6231 | OsmoTRX                                      | Feature | New      | Normal   | add support / calibration values for AntSDR E200  | roh      | 10/21/2023 03:25 PM |   |
| 5276 | SIMtrace 2                                   | Feature | Stalled  | Normal   | jenkins CI integration like for osmo-ccid-firmware  | roh      | 11/14/2022 05:24 PM | Related to #5422  |
| 3227 | Cellular Network Infrastructure              | Feature | New      | Normal   | general idea: separate GSUP spec document   | roh      | 12/01/2019 09:26 AM | Is duplicate of #3227   |
| 3155 | OsmoBTS                                      | Feature | Stalled  | High     | execute BTS_Tests.ttcn with real (C123) phone hardware in LTHW setup                      | pespin   | 12/04/2020 07:30 PM | Related to #3353,Related to #3155                                   |
| 6127 | OsmoHNBGW                                    | Feature | Feedback | Normal   | Submit RAB Modification Req towards HNB to update its peer luUP address if MGW changed it | pespin   | 11/29/2023 06:45 PM |   |
| 6115 | OsmocomBB                                    | Feature | Feedback | Normal   | modem: MTU not set properly on tun iface  | pespin   | 12/08/2023 05:48 PM | Related to #6115,Related to #6298                                   |
| 5839 | OsmoGSMTester                                | Feature | New      | Normal   | Ability to switch off the osmo-trx machine  | pespin   | 12/20/2022 05:43 PM |   |
| 5827 | OsmoPCU                                      | Feature | New      | Normal   | osmo-pcu: Hardcoded limit of maximum number of 8 TRX per BTS                              | pespin   | 12/16/2022 11:55 AM |   |
| 5503 | OsmocomBB                                    | Feature | Feedback | Normal   | expose GPRS user plane via tun device   | pespin   | 08/28/2023 10:38 PM | Related to #6115  |
| 5502 | OsmocomBB                                    | Feature | Stalled  | Normal   | MS-side LLC implementation  | pespin   | 09/14/2023 03:59 PM | Related to #5502,Related to #5502                                   |
| 5501 | OsmocomBB                                    | Feature | Stalled  | Normal   | MS-side GPRS Mobility Management (GMM) + Session Management (SM)                          | pespin   | 09/14/2023 04:03 PM | Related to #5501,Related to #5502,Related to #5504,Related to #5505 |
| 5122 | OsmoPCU                                      | Feature | New      | Normal   | Choose SBA allocation offset based on AGCH queue load in the BTS                          | pespin   | 04/20/2021 12:51 PM | Related to #5122  |
| 5045 | Cellular Network Infrastructure              | Feature | New      | Normal   | write libversion "major" on build files automatically based on LIBVERSION                 | pespin   | 02/24/2021 01:14 PM |   |
| 4092 | OsmoMGW                                      | Feature | New      | Normal   | Osmux: Support dynamic allocation of osmux sockets  | pespin   | 08/10/2022 07:50 AM | Related to #4092  |

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| 4091 | Cellular Network Infrastructure | Feature | New         | Normal   | Osmux: Make sure all handover types work fine if a call leg is using Osmux between BSC and MSC.                        | pespin   | 06/08/2020 07:08 PM |   |
| 4065 | OsmoMSC                         | Feature | New         | Normal   | osmo-msc: Support instructing MSC_MGW to use Osmux between 2 endp/call-leg of same voice call                          | pespin   | 06/19/2019 04:54 PM | Related to #4065  |
| 5034 | libosmocore                     | Feature | Stalled     | Low      | logging: Enable category name instead of hex val by default  | pespin   | 06/12/2021 05:40 PM | Related to #6272  |
| 5012 | osmo-uecups                     | Feature | New         | Low      | use osmo-uecups from GGSN_Tests.ttcn   | pespin   | 02/06/2021 10:02 AM | Related to #5012  |
| 4840 | Core testing infrastructure     | Feature | New         | Low      | migrate osmo-gsm-tester docker images to registry.osmocom.org  | pespin   | 11/02/2020 05:13 PM | Related to #4840  |
| 4808 | OsmoGSMTester                   | Feature | New         | Low      | osmo-gsm-tester: Add test setup to verify baseband frequency hopping   | pespin   | 03/31/2023 03:25 PM |   |
| 4502 | OsmoGSMTester                   | Feature | New         | Low      | osmo-gsm-tester: support gpio controlled step attenuators of the LTHW main unit  | pespin   | 03/31/2023 03:28 PM |   |
| 4406 | OsmoGSMTester                   | Feature | New         | Low      | osmo-gsm-tester: Support setting auth_algo milenage or similar on osmocom software and filling HLR parameters like OPC | pespin   | 03/31/2023 03:26 PM | Related to #4407  |
| 4356 | libosmo-sccp + libosmo-sigtran  | Feature | New         | Low      | execute sccp_demo_user server+client against each other in some test suite   | pespin   | 01/10/2020 12:23 PM | Related to #4356  |
| 4275 | OsmoSTP                         | Feature | New         | Low      | Add TTCN3 STP_Tests_IPA.TC_tmt_broadcast   | pespin   | 12/01/2019 11:04 AM |   |
| 3234 | OsmoGSMTester                   | Feature | New         | Low      | osmo-gsm-tester: poll the python-smpllib socket using non-busy approach  | pespin   | 03/31/2023 03:28 PM | Related to #2512  |
| 2946 | OsmoGGSN (former OpenGGSN)      | Feature | New         | Low      | Add test suite for sgsnemu   | pespin   | 11/21/2019 05:03 PM |   |
| 2860 | OsmoGSMTester                   | Feature | New         | Low      | osmo-gsm-tester: Add 3g support with nano3G board  | pespin   | 03/31/2023 03:26 PM | Related to #2860  |
| 2554 | Cellular Network Infrastructure | Feature | New         | Low      | Reference/Demo setup + documentation for use of OsmoBSC+OsmoBSCNAT with OSMUX  | pespin   | 06/08/2020 07:07 PM | Related to #2553,Related to #2552,Related to #2551,Related to #2554 |
| 1527 | OsmoPCU                         | Feature | New         | Low      | Set correct values of the puncturing scheme and the retransmission flag  | pespin   | 02/08/2021 07:10 PM |   |
| 6103 | Linux Kernel GTP-U              | Feature | Feedback    | Normal   | move from 1:1 relationship of UDP socket and net-device to a N:M relationship  | pablo    | 10/06/2023 10:49 AM | Related to #6106  |
| 6096 | OsmoGGSN (former OpenGGSN)      | Feature | In Progress | Urgent   | add support for kernel-GTP IPv6  | osmith   | 03/25/2024 12:10 PM | Related to #6096,Related to #6106,Related to #6096,Blocks #6096     |
| 6223 | OsmoGGSN (former OpenGGSN)      | Feature | In Progress | High     | TTCN3 unit test[s] for GTPv1U with extension headers   | osmith   | 01/31/2024 08:19 PM | Related to #6223  |

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|------|---------------------------------|---------|-------------|----------|---|----------|---------------------|--|
| 4107 | Cellular Network Infrastructure | Feature | In Progress | High     | Start systemd services as non-root user   | osmith   | 04/29/2024 08:12 AM | Related to #4107,Related to #4821,Related to #4107,Related to #5669,Related to #5685,Related to #5687,Related to #5722 |
| 5279 | OsmoMGW                         | Feature | New         | Normal   | systemd service / unit for multiple osmo-mgw on one machine   | osmith   | 10/25/2021 11:41 AM |  |
| 3872 | OsmoBSC                         | Feature | New         | Normal   | osmo_scu_prim.conn_id should be picked from a distinct number space for outgoing and incoming N-CONNECT | osmith   | 03/28/2019 08:06 PM | Blocks #3872   |
| 3636 | OsmoMSC                         | Feature | New         | Normal   | detailed call statistics (with rate counters)   | osmith   | 10/08/2018 11:14 AM | Related to #3636   |
| 1685 | osmo-sip-connector              | Feature | In Progress | Normal   | osmo-sip-connector: Review and define log statements and which info to include                          | osmith   | 09/04/2019 09:31 AM |  |
| 6327 | Cellular Network Infrastructure | Feature | New         | Low      | Osmocom-build-tags-against-master job builds very basic configurations                                  | osmith   | 01/11/2024 08:17 PM |  |
| 4109 | Cellular Network Infrastructure | Feature | New         | Low      | debian-repo-install-test: start a virtual MS and perform a LU   | osmith   | 11/29/2019 10:39 AM | Related to #4109   |
| 3982 | Cellular Network Infrastructure | Feature | Feedback    | Low      | osmo-depcheck.py: set dependency hashes on command line   | osmith   | 05/15/2023 09:51 AM |  |
| 3477 | Cellular Network Infrastructure | Feature | New         | Low      | add a wiki page explaining interconnection between components across several machines                   | osmith   | 12/01/2019 09:29 AM |  |
| 3386 | Cellular Network Infrastructure | Feature | New         | Low      | Generate man pages at build time from adoc files  | osmith   | 05/11/2023 11:24 AM | Precedes #3386   |
| 3165 | OsmoMSC                         | Feature | New         | Low      | Verify LU Request's LAI   | osmith   | 07/18/2019 05:48 AM | Related to #3164   |
| 2545 | OsmoBSCNAT                      | Feature | Stalled     | Low      | OsmoBSCNAT misses 3GPP AoIP   | osmith   | 10/12/2022 01:15 PM | Related to #5152,Related to #5359,Related to #5574   |
| 2542 | OsmoHLR                         | Feature | Stalled     | Low      | have subscriber create-on-demand  | osmith   | 03/10/2022 03:40 PM | Related to #2541,Related to #5183  |
| 2451 | Cellular Network Infrastructure | Feature | New         | Low      | Add static builds to jenkins jobs   | osmith   | 09/30/2018 08:18 AM |  |
| 2356 | OsmoBTS                         | Feature | New         | Low      | have per-SAPI logging in OsmoBTS DL1P / DL1C  | osmith   | 03/19/2020 08:06 PM | Related to #2355   |
| 1605 | OsmoBSC                         | Feature | In Progress | Low      | logging / ring buffer for ALERT messages from A-bis OML from the BTS side                               | osmith   | 03/27/2020 09:40 AM | Related to #1605   |
| 1558 | OsmoPCU                         | Feature | New         | Low      | Generate BSSGP LLC Discarded messages on TBF/MS free  | osmith   | 02/13/2021 05:44 PM | Related to #4847   |
| 4940 | OsmoBSC                         | Feature | Stalled     | High     | VAMOS support in OsmoBSC  | neels    | 08/11/2021 02:47 PM | Related to #4941   |

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| 2623 | Cellular Network Infrastructure | Feature | New         | High     | SCCP/M3UA: detect restart of osmo-msc and osmo-sgsn  | neels    | 02/07/2021 12:55 PM | Related to #3403,Related to #4701 |
| 6319 | Osmo-CC                         | Feature | New         | Normal   | protocol version should have a defined end marker  | neels    | 01/10/2024 01:31 PM |                                   |
| 6151 | OsmoMSC                         | Feature | Feedback    | Normal   | osmo-msc: Ability to configure (VTY) the AMR(-WB) formats used in RAB-Assignment-Req             | neels    | 08/30/2023 08:16 PM |                                   |
| 5917 | libosmo-sccp + libosmo-sigtran  | Feature | Feedback    | Normal   | immediately detect SCTP SHUTDOWN in SCCP link / in SCCP user / in active SCCP connections        | neels    | 03/20/2023 10:23 AM |                                   |
| 5904 | OsmoHNBGW                       | Feature | New         | Normal   | HNBAP Register Request handling does checks that seem to make no sense                           | neels    | 09/01/2023 05:00 AM |                                   |
| 5679 | libosmo-sccp + libosmo-sigtran  | Feature | In Progress | Normal   | unsupported SCCP user primitive N-PCSTATE.indication   | neels    | 02/18/2023 01:46 AM |                                   |
| 5153 | OsmoHNBGW                       | Feature | In Progress | Normal   | support hnbgw co-located GTP-U proxy (UPF)   | neels    | 11/15/2022 09:54 AM | Related to #5154,Related to #5153 |
| 4716 | OsmoBSC                         | Feature | Stalled     | Normal   | support handover between different codec types, like TCH/F FR1 <--> TCH/H HR1                    | neels    | 10/28/2020 08:22 PM | Related to #4717                  |
| 4495 | IMSI Pseudonymization           | Feature | New         | Normal   | Specification: More references   | neels    | 05/27/2020 01:11 PM |                                   |
| 4494 | IMSI Pseudonymization           | Feature | New         | Normal   | Specification: Add bibliography  | neels    | 05/27/2020 01:11 PM |                                   |
| 4493 | IMSI Pseudonymization           | Feature | New         | Normal   | Specification: Cover 2G, 3G and 4G separately  | neels    | 05/27/2020 01:11 PM |                                   |
| 4476 | IMSI Pseudonymization           | Feature | Stalled     | Normal   | OsmoHLR: support IMSI pseudo in location update  | neels    | 05/27/2020 01:11 PM | Blocks #4477                      |
| 3656 | OsmoBSC                         | Feature | New         | Normal   | inter-BSC handover outgoing: compose Cell Identifier List from several ARFCN+BSIC                | neels    | 06/08/2020 07:08 PM | Related to #3656                  |
| 3644 | OsmoHLR                         | Feature | New         | Normal   | allow arbitrary bytes in Global Title (GT), a.k.a. the VLR,SGSN's identification towards the HLR | neels    | 12/01/2019 10:02 AM | Related to #3644,Related to #3644 |
| 3620 | OsmoMSC                         | Feature | Stalled     | Normal   | Implement TTCN-3 testsuite for Inter-MSC HO  | neels    | 09/04/2019 09:08 AM |                                   |
| 3586 | OsmoBSC                         | Feature | New         | Normal   | support LCLS for inter-BSC handover  | neels    | 01/17/2019 04:18 PM | Related to #3586,Related to #3659 |
| 3505 | OsmoBSC                         | Feature | New         | Normal   | ttn3: test inter-BSC HO with encryption enabled  | neels    | 08/28/2018 06:38 PM | Related to #3505                  |
| 3483 | OsmoBSC                         | Feature | New         | Normal   | handover decision: if rxlev is ok but rxqual is bad, move from TCH/H to TCH/F                    | neels    | 10/16/2018 01:53 PM | Related to #3483                  |
| 3069 | OsmoMSC                         | Feature | New         | Normal   | investigate multiple CM Service Request on the same conn   | neels    | 10/28/2020 08:36 PM | Is duplicate of #3069             |
| 2795 | OsmoMSC                         | Feature | New         | Normal   | Handle UTRAN_CLSM_CHG in MSC   | neels    | 04/30/2018 12:06 PM | Related to #3043                  |
| 2788 | OsmoMSC                         | Feature | New         | Normal   | OsmoMSC should handle CM Service Abort message   | neels    | 01/04/2018 10:37 AM |                                   |

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| 2781 | OsmoBSC  | Feature | Feedback    | Normal   | Extend OsmBSC TTCN-3 test coverage regarding resource leaks                     | neels    | 03/25/2022 05:56 AM | Related to #2781,Related to #2781,Related to #5355,Related to #5337 |
| 6085 | OsmoHNBGW                                      | Feature | New         | Low      | context_map_sccp.c parrots states/events that the SCCP-SCOC FSM already handles | neels    | 10/18/2023 03:31 PM |   |
| 6051 | OsmoHNBGW                                      | Feature | New         | Low      | misnomer in internal SCCP functions   | neels    | 07/06/2023 08:26 PM |   |
| 4010 | OsmoBSC  | Feature | New         | Low      | Test RSL CHAN ACT related details for different scenarios                       | neels    | 02/06/2021 10:04 AM | Related to #4010,Related to #4010                                   |
| 3714 | Cellular Network Infrastructure                | Feature | New         | Low      | implement Internal Handover With MSC Support                                    | neels    | 02/06/2021 02:04 PM | Related to #3714  |
| 3352 | OsmoMGW  | Feature | Feedback    | Low      | osmo-mgw does not allow multiple codecs in LCO                                  | neels    | 01/08/2020 10:25 PM |   |
| 2840 | OsmoHLR  | Feature | New         | Low      | HLR should allow 2g-only or 3g-only subscribers                                 | neels    | 10/28/2020 09:22 PM |   |
| 2584 | Cellular Network Infrastructure                | Feature | New         | Low      | Have "osmo-network-check" to verify "Network In The Box" setup                  | neels    | 10/05/2018 04:20 PM | Related to #2618  |
| 5002 | M.2 (NGFF) WWAN modem USB breakout board       | Feature | New         | Normal   | Ensure current return paths via M.2 connector are sufficient                    | mschramm | 03/23/2021 06:48 PM |   |
| 4810 | osmo-clock-conv                                | Feature | New         | Normal   | horizontal DC input on rear side of PCB   | mschramm | 10/15/2020 10:53 PM |   |
| 4030 | OsmocomBB                                      | Feature | In Progress | Normal   | design breakout board for GTM900-B  | mschramm | 01/05/2024 08:00 AM | Related to #4575,Related to #4610                                   |
| 3711 | SIMtrace 2                                     | Feature | New         | Normal   | Add screw holes for permanent installations                                     | mschramm | 11/01/2023 08:28 PM |   |
| 4678 | osmo-clock-gen                                 | Feature | New         | Low      | Increase mounting hole size to support M3 screws                                | mschramm | 07/25/2020 08:43 PM |   |
| 1912 | SIMtrace 2                                     | Feature | Stalled     | Low      | do proper re-layout of the board  | mschramm | 10/20/2020 08:39 AM | Related to #4118  |
| 1706 | SIMtrace 2                                     | Feature | In Progress | Low      | Hardware / Circuit board update for SAM3S based SIMtrace2 with 1.8V/5V support  | mschramm | 10/28/2023 11:25 AM | Related to #1706,Related to #5464,Related to #4118,Related to #5826 |
| 1457 | SIMtrace 2                                     | Feature | New         | Low      | Spacing between JTAG and JP1/JP2  | mschramm | 09/13/2018 07:07 PM |   |
| 5730 | OsmoMGW  | Feature | New         | Low      | Fax over GSM support  | manawyrm | 10/16/2023 08:53 PM | Precedes #5730  |
| 5861 | osmo-ePDG - VoWifi Evolved Packet Data Gateway | Feature | In Progress | Urgent   | extend charon with external authentication interface                            | lynxis   | 02/07/2024 04:00 PM | Related to #5868  |
| 6137 | OsmoHNBGW                                      | Feature | New         | Normal   | ip.access Nano3G  | lynxis   | 10/21/2023 07:24 PM |   |
| 5758 | OsmoDia2GSUP                                   | Feature | New         | Normal   | bring osmo_dia2gsup to production quality                                       | lynxis   | 03/30/2023 08:13 PM |   |
| 5757 | OsmoDia2GSUP                                   | Feature | Feedback    | Normal   | functional test suite for osmo_dia2gsup   | lynxis   | 09/06/2023 02:48 PM |   |

| #    | Project  | Tracker | Status      | Priority | Subject   | Assignee | Updated             | Related issues                    |
|------|--|---------|-------------|----------|---|----------|---------------------|-----------------------------------|
| 5507 | libosmocore  | Feature | New         | Normal   | Optimize reset time after SGSN is restarted                                   | lynxis   | 03/31/2022 12:33 PM |                                   |
| 4520 | osmo-gbproxy   | Feature | In Progress | Normal   | gbproxy: Redundancy between NS-VCs (BSS Side)                                 | lynxis   | 02/19/2021 04:50 PM | Related to #4520                  |
| 5481 | Open Source IMS Client                                 | Feature | New         | Urgent   | SIM card interface for doubango   | laforge  | 03/25/2022 11:00 AM | Related to #5482                  |
| 6290 | Osmocom Conferences (OsmoDevCon, OsmoCon, OsmoDevCall) | Feature | In Progress | High     | Organize OsmoDevCon 2024  | laforge  | 03/06/2024 12:06 PM |                                   |
| 5480 | Open Source IMS Client                                 | Feature | In Progress | High     | Linux kernel IPsec plugin for doubango  | laforge  | 03/25/2022 10:44 AM |                                   |
| 3977 | OsmoCBC  | Feature | New         | High     | SABP stream delineation routines  | laforge  | 09/23/2019 04:49 AM | Related to #3979,Related to #4944 |
| 2604 | Cellular Network Infrastructure                        | Feature | Stalled     | High     | GSUP-to-DIAMETER converter / IWF  | laforge  | 02/29/2020 11:27 AM | Related to #5646                  |
| 6392 | Osmocom Conferences (OsmoDevCon, OsmoCon, OsmoDevCall) | Feature | New         | Normal   | video recording / c3voc at OsmoDevCon 2024                                    | laforge  | 03/06/2024 12:08 PM |                                   |
| 6219 | Retronetworking  | Feature | New         | Normal   | Publish pics/videos for EWSD rescue/move                                      | laforge  | 10/17/2023 02:10 PM |                                   |
| 6218 | Retronetworking  | Feature | New         | Normal   | write article/report on EWSD rescue for IGHT / Fernmeldemuseum Dresden        | laforge  | 10/17/2023 02:11 PM |                                   |
| 6089 | pySim  | Feature | Feedback    | Normal   | log the current file / operation during execution of a script                 | laforge  | 11/27/2023 04:37 PM |                                   |
| 6023 | Core testing infrastructure                            | Feature | Stalled     | Normal   | test rack/lab power management software with usage/reference counting         | laforge  | 10/18/2023 05:42 PM |                                   |
| 5938 | Retrocomputing   | Feature | In Progress | Normal   | assemble "fake parallel printer"  | laforge  | 09/13/2023 09:32 AM |                                   |
| 5929 | Cellular Network Infrastructure                        | Feature | In Progress | Normal   | document current (milestones of) nlnet funded projects; mention nlnet funding | laforge  | 04/04/2023 10:05 AM |                                   |
| 5855 | Retronetworking  | Feature | New         | Normal   | Establishing a German non-profit for retronetworking                          | laforge  | 01/13/2023 11:59 AM |                                   |
| 5826 | SIMtrace 2   | Feature | Stalled     | Normal   | SAM4S4BA support in firmware  | laforge  | 01/31/2023 08:06 PM | Related to #5826                  |
| 5691 | libosmo-abis   | Feature | Stalled     | Normal   | Expose DAHDI statistics to prometheus   | laforge  | 01/05/2023 06:06 PM |                                   |
| 5633 | osmo-clock-gen   | Feature | New         | Normal   | towards a first osmo-clock-gen production batch                               | laforge  | 07/26/2022 12:39 PM |                                   |
| 5614 | osmo-remsim  | Feature | New         | Normal   | log also application-level errors   | laforge  | 07/11/2022 08:09 PM |                                   |
| 5466 | OsmocomBB  | Feature | New         | Normal   | CP2102N evaluation for burst_ind baudrate                                     | laforge  | 02/22/2022 07:17 PM |                                   |
| 5442 | OCTOI - Osmocom Community TDM over IP                  | Feature | New         | Normal   | ensure sequence number covers longer duration than default PRI LOS timer      | laforge  | 02/06/2022 08:16 AM |                                   |
| 5429 | OCTOI - Osmocom Community TDM over IP                  | Feature | New         | Normal   | authentication in TDMoIP protocol   | laforge  | 11/07/2022 05:29 PM |                                   |
| 5422 | SIMtrace 2   | Feature | In Progress | Normal   | "cardem" continuous testing setup   | laforge  | 01/27/2022 12:22 PM | Related to #5422                  |
| 5403 | OsmoMSC  | Feature | New         | Normal   | Can't connect Call from 2G to 4G network                                      | laforge  | 01/14/2022 10:41 PM |                                   |
| 5268 | pySim  | Feature | New         | Normal   | pySim-shell: GlobalPlatform SCP02 support                                     | laforge  | 10/14/2021 07:12 PM | Related to #5268                  |

| #    | Project                               | Tracker | Status   | Priority | Subject  | Assignee | Updated             | Related issues                                 |
|------|---------------------------------------|---------|----------|----------|--|----------|---------------------|--|
| 5127 | pySim                                 | Feature | New      | Normal   | tool for "re-formatting" [systocom] cards in tester                                  | laforge  | 10/14/2021 07:16 PM | Related to #5127                               |
| 5124 | Cellular Network Infrastructure       | Feature | Feedback | Normal   | network:osmocom:nightly feed with "-O0" builds                                       | laforge  | 05/11/2023 11:11 AM |  |
| 4917 | osmo-e1d                              | Feature | Stalled  | Normal   | reporting of alarms/errors known to the icE1usb                                      | laforge  | 04/10/2022 10:36 AM |  |
| 4727 | libosmocom                            | Feature | Feedback | Normal   | Add more distro/platform/archs to jenkins CI   | laforge  | 05/15/2023 09:48 AM | Is duplicate of #4789                          |
| 4692 | Core testing infrastructure           | Feature | Stalled  | Normal   | finally implement testing of the actual voice audio path                             | laforge  | 04/19/2021 06:27 PM |  |
| 4650 | OsmoBSC                               | Feature | New      | Normal   | Add BIG FAT error message in case OM2000 BTS fail to start up                        | laforge  | 07/04/2020 07:30 PM |  |
| 4521 | osmo-gbproxy                          | Feature | New      | Normal   | gbproxy: Redundancy between NS-VCs (SGSN Side)                                       | laforge  | 01/19/2021 05:24 PM | Related to #4959                               |
| 4498 | osmo-uecups                           | Feature | New      | Normal   | IPv6 neighbor discovery  | laforge  | 04/17/2020 08:33 AM |  |
| 4341 | BBS-Revival                           | Feature | New      | Normal   | setup for telnet access to legacy BBS software which doesn't have telnet/tcp support | laforge  | 10/03/2022 12:09 PM |  |
| 4249 | osmo-remsim                           | Feature | New      | Normal   | ability to explicitly provision an "empty SIM card slot" to a modem                  | laforge  | 09/08/2021 07:48 PM | Related to #5216                               |
| 4105 | libosmocom                            | Feature | New      | Normal   | Support for LTE key derivation functions   | laforge  | 07/13/2019 02:07 AM | Related to #4105                               |
| 3886 | osmo-remsim                           | Feature | New      | Normal   | expose ICCID or even IMSI of all cards on remsim-server                              | laforge  | 05/08/2019 03:31 PM | Precedes #3886                                 |
| 3885 | osmo-remsim                           | Feature | New      | Normal   | remsim-server should expose status information                                       | laforge  | 04/01/2019 07:23 PM | Precedes #3885                                 |
| 3884 | osmo-remsim                           | Feature | New      | Normal   | redesign bankd thread architecture   | laforge  | 05/08/2019 03:31 PM | Related to #5527,Precedes #3885,Precedes #3886 |
| 3566 | Misc Hardware Projects                | Feature | Stalled  | Normal   | power supply / battery / charge for our GSM-R OPS 940                                | laforge  | 04/02/2023 09:05 AM |  |
| 3371 | SIMtrace 2                            | Feature | New      | Normal   | migrate to use arm-none-eabi build of libosmocom.git                                 | laforge  | 08/09/2018 12:14 PM |  |
| 2724 | OsmoBSC                               | Feature | New      | Normal   | Improve default timers   | laforge  | 01/04/2018 11:06 AM | Related to #2724                               |
| 1908 | osmo-qcdiag                           | Feature | New      | Normal   | add VTY interface to osmo-qcdiag   | laforge  | 01/12/2017 01:15 PM |  |
| 1460 | SIMtrace 2                            | Feature | New      | Normal   | include some version information / negotiation in the USB protocol                   | laforge  | 12/06/2019 01:39 PM | Related to #1461,Related to #4041              |
| 6246 | OCTOI - Osmocom Community TDM over IP | Feature | New      | Low      | co-locate cisco 2811 for FrameRelay and X.25   | laforge  | 11/06/2023 01:48 PM |  |
| 6245 | OCTOI - Osmocom Community TDM over IP | Feature | New      | Low      | co-locate cisco 2811 ITP/STP in data center  | laforge  | 11/06/2023 01:46 PM |  |
| 6244 | Retronetworking                       | Feature | New      | Low      | scan more/all EWS(O) documentation laforge has                                       | laforge  | 11/01/2023 09:50 PM |  |
| 6237 | Retronetworking                       | Feature | New      | Low      | Design + Build PCBA for NE555 based fake fan rpm sensor                              | laforge  | 10/30/2023 01:38 AM |  |
| 6195 | Retronetworking                       | Feature | New      | Low      | Wiki page on Cisco *WIC-* line cards for 26xx/28xx series                            | laforge  | 10/08/2023 07:33 AM |  |
| 6194 | Retronetworking                       | Feature | New      | Low      | wiki page on MultiTech MT5600-BL   | laforge  | 09/27/2023 12:46 PM |  |
| 6086 | pySim                                 | Feature | New      | Low      | implement features of sysmo-{usim,isim}-tool   | laforge  | 07/13/2023 04:09 AM |  |

| #    | Project                               | Tracker | Status      | Priority | Subject   | Assignee | Updated             | Related issues                    |
|------|---------------------------------------|---------|-------------|----------|---|----------|---------------------|-----------------------------------|
| 5947 | Retrocomputing                        | Feature | New         | Low      | Assemble PC104-SVGA   | laforge  | 03/15/2023 09:29 AM |                                   |
| 5940 | Retrocomputing                        | Feature | New         | Low      | Assemble LPT_Capture  | laforge  | 03/15/2023 09:06 AM |                                   |
| 5936 | Retrocomputing                        | Feature | New         | Low      | Assemble netpi-ide  | laforge  | 03/02/2023 09:25 PM |                                   |
| 5934 | Retrocomputing                        | Feature | In Progress | Low      | Assemble Pico-GUS   | laforge  | 03/06/2023 04:25 PM |                                   |
| 5933 | Retrocomputing                        | Feature | In Progress | Low      | Assemble XT-CF-Lite v4.1  | laforge  | 03/20/2023 09:54 AM |                                   |
| 5932 | Retrocomputing                        | Feature | New         | Low      | assemble ISA-USB  | laforge  | 03/02/2023 09:25 PM |                                   |
| 5892 | SDR (Software Defined Radio)          | Feature | Stalled     | Low      | design/build ext clock input board for PlutoSDR Rev.B                             | laforge  | 10/18/2023 05:23 PM |                                   |
| 5885 | OCTOI - Osmocom Community TDM over IP | Feature | New         | Low      | set up a second GPS03 + icE1usb setup   | laforge  | 01/31/2023 08:05 PM | Related to #5885                  |
| 5745 | osmo-lab-rack                         | Feature | In Progress | Low      | component carrier Ethernet switch   | laforge  | 02/03/2023 11:29 AM |                                   |
| 5488 | Retronetworking                       | Feature | In Progress | Low      | create DAHDI mirror sniffer   | laforge  | 11/07/2022 06:04 PM |                                   |
| 5437 | OCTOI - Osmocom Community TDM over IP | Feature | New         | Low      | brainstorm about making protocol even more efficient                              | laforge  | 01/30/2022 01:45 PM |                                   |
| 5436 | OCTOI - Osmocom Community TDM over IP | Feature | New         | Low      | BRI variant of OCTOI protocol   | laforge  | 01/30/2023 06:49 PM | Related to #5436                  |
| 5417 | OCTOI - Osmocom Community TDM over IP | Feature | Stalled     | Low      | S/T (S0) ISDN BRI adapter with VCXO / GPS-DO                                      | laforge  | 05/16/2023 08:06 AM | Related to #5436                  |
| 4944 | OsmoCBC                               | Feature | New         | Low      | 3G SABP support in OsmoCBC  | laforge  | 01/13/2021 09:13 AM | Related to #4944,Related to #4944 |
| 4809 | osmo-clock-conv                       | Feature | New         | Low      | alignment of DC barrel with face plate  | laforge  | 10/16/2020 05:29 PM | Related to #4814                  |
| 4608 | libosmo-sccp + libosmo-sigtran        | Feature | New         | Low      | "action" commands to interactively shutdown/re-enable/restart sigtran connections | laforge  | 06/10/2020 01:12 PM |                                   |
| 4535 | OsmoMGW                               | Feature | In Progress | Low      | Develop "E1/Abis generator"   | laforge  | 01/02/2022 01:57 PM | Precedes #2547                    |
| 4496 | osmo-uecups                           | Feature | New         | Low      | implement filters for sharing as single tun device between multiple bearers       | laforge  | 04/17/2020 08:31 AM |                                   |
| 3887 | osmo-remsim                           | Feature | New         | Low      | remsim-client: allow for local handling of APDUs                                  | laforge  | 12/03/2019 12:20 AM |                                   |
| 2601 | libosmo-sccp + libosmo-sigtran        | Feature | New         | Low      | osmo-msc still needs libosmo-sccp-dev for SCCP CAUSE definitions                  | laforge  | 02/13/2021 06:07 PM |                                   |
| 2394 | OsmoHNBGW                             | Feature | New         | Low      | Implement SABP (Service Area Broadcast Protocol)                                  | laforge  | 12/30/2020 01:19 AM | Related to #2392,Related to #3979 |
| 1975 | Cellular Network Infrastructure       | Feature | New         | Low      | Redesigned configuration management / MIB   | laforge  | 02/16/2021 05:59 PM |                                   |
| 1463 | SIMtrace 2                            | Feature | New         | Low      | Add VCC current sensing circuit for SPA & DPA attacks                             | laforge  | 08/27/2018 07:05 AM | Related to #1706                  |

| #    | Project        | Tracker | Status      | Priority | Subject   | Assignee      | Updated             | Related issues   |
|------|----------------|---------|-------------|----------|---|---------------|---------------------|--|
| 5106 | OsmoBSC        | Feature | Feedback    | Urgent   | Watchdog that would try to un-BORKE BORKen timeslots                | keith         | 02/07/2023 06:25 PM | Related to #5106,Related to #5785,Related to #5786,Related to #5106  |
| 4922 | OsmoBSC        | Feature | In Progress | Normal   | Implement MS Power Control  | keith         | 11/04/2021 06:37 PM |  |
| 2487 | OsmoMSC        | Feature | Stalled     | Normal   | MSC side of LCLS (local call local switching) as per the 3GPP specs | keith         | 10/17/2022 04:31 AM | Related to #1602,Related to #3659,Related to #3691,Related to #3618,Related to #3294,Related to #5712,Blocks #2487 |
| 5833 | OsmoPCU        | Feature | New         | Low      | A "meas-feed" for osmo-pcu  | keith         | 12/18/2022 06:42 PM |  |
| 5740 | OsmoBSC        | Feature | New         | Low      | Disallow unworkable AMR modes.                                      | keith         | 11/08/2022 05:15 PM |  |
| 5755 | OsmoBSC        | Feature | In Progress | High     | io_uring support in osmo-bsc  | jolly         | 03/02/2024 08:06 PM | Related to #5755,Related to #6357  |
| 6136 | OsmoMGW        | Feature | Stalled     | Normal   | libosmo-mgcp-client should ignore unknown codecs in SDP             | jolly         | 12/07/2023 06:27 AM | Related to #6136,Related to #6177,Blocks #6136   |
| 3672 | Osmocom Analog | Feature | New         | Normal   | Custom announcement and tones                                       | jolly         | 02/01/2021 10:25 AM |  |
| 5143 | Osmocom Analog | Feature | New         | Low      | Using ADALM PLUTO SDR with osmocom-analog                           | jolly         | 05/05/2021 05:01 PM |  |
| 4971 | Osmocom Analog | Feature | New         | Low      | OsmoCC Socket Documentation   | jolly         | 10/18/2023 02:49 PM |  |
| 5805 | SIMtrace 2     | Feature | New         | Normal   | SIM Trace 2 Build for Windows                                       | jelson_simEng | 04/02/2023 09:56 AM |  |
| 1510 | UmTRX          | Feature | New         | High     | Complete UHD integration  | ipse          | 02/21/2016 04:47 PM |  |
| 1508 | UmTRX          | Feature | New         | High     | Implement UmSEL diversity switch control                            | ipse          | 02/21/2016 04:47 PM |  |
| 1507 | UmTRX          | Feature | New         | High     | Implement UmSEL tuner control                                       | ipse          | 02/21/2016 04:47 PM |  |
| 3747 | UmTRX          | Feature | New         | Normal   | LMS6002D RX Gain Control  | ipse          | 01/08/2019 09:46 AM |  |
| 1509 | UmTRX          | Feature | New         | Normal   | Store calibration values in EEPROM                                  | ipse          | 02/21/2016 04:47 PM |  |
| 1506 | UmTRX          | Feature | New         | Normal   | Move to the latest stable UHD                                       | ipse          | 02/21/2016 04:47 PM |  |
| 3802 | gr-osmosdr     | Feature | New         | Normal   | New release   | horiz0n       | 02/15/2019 07:22 AM |  |
| 3414 | gr-osmosdr     | Feature | New         | Normal   | Include Airspy serial number in connection string.                  | horiz0n       | 07/24/2018 04:52 AM |  |
| 3597 | gr-osmosdr     | Feature | New         | Low      | rtl: send final samples when device is lost                         | horiz0n       | 07/18/2019 05:35 AM |  |
| 5516 | OsmoTRX        | Feature | In Progress | High     | BladeRF 2.0 Support   | Hoernchen     | 02/14/2023 02:59 PM | Is duplicate of #2430  |
| 5859 | OsmoTRX        | Feature | New         | Normal   | remove non-neon and non-sse support                                 | Hoernchen     | 01/16/2023 10:17 PM |  |
| 5214 | OsmoMGW        | Feature | In Progress | Normal   | osmo-mgw multithreading   | Hoernchen     | 08/31/2021 09:20 AM |  |

| #    | Project                         | Tracker | Status  | Priority | Subject  | Assignee  | Updated             | Related issues   |
|------|---------------------------------|---------|---------|----------|--|-----------|---------------------|--|
| 5228 | OsmoTRX                         | Feature | New     | Low      | osmo-trx: Missing unit tests for computeCI() and computeEdgeCI()     | Hoernchen | 11/07/2022 06:23 PM |  |
| 4073 | Cellular Network Infrastructure | Feature | Stalled | Low      | try to get counter and vty reference information at compile time     | Hoernchen | 02/06/2021 02:17 PM | Related to #4073,Related to #4848  |
| 3699 | Cellular Network Infrastructure | Feature | Stalled | Low      | merge Debian patches   | Hoernchen | 01/08/2020 10:24 PM | Related to #3699,Related to #3753  |
| 3399 | OsmocomBB                       | Feature | Stalled | High     | mobile: refactor / finish external MNCC handler implementation       | fixeria   | 10/04/2018 09:07 PM |  |
| 2409 | OsmocomBB                       | Feature | Stalled | High     | Add GPRS support to virt_phy and L1CTL                               | fixeria   | 08/19/2022 03:06 PM |  |
| 1461 | OsmocomBB                       | Feature | Stalled | High     | include some version information / negotiation in the L1CTL protocol | fixeria   | 10/27/2021 10:17 PM | Related to #1461,Related to #5815  |
| 6132 | OsmocomBB                       | Feature | New     | Normal   | Add MS_GPRS_Tests to osmo-ttcn3-hacks                                | fixeria   | 10/04/2023 10:29 PM | Related to #6132   |
| 5283 | OsmoTRX                         | Feature | New     | Normal   | Implement TRXDv2 support   | fixeria   | 10/27/2021 10:35 PM | Related to #5283   |
| 5025 | OsmoBTS                         | Feature | New     | Normal   | Missing TTCN-3 coverage for the Timing Advance loop                  | fixeria   | 07/02/2021 04:28 PM |  |
| 4941 | OsmoBTS                         | Feature | Stalled | Normal   | VAMOS support in OsmoBTS   | fixeria   | 03/18/2022 01:19 AM | Related to #4941,Related to #4941,Blocks #4941   |
| 4006 | Cellular Network Infrastructure | Feature | Stalled | Normal   | TRX protocol: wind of change   | fixeria   | 10/27/2021 10:22 PM | Related to #4006,Related to #4006,Related to #4006,Related to #4081,Related to #4658,Related to #4941,Related to #5283 |
| 3666 | OsmocomBB                       | Feature | New     | Normal   | trxcon: Introduce VTY interface                                      | fixeria   | 02/26/2020 02:43 PM | Related to #3667   |
| 3521 | libosmocore                     | Feature | New     | Normal   | core/utils: engineering notation helpers                             | fixeria   | 09/04/2018 08:32 PM |  |
| 1545 | OsmoPCU                         | Feature | Stalled | Normal   | continuous timing advance loop using PTCCH                           | fixeria   | 03/24/2020 09:49 PM | Related to #1545,Related to #4102,Related to #4500,Blocks #1545  |
| 1526 | OsmoPCU                         | Feature | Stalled | Normal   | Acquire/update timing advance (TA)                                   | fixeria   | 03/25/2021 12:04 PM | Related to #1545,Related to #1531,Related to #1524,Related to #3472,Related to #2977                                   |
| 3628 | Cellular Network Infrastructure | Feature | New     | Low      | document nanoBTS calibration procedure using ipaccess-config tool    | fixeria   | 02/06/2021 02:03 PM | Related to #3628   |

| #    | Project                         | Tracker | Status      | Priority | Subject  | Assignee | Updated             | Related issues   |
|------|---------------------------------|---------|-------------|----------|--|----------|---------------------|--|
| 3522 | libosmocore                     | Feature | New         | Low      | libosmocoding: move TCH ordering functions to libosmocodec and share them                        | fixeria  | 09/04/2018 08:49 PM |  |
| 1597 | OsmoMSC                         | Feature | Stalled     | Low      | External interface for USSD  | fixeria  | 11/27/2018 11:08 PM | Related to #1597,Related to #3433  |
| 1568 | OsmoBTS                         | Feature | New         | Low      | Move various code bits to libosmocore  | fixeria  | 07/18/2019 06:08 AM |  |
| 6135 | OsmoHLR                         | Feature | Stalled     | Normal   | Implement routing of SMS-over-GSUP messages between connected MSC/VLRs and SMSCs                 | falconia | 01/09/2024 01:11 PM | Related to #6312   |
| 4200 | OsmoMSC                         | Feature | In Progress | Normal   | Work around nano3G-S16 requiring RAB ID to be below 16   | efistokl | 09/14/2019 09:48 AM |  |
| 3659 | OsmoBSC                         | Feature | Stalled     | High     | handover during LCLS directly between BTSs   | dexter   | 05/22/2023 09:23 AM | Related to #3659,Related to #3659,Related to #3659,Related to #3659,Related to #3659,Related to #3783                  |
| 6265 | pySim                           | Feature | New         | Normal   | decode numeric SW in case of errors  | dexter   | 12/11/2023 01:01 PM |  |
| 6171 | OsmoMGW                         | Feature | In Progress | Normal   | mgcp-client API: there should be a separate mgcp_codec_param for each codec in mgcp_msg.codecs[] | dexter   | 11/01/2023 04:15 PM | Related to #6171   |
| 6150 | OsmoPCU                         | Feature | New         | Normal   | PCUIF: Use unique identifiers instead of the TLLI as msg_id.                                     | dexter   | 10/24/2023 03:15 PM |  |
| 6139 | OsmoSGSN                        | Feature | New         | Normal   | test mobility between GERAN (OsmoPCU) and EUTRAN (Open5GS) end to end on real hardware           | dexter   | 04/02/2024 09:38 AM |  |
| 6069 | Cellular Network Infrastructure | Feature | In Progress | Normal   | port hello-stk to ant-based build like mrInc/HelloSTK2   | dexter   | 11/02/2023 12:52 PM |  |
| 5760 | Core testing infrastructure     | Feature | Stalled     | Normal   | Develop TTCN-3 test suite for MME  | dexter   | 10/04/2023 01:51 PM |  |
| 5759 | OsmoSGSN                        | Feature | Stalled     | Normal   | Support for Mobility between SGSN (2G/3G) and S-GW (4G)  | dexter   | 12/07/2023 12:40 PM | Related to #5759   |
| 4384 | pySim                           | Feature | Stalled     | Normal   | Jenkins program-read verification on daily (or weekly) basis                                     | dexter   | 03/27/2023 04:13 PM | Related to #4384   |
| 2977 | OsmoBTS                         | Feature | Stalled     | Normal   | OsmoBTS measurment processing at L1SAP too complex / pass measurements along with data           | dexter   | 05/18/2020 06:47 PM | Related to #2977,Related to #2977,Related to #3530,Related to #3428,Related to #3395,Related to #2977,Related to #3803 |
| 6211 | pySim                           | Feature | In Progress | Low      | decode security attributes _compact_ in human-readable way, like we decode EF.ARR                | dexter   | 12/15/2023 07:22 AM | Related to #6211   |
| 6092 | pySim                           | Feature | New         | Low      | "export" suport for ARA-M  | dexter   | 10/31/2023 06:40 PM |  |
| 5976 | pySim                           | Feature | New         | Low      | pySim-prog: do not program linked files multiple times   | dexter   | 03/27/2023 04:05 PM |  |

| #    | Project  | Tracker | Status      | Priority | Subject   | Assignee | Updated             | Related issues                    |
|------|--|---------|-------------|----------|---|----------|---------------------|-----------------------------------|
| 4841 | OsmoMGW  | Feature | Stalled     | Low      | TC_e1_crcx_and_dlcx_ep does not pass - move the IPA code out of libosmo-abis            | dexter   | 10/11/2021 10:10 AM | Related to #4841,Related to #4841 |
| 6294 | OsmoSGSN                                       | Feature | New         | High     | Support GN/Gp interoperation procedures between SGSN and MME                            | daniel   | 04/22/2024 06:04 PM | Related to #6294,Related to #6439 |
| 4522 | osmo-gbproxy                                   | Feature | Stalled     | High     | gbproxy: Redundancy within proxy pair   | daniel   | 07/09/2021 06:43 PM |                                   |
| 4951 | osmo-gbproxy                                   | Feature | In Progress | Normal   | more TTCN3 tests for SGSN pooling   | daniel   | 07/08/2021 08:36 PM | Related to #4951,Related to #4952 |
| 3285 | OsmoPCU  | Feature | New         | Normal   | design + implement tools to analyze inter-PCU cell changes                              | daniel   | 02/06/2021 11:12 AM | Related to #3284                  |
| 2523 | OsmoMGW  | Feature | New         | Normal   | transcoding: remove "not yet implemented" from MNCC manual once transcoding is in place | daniel   | 03/16/2018 07:54 PM |                                   |
| 5600 | SIMtrace 2                                     | Feature | Feedback    | Normal   | SIMtrace2 fails to emulate EMV cards  | boggy123 | 12/14/2022 01:07 PM |                                   |
| 5256 | OsmoBTS  | Feature | New         | High     | support for random padding in LAPDm downlink messages                                   |          | 10/12/2021 11:17 AM | Related to #5256                  |
| 2175 | OP25   | Feature | New         | High     | Update code for GNURadio 3.6 and later  |          | 04/22/2017 04:14 PM |                                   |
| 2173 | OP25   | Feature | New         | High     | Remove dependency on ET++   |          | 04/22/2017 04:14 PM |                                   |
| 2171 | OP25   | Feature | New         | High     | Use libfftw3 for IFFT/FFT functions.  |          | 04/22/2017 04:14 PM |                                   |
| 2167 | OP25   | Feature | New         | High     | Implement Encryption/Decryption P25 blocks  |          | 04/22/2017 04:15 PM |                                   |
| 2166 | OP25   | Feature | New         | High     | Add support for Max's I/Q 455khz downconverter  |          | 04/22/2017 04:15 PM |                                   |
| 2160 | OP25   | Feature | New         | High     | Add "datascope" to usrp_p25_rx.py   |          | 04/22/2017 04:16 PM |                                   |
| 2158 | OP25   | Feature | New         | High     | Create a shared library for decoding for WireShark and the decoder.                     |          | 04/22/2017 04:16 PM |                                   |
| 2157 | OP25   | Feature | New         | High     | Fix "traffic" tab so it displays data for non-HDU data units                            |          | 04/22/2017 04:16 PM |                                   |
| 2156 | OP25   | Feature | New         | High     | Implement forward error correction for HDU.   |          | 04/22/2017 04:16 PM |                                   |
| 2155 | OP25   | Feature | New         | High     | Replace FSK4 demodulation with IQ demodulator stage.                                    |          | 04/22/2017 04:16 PM |                                   |
| 1560 | OsmoPCU  | Feature | New         | High     | EDGE benchmarking / performance optimization / tuning                                   |          | 01/08/2020 10:31 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 |                                   |
| 6388 | libosmocore                                    | Feature | New         | Normal   | stats_reporter via osmo_io / io_uring?  |          | 03/02/2024 04:54 PM | Related to #6388                  |
| 6367 | pySim  | Feature | New         | Normal   | PC/SC <-> Android OMAPI bridge for pySim and others                                     |          | 02/17/2024 01:34 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                  |

| #    | Project  | Tracker | Status      | Priority | Subject   | Assignee | Updated             | Related issues                    |
|------|--|---------|-------------|----------|---|----------|---------------------|-----------------------------------|
| 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 |
| 6344 | libosmocore                                    | Feature | New         | Normal   | New TS 24.008 Bearer Capability codec API   |          | 01/24/2024 11:19 PM | Related to #6344                  |
| 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                  |
| 6316 | pySim  | Feature | New         | Normal   | include test data in user manual  |          | 12/23/2023 03:10 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                  |
| 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                  |
| 6242 | Core testing infrastructure                    | Feature | New         | Normal   | Test eUPF against ttcn3-upf-test setup  |          | 12/18/2023 11:33 AM |                                   |
| 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 |                                   |
| 6036 | OsmoBTS  | Feature | New         | Normal   | Implement ternary SID classification for HR1 uplink                                 |          | 05/17/2023 09:48 PM | Related to #6036,Related to #6036 |
| 6000 | OsmoMSC  | Feature | New         | Normal   | Allow emergency calls without IMSI (using IMEI as MI)                               |          | 04/12/2023 11:03 AM | Related to #6000                  |
| 5900 | OsmoUPF  | Feature | In Progress | Normal   | make sure chain ids used in the tunmap nft ruleset are unused                       |          | 02/09/2023 05:34 PM |                                   |
| 5867 | OsmoHNBGW                                      | Feature | New         | Normal   | HNBGW_Tests.ttcn should do HNBAP UE Register and De-Register tests                  |          | 01/21/2023 02:30 AM |                                   |
| 5853 | OsmoSGSN                                       | Feature | New         | Normal   | osmo-sgsn: Rework to use libosmo-gprs   |          | 01/11/2023 03:14 PM |                                   |
| 5838 | OsmoGSMTester                                  | Feature | New         | Normal   | Implement power switching for all BTSs  |          | 12/20/2022 05:30 PM |                                   |
| 5834 | OsmoPCU  | Feature | New         | Normal   | VTY option "two-phase-access" is misleading   |          | 12/19/2022 06:55 PM |                                   |
| 5814 | OsmoUPF  | Feature | New         | Normal   | tunmap: more concisely match on GTP-U packets                                       |          | 12/06/2022 07:30 PM |                                   |
| 5808 | gr-osmosdr                                     | Feature | New         | Normal   | New option, for selecting an input channel of a soapy_source_c                      |          | 12/05/2022 11:45 AM |                                   |
| 5780 | OsmoMSC  | Feature | New         | Normal   | Implement/Support UUS1  |          | 01/24/2023 10:48 AM |                                   |
| 5771 | Cellular Network Infrastructure                | Feature | New         | Normal   | series of presentations about the individual CN1 network elements                   |          | 11/14/2022 07:25 PM |                                   |
| 5768 | Retronetworking                                | Feature | New         | Normal   | retronetworking logo / artwork  |          | 04/07/2024 10:40 PM |                                   |
| 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 |                                   |
| 5721 | OsmoCBC  | Feature | New         | Normal   | CBC messages Geographical Scope and CBS Index                                       |          | 10/19/2022 07:23 AM |                                   |
| 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 PFDP CPF client VTY config   |          | 08/17/2022 03:29 PM | Related to #5648                  |

| #    | Project                               | Tracker | Status  | Priority | Subject   | Assignee | Updated             | Related issues                                     |
|------|---------------------------------------|---------|---------|----------|---|----------|---------------------|--|
| 5647 | OsmoHNBGW                             | Feature | New     | Normal   | cfg: separate PFCP Node ID from PFCP local address                                    |          | 08/17/2022 03:38 PM | Related to #5648,Related to #5682                  |
| 5641 | OsmoCBC                               | Feature | New     | Normal   | OsmoCBC doesn't yet support reloading cells becoming operational with active messages |          | 08/05/2022 05:10 PM |  |
| 5586 | OsmoBSC                               | Feature | New     | Normal   | Ericsson RBS could recover Unlocked state without osmo-bsc restart                    |          | 06/21/2022 10:23 PM | Related to #5983                                   |
| 5546 | OCTOI - Osmocom Community TDM over IP | Feature | New     | Normal   | build frame relay "hub" similar to ISDN "hub"   |          | 04/24/2022 03:03 PM |  |
| 5543 | Retronetworking                       | Feature | New     | Normal   | Contact manufacturers for leftover stock  |          | 06/27/2023 09:05 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                                   |
| 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                                   |
| 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 |
| 5446 | Cellular Network Infrastructure       | Feature | New     | Normal   | correlate git version to ttcn3 tests  |          | 02/07/2022 09:40 PM | Related to #5446                                   |
| 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 |  |
| 5434 | OCTOI - Osmocom Community TDM over IP | Feature | Stalled | Normal   | more statistics / counters  |          | 12/03/2023 11:17 AM |  |
| 5395 | OsmocomDECT                           | Feature | New     | Normal   | Support for LMX3161   |          | 01/09/2022 12:55 PM |  |
| 5323 | Core testing infrastructure           | Feature | New     | Normal   | Add docker image containing titan.core master   |          | 12/15/2021 04:43 PM | Related to #6187                                   |
| 5307 | Ericsson RBS 6xxx                     | Feature | New     | Normal   | Support for Multiple Sectors at an RBS site.  |          | 11/13/2021 08:20 PM |  |
| 5267 | pySim                                 | Feature | New     | Normal   | pySim-shell: Ability to deactivate entire applications on the card                    |          | 10/14/2021 07:12 PM | Related to #5268                                   |
| 5047 | OsmoSDR                               | Feature | New     | Normal   | Inconsistencies between SDR's in bias-tee parameter                                   |          | 12/19/2021 01:17 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 |  |
| 4961 | osmo-gbproxy                          | Feature | New     | Normal   | gbproxy support for "network sharing" via MOCN  |          | 01/20/2021 08:38 PM |  |
| 4846 | OsmoPCU                               | Feature | New     | Normal   | change RBB received block bitmap into 1s when everything was acked                    |          | 11/04/2020 02:29 AM |  |
| 4717 | OsmoMSC                               | Feature | New     | Normal   | support Handover with changing codec  |          | 08/18/2020 05:14 PM | Related to #4717                                   |
| 4638 | Altair LTE Modems                     | Feature | New     | Normal   | Mikrotik R11e-4G mtd dump   |          | 06/13/2021 10:15 AM |  |

| #    | Project                        | Tracker | Status      | Priority | Subject  | Assignee | Updated             | Related issues  |
|------|--------------------------------|---------|-------------|----------|--|----------|---------------------|---|
| 4635 | libosmo-sccp + libosmo-sigtran | Feature | New         | Normal   | quirks when initializing SS7 ASP   |          | 06/25/2020 04:46 PM | Related to #4635  |
| 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  |
| 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 |   |
| 4590 | libosmocore                    | Feature | New         | Normal   | Export talloc data as counters for better memory leakage monitoring in production                    |          | 09/12/2022 03:53 PM |   |
| 4580 | SDR (Software Defined Radio)   | Feature | New         | Normal   | gr-osmosdr compilation under GnuRadio 3.9.0  |          | 06/04/2020 01:13 AM |   |
| 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                                   |
| 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   |
| 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 |   |
| 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 |   |
| 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   |
| 4455 | OP25                           | Feature | New         | Normal   | AMBE CODEC   |          | 03/28/2020 09:53 PM |   |
| 4433 | OsmoGGSN (former OpenGGSN)     | Feature | New         | Normal   | sgsnemu: Add support for IPv4v6 EUAs   |          | 03/04/2020 10:44 AM |   |

| #    | Project                         | Tracker | Status   | Priority | Subject   | Assignee | Updated             | Related issues                    |
|------|---------------------------------|---------|----------|----------|---|----------|---------------------|-----------------------------------|
| 4418 | OsmocomBB                       | Feature | New      | Normal   | test-sim: support all libosmocore algorithms (comp128 v1, v2, v3; MILENAGE) |          | 02/26/2020 11:41 PM |                                   |
| 4415 | OsmoGGSN (former OpenGGSN)      | Feature | New      | Normal   | Document in OsmoGGSN User Manual the IPv6 allocation process over GTP       |          | 02/25/2020 03:05 PM |                                   |
| 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 |                                   |
| 4362 | OsmoTRX                         | Feature | Stalled  | Normal   | osmo-trx-lms: Support multi-arfcn feature                                   |          | 09/30/2020 08:09 PM | Related to #4362,Related to #4362 |
| 4336 | OsmoMSC                         | Feature | New      | Normal   | Convert vlr_lu_fsm.c to use osmo_tdef (and drop vlr_timer())                |          | 01/02/2020 05:32 PM | Related to #4337                  |
| 4196 | OsmoMSC                         | Feature | New      | Normal   | CC Setup, Call Confirmed: decode and use the Supported Codec List IE        |          | 09/25/2019 05:27 PM |                                   |
| 4124 | OsmoBSCNAT                      | Feature | New      | Normal   | OsmoBSCNAT : Write user manual  |          | 01/08/2020 10:56 PM | Related to #4124                  |
| 4033 | OsmoGGSN (former OpenGGSN)      | Feature | New      | Normal   | ttcn3-ggsn-test: Add tests to verify secondary pdp context management       |          | 05/30/2019 03:19 PM |                                   |
| 3738 | OsmoMSC                         | Feature | New      | Normal   | Clarify PS-part of struct vlr_subscr  |          | 12/19/2018 12:34 PM |                                   |
| 3687 | OsmoMSC                         | Feature | New      | Normal   | Expand "show bsc" command   |          | 11/11/2018 09:50 PM |                                   |
| 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 |                                   |
| 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 |                                   |
| 3564 | OsmoGSMTester                   | Feature | New      | Normal   | Investigate ofono and modems Cell Broadcast support                         |          | 01/08/2020 10:42 PM | Related to #3564                  |
| 3481 | OsmoBSC                         | Feature | New      | Normal   | handover from TCH/H to TCH/F to reduce load                                 |          | 06/08/2020 07:08 PM | Related to #3481,Related to #3481 |
| 3480 | OsmoBSC                         | Feature | New      | Normal   | handover from TCH/F to TCH/H to reduce load                                 |          | 06/08/2020 07:08 PM | Related to #3480,Related to #3481 |
| 3479 | OsmoBSC                         | Feature | New      | Normal   | test "every single failure" in osmo-bsc FSMs                                |          | 08/20/2018 11:15 AM | Related to #3479                  |

| #    | Project                         | Tracker | Status  | Priority | Subject  | Assignee | Updated             | Related issues   |
|------|---------------------------------|---------|---------|----------|--|----------|---------------------|--|
| 3445 | OsmoMSC                         | Feature | Stalled | Normal   | SS/USSD: clean up the local GSM 04.80 API  |          | 12/14/2018 01:57 PM |  |
| 3424 | OsmocomBB SDR PHY               | Feature | Stalled | Normal   | Transceiver: implement automatic TX delay measurement                              |          | 07/09/2023 07:46 PM |  |
| 3423 | OsmocomBB SDR PHY               | Feature | Stalled | Normal   | Receiver: hard-coded GSM 05.02 channel configuration                               |          | 07/09/2023 07:45 PM |  |
| 3344 | OsmoTRX                         | Feature | New     | Normal   | merge ttsou/siggen   |          | 06/13/2018 07:26 PM |  |
| 3330 | OsmoBSC                         | Feature | New     | Normal   | osmo-bsc: Implement IMMEDIATE ASSIGNMENT EXTENDED                                  |          | 06/08/2018 12:14 PM | Related to #3330   |
| 3329 | OsmoBTS                         | Feature | New     | Normal   | osmo-bts: Implement IMMEDIATE ASSIGNMENT EXTENDED                                  |          | 06/08/2018 12:02 PM | Related to #3330   |
| 3309 | libosmocore                     | Feature | New     | Normal   | osmo_timer_* should use monotonic clock  |          | 05/31/2018 03:59 PM | Related to #3309   |
| 3097 | OsmoBSC                         | Feature | New     | Normal   | ramping of "rxlev access min"  |          | 03/22/2018 11:51 AM | Related to #3097   |
| 3038 | multi-voltage USB UART          | Feature | New     | Normal   | Add mounting holes?  |          | 03/07/2018 02:12 AM |  |
| 2861 | OsmoGSMTester                   | Feature | New     | Normal   | osmo-gsm-tester: Add 3g support for sysmocell-5k                                   |          | 12/02/2019 01:36 PM | Related to #2860   |
| 2815 | linmodem                        | Feature | New     | Normal   | modern ptmx / pty handling (UNIX 98)   |          | 01/01/2018 02:48 PM |  |
| 2814 | Z-Netz                          | Feature | New     | Normal   | Create + Document classic CrossPoint setup on DOS (dosemu)                         |          | 01/01/2018 01:41 PM |  |
| 2813 | Z-Netz                          | Feature | New     | Normal   | Create + Document OpenXP setup on Linux  |          | 01/01/2018 01:41 PM |  |
| 2801 | linmodem                        | Feature | New     | Normal   | V.90 completion  |          | 01/01/2018 12:18 PM |  |
| 2800 | linmodem                        | Feature | New     | Normal   | Interop testing with real modems   |          | 01/01/2018 12:16 PM |  |
| 2799 | linmodem                        | Feature | New     | Normal   | SIP client support   |          | 01/01/2020 08:05 PM |  |
| 2798 | linmodem                        | Feature | New     | Normal   | ALSA Soundcard Support   |          | 01/01/2018 12:02 PM |  |
| 2707 | OsmoGSMTester                   | Feature | New     | Normal   | Add support for verifying content of log files after test is run                   |          | 12/04/2017 05:05 PM |  |
| 2697 | osmo-qcdiag                     | Feature | New     | Normal   | Create and add debian packages for osmo-qcdiag to osmocom debian repositories      |          | 11/30/2017 06:03 PM |  |
| 2646 | OsmoGSMTester                   | Feature | New     | Normal   | osmo-gsm-tester: Add osmo-sip-connector support                                    |          | 04/23/2018 10:40 AM |  |
| 2558 | Cellular Network Infrastructure | Feature | Stalled | Normal   | Scripts to manage thousands of "mobile" and hundreds of osmo-bts-virtual instances |          | 06/08/2020 07:07 PM | Related to #2557,Related to #2556,Related to #2555,Related to #2558,Blocks #2893 |
| 2399 | OsmoGSMTester                   | Feature | New     | Normal   | add tests for graceful restart of individual components                            |          | 07/25/2017 12:02 AM |  |
| 2390 | OsmoMSC                         | Feature | New     | Normal   | re-add osmocom specific TLVs to SMPP messages                                      |          | 12/23/2017 05:48 PM |  |
| 2379 | OsmocomBB                       | Feature | New     | Normal   | package as .deb  |          | 02/27/2020 02:39 PM |  |
| 2378 | OsmocomBB                       | Feature | New     | Normal   | Remove copy-pasted libosmocore ("git subtree") from osmocom-bb.git                 |          | 10/24/2018 02:13 PM |  |
| 2374 | OsmoGSMTester                   | Feature | New     | Normal   | osmo-gsm-tester: add test case: sms between MS with delivery report                |          | 08/10/2017 04:37 PM |  |
| 2318 | OsmoGSMTester                   | Feature | New     | Normal   | testing sysmobts: skip copying of binaries when the same are already installed     |          | 06/07/2017 03:55 PM |  |
| 2314 | OsmoGSMTester                   | Feature | New     | Normal   | osmo-gsm-tester: add test case: smpp: correct ESME routing                         |          | 05/31/2017 04:29 PM |  |

| #    | Project                               | Tracker | Status  | Priority | Subject   | Assignee | Updated             | Related issues  |
|------|---------------------------------------|---------|---------|----------|---|----------|---------------------|---|
| 2313 | OsmoGSMTester                         | Feature | New     | Normal   | osmo-gsm-tester: add test case: smpp: imsi extension                                  |          | 05/31/2017 04:27 PM |   |
| 2311 | OsmoGSMTester                         | Feature | New     | Normal   | osmo-gsm-tester: add test case: smpp: smpp_first feature                              |          | 05/31/2017 04:21 PM |   |
| 2266 | OsmoGSMTester                         | Feature | New     | Normal   | in the gsm tester, use ipa.py from openbsc instead of the current CTRL implementation |          | 10/16/2017 12:36 PM |   |
| 2230 | OsmoGSMTester                         | Feature | New     | Normal   | osmo-gsm-tester: arfcn as resource  |          | 12/14/2017 04:08 PM | Related to #2230  |
| 2224 | SDR (Software Defined Radio)          | Feature | New     | Normal   | New Fospor Benchmark Performance  |          | 05/04/2017 01:23 PM |   |
| 2197 | OsmoGSMTester                         | Feature | Stalled | Normal   | osmo-gsm-tester: use MNCC interface   |          | 11/30/2017 10:41 AM | Related to #2194,Is duplicate of #2197                              |
| 2191 | OsmoMSC                               | Feature | New     | Normal   | raw PDU mode for SMPP   |          | 12/23/2017 05:48 PM |   |
| 1997 | OsmoHNBGW                             | Feature | New     | Normal   | Improve error check at compilation time   |          | 10/21/2021 04:28 PM |   |
| 1987 | libosmocore                           | Feature | New     | Normal   | gcov code coverage test support   |          | 12/01/2019 01:42 PM | Related to #1987,Is duplicate of #1987                              |
| 1901 | osmo-qcdiag                           | Feature | New     | Normal   | osmo-qcdiag: Ability to read/write NV data  |          | 01/11/2017 12:15 PM |   |
| 1900 | osmo-qcdiag                           | Feature | New     | Normal   | osmo-qcdiag: Add FUSE based access for EFS  |          | 01/11/2017 12:15 PM |   |
| 1858 | OsmoBSC                               | Feature | New     | Normal   | make BSC also generate ALERTs   |          | 12/10/2017 07:59 PM |   |
| 1857 | OsmoBSC                               | Feature | New     | Normal   | aggregate and report OML ALERT messages received from BTSs                            |          | 12/10/2017 08:16 PM | Related to #1615,Related to #1605                                   |
| 1832 | Linux Kernel GTP-U                    | Feature | New     | Normal   | OpenvSwitch GTP-u patch for 2.5   |          | 10/27/2016 08:56 AM |   |
| 1815 | Qualcomm Linux Modems by Quectel & Co | Feature | New     | Normal   | tool for building binary ipk from .list/control                                       |          | 10/02/2016 05:06 AM |   |
| 1812 | OsmoNITB                              | Feature | New     | Normal   | Report gsm0408_dispatch() failures to MS / UE   |          | 01/08/2020 10:56 PM |   |
| 1716 | libosmocore                           | Feature | New     | Normal   | enhance unit test coverage  |          | 08/17/2016 03:57 PM | Related to #1987,Precedes #1717                                     |
| 1686 | osmo-sip-connector                    | Feature | New     | Normal   | osmo-sip-connector: Implement call holding on SIP                                     |          | 10/20/2020 08:36 AM |   |
| 1667 | OsmoNITB                              | Feature | New     | Normal   | Handle callref better   |          | 09/04/2019 09:31 AM | Related to #3294  |
| 1655 | OsmoSGSN                              | Feature | Stalled | Normal   | KPIs for OsmoSGSN   |          | 01/08/2020 10:49 PM | Related to #1652,Related to #1655,Related to #1655                  |
| 1599 | OsmoMSC                               | Feature | New     | Normal   | Gs interface (BSSMAP+) between SGSN and MSC/VLR                                       |          | 06/13/2020 05:52 PM | Related to #1583,Related to #1747,Related to #1599,Related to #4485 |
| 1588 | OsmoSGSN                              | Feature | New     | Normal   | Inter-RAT hand-over   |          | 02/23/2016 03:46 PM |   |
| 1587 | OsmoSGSN                              | Feature | Stalled | Normal   | SMS over GPRS support   |          | 11/25/2018 08:14 PM | Related to #3587  |

| #    | Project  | Tracker | Status  | Priority | Subject  | Assignee | Updated             | Related issues                                     |
|------|--|---------|---------|----------|--|----------|---------------------|--|
| 1586 | OsmoSGSN                                       | Feature | New     | Normal   | Implement QoS profile support  |          | 02/23/2016 03:45 PM |  |
| 1583 | OsmoSGSN                                       | Feature | New     | Normal   | Gs interface (BSSMAP+) between SGSN and MSC/VLR                                |          | 06/13/2020 05:52 PM | Related to #1583,Related to #1583,Related to #4485 |
| 1554 | OsmoPCU  | Feature | New     | Normal   | per-MS BSSGP flow control  |          | 02/23/2016 03:12 PM | Related to #1554                                   |
| 1549 | OsmoPCU  | Feature | New     | Normal   | DRX support for GPRS   |          | 02/04/2017 08:11 AM | Related to #1942                                   |
| 1547 | OsmoPCU  | Feature | New     | Normal   | downlink power control on PDTCH  |          | 02/23/2016 03:04 PM |  |
| 1543 | OsmoPCU  | Feature | New     | Normal   | link/rate adaption as per spec   |          | 01/08/2020 10:43 PM | Related to #1543,Related to #1543                  |
| 1518 | UmTRX  | Feature | New     | Normal   | Upper limit of the clock is too low  |          | 02/19/2016 10:52 PM |  |
| 1517 | UmTRX  | Feature | New     | Normal   | U_FL (UMC) connectors are not reliable after few connections                   |          | 02/19/2016 10:52 PM |  |
| 1516 | UmTRX  | Feature | New     | Normal   | There are no port to control external equipment like PA                        |          | 02/19/2016 10:52 PM |  |
| 1515 | UmTRX  | Feature | New     | Normal   | Heat dissipation and mounting issue  |          | 02/19/2016 10:52 PM |  |
| 1511 | UmTRX  | Feature | New     | Normal   | Solve Tx and Rx I/Q imbalance for wideband signals                             |          | 02/19/2016 10:52 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 |  |
| 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                                   |
| 6354 | osmo-ePDG - VoWifi Evolved Packet Data Gateway | Feature | New     | Low      | investigate UE behavior in terms of respecting ePDG configuration on USIM/ISIM |          | 02/07/2024 04:10 PM |  |
| 6345 | osmo-ePDG - VoWifi Evolved Packet Data Gateway | Feature | New     | Low      | osmo-epdg: Implement SWm interface (Diameter) ePDG <> AAA                      |          | 01/25/2024 05:22 PM |  |
| 6315 | pySim  | Feature | New     | Low      | have test data for all supported files   |          | 12/23/2023 09:36 AM |  |
| 6303 | OsmoPCU  | Feature | New     | Low      | Convert pcuif to TLV to make backwards compatibility more feasible             |          | 02/15/2024 09:23 PM |  |
| 6285 | OsmoHNBGW                                      | Feature | New     | Low      | IUFP needs not CRCX in loopback mode   |          | 12/04/2023 03:58 AM |  |
| 6243 | Cellular Network Infrastructure                | Feature | New     | Low      | vtv cfg: make changing startup defaults of applications backwards compatible   |          | 11/01/2023 07:06 PM |  |
| 6241 | libosmo-sccp + libosmo-sigtran                 | Feature | New     | Low      | M3UA "Network Appearance" support  |          | 10/31/2023 03:00 PM | Related to #6241                                   |

| #    | Project                               | Tracker | Status | Priority | Subject   | Assignee | Updated             | Related issues                    |
|------|---------------------------------------|---------|--------|----------|---|----------|---------------------|-----------------------------------|
| 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 |
| 6104 | pySim                                 | Feature | New    | Low      | reduce number of python dependencies  |          | 07/20/2023 04:28 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 |                                   |
| 5865 | OsmoHLR                               | Feature | New    | Low      | Automate selection of LU Reject Cause   |          | 02/16/2023 10:36 AM |                                   |
| 5829 | libosmocore                           | Feature | New    | Low      | log fallback for log_check_level(), log_parse_category()                                  |          | 12/13/2022 10:44 PM |                                   |
| 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 |
| 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                  |
| 5766 | libosmo-abis                          | Feature | New    | Low      | use Linux kernel KCM for IPA header?  |          | 11/13/2022 08:15 AM | Related to #5766                  |
| 5746 | Retronetworking                       | Feature | New    | Low      | Create H.221 decoder  |          | 11/07/2022 10:55 PM |                                   |
| 5722 | Cellular Network Infrastructure       | Feature | New    | Low      | Migrate jenkins build slaves from docker to podman  |          | 10/21/2022 08:29 PM | Related to #5722                  |
| 5692 | Cellular Network Infrastructure       | Feature | New    | Low      | switch to C99 standard flexible arrays instad of gcc-specific zero-length arrays          |          | 09/29/2022 05:59 AM |                                   |
| 5682 | OsmoUPF                               | Feature | New    | Low      | cfg: separate PFCP Node ID from PFCP local address  |          | 09/17/2022 02:21 PM | Related to #5682                  |
| 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 |                                   |
| 5545 | Retronetworking                       | Feature | New    | Low      | E1 support for dynamips   |          | 04/24/2022 09:56 AM |                                   |
| 5526 | OCTOI - Osmocom Community TDM over IP | Feature | New    | Low      | ability to generate GSMTAP traces from osmo-e1d   |          | 07/29/2023 07:23 AM |                                   |
| 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 |                                   |
| 5511 | Retronetworking                       | Feature | New    | Low      | Idea: DAHDI backend for mISDN   |          | 09/18/2022 03:59 PM |                                   |
| 5489 | linmodem                              | Feature | New    | Low      | linmodem mISDN integration  |          | 03/13/2022 09:35 PM |                                   |
| 5487 | OsmoSGSN                              | Feature | New    | Low      | get rid of osmo-iuh.git's iu_client API and absorb into OsmoSGSN                          |          | 03/10/2022 06:05 PM |                                   |
| 5435 | OCTOI - Osmocom Community TDM over IP | Feature | New    | Low      | use DNS to resolve the server   |          | 04/05/2022 08:20 PM |                                   |
| 5427 | OCTOI - Osmocom Community TDM over IP | Feature | New    | Low      | STUN/TURN/ICE for peer-to-peer connections  |          | 01/30/2022 10:43 AM |                                   |

| #    | Project        | Tracker | Status | Priority | Subject  | Assignee | Updated             | Related issues   |
|------|----------------|---------|--------|----------|--|----------|---------------------|------------------|
| 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 |                  |
| 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 |                  |
| 5235 | pySim          | Feature | New    | Low      | import / export as eUICC profile package ASN.1       |          | 06/09/2023 04:55 PM |                  |
| 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 |                  |

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