

## Issues

| #    | Project                                      | Tracker | Status | Priority | Subject   | Assignee | Updated             | Related issues   |
|------|--|---------|--------|----------|---|----------|---------------------|------------------|
| 6434 | E1/T1 Hardware Interface (including icE1usb) | Support | New    | Normal   | D-channel do not recover after underrun   |          | 04/07/2024 09:07 AM |                  |
| 6412 | E1/T1 Hardware Interface (including icE1usb) | Support | New    | Normal   | No alignment  | tnt      | 03/27/2024 01:46 PM |                  |
| 6193 | Retronetworking                              | Support | New    | Low      | Replace "event rack" PM3 power supply   | laforge  | 09/27/2023 12:19 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 |                  |
| 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 |                  |
| 4612 | OsmoMSC                                      | Support | New    | Normal   | test handover on non-voice call conn (no CC transaction present)  |          | 06/14/2020 12:21 PM |                  |
| 4593 | OP25   | Support | New    | Normal   | Link to samples on the wiki is dead   | matt     | 06/07/2020 06:53 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 FTMTTOOL from phone, ramloader has aborted   |          | 03/29/2020 11:18 AM |                  |
| 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 |                  |
| 4308 | Distributed GSM                              | Support | New    | High     | thoughts about incorporating credit / billing in D-GSM  |          | 12/04/2019 04:08 PM |                  |
| 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 |                  |
| 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 |                  |
| 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 |
| 3819 | gr-osmosdr                                   | Support | New    | Urgent   | OSMO SDR blocks for GNUradio  |          | 02/28/2019 06:00 PM |                  |
| 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 |                  |
| 3512 | gr-osmosdr                                   | Support | New    | Normal   | Bug #3462 on Arch Linux; gr-osmosdr install fails   | horiz0n  | 01/26/2019 06:10 PM |                  |
| 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 |                  |
| 6417 | E1/T1 Hardware Interface (including icE1usb) | Feature | New    | Normal   | CRC4 configuration  |          | 03/22/2024 09:02 PM |                  |

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|------|--|---------|--------|----------|--|----------|---------------------|------------------------------------|
| 6408 | osmo-ePDG - VoWifi Evolved Packet Data Gateway         | Feature | New    | Normal   | osmo-epdg: Support check IMEI  |          | 03/15/2024 06:45 PM |                                    |
| 6407 | osmo-ePDG - VoWifi Evolved Packet Data Gateway         | Feature | New    | Normal   | osmo-epdg: Support Emergency services (no IMSI)                                |          | 03/15/2024 06:43 PM |                                    |
| 6402 | libosmocore  | Feature | New    | Low      | consider using IORING_RECVSEND_POLL_FIRST for our socket-reads                 |          | 03/14/2024 08:21 AM |                                    |
| 6401 | libosmocore  | Feature | New    | Low      | benchmark batching io_uring operations   |          | 03/14/2024 08:10 AM |                                    |
| 6395 | OsmoHNBGW  | Feature | New    | Low      | PFCP URR support in osmo-hnbgw   |          | 03/22/2024 08:08 AM | Related to #6395                   |
| 6392 | Osmocom Conferences (OsmoDevCon, OsmoCon, OsmoDevCall) | Feature | New    | Normal   | video recording / c3voc at OsmoDevCon 2024                                     | laforge  | 03/06/2024 12:08 PM |                                    |
| 6390 | libosmocore  | Feature | New    | Low      | port CTRL over to osmo_io / io_uring   |          | 03/02/2024 06:45 PM | Related to #6390                   |
| 6389 | libosmocore  | Feature | New    | Low      | port VTY over to osmo_io / io_uring  |          | 03/02/2024 04:55 PM | Related to #6389                   |
| 6388 | libosmocore  | Feature | New    | Normal   | stats_reporter via osmo_io / io_uring?   |          | 03/02/2024 04:54 PM | Related to #6388                   |
| 6367 | pySim  | Feature | New    | Normal   | PC/SC <-> Android OMAPI bridge for pySim and others                            |          | 02/17/2024 01:34 PM |                                    |
| 6354 | osmo-ePDG - VoWifi Evolved Packet Data Gateway         | Feature | New    | Low      | investigate UE behavior in terms of respecting ePDG configuration on USIM/ISIM |          | 02/07/2024 04:10 PM |                                    |
| 6348 | OsmocomBB  | Feature | New    | Normal   | virtphy: add Circuit Switched Data (CSD) support                               |          | 01/26/2024 10:03 PM | Related to #6348                   |
| 6347 | OsmocomBB  | Feature | New    | Normal   | mobile: support data calls @ 300 bps and 1200/75 bps (TCH/[FH]2.4)             |          | 01/26/2024 09:54 PM | Related to #6347                   |
| 6346 | OsmocomBB  | Feature | New    | Normal   | mobile: support data calls @ 14400 bps (TCH/F14.4)                             |          | 01/26/2024 10:03 PM | Related to #6346, Related to #6346 |
| 6345 | osmo-ePDG - VoWifi Evolved Packet Data Gateway         | Feature | New    | Low      | osmo-epdg: Implement SWm interface (Diameter) ePDG <-> AAA                     |          | 01/25/2024 05:22 PM |                                    |
| 6344 | libosmocore  | Feature | New    | Normal   | New TS 24.008 Bearer Capability codec API                                      |          | 01/24/2024 11:19 PM | Related to #6344                   |
| 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                   |
| 6327 | Cellular Network Infrastructure                        | Feature | New    | Low      | Osmocom-build-tags-against-master job builds very basic configurations         | osmith   | 01/11/2024 08:17 PM |                                    |
| 6319 | Osmo-CC  | Feature | New    | Normal   | protocol version should have a defined end marker                              | neels    | 01/10/2024 01:31 PM |                                    |
| 6316 | pySim  | Feature | New    | Normal   | include test data in user manual   |          | 12/23/2023 03:10 PM |                                    |
| 6315 | pySim  | Feature | New    | Low      | have test data for all supported files   |          | 12/23/2023 09:36 AM |                                    |
| 6303 | OsmoPCU  | Feature | New    | Low      | Convert pcuif to TLV to make backwards compatibility more feasible             |          | 02/15/2024 09:23 PM |                                    |

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|------|---------------------------------------|---------|--------|----------|--|----------|---------------------|-----------------------------------|
| 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                  |
| 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 |
| 6285 | OsmoHNBGW                             | Feature | New    | Low      | IUFP needs not CRCX in loopback mode   |          | 12/04/2023 03:58 AM |                                   |
| 6265 | pySim                                 | Feature | New    | Normal   | decode numeric SW in case of errors  | dexter   | 12/11/2023 01:01 PM |                                   |
| 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 |                                   |
| 6243 | Cellular Network Infrastructure       | Feature | New    | Low      | vty cfg: make changing startup defaults of applications backwards compatible           |          | 11/01/2023 07:06 PM |                                   |
| 6242 | Core testing infrastructure           | Feature | New    | Normal   | Test eUPF against ttcn3-upf-test setup   |          | 12/18/2023 11:33 AM |                                   |
| 6241 | libosmo-sccp + libosmo-sigtran        | Feature | New    | Low      | M3UA "Network Appearance" support  |          | 10/31/2023 03:00 PM | Related to #6241                  |
| 6239 | libosmo-sccp + libosmo-sigtran        | Feature | New    | Normal   | finally deprecate libosmo-sccp (headers, static lib)                                   |          | 10/31/2023 07:31 PM |                                   |
| 6237 | Retronetworking                       | Feature | New    | Low      | Design + Build PCBA for NE555 based fake fan rpm sensor                                | laforge  | 10/30/2023 01:38 AM |                                   |
| 6231 | OsmoTRX                               | Feature | New    | Normal   | add support / calibration values for AntSDR E200                                       | roh      | 10/21/2023 03:25 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 IGHFT / Fernmeldemuseum Dresden                | laforge  | 10/17/2023 02:11 PM |                                   |
| 6195 | Retronetworking                       | Feature | New    | Low      | Wiki page on Cisco *WIC-* line cards for 26xx/28xx series                              | laforge  | 10/08/2023 07:33 AM |                                   |
| 6194 | Retronetworking                       | Feature | New    | Low      | wiki page on MultiTech MT5600-BL   | laforge  | 09/27/2023 12:46 PM |                                   |
| 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 |
| 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 |                                   |
| 6137 | OsmoHNBGW                             | Feature | New    | Normal   | ip.access Nano3G   | lynxis   | 10/21/2023 07:24 PM |                                   |
| 6132 | OsmocomBB                             | Feature | New    | Normal   | Add MS_GPRS_Tests to osmo-ttcn3-hacks  | fixeria  | 10/04/2023 10:29 PM | Related to #6132                  |
| 6104 | pySim                                 | Feature | New    | Low      | reduce number of python dependencies   |          | 07/20/2023 04:28 PM |                                   |
| 6092 | pySim                                 | Feature | New    | Low      | "export" suport for ARA-M  | dexter   | 10/31/2023 06:40 PM |                                   |
| 6086 | pySim                                 | Feature | New    | Low      | implement features of sysmo-{usim,isim}-tool   | laforge  | 07/13/2023 04:09 AM |                                   |

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|------|---------------------------------------|---------|--------|----------|---|-----------|---------------------|-----------------------------------|
| 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 |                                   |
| 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                  |
| 5976 | pySim                                 | Feature | New    | Low      | pySim-prog: do not program linked files multiple times                                    | dexter    | 03/27/2023 04:05 PM |                                   |
| 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 |                                   |
| 5932 | Retrocomputing                        | Feature | New    | Low      | assemble ISA-USB  | laforge   | 03/02/2023 09:25 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 |                                   |
| 5904 | OsmoHNBGW                             | Feature | New    | Normal   | HNBAP Register Request handling does checks that seem to make no sense                    | neels     | 09/01/2023 05:00 AM |                                   |
| 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                  |
| 5867 | OsmoHNBGW                             | Feature | New    | Normal   | HNBGW_Tests.ttcn should do HNBAP UE Register and De-Register tests                        |           | 01/21/2023 02:30 AM |                                   |
| 5865 | OsmoHLR                               | Feature | New    | Low      | Automate selection of LU Reject Cause   |           | 02/16/2023 10:36 AM |                                   |
| 5859 | OsmoTRX                               | Feature | New    | Normal   | remove non-neon and non-sse support   | Hoernchen | 01/16/2023 10:17 PM |                                   |
| 5855 | Retronetworking                       | Feature | New    | Normal   | Establishing a German non-profit for retronetworking                                      | laforge   | 01/13/2023 11:59 AM |                                   |
| 5853 | OsmoSGSN                              | Feature | New    | Normal   | osmo-sgsn: Rework to use libosmo-gprs   |           | 01/11/2023 03:14 PM |                                   |
| 5839 | OsmoGSMTester                         | Feature | New    | Normal   | Ability to switch off the osmo-trx machine  | pespin    | 12/20/2022 05:43 PM |                                   |
| 5838 | OsmoGSMTester                         | Feature | New    | Normal   | Implement power switching for all BTSs  |           | 12/20/2022 05:30 PM |                                   |
| 5834 | OsmoPCU                               | Feature | New    | Normal   | VTY option "two-phase-access" is misleading   |           | 12/19/2022 06:55 PM |                                   |
| 5833 | OsmoPCU                               | Feature | New    | Low      | A "meas-feed" for osmo-pcu  | keith     | 12/18/2022 06:42 PM |                                   |
| 5829 | libosmocore                           | Feature | New    | Low      | log fallback for log_check_level(), log_parse_category()                                  |           | 12/13/2022 10:44 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 |                                   |
| 5816 | OsmoHNBGW                             | Feature | New    | Low      | Picocells available in R.U  |           | 03/09/2024 07:09 PM |                                   |
| 5815 | OsmocomBB                             | Feature | New    | Low      | mobile: compose Bearer Capability IE depending on PHY capabilities and GAPK codec support |           | 12/06/2022 07:38 PM | Related to #5815,Related to #5815 |
| 5814 | OsmoUPF                               | Feature | New    | Normal   | tunmap: more concisely match on GTP-U packets   |           | 12/06/2022 07:30 PM |                                   |

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|------|--|---------|--------|----------|---|---------------|---------------------|------------------------------------|
| 5813 | OsmoHNBGW                                    | Feature | New    | Low      | Alcatel-Lucent femtocells available in Europe   |               | 03/09/2024 07:09 PM |                                    |
| 5812 | OsmocomBB                                    | Feature | New    | Low      | mobile: missing AMR support   |               | 12/06/2022 03:07 PM | Related to #5812                   |
| 5808 | gr-osmosdr                                   | Feature | New    | Normal   | New option, for selecting an input channel of a soapy_source_c                        |               | 12/05/2022 11:45 AM |                                    |
| 5805 | SIMtrace 2                                   | Feature | New    | Normal   | SIM Trace 2 Build for Windows   | jelson_simEng | 04/02/2023 09:56 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 CNI network elements                     |               | 11/14/2022 07:25 PM |                                    |
| 5768 | Retronetworking                              | Feature | New    | Normal   | retronetworking logo / artwork  |               | 04/07/2024 10:40 PM |                                    |
| 5766 | libosmo-abis                                 | Feature | New    | Low      | use Linux kernel KCM for IPA header?  |               | 11/13/2022 08:15 AM | Related to #5766                   |
| 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 |                                    |
| 5758 | OsmoDia2GSUP                                 | Feature | New    | Normal   | bring osmo_dia2gsup to production quality   | lynxis        | 03/30/2023 08:13 PM |                                    |
| 5746 | Retronetworking                              | Feature | New    | Low      | Create H.221 decoder  |               | 11/07/2022 10:55 PM |                                    |
| 5740 | OsmoBSC                                      | Feature | New    | Low      | Disallow unworkable AMR modes.  | keith         | 11/08/2022 05:15 PM |                                    |
| 5730 | OsmoMGW                                      | Feature | New    | Low      | Fax over GSM support  | manawyrm      | 10/16/2023 08:53 PM | Precedes #5730                     |
| 5722 | Cellular Network Infrastructure              | Feature | New    | Low      | Migrate jenkins build slaves from docker to podman                                    |               | 10/21/2022 08:29 PM | Related to #5722                   |
| 5721 | OsmoCBC                                      | Feature | New    | Normal   | CBC messages Geographical Scope and CBS Index   |               | 10/19/2022 07:23 AM |                                    |
| 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                   |
| 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                   |
| 5662 | OsmoUPF                                      | Feature | New    | Normal   | add Linux kernel options to manual  |               | 08/24/2022 03:13 PM |                                    |
| 5648 | libosmo-pfcp                                 | Feature | New    | Normal   | implement common PFCP CPF client VTY config   |               | 08/17/2022 03:29 PM | Related to #5648                   |
| 5647 | OsmoHNBGW                                    | Feature | New    | Normal   | cfg: separate PFCP Node ID from PFCP local address                                    |               | 08/17/2022 03:38 PM | Related to #5648, Related to #5682 |
| 5641 | OsmoCBC                                      | Feature | New    | Normal   | OsmoCBC doesn't yet support reloading cells becoming operational with active messages |               | 08/05/2022 05:10 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 |                                    |
| 5586 | OsmoBSC                                      | Feature | New    | Normal   | Ericsson RBS could recover Unlocked state without osmo-bsc restart                    |               | 06/21/2022 10:23 PM | Related to #5983                   |

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|------|---------------------------------------|---------|--------|----------|--|----------|---------------------|--|
| 5547 | OsmoBSC                               | Feature | New    | Low      | upon emergency call, from the MSC-pool pick an MSC that allows emergency calling |          | 04/25/2022 05:49 AM |  |
| 5546 | OCTOI - Osmocom Community TDM over IP | Feature | New    | Normal   | build frame relay "hub" similar to ISDN "hub"                                    |          | 04/24/2022 03:03 PM |  |
| 5545 | Retronetworking                       | Feature | New    | Low      | E1 support for dynamips  |          | 04/24/2022 09:56 AM |  |
| 5543 | Retronetworking                       | Feature | New    | Normal   | Contact manufacturers for leftover stock   |          | 06/27/2023 09:05 PM |  |
| 5526 | OCTOI - Osmocom Community TDM over IP | Feature | New    | Low      | ability to generate GSMTAP traces from osmo-e1d                                  |          | 07/29/2023 07:23 AM |  |
| 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 |  |
| 5507 | libosmocore                           | Feature | New    | Normal   | Optimize reset time after SGSN is restarted                                      | lynxis   | 03/31/2022 12:33 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                                   |
| 5489 | linmodem                              | Feature | New    | Low      | linmodem mISDN integration   |          | 03/13/2022 09:35 PM |  |
| 5487 | OsmoSGSN                              | Feature | New    | Low      | get rid of osmo-juh.git's iu_client API and absorb into OsmoSGSN                 |          | 03/10/2022 06:05 PM |  |
| 5484 | Open Source IMS Client                | Feature | New    | Normal   | create setup for nested IPsec (doubango on top of StrongSWAN)                    |          | 03/07/2022 11:19 AM |  |
| 5483 | Open Source IMS Client                | Feature | New    | Normal   | SIM card interface for strongswan  |          | 03/07/2022 03:19 PM |  |
| 5482 | Open Source IMS Client                | Feature | New    | Normal   | VoWiFi client for creating [outer] IPsec tunnel to ePDG                          |          | 03/07/2022 09:33 PM | Related to #5482                                   |
| 5481 | Open Source IMS Client                | Feature | New    | Urgent   | SIM card interface for doubango  | laforge  | 03/25/2022 11:00 AM | 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 |
| 5466 | OsmocomBB                             | Feature | New    | Normal   | CP2102N evaluation for burst_ind baudrate  | laforge  | 02/22/2022 07:17 PM |  |
| 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 |  |
| 5442 | OCTOI - Osmocom Community TDM over IP | Feature | New    | Normal   | ensure sequence number covers longer duration than default PRI LOS timer         | laforge  | 02/06/2022 08:16 AM |  |
| 5437 | OCTOI - Osmocom Community TDM over IP | Feature | New    | Low      | brainstorm about making protocol even more efficient                             | laforge  | 01/30/2022 01:45 PM |  |
| 5436 | OCTOI - Osmocom Community TDM over IP | Feature | New    | Low      | BRI variant of OCTOI protocol  | laforge  | 01/30/2023 06:49 PM | Related to #5436                                   |
| 5435 | OCTOI - Osmocom Community TDM over IP | Feature | New    | Low      | use DNS to resolve the server  |          | 04/05/2022 08:20 PM |  |

| #    | Project                               | Tracker | Status | Priority | Subject  | Assignee  | Updated             | Related issues   |
|------|---------------------------------------|---------|--------|----------|--|-----------|---------------------|------------------|
| 5429 | OCTOI - Osmocom Community TDM over IP | Feature | New    | Normal   | authentication in TDMoIP protocol  | laforge   | 11/07/2022 05:29 PM |                  |
| 5427 | OCTOI - Osmocom Community TDM over IP | Feature | New    | Low      | STUN/TURN/ICE for peer-to-peer connections                                 |           | 01/30/2022 10:43 AM |                  |
| 5403 | OsmoMSC                               | Feature | New    | Normal   | Can't connect Call from 2G to 4G network                                   | laforge   | 01/14/2022 10:41 PM |                  |
| 5395 | OsmocomDECT                           | Feature | New    | Normal   | Support for LMX3161  |           | 01/09/2022 12:55 PM |                  |
| 5372 | osmo-lab-rack                         | Feature | New    | Low      | AC power supply  |           | 12/23/2021 06:33 PM |                  |
| 5371 | osmo-lab-rack                         | Feature | New    | Low      | component carrier USB-UART   |           | 12/23/2021 06:31 PM |                  |
| 5370 | osmo-lab-rack                         | Feature | New    | Low      | component carrier USB hub  |           | 12/23/2021 06:30 PM |                  |
| 5323 | Core testing infrastructure           | Feature | New    | Normal   | Add docker image containing titan.core master                              |           | 12/15/2021 04:43 PM | Related to #6187 |
| 5321 | osmo-remsim                           | Feature | New    | Low      | support SAP of u-blox AT+USAPMODE  |           | 11/22/2021 10:37 AM |                  |
| 5320 | osmo-remsim                           | Feature | New    | Low      | support SAP of Telit AT#RSEN   |           | 11/22/2021 10:38 AM |                  |
| 5307 | Ericsson RBS 6xxx                     | Feature | New    | Normal   | Support for Multiple Sectors at an RBS site.                               |           | 11/13/2021 08:20 PM |                  |
| 5291 | rtl-sdr                               | Feature | New    | Normal   | Ship the udev rules upstream   | steve-m   | 11/05/2021 11:04 AM |                  |
| 5283 | OsmoTRX                               | Feature | New    | Normal   | Implement TRXDv2 support   | fixeria   | 10/27/2021 10:35 PM | Related to #5283 |
| 5279 | OsmoMGW                               | Feature | New    | Normal   | systemd service / unit for multiple osmo-mgw on one machine                | osmith    | 10/25/2021 11:41 AM |                  |
| 5268 | pySim                                 | Feature | New    | Normal   | pySim-shell: GlobalPlatform SCP02 support                                  | laforge   | 10/14/2021 07:12 PM | Related to #5268 |
| 5267 | pySim                                 | Feature | New    | Normal   | pySim-shell: Ability to deactivate entire applications on the card         |           | 10/14/2021 07:12 PM | Related to #5268 |
| 5256 | OsmoBTS                               | Feature | New    | High     | support for random padding in LAPDm downlink messages                      |           | 10/12/2021 11:17 AM | Related to #5256 |
| 5235 | pySim                                 | Feature | New    | Low      | import / export as eUICC profile package ASN.1                             |           | 06/09/2023 04:55 PM |                  |
| 5228 | OsmoTRX                               | Feature | New    | Low      | osmo-trx: Missing unit tests for computeCI() and computeEdgeCI()           | Hoernchen | 11/07/2022 06:23 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 |                  |
| 5143 | Osmocom Analog                        | Feature | New    | Low      | Using ADALM PLUTO SDR with osmocom-analog                                  | jolly     | 05/05/2021 05:01 PM |                  |
| 5128 | Core testing infrastructure           | Feature | New    | Low      | dec_RlcmacDICtrlBlock: Get rid of annoying warning about remaining padding |           | 12/09/2021 09:14 PM |                  |
| 5127 | pySim                                 | Feature | New    | Normal   | tool for "re-formatting" [sysmocom] cards in tester                        | laforge   | 10/14/2021 07:16 PM | Related to #5127 |
| 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 |
| 5047 | OsmoSDR                               | Feature | New    | Normal   | Inconsistencies between SDR's in bias-tee parameter                        |           | 12/19/2021 01:17 PM |                  |
| 5045 | Cellular Network Infrastructure       | Feature | New    | Normal   | write libversion "major" on build files automatically based on LIBVERSION  | pespin    | 02/24/2021 01:14 PM |                  |
| 5025 | OsmoBTS                               | Feature | New    | Normal   | Missing TTCN-3 coverage for the Timing Advance loop                        | fixeria   | 07/02/2021 04:28 PM |                  |

| #    | Project                                      | Tracker | Status | Priority | Subject   | Assignee | Updated             | Related issues                    |
|------|--|---------|--------|----------|---|----------|---------------------|-----------------------------------|
| 5013 | Cellular Network Infrastructure              | Feature | New    | Low      | investigate "vtysh" for Osmocom   |          | 02/06/2021 02:14 PM | Related to #5013                  |
| 5012 | osmo-uecups                                  | Feature | New    | Low      | use osmo-uecups from GGSN_Tests.ttcn  | pespin   | 02/06/2021 10:02 AM | Related to #5012                  |
| 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 |                                   |
| 4990 | OsmoBSC                                      | Feature | New    | Low      | TTCN3 test for AMR MultiRate IEs in RR and RSL                                |          | 07/02/2021 04:34 PM |                                   |
| 4989 | OsmoBTS                                      | Feature | New    | Low      | AMR RATSCCH support   |          | 01/28/2021 01:41 PM |                                   |
| 4988 | OsmoBTS                                      | Feature | New    | Low      | No TTCN3 test for AMR TFO / DL CMR handling                                   |          | 01/28/2021 01:38 PM |                                   |
| 4987 | OsmoBTS                                      | Feature | New    | Low      | No TTCN3 test for AMR DTX FSMs  |          | 01/28/2021 01:37 PM | Related to #5474                  |
| 4986 | OsmoBTS                                      | Feature | New    | Low      | No TTCN3 tests of AMR rate/link adaptation                                    |          | 01/28/2021 01:36 PM |                                   |
| 4983 | OsmoMSC                                      | Feature | New    | Low      | PERFORM LOCATION REQUEST / RESPONSE   |          | 01/28/2021 11:44 AM |                                   |
| 4982 | OsmoMSC                                      | Feature | New    | Low      | Support for BSSMAP RESOURCE INDICATION  |          | 01/27/2021 03:01 PM | Related to #4982                  |
| 4981 | OsmoBSC                                      | Feature | New    | Low      | Support for generating BSSMAP RESOURCE INDICATION                             |          | 01/27/2021 03:02 PM | Related to #4982                  |
| 4980 | OsmoMSC                                      | Feature | New    | Low      | Implement routing of BSSMAP LOAD INDICATION in OsmoMSC                        |          | 01/27/2021 02:43 PM | Related to #4980,Related to #4980 |
| 4979 | OsmoBSC                                      | Feature | New    | Low      | Support for parsing incoming BSSMAP LOAD INDICATION                           |          | 01/27/2021 02:41 PM | Related to #4979,Related to #4980 |
| 4978 | OsmoBSC                                      | Feature | New    | Low      | Support for generating BSSMAP LOAD INDICATION                                 |          | 01/27/2021 02:40 PM | Related to #4979,Related to #4980 |
| 4971 | Osmocom Analog                               | Feature | New    | Low      | OsmoCC Socket Documentation   | jolly    | 10/18/2023 02:49 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 |                                   |
| 4944 | OsmoCBC                                      | Feature | New    | Low      | 3G SABP support in OsmoCBC  | laforge  | 01/13/2021 09:13 AM | Related to #4944,Related to #4944 |
| 4915 | osmo-e1d                                     | Feature | New    | Low      | consider a one-thread-per-line architecture                                   |          | 07/29/2023 07:31 AM |                                   |
| 4910 | E1/T1 Hardware Interface (including icE1usb) | Feature | New    | Low      | Automatically set the A / alarm bits in Tx if no signal on Rx                 | tnt      | 01/13/2022 07:22 PM | Related to #5381                  |
| 4900 | OsmoGSMTester                                | Feature | New    | Low      | hardware and wiring verification / selftest                                   |          | 12/08/2020 11:03 AM |                                   |
| 4893 | osmo-gbproxy                                 | Feature | New    | Low      | gbproxy2: Make feature bitmap configurable                                    |          | 12/08/2020 07:55 AM | Related to #4893                  |
| 4882 | OsmoHNBGW                                    | Feature | New    | Low      | HSPA+ Picocell available in U.S   |          | 03/09/2024 07:08 PM |                                   |
| 4860 | libosmo-abis                                 | Feature | New    | Low      | Implement separation of line/TEI/datalinks in E1 pcap                         |          | 11/04/2021 06:31 PM |                                   |



| #    | Project                         | Tracker | Status | Priority | Subject  | Assignee | Updated             | Related issues   |
|------|---------------------------------|---------|--------|----------|--|----------|---------------------|------------------|
| 4846 | OsmoPCU                         | Feature | New    | Normal   | change RBB received block bitmap into 1s when everything was acked   |          | 11/04/2020 02:29 AM |                  |
| 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 |
| 4813 | OsmoPCU                         | Feature | New    | Low      | FANR (Fast ACK/NACK Reporting) support   |          | 10/16/2020 08:46 AM |                  |
| 4812 | OsmoPCU                         | Feature | New    | Low      | RTTI (Reduced Transmission Time Interval) Support  |          | 10/16/2020 08:43 AM |                  |
| 4810 | osmo-clock-conv                 | Feature | New    | Normal   | horizontal DC input on rear side of PCB  | mschramm | 10/15/2020 10:53 PM |                  |
| 4809 | osmo-clock-conv                 | Feature | New    | Low      | alignment of DC barrel with face plate   | laforge  | 10/16/2020 05:29 PM | Related to #4814 |
| 4808 | OsmoGSMTester                   | Feature | New    | Low      | osmo-gsm-tester: Add test setup to verify baseband frequency hopping   | pespin   | 03/31/2023 03:25 PM |                  |
| 4806 | osmo-ccid-firmware              | Feature | New    | Low      | Add support of T=1?  |          | 10/15/2020 03:40 PM |                  |
| 4790 | OsmoHNBGW                       | Feature | New    | Low      | Vodafone HSPA+ femtocell available in Deutschland  |          | 03/09/2024 07:08 PM |                  |
| 4762 | osmo-sip-connector              | Feature | New    | Low      | Osmo Analog Support  |          | 09/25/2020 07:31 AM | Related to #4763 |
| 4717 | OsmoMSC                         | Feature | New    | Normal   | support Handover with changing codec   |          | 08/18/2020 05:14 PM | Related to #4717 |
| 4682 | OsmoBSC                         | Feature | New    | Low      | OM2000 MCTR Support for Ericsson RBS6000 / DUG 20  |          | 07/30/2020 06:51 AM | Precedes #4682   |
| 4678 | osmo-clock-gen                  | Feature | New    | Low      | Increase mounting hole size to support M3 screws   | mschramm | 07/25/2020 08:43 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 |                  |
| 4640 | OsmoBSC                         | Feature | New    | Low      | SI2quater: support multiple EUTRAN Neighbor Cells List entries, not only multiple EUTRAN Cell Descriptions in the first Cells List entry |          | 07/06/2020 03:03 PM |                  |
| 4638 | Altair LTE Modems               | Feature | New    | Normal   | Mikrotik R11e-4G mtd dump  |          | 06/13/2021 10:15 AM |                  |
| 4635 | libosmo-sccp + libosmo-sigtran  | Feature | New    | Normal   | quirks when initializing SS7 ASP   |          | 06/25/2020 04:46 PM | Related to #4635 |
| 4634 | OsmoMSC                         | Feature | New    | Low      | lu: record SAC, and show RNC ID and SAC in the vty upon 'show subscriber'  |          | 06/24/2020 06:08 PM |                  |
| 4633 | OsmoMSC                         | Feature | New    | Normal   | update the Cell ID in the VLR after an inter-BSC / inter-MSC handover  |          | 06/24/2020 12:40 PM |                  |
| 4632 | OsmoMSC                         | Feature | New    | Normal   | update the cell id in the VLR when receiving BSSMAP HANDOVER PERFORMED from the BSC  |          | 06/24/2020 12:35 PM | Related to #4632 |
| 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 |                  |
| 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 |                  |
| 4588 | OsmoHLR                         | Feature | New    | Low      | OsmoHLR doesn't appear to have any statistics / counters   |          | 06/06/2020 09:44 AM |                  |
| 4587 | Cellular Network Infrastructure | Feature | New    | Low      | Add port numbers to /etc/services during installation  |          | 06/08/2020 10:28 AM | Related to #5013 |

| #    | Project                      | Tracker | Status | Priority | Subject  | Assignee | Updated             | Related issues                    |
|------|------------------------------|---------|--------|----------|--|----------|---------------------|-----------------------------------|
| 4580 | SDR (Software Defined Radio) | Feature | New    | Normal   | gr-osmosdr compilation under GnuRadio 3.9.0  |          | 06/04/2020 01:13 AM |                                   |
| 4574 | OsmoHNBGW                    | Feature | New    | Low      | Femtocell choice in 2020/06  |          | 03/09/2024 07:09 PM |                                   |
| 4551 | OsmoMGW                      | Feature | New    | Normal   | Dynamic/runtime allocation of new endpoints  |          | 05/14/2020 10:56 PM |                                   |
| 4541 | OsmoBSC                      | Feature | New    | Normal   | add ttcn3 tests for situations of Abis latency spikes, where chan act/deact ACK messages arrive late |          | 11/20/2023 05:03 PM | Related to #4541,Related to #6375 |
| 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             |
| 4521 | osmo-gbproxy                 | Feature | New    | Normal   | gbproxy: Redundancy between NS-VCs (SGSN Side)   | laforge  | 01/19/2021 05:24 PM | Related to #4959                  |
| 4504 | OsmoTRX                      | Feature | New    | Low      | Buidl LimeSuite without GUI in osmocom feeds   |          | 09/30/2020 08:08 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 |                                   |
| 4498 | osmo-uecups                  | Feature | New    | Normal   | IPv6 neighbor discovery  | laforge  | 04/17/2020 08:33 AM |                                   |
| 4496 | osmo-uecups                  | Feature | New    | Low      | implement filters for sharing as single tun device between multiple bearers                          | laforge  | 04/17/2020 08:31 AM |                                   |
| 4495 | IMSI Pseudonymization        | Feature | New    | Normal   | Specification: More references   | neels    | 05/27/2020 01:11 PM |                                   |
| 4494 | IMSI Pseudonymization        | Feature | New    | Normal   | Specification: Add bibliography  | neels    | 05/27/2020 01:11 PM |                                   |
| 4493 | IMSI Pseudonymization        | Feature | New    | Normal   | Specification: Cover 2G, 3G and 4G separately  | neels    | 05/27/2020 01:11 PM |                                   |
| 4490 | IMSI Pseudonymization        | Feature | New    | Normal   | Specification: how would IMSI-pseudo interact within a combined (2G-4G)+5G network?                  |          | 04/16/2020 08:44 AM |                                   |
| 4489 | IMSI Pseudonymization        | Feature | New    | Normal   | Specification: mark mandatory parts / implementation details as such                                 |          | 04/16/2020 08:44 AM |                                   |
| 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 |                                   |
| 4481 | IMSI Pseudonymization        | Feature | New    | Low      | Applet: test various REFRESH qualifiers to possibly shorten the time for changing the IMSI           |          | 04/16/2020 08:45 AM |                                   |
| 4479 | IMSI Pseudonymization        | Feature | New    | Normal   | Applet: change IMSI after receiving SMS  |          | 04/16/2020 08:45 AM |                                   |
| 4478 | IMSI Pseudonymization        | Feature | New    | Normal   | Applet: proper warning after too many LU with same IMSI  |          | 04/16/2020 08:45 AM | Related to #4478                  |
| 4477 | IMSI Pseudonymization        | Feature | New    | Normal   | OsmoHLR: send next pseudo IMSI via SMS   |          | 04/16/2020 08:45 AM | Blocks #4477,Blocks #4477         |
| 4473 | OsmoBTS                      | Feature | New    | Low      | Support for broadcast of MOCN related SI21/22/23   |          | 03/29/2020 07:39 PM | Related to #4473                  |
| 4458 | Core testing infrastructure  | Feature | New    | Low      | Set up a STF (Smartphone Testing Farm)   |          | 03/18/2020 02:44 PM |                                   |
| 4455 | OP25                         | Feature | New    | Normal   | AMBE CODEC   |          | 03/28/2020 09:53 PM |                                   |

| #    | Project                         | Tracker | Status | Priority | Subject  | Assignee | Updated             | Related issues   |
|------|---------------------------------|---------|--------|----------|--|----------|---------------------|------------------|
| 4433 | OsmoGGSN (former OpenGGSN)      | Feature | New    | Normal   | sgsnemu: Add support for IPv4v6 EUAs   |          | 03/04/2020 10:44 AM |                  |
| 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 |                  |
| 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 |
| 4376 | Cellular Network Infrastructure | Feature | New    | Normal   | Define distinct X timer numbers across all osmo programs   |          | 01/23/2020 09:21 PM |                  |
| 4374 | OsmoMSC                         | Feature | New    | Normal   | send GSUP PurgeMS Request (CN-Domain = CS) to the HLR upon IMSI-Detach   |          | 01/23/2020 03:19 AM |                  |
| 4363 | Distributed GSM                 | Feature | New    | Low      | mslookup_client_mdns_test: add stubs, so it works without multicast  |          | 04/28/2020 02:55 PM | Related to #4363 |
| 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 |
| 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 |                  |
| 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 |
| 4277 | Cellular Network Infrastructure | Feature | New    | Low      | implement an SMSC to work with OsmoMSC   |          | 11/22/2019 02:45 PM |                  |
| 4275 | OsmoSTP                         | Feature | New    | Low      | Add TTCN3 STP_Tests_IPA.TC_tmt_broadcast   | pespin   | 12/01/2019 11:04 AM |                  |
| 4249 | osmo-remsim                     | Feature | New    | Normal   | ability to explicitly provision an "empty SIM card slot" to a modem  | laforge  | 09/08/2021 07:48 PM | Related to #5216 |
| 4242 | BBS-Revival                     | Feature | New    | Low      | offer CCC event schedule (Fahrplan) as gopher service  |          | 10/28/2019 09:22 AM |                  |
| 4226 | Retronetworking                 | Feature | New    | Low      | STM-1 / USB interface?   |          | 01/30/2022 10:14 AM |                  |
| 4196 | OsmoMSC                         | Feature | New    | Normal   | CC Setup, Call Confirmed: decode and use the Supported Codec List IE   |          | 09/25/2019 05:27 PM |                  |
| 4189 | OsmoBSC                         | Feature | New    | Low      | TTCN-3 tests for load-based hand-over in BSC   |          | 09/04/2019 09:10 AM | Related to #4189 |
| 4150 | OsmoMGW                         | Feature | New    | Low      | dead code / If an MDCX omits SDP, all codec config might be cleared  |          | 08/13/2019 11:01 PM |                  |
| 4128 | OsmoHNBGW                       | Feature | New    | Low      | Add support of Huawei hNodeB protocol  |          | 07/24/2019 03:39 PM |                  |
| 4124 | OsmoBSCNAT                      | Feature | New    | Normal   | OsmoBSCNAT : Write user manual   |          | 01/08/2020 10:56 PM | Related to #4124 |
| 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 |
| 4105 | libosmocore                     | Feature | New    | Normal   | Support for LTE key derivation functions   | laforge  | 07/13/2019 02:07 AM | Related to #4105 |
| 4103 | libosmocore                     | Feature | New    | Low      | TUAK support as per 3GPP TS 35.231   |          | 03/24/2021 12:33 PM |                  |
| 4092 | OsmoMGW                         | Feature | New    | Normal   | Osmux: Support dynamic allocation of osmux sockets   | pespin   | 08/10/2022 07:50 AM | Related to #4092 |
| 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 |                  |

| #    | Project                         | Tracker | Status | Priority | Subject   | Assignee   | Updated             | Related issues                                 |
|------|---------------------------------|---------|--------|----------|---|------------|---------------------|--|
| 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                               |
| 4053 | libosmocore                     | Feature | New    | Low      | CTRL: Add CTRL cmd introspection to print documentation   |            | 01/08/2020 10:21 PM | Related to #4053,Related to #4443              |
| 4033 | OsmoGGSN (former OpenGGSN)      | Feature | New    | Normal   | ttcn3-ggsn-test: Add tests to verify secondary pdp context management                                   |            | 05/30/2019 03:19 PM |  |
| 4014 | OsmoBTS                         | Feature | New    | Low      | Allow multiple [virtual] BTS instances on same [SDR] hardware that supports multiple TRX                |            | 05/21/2019 12:07 PM |  |
| 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              |
| 3988 | OsmoMSC                         | Feature | New    | Low      | change the remaining DEBUGP() statements to LOG_MSC_A() / LOG_MSC_A_CAT()                               |            | 05/08/2019 03:26 PM |  |
| 3987 | libosmocore                     | Feature | New    | Low      | introduce libosmocore_init() to replace individual initialization calls                                 |            | 05/08/2019 03:03 PM | Related to #3987                               |
| 3977 | OsmoCBC                         | Feature | New    | High     | SABP stream delineation routines  | laforge    | 09/23/2019 04:49 AM | Related to #3979,Related to #4944              |
| 3962 | OsmoTRX                         | Feature | New    | Low      | osmo-trx: Use gcc attribute no_sanitize to run fine with ASan enabled                                   |            | 08/26/2019 02:04 PM |  |
| 3887 | osmo-remsim                     | Feature | New    | Low      | remsim-client: allow for local handling of APDUs  | laforge    | 12/03/2019 12:20 AM |  |
| 3886 | osmo-remsim                     | Feature | New    | Normal   | expose ICCID or even IMSI of all cards on remsim-server   | laforge    | 05/08/2019 03:31 PM | Precedes #3886                                 |
| 3885 | osmo-remsim                     | Feature | New    | Normal   | remsim-server should expose status information  | laforge    | 04/01/2019 07:23 PM | Precedes #3885                                 |
| 3884 | osmo-remsim                     | Feature | New    | Normal   | redesign bankd thread architecture  | laforge    | 05/08/2019 03:31 PM | Related to #5527,Precedes #3885,Precedes #3886 |
| 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                                   |
| 3847 | Miscellaneous Projects          | Feature | New    | Normal   | Osmocom logo with/for black background  | tsaitgaist | 12/10/2019 11:53 AM |  |
| 3845 | libosmocore                     | Feature | New    | Low      | Unified logging in Gb NS / BSSGP code   |            | 03/16/2019 02:33 PM |  |
| 3831 | OsmoBSC                         | Feature | New    | Low      | BSC support for "network sharing" via MOCN  |            | 01/20/2021 10:03 AM | Related to #4473                               |
| 3802 | gr-osmosdr                      | Feature | New    | Normal   | New release   | horiz0n    | 02/15/2019 07:22 AM |  |
| 3779 | Cellular Network Infrastructure | Feature | New    | Low      | explore providing a VM image with all of osmocom CNI and related tools installed                        |            | 02/04/2019 09:52 AM |  |
| 3755 | OsmoMSC                         | Feature | New    | Low      | make retrieval of IMEISV configurable   |            | 05/07/2019 12:28 PM | Related to #3755                               |
| 3747 | UmTRX                           | Feature | New    | Normal   | LMS6002D RX Gain Control  | ipse       | 01/08/2019 09:46 AM |  |
| 3738 | OsmoMSC                         | Feature | New    | Normal   | Clarify PS-part of struct vlr_subscr  |            | 12/19/2018 12:34 PM |  |
| 3732 | OsmoHLR                         | Feature | New    | Low      | Support tacdb query in HLR  |            | 07/18/2019 06:12 AM | Related to #3732                               |

| #    | Project                         | Tracker | Status | Priority | Subject  | Assignee | Updated             | Related issues                                     |
|------|---------------------------------|---------|--------|----------|--|----------|---------------------|--|
| 3714 | Cellular Network Infrastructure | Feature | New    | Low      | implement Internal Handover With MSC Support   | neels    | 02/06/2021 02:04 PM | Related to #3714                                   |
| 3711 | SIMtrace 2                      | Feature | New    | Normal   | Add screw holes for permanent installations  | mschramm | 11/01/2023 08:28 PM |  |
| 3688 | OsmoSGSN                        | Feature | New    | Low      | move generic gtpub code to libosmocore   |          | 04/15/2019 07:29 AM |  |
| 3687 | OsmoMSC                         | Feature | New    | Normal   | Expand "show bsc" command  |          | 11/11/2018 09:50 PM |  |
| 3672 | Osmocom Analog                  | Feature | New    | Normal   | Custom announcement and tones  | jolly    | 02/01/2021 10:25 AM |  |
| 3670 | Cellular Network Infrastructure | Feature | New    | Low      | TTCN-3 tests for statsd exporter code  |          | 09/04/2019 09:03 AM |  |
| 3666 | OsmocomBB                       | Feature | New    | Normal   | trxcon: Introduce VTY interface  | fixeria  | 02/26/2020 02:43 PM | Related to #3667                                   |
| 3658 | Cellular Modem Information      | Feature | New    | Low      | Create a "osmocom-bb-host-latest" docker container   |          | 12/01/2019 09:07 AM | Related to #3658                                   |
| 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                                   |
| 3649 | OsmoHLR                         | Feature | New    | Low      | Investigate LMDB as HLR data storage   |          | 10/12/2018 11:35 AM | Related to #3649                                   |
| 3648 | OsmoMSC                         | Feature | New    | Low      | persistent VLR (across re-starts of osmo-msc / across power outage)                              |          | 05/17/2022 05:39 PM | Related to #3649                                   |
| 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                  |
| 3638 | OsmoBSC                         | Feature | New    | Low      | handover decision 2: load balancing across BSS   |          | 10/16/2018 01:16 PM | Related to #3638,Related to #3638,Related to #3638 |
| 3636 | OsmoMSC                         | Feature | New    | Normal   | detailed call statistics (with rate counters)  | osmith   | 10/08/2018 11:14 AM | Related to #3636                                   |
| 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                                   |
| 3609 | OsmoSTP                         | Feature | New    | Low      | Support for C-Link   |          | 10/03/2018 08:58 AM |  |
| 3607 | OsmoSTP                         | Feature | New    | Normal   | Support for capability point codes   |          | 10/03/2018 08:58 AM |  |
| 3606 | OsmoSTP                         | Feature | New    | Normal   | Support for multiple NI (network indicator)  |          | 10/03/2018 08:58 AM |  |
| 3605 | OsmoSTP                         | Feature | New    | Normal   | Global Title Translation   |          | 07/18/2019 05:15 AM |  |
| 3604 | OsmoSTP                         | Feature | New    | Normal   | Global Title Routing   |          | 07/18/2019 05:15 AM |  |
| 3603 | OsmoSTP                         | Feature | New    | Low      | M2PA support   |          | 10/03/2018 08:58 AM | Related to #3603                                   |
| 3602 | OsmoSTP                         | Feature | New    | Low      | M2UA support   |          | 09/30/2018 08:00 AM |  |
| 3597 | gr-osmosdr                      | Feature | New    | Low      | rtl: send final samples when device is lost  | horiz0n  | 07/18/2019 05:35 AM |  |
| 3596 | gr-osmosdr                      | Feature | New    | Normal   | TX Tags  |          | 09/25/2018 04:01 PM |  |
| 3595 | gr-osmosdr                      | Feature | New    | Normal   | RX Tags  |          | 09/25/2018 04:01 PM |  |
| 3594 | gr-osmosdr                      | Feature | New    | Normal   | Message Commands   |          | 09/25/2018 03:59 PM |  |

| #    | Project                         | Tracker | Status | Priority | Subject   | Assignee | Updated             | Related issues                    |
|------|---------------------------------|---------|--------|----------|---|----------|---------------------|-----------------------------------|
| 3586 | OsmoBSC                         | Feature | New    | Normal   | support LCLS for inter-BSC handover   | neels    | 01/17/2019 04:18 PM | Related to #3586,Related to #3659 |
| 3564 | OsmoGSMTester                   | Feature | New    | Normal   | Investigate ofono and modems Cell Broadcast support   |          | 01/08/2020 10:42 PM | Related to #3564                  |
| 3522 | libosmocore                     | Feature | New    | Low      | libosmocoding: move TCH ordering functions to libosmocodec and share them   | fixeria  | 09/04/2018 08:49 PM |                                   |
| 3521 | libosmocore                     | Feature | New    | Normal   | core/utills: engineering notation helpers   | fixeria  | 09/04/2018 08:32 PM |                                   |
| 3505 | OsmoBSC                         | Feature | New    | Normal   | ttn3: test inter-BSC HO with encryption enabled   | neels    | 08/28/2018 06:38 PM | Related to #3505                  |
| 3501 | SIMtrace 2                      | Feature | New    | Low      | Multi-sim addon board idea  |          | 08/28/2018 03:00 PM |                                   |
| 3486 | OsmoBSC                         | Feature | New    | Low      | handover decision: congestion: figure out the tradeoff: re-assign within same cell vs. handover to another cell                           |          | 10/16/2018 01:16 PM | Related to #3486,Related to #3638 |
| 3485 | OsmoBSC                         | Feature | New    | Low      | handover to make room for a less capable subscriber   |          | 10/16/2018 01:16 PM | Related to #3485                  |
| 3484 | OsmoBSC                         | Feature | New    | Low      | handover decision: if rxlev is ok but rxqual is bad, move to different timeslot with same TCH kind to avoid interference                  |          | 10/16/2018 01:30 PM |                                   |
| 3483 | OsmoBSC                         | Feature | New    | Normal   | handover decision: if rxlev is ok but rxqual is bad, move from TCH/H to TCH/F   | neels    | 10/16/2018 01:53 PM | Related to #3483                  |
| 3482 | OsmoBSC                         | Feature | New    | Low      | handover decision: if a new call causes congestion that would trigger immedate re-assignment, assigning the other TCH kind from the start |          | 10/16/2018 01:15 PM | Related to #3482                  |
| 3481 | OsmoBSC                         | Feature | New    | Normal   | handover from TCH/H to TCH/F to reduce load   |          | 06/08/2020 07:08 PM | Related to #3481,Related to #3481 |
| 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                  |
| 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 |                                   |
| 3470 | OsmoMSC                         | Feature | New    | Low      | Allow sending "Emergency Number List IE" in LU ACCEPT   |          | 09/01/2018 08:18 PM | Related to #3470                  |
| 3469 | OsmoMSC                         | Feature | New    | Low      | Support for "service category" in emergency calls   |          | 08/24/2018 12:48 PM | Related to #3470                  |
| 3414 | gr-osmosdr                      | Feature | New    | Normal   | Include Airspy serial number in connection string.  | horiz0n  | 07/24/2018 04:52 AM |                                   |
| 3387 | OsmocomBB                       | Feature | New    | Low      | osmocon: Use libosmocore logging system   |          | 10/05/2018 04:21 PM |                                   |
| 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                    |
| 3371 | SIMtrace 2                      | Feature | New    | Normal   | migrate to use arm-none-eabi build of libosmocore.git   | laforge  | 08/09/2018 12:14 PM |                                   |
| 3345 | OsmoTRX                         | Feature | New    | Low      | merge ms branch   |          | 06/13/2018 07:16 PM |                                   |
| 3344 | OsmoTRX                         | Feature | New    | Normal   | merge ttsou/siggen  |          | 06/13/2018 07:26 PM |                                   |

| #    | Project                         | Tracker | Status | Priority | Subject   | Assignee | Updated             | Related issues                     |
|------|---------------------------------|---------|--------|----------|---|----------|---------------------|------------------------------------|
| 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                   |
| 3315 | rtl-sdr                         | Feature | New    | Normal   | review and possibly apply patches from debian package   | steve-m  | 06/03/2018 01:17 PM |                                    |
| 3309 | libosmocore                     | Feature | New    | Normal   | osmo_timer_* should use monotonic clock   |          | 05/31/2018 03:59 PM | Related to #3309                   |
| 3285 | OsmoPCU                         | Feature | New    | Normal   | design + implement tools to analyze inter-PCU cell changes  | daniel   | 02/06/2021 11:12 AM | Related to #3284                   |
| 3280 | OsmocomBB                       | Feature | New    | Low      | Multiparty SS support in OsmocomBB  |          | 05/22/2018 07:40 AM |                                    |
| 3234 | OsmoGSMTester                   | Feature | New    | Low      | osmo-gsm-tester: poll the python-smplib socket using non-busy approach                              | pespin   | 03/31/2023 03:28 PM | Related to #2512                   |
| 3229 | Cellular Network Infrastructure | Feature | New    | Low      | build-system: jenkins.sh: Improve debian package generation test coverage during gerrit submission  |          | 05/08/2019 02:36 PM | Related to #3228                   |
| 3227 | Cellular Network Infrastructure | Feature | New    | Normal   | general idea: separate GSUP spec document   | roh      | 12/01/2019 09:26 AM | Is duplicate of #3227              |
| 3210 | osmo-fl2k                       | Feature | New    | Low      | man pages   | steve-m  | 04/24/2018 08:55 PM |                                    |
| 3207 | OsmoMGW                         | Feature | New    | Low      | Support for RTP Payload Format according to "ETSI TS 101 318"                                       |          | 04/24/2018 03:53 PM |                                    |
| 3165 | OsmoMSC                         | Feature | New    | Low      | Verify LU Request's LAI   | osmith   | 07/18/2019 05:48 AM | Related to #3164                   |
| 3142 | Cellular Network Infrastructure | Feature | New    | Low      | Further simplification of "NITB like" setups  |          | 04/05/2018 08:09 PM |                                    |
| 3097 | OsmoBSC                         | Feature | New    | Normal   | ramping of "rxlev access min"   |          | 03/22/2018 11:51 AM | Related to #3097                   |
| 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              |
| 3038 | multi-voltage USB UART          | Feature | New    | Normal   | Add mounting holes?   |          | 03/07/2018 02:12 AM |                                    |
| 3033 | OsmoTRX                         | Feature | New    | Low      | Split wiki page into multiple smaller pages   |          | 03/05/2018 11:28 AM |                                    |
| 3019 | OsmoHLR                         | Feature | New    | Low      | add config for number of auth tuples returned   |          | 06/23/2018 06:58 PM |                                    |
| 2946 | OsmoGGSN (former OpenGGSN)      | Feature | New    | Low      | Add test suite for sgsnemu  | pespin   | 11/21/2019 05:03 PM |                                    |
| 2918 | OsmoBSC                         | Feature | New    | Low      | Implement a function to properly test connection clearing in MSC_ConnectionHandler.ttcn (BSC-Tests) |          | 01/08/2020 10:21 PM |                                    |
| 2913 | OsmocomBB                       | Feature | New    | Low      | Add a tool that decodes Cell Broadcasts (SMSCB)   |          | 09/29/2018 09:31 AM | Related to #3564                   |
| 2878 | OsmoMSC                         | Feature | New    | Low      | OsmoMSC support for "Follow-on request/proceed"   |          | 01/26/2018 09:11 PM |                                    |
| 2861 | OsmoGSMTester                   | Feature | New    | Normal   | osmo-gsm-tester: Add 3g support for sysmocell-5k  |          | 12/02/2019 01:36 PM | Related to #2860                   |
| 2860 | OsmoGSMTester                   | Feature | New    | Low      | osmo-gsm-tester: Add 3g support with nano3G board   | pespin   | 03/31/2023 03:26 PM | Related to #2860                   |
| 2840 | OsmoHLR                         | Feature | New    | Low      | HLR should allow 2g-only or 3g-only subscribers   | neels    | 10/28/2020 09:22 PM |                                    |
| 2832 | OsmoMSC                         | Feature | New    | Low      | MNCC doesn't include field for "supported codecs"   |          | 01/16/2018 07:00 AM | Related to #2832, Related to #1683 |

| #    | Project                         | Tracker | Status | Priority | Subject  | Assignee | Updated             | Related issues                    |
|------|---------------------------------|---------|--------|----------|--|----------|---------------------|-----------------------------------|
| 2827 | OsmoBTS                         | Feature | New    | Low      | would be nice if logging of the BTS number in osmo-bts matched the BTS number used in osmo-bsc |          | 06/23/2018 06:48 PM |                                   |
| 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 |                                   |
| 2806 | UUCP and UseNet                 | Feature | New    | Low      | Create Dockerfile and/or ansible playbook for UseNet node                                      |          | 01/01/2018 01:04 PM |                                   |
| 2804 | linmodem                        | Feature | New    | Low      | DAHDI interface  |          | 01/01/2018 12:27 PM |                                   |
| 2802 | linmodem                        | Feature | New    | Low      | report the connected speed in "CONNECT" message  |          | 01/01/2018 12:18 PM |                                   |
| 2801 | linmodem                        | Feature | New    | Normal   | V.90 completion  |          | 01/01/2018 12:18 PM |                                   |
| 2800 | linmodem                        | Feature | New    | Normal   | Interop testing with real modems   |          | 01/01/2018 12:16 PM |                                   |
| 2799 | linmodem                        | Feature | New    | Normal   | SIP client support   |          | 01/01/2020 08:05 PM |                                   |
| 2798 | linmodem                        | Feature | New    | Normal   | ALSA Soundcard Support   |          | 01/01/2018 12:02 PM |                                   |
| 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 |                                   |
| 2724 | OsmoBSC                         | Feature | New    | Normal   | Improve default timers   | laforge  | 01/04/2018 11:06 AM | Related to #2724                  |
| 2712 | libosmocore                     | Feature | New    | Low      | implement reproducible talloc context printout, i.e. without memory addresses                  |          | 01/08/2020 10:21 PM | Related to #2781                  |
| 2707 | OsmoGSMTester                   | Feature | New    | Normal   | Add support for verifying content of log files after test is run                               |          | 12/04/2017 05:05 PM |                                   |
| 2702 | OsmoMGW                         | Feature | New    | Low      | libosmo-mgcp doesn't use osmo_sock_ API  |          | 12/03/2017 09:42 AM |                                   |
| 2697 | osmo-qcdiag                     | Feature | New    | Normal   | Create and add debian packages for osmo-qcdiag to osmocom debian repositories                  |          | 11/30/2017 06:03 PM |                                   |
| 2651 | OsmoMGW                         | Feature | New    | Low      | Support MGCP Piggybacking  |          | 11/18/2017 05:44 PM |                                   |
| 2646 | OsmoGSMTester                   | Feature | New    | Normal   | osmo-gsm-tester: Add osmo-sip-connector support  |          | 04/23/2018 10:40 AM |                                   |
| 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 |
| 2612 | OsmoGSMTester                   | Feature | New    | Low      | Allow skipping pcaps by configuration if access to tcpdump is not wanted                       |          | 04/06/2020 11:25 AM |                                   |
| 2610 | libosmocore                     | Feature | New    | Low      | optimize GnuTLS fallback   |          | 05/01/2018 04:07 PM | Related to #2610,Related to #3909 |
| 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 |                                   |
| 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                  |
| 2580 | OsmoMGW                         | Feature | New    | Low      | implement timeout/resend mechanism for mgcp_client   |          | 09/04/2019 09:26 AM |                                   |



| #    | Project                         | Tracker | Status | Priority | Subject   | Assignee | Updated             | Related issues  |
|------|---------------------------------|---------|--------|----------|---|----------|---------------------|---|
| 2567 | OsmoHLR                         | Feature | New    | Low      | tell the MSC(s) when subscriber data has changed  |          | 10/11/2017 01:50 AM |   |
| 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 |
| 2546 | OsmoMGW                         | Feature | New    | Low      | support play-out/announcement endpoint type   |          | 10/06/2017 12:30 PM |   |
| 2523 | OsmoMGW                         | Feature | New    | Normal   | transcoding: remove "not yet implemented" from MNCC manual once transcoding is in place | daniel   | 03/16/2018 07:54 PM |   |
| 2494 | OsmoGGSN (former OpenGGSN)      | Feature | New    | Low      | IPv6 support on the outer (transport) layer   |          | 02/06/2021 12:09 PM |   |
| 2468 | OsmoGSMTester                   | Feature | New    | Low      | ofono: gobi modem doesn't support ofono SupplementaryServices interface                 |          | 01/08/2020 10:51 PM |   |
| 2462 | OsmoBSC                         | Feature | New    | Low      | clarify lchan->encr.alg_id  |          | 08/24/2017 01:27 PM | Related to #2462  |
| 2451 | Cellular Network Infrastructure | Feature | New    | Low      | Add static builds to jenkins jobs   | osmith   | 09/30/2018 08:18 AM |   |
| 2436 | OsmoHNBGW                       | Feature | New    | Low      | Test cases for asn1c APER encoding  |          | 01/08/2020 10:56 PM | Related to #2435,Related to #2436,Related to #3862                  |
| 2432 | OsmoGSMTester                   | Feature | New    | Low      | ofono: Find out how to receive Status / Delivery report                                 |          | 01/08/2020 10:51 PM |   |
| 2430 | OsmoTRX                         | Feature | New    | Low      | osmo-trx support bladerf  |          | 02/14/2023 01:39 PM | Is duplicate of #2430,Is duplicate of #2430                         |
| 2411 | OsmoMGW                         | Feature | New    | Low      | No support for RTP dynamic payload types - AMR/HR/EFR payload types are hardcoded       |          | 03/05/2018 07:04 PM |   |
| 2405 | OsmoPCU                         | Feature | New    | Low      | RLC/MAC encoding routines don't use bitvec L/H  |          | 07/29/2017 09:01 AM |   |
| 2399 | OsmoGSMTester                   | Feature | New    | Normal   | add tests for graceful restart of individual components                                 |          | 07/25/2017 12:02 AM |   |
| 2394 | OsmoHNBGW                       | Feature | New    | Low      | Implement SABP (Service Area Broadcast Protocol)  | laforge  | 12/30/2020 01:19 AM | Related to #2392,Related to #3979                                   |
| 2391 | OsmoMSC                         | Feature | New    | Low      | add osmocom specific TLVs to A-interface for BTS/TS and subscriber details              |          | 10/02/2018 03:40 PM |   |
| 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 libosmocom ("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 |   |

| #    | Project                      | Tracker | Status | Priority | Subject   | Assignee | Updated             | Related issues                    |
|------|------------------------------|---------|--------|----------|---|----------|---------------------|-----------------------------------|
| 2366 | OsmoBTS                      | Feature | New    | Low      | OsmoBTS lacks EXTENDED BCCH support   |          | 07/15/2017 10:42 AM | Related to #1575,Related to #2014 |
| 2356 | OsmoBTS                      | Feature | New    | Low      | have per-SAPI logging in OsmoBTS DL1P / DL1C  | osmith   | 03/19/2020 08:06 PM | Related to #2355                  |
| 2318 | OsmoGSMTester                | Feature | New    | Normal   | testing sysmobts: skip copying of binaries when the same are already installed        |          | 06/07/2017 03:55 PM |                                   |
| 2314 | OsmoGSMTester                | Feature | New    | Normal   | osmo-gsm-tester: add test case: smpp: correct ESME routing                            |          | 05/31/2017 04:29 PM |                                   |
| 2313 | OsmoGSMTester                | Feature | New    | Normal   | osmo-gsm-tester: add test case: smpp: imsi extension                                  |          | 05/31/2017 04:27 PM |                                   |
| 2311 | OsmoGSMTester                | Feature | New    | Normal   | osmo-gsm-tester: add test case: smpp: smpp_first feature                              |          | 05/31/2017 04:21 PM |                                   |
| 2288 | OsmoGSMTester                | Feature | New    | Low      | logging: print in a short way which resource is being reserved and used               |          | 05/23/2017 02:25 PM |                                   |
| 2287 | OsmoGSMTester                | Feature | New    | Low      | processes launched by gsmtester: store command lines called next to stdout and stderr |          | 05/23/2017 12:11 PM |                                   |
| 2271 | OsmoGSMTester                | Feature | New    | Low      | add test names to pick to the -s cmdline option                                       |          | 05/18/2017 12:32 PM |                                   |
| 2266 | OsmoGSMTester                | Feature | New    | Normal   | in the gsm tester, use ipa.py from openbsc instead of the current CTRL implementation |          | 10/16/2017 12:36 PM |                                   |
| 2230 | OsmoGSMTester                | Feature | New    | Normal   | osmo-gsm-tester: arfcn as resource  |          | 12/14/2017 04:08 PM | Related to #2230                  |
| 2225 | OsmoGSMTester                | Feature | New    | Low      | tester nitb: connect ctrl interface only once   |          | 05/15/2017 12:58 PM |                                   |
| 2224 | SDR (Software Defined Radio) | Feature | New    | Normal   | New Fospor Benchmark Performance  |          | 05/04/2017 01:23 PM |                                   |
| 2209 | OsmoGSMTester                | Feature | New    | Low      | osmo-gsm-tester: add test API to explicitly free a resource                           |          | 05/19/2017 11:01 AM | Related to #2208                  |
| 2208 | OsmoGSMTester                | Feature | New    | Low      | osmo-gsm-tester: allow running binaries for a whole suite, or only for a single test  |          | 05/30/2017 01:07 PM | Related to #2208                  |
| 2200 | OsmoGSMTester                | Feature | New    | Low      | osmo-gsm-tester: allow collecting statistics / KPI of a test case                     |          | 04/06/2020 04:57 PM | Related to #2201                  |
| 2196 | OsmoGSMTester                | Feature | New    | Low      | libmsc ctrl interface: add CTRL command to query a single subscriber's attached state |          | 05/15/2017 12:58 PM |                                   |
| 2191 | OsmoMSC                      | Feature | New    | Normal   | raw PDU mode for SMPP   |          | 12/23/2017 05:48 PM |                                   |
| 2186 | libosmocore                  | Feature | New    | Low      | split libosmocrypto   |          | 10/05/2017 06:25 AM |                                   |
| 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 |                                   |

| #    | Project                         | Tracker | Status | Priority | Subject  | Assignee   | Updated             | Related issues                         |
|------|---------------------------------|---------|--------|----------|--|------------|---------------------|--|
| 2156 | OP25                            | Feature | New    | High     | Implement forward error correction for HDU.  |            | 04/22/2017 04:16 PM |  |
| 2155 | OP25                            | Feature | New    | High     | Replace FSK4 demodulation with IQ demodulator stage.   |            | 04/22/2017 04:16 PM |  |
| 2011 | Cellular Network Infrastructure | Feature | New    | Low      | clean-up / merge IPA (and IPA CCM) code of libosmocore, libosmo-abis, libosmo-netif, openbsc, etc. |            | 12/07/2022 04:11 PM | Related to #4841                       |
| 2009 | libosmo-sccp + libosmo-sigtran  | Feature | New    | Low      | Implement SCCP connection coupling ("proxy")   |            | 04/10/2017 12:09 PM |  |
| 2008 | libosmo-sccp + libosmo-sigtran  | Feature | New    | Low      | Implement Global Title Translation   |            | 04/10/2017 12:05 PM |  |
| 2007 | libosmo-sccp + libosmo-sigtran  | Feature | New    | Low      | Implement GT based routing   |            | 04/10/2017 12:04 PM |  |
| 2006 | libosmo-sccp + libosmo-sigtran  | Feature | New    | Low      | Implement M2PA support   |            | 02/10/2024 01:17 PM | Related to #3603                       |
| 2003 | libosmo-sccp + libosmo-sigtran  | Feature | New    | Low      | Implement M2UA support   |            | 04/10/2017 12:01 PM |  |
| 2000 | libosmo-sccp + libosmo-sigtran  | Feature | New    | Low      | use m3ua-testtool for the ASP-side verification  |            | 07/18/2019 05:42 AM |  |
| 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 |
| 1975 | Cellular Network Infrastructure | Feature | New    | Low      | Redesigned configuration management / MIB  | laforge    | 02/16/2021 05:59 PM |  |
| 1974 | OsmoMSC                         | Feature | New    | Low      | VLR: high water mark on subscriber storage   |            | 05/15/2022 01:45 PM | Related to #1973                       |
| 1973 | OsmoMSC                         | Feature | New    | Low      | VLR: efficient subscriber lookup   |            | 07/18/2019 06:15 AM | Related to #1973                       |
| 1946 | OsmoBSC                         | Feature | New    | Low      | Add checks to the BSC VTY to prevent configurations known to not work                              |            | 10/20/2020 08:40 AM | Related to #1614                       |
| 1926 | OsmoBTS                         | Feature | New    | Low      | unify *_mgr code   |            | 07/18/2019 06:08 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 |  |
| 1908 | osmo-qcdiag                     | Feature | New    | Normal   | add VTY interface to osmo-qcdiag   | laforge    | 01/12/2017 01:15 PM |  |
| 1903 | OsmoPCU                         | Feature | New    | Low      | convert c++ -> c   |            | 03/23/2020 10:48 PM |  |
| 1902 | OsmoBTS                         | Feature | New    | Low      | unify/refactor dynamic timeslot code   |            | 01/08/2020 10:56 PM | Related to #1902,Related to #3099      |
| 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 |  |
| 1872 | libosmocore                     | Feature | New    | Low      | high-performance remote logging  |            | 03/24/2021 12:36 PM |  |
| 1858 | OsmoBSC                         | Feature | New    | Normal   | make BSC also generate ALERTs  |            | 12/10/2017 07:59 PM |  |

| #    | Project                               | Tracker | Status | Priority | Subject   | Assignee | Updated             | Related issues  |
|------|---------------------------------------|---------|--------|----------|---|----------|---------------------|---|
| 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                                   |
| 1837 | OsmoBTS                               | Feature | New    | Low      | autogenerate dtx_dl_amr_fsm.*   |          | 03/01/2018 11:17 PM |   |
| 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 |   |
| 1814 | Qualcomm Linux Modems by Quectel & Co | Feature | New    | Low      | check if qtools work  |          | 10/02/2016 04:08 AM |   |
| 1812 | OsmoNITB                              | Feature | New    | Normal   | Report gsm0408_dispatch() failures to MS / UE   |          | 01/08/2020 10:56 PM |   |
| 1771 | OsmoBTS                               | Feature | New    | Low      | osmo-bts-trx: clarify check_transceiver_availability()                                    |          | 03/01/2018 11:17 PM | Related to #1770  |
| 1755 | OsmoBTS                               | Feature | New    | Low      | osmo-bts-sysmo L1: unify hLayer3 handling   |          | 02/02/2017 04:00 PM | Related to #1755  |
| 1716 | libosmocore                           | Feature | New    | Normal   | enhance unit test coverage  |          | 08/17/2016 03:57 PM | Related to #1987,Precedes #1717                                     |
| 1692 | OsmoBTS                               | Feature | New    | Low      | clock source monitoring   |          | 04/13/2016 09:49 AM |   |
| 1689 | OsmoSMSC                              | Feature | New    | Normal   | insert: Change destination number based on criteria similiar to route handling on output  | zecke    | 04/06/2016 12:18 PM |   |
| 1688 | libosmo-sccp + libosmo-sigtran        | Feature | New    | Low      | SUA: support N-STATE indication primitives for connect and disconnect events              |          | 04/08/2018 07:59 AM |   |
| 1687 | osmo-sip-connector                    | Feature | New    | Low      | osmo-sip-connector: Explore 3-way conference call   |          | 01/08/2020 10:56 PM |   |
| 1686 | osmo-sip-connector                    | Feature | New    | Normal   | osmo-sip-connector: Implement call holding on SIP   |          | 10/20/2020 08:36 AM |   |
| 1667 | OsmoNITB                              | Feature | New    | Normal   | Handle callref better   |          | 09/04/2019 09:31 AM | Related to #3294  |
| 1659 | OsmoBSC                               | Feature | New    | Low      | Check encoding of SI at time parameters are entered from VTY, not just at generation time |          | 12/10/2017 08:06 PM |   |
| 1643 | OsmoHLR                               | Feature | New    | Low      | programmatic access to new asynchronous external HLR                                      |          | 12/10/2017 08:06 PM | Related to #1643,Blocks #1643                                       |
| 1623 | OsmoSMSC                              | Feature | New    | Normal   | Configure delivery report for the SMPP delivery links                                     | zecke    | 02/24/2016 01:49 PM |   |
| 1613 | OsmoBSC                               | Feature | New    | Low      | make BTS/TRX configuration changes without having to drop BTS OML link                    |          | 12/10/2017 08:06 PM |   |
| 1603 | OsmoMSC                               | Feature | New    | Low      | Interfacing the MSC with other networks: Roaming interfaces / MAP                         |          | 07/18/2019 06:13 AM |   |
| 1600 | OsmoBSC                               | Feature | New    | Low      | BSC: Make SI / rest octests more configurable   |          | 12/10/2017 08:04 PM |   |
| 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 |
| 1598 | Cellular Network Infrastructure       | Feature | New    | Low      | Scripting language interface  |          | 12/10/2017 08:04 PM |   |

| #    | Project                         | Tracker | Status | Priority | Subject  | Assignee | Updated             | Related issues |
|------|---------------------------------|---------|--------|----------|--|----------|---------------------|----------------|
| 1596 | Cellular Network Infrastructure | Feature | New    | Low      | Generation of accounting/billing data                |          | 12/10/2017 08:03 PM |                |
| 1590 | Cellular Network Infrastructure | Feature | New    | Low      | Extension of Control Interface / external SNMP agent |          | 07/18/2019 05:22 AM |                |
| 1588 | OsmoSGSN                        | Feature | New    | Normal   | Inter-RAT hand-over                                  |          | 02/23/2016 03:46 PM |                |

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