

## all-by-project

| #                                           | Project                         | Category | Tracker | Status      | Priority | Subject                                                                              | Assignee | Updated             | Related issues        |
|---------------------------------------------|---------------------------------|----------|---------|-------------|----------|--------------------------------------------------------------------------------------|----------|---------------------|-----------------------|
| <b>Altair LTE Modems (1)</b>                |                                 |          |         |             |          |                                                                                      |          |                     |                       |
| 4638                                        | Altair LTE Modems               |          | Feature | New         | Normal   | Mikrotik R11e-4G mtd dump                                                            |          | 06/13/2021 10:15 AM |                       |
| <b>BBS-Revival (2)</b>                      |                                 |          |         |             |          |                                                                                      |          |                     |                       |
| 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 |                       |
| 4242                                        | BBS-Revival                     | content  | Feature | New         | Low      | offer CCC event schedule (Fahrplan) as gopher service                                |          | 10/28/2019 09:22 AM |                       |
| <b>Cellular Modem Information (2)</b>       |                                 |          |         |             |          |                                                                                      |          |                     |                       |
| 4525                                        | Cellular Modem Information      |          | Feature | New         | Normal   | MTK                                                                                  |          | 05/03/2020 03:57 PM | Is duplicate of #4525 |
| 3658                                        | Cellular Modem Information      |          | Feature | New         | Low      | Create a "osmocom-bb-host-latest" docker container                                   |          | 12/01/2019 09:07 AM | Related to #3658      |
| <b>Cellular Network Infrastructure (74)</b> |                                 |          |         |             |          |                                                                                      |          |                     |                       |
| 6411                                        | Cellular Network Infrastructure |          | Bug     | Stalled     | Normal   | ttn3: execute testsuites with a more realistic link performance                      |          | 04/03/2024 06:25 PM |                       |
| 6352                                        | Cellular Network Infrastructure |          | Bug     | Stalled     | Low      | ttn3-bts-test[-latest] is broken since Feb 1st / docker and multicast                | osmith   | 03/06/2024 03:57 PM |                       |
| 6349                                        | Cellular Network Infrastructure |          | Bug     | Feedback    | Normal   | example configs missing in release tarballs                                          | fixeria  | 01/29/2024 04:04 PM |                       |
| 6327                                        | Cellular Network Infrastructure |          | Feature | New         | Low      | Osmocom-build-tags-against-master job builds very basic configurations               | osmith   | 01/11/2024 08:17 PM |                       |
| 6243                                        | Cellular Network Infrastructure |          | Feature | New         | Low      | vty cfg: make changing startup defaults of applications backwards compatible         |          | 11/01/2023 07:06 PM |                       |
| 6215                                        | Cellular Network Infrastructure |          | Bug     | New         | Normal   | Rebase open5gs pcrf_simple patches and submit upstream                               | lynxis   | 10/18/2023 02:53 PM |                       |
| 6198                                        | Cellular Network Infrastructure |          | Bug     | In Progress | Normal   | Patch releases for September 2023 Osmocom CNI releases                               | roh      | 12/19/2023 01:29 PM | Related to #6253      |
| 6188                                        | Cellular Network Infrastructure |          | Bug     | New         | Normal   | Osmocom manuals have "draft" in debian packages of released versions                 | osmith   | 09/21/2023 04:37 PM |                       |
| 6122                                        | Cellular Network Infrastructure |          | Bug     | New         | Low      | remove big endian support                                                            | osmith   | 10/18/2023 05:20 PM | Related to #6122      |
| 6069                                        | Cellular Network Infrastructure |          | Feature | In Progress | Normal   | port hello-stk to ant-based build like mrlnc/HelloSTK2                               | dexter   | 11/02/2023 12:52 PM |                       |
| 5985                                        | Cellular Network Infrastructure |          | Bug     | New         | Normal   | tests: not all Osmocom projects have @osmoappdesc.py@                                |          | 03/29/2023 08:09 PM |                       |

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|------|---------------------------------|----------|---------|-------------|----------|--------------------------------------------------------------------------------------------|----------|---------------------|-----------------------------------|
| 5929 | Cellular Network Infrastructure |          | Feature | In Progress | Normal   | document current (milestones of) nlnet funded projects; mention nlnet funding              | laforge  | 04/04/2023 10:05 AM |                                   |
| 5908 | Cellular Network Infrastructure |          | Feature | New         | Low      | Cleanup license information throughout the projects                                        |          | 02/16/2023 11:02 AM |                                   |
| 5887 | Cellular Network Infrastructure |          | Bug     | New         | Low      | coverity: build everything in docker container and add CI                                  | osmith   | 02/01/2023 10:25 AM |                                   |
| 5819 | Cellular Network Infrastructure |          | Bug     | New         | Low      | Gerrit/gitiles: Parent links don't work                                                    |          | 12/08/2022 01:28 PM |                                   |
| 5809 | Cellular Network Infrastructure |          | Bug     | Feedback    | Normal   | applications disrespect potentially VTY-configured tcp/telnet port                         | osmith   | 10/31/2023 09:34 AM |                                   |
| 5771 | Cellular Network Infrastructure |          | Feature | New         | Normal   | series of presentations about the individual CNI network elements                          |          | 11/14/2022 07:25 PM |                                   |
| 5764 | Cellular Network Infrastructure |          | Bug     | New         | Normal   | GCC does not check format strings in LOGPFSM macros                                        |          | 11/11/2022 06:30 AM |                                   |
| 5750 | Cellular Network Infrastructure |          | Bug     | New         | Normal   | contrib/jenkins.sh: build with -Wunused-macros and -Wundef                                 |          | 11/08/2022 08:07 PM |                                   |
| 5749 | Cellular Network Infrastructure |          | Bug     | New         | Normal   | configure.ac: default CFLAGS, LT_INIT adds "-g -O2"                                        | fixeria  | 01/31/2023 08:12 PM |                                   |
| 5722 | Cellular Network Infrastructure |          | Feature | New         | Low      | Migrate jenkins build slaves from docker to podman                                         |          | 10/21/2022 08:29 PM | Related to #5722                  |
| 5692 | Cellular Network Infrastructure |          | Feature | New         | Low      | switch to C99 standard flexible arrays instad of gcc-specific zero-length arrays           |          | 09/29/2022 05:59 AM |                                   |
| 5685 | Cellular Network Infrastructure |          | Bug     | Feedback    | Normal   | Dropping debian 10 (buster)                                                                | osmith   | 04/04/2023 10:10 AM | Related to #5685,Related to #5685 |
| 5669 | Cellular Network Infrastructure |          | Bug     | New         | Normal   | Test .deb packages built by our OBS                                                        |          | 09/21/2022 01:03 PM | Related to #5669,Related to #5669 |
| 5446 | Cellular Network Infrastructure |          | Feature | New         | Normal   | correlate git version to ttcn3 tests                                                       |          | 02/07/2022 09:40 PM | Related to #5446                  |
| 5188 | Cellular Network Infrastructure |          | Bug     | New         | Normal   | BSSMAP Cell Identifier IE vs. Cell Identifier List IE: difference in allowed cell id types | neels    | 08/23/2022 04:24 PM |                                   |
| 5124 | Cellular Network Infrastructure |          | Feature | Feedback    | Normal   | network:osmocom:nightly feed with "-O0" builds                                             | laforge  | 05/11/2023 11:11 AM |                                   |
| 5045 | Cellular Network Infrastructure |          | Feature | New         | Normal   | write libversion "major" on build files automatically based on LIBVERSION                  | pespin   | 02/24/2021 01:14 PM |                                   |
| 5013 | Cellular Network Infrastructure |          | Feature | New         | Low      | investigate "vtysh" for Osmocom                                                            |          | 02/06/2021 02:14 PM | Related to #5013                  |
| 4883 | Cellular Network Infrastructure |          | Bug     | New         | Normal   | update OsmoNITB migration guide                                                            | neels    | 12/01/2020 08:32 AM |                                   |

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|------|---------------------------------|----------|---------|-------------|----------|-------------------------------------------------------------------------------------------------|-----------|---------------------|------------------------------------------------------------------------------------------------------------------------|
| 4587 | Cellular Network Infrastructure |          | Feature | New         | Low      | Add port numbers to /etc/services during installation                                           |           | 06/08/2020 10:28 AM | Related to #5013                                                                                                       |
| 4578 | Cellular Network Infrastructure |          | Bug     | New         | High     | Updated slides / presentations / videos on setting up Osmocom CNI                               | laforge   | 02/13/2021 05:35 PM |                                                                                                                        |
| 4376 | Cellular Network Infrastructure |          | Feature | New         | Normal   | Define distinct X timer numbers across all osmo programs                                        |           | 01/23/2020 09:21 PM |                                                                                                                        |
| 4333 | Cellular Network Infrastructure |          | Support | Feedback    | Normal   | GSUP binary compatibility: add GSUP protocol version IE?                                        |           | 12/16/2019 01:56 PM | Related to #4333,Related to #4333,Related to #4333                                                                     |
| 4277 | Cellular Network Infrastructure |          | Feature | New         | Low      | implement an SMSC to work with OsmoMSC                                                          |           | 11/22/2019 02:45 PM |                                                                                                                        |
| 4141 | Cellular Network Infrastructure |          | Bug     | New         | Normal   | No osmux specific code in place during codec negotiation                                        |           | 08/05/2019 03:57 PM |                                                                                                                        |
| 4131 | Cellular Network Infrastructure |          | Bug     | Stalled     | Low      | osmo-gsm-manuals: Use leveloffset attribute on common documents                                 | osmith    | 12/01/2019 09:48 AM | Related to #4140                                                                                                       |
| 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                                                                                                       |
| 4108 | Cellular Network Infrastructure |          | Bug     | New         | Low      | osmo-ctrl2cgi, osmo-trap2cgi: missing default configs                                           |           | 07/16/2019 12:30 PM | Related to #4108                                                                                                       |
| 4107 | Cellular Network Infrastructure |          | Feature | In Progress | High     | Start systemd services as non-root user                                                         | osmith    | 04/26/2024 09:08 AM | Related to #4107,Related to #4821,Related to #4107,Related to #5669,Related to #5685,Related to #5687,Related to #5722 |
| 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 |                                                                                                                        |
| 4073 | Cellular Network Infrastructure |          | Feature | Stalled     | Low      | try to get counter and vty reference information at compile time                                | Hoernchen | 02/06/2021 02:17 PM | Related to #4073,Related to #4848                                                                                      |
| 4069 | Cellular Network Infrastructure |          | Bug     | New         | Low      | Implement IPA PING/PONG mechanism everywhere                                                    | osmith    | 02/06/2021 02:27 PM | Related to #4072                                                                                                       |
| 4006 | Cellular Network Infrastructure |          | Feature | Stalled     | Normal   | TRX protocol: wind of change                                                                    | fixeria   | 10/27/2021 10:22 PM | Related to #4006,Related to #4006,Related to #4006,Related to #4081,Related to #4658,Related to #4941,Related to #5283 |

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|------|---------------------------------|----------|---------|----------|----------|----------------------------------------------------------------------------------------------------|-----------|---------------------|-----------------------------------|
| 3982 | Cellular Network Infrastructure |          | Feature | Feedback | Low      | osmo-depcheck.py: set dependency hashes on command line                                            | osmith    | 05/15/2023 09:51 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 |                                   |
| 3714 | Cellular Network Infrastructure |          | Feature | New      | Low      | implement Internal Handover With MSC Support                                                       | neels     | 02/06/2021 02:04 PM | Related to #3714                  |
| 3699 | Cellular Network Infrastructure |          | Feature | Stalled  | Low      | merge Debian patches                                                                               | Hoernchen | 01/08/2020 10:24 PM | Related to #3699,Related to #3753 |
| 3694 | Cellular Network Infrastructure |          | Bug     | New      | Low      | Fix lintian warnings in .deb packages                                                              |           | 07/18/2019 05:20 AM | Related to #3699                  |
| 3670 | Cellular Network Infrastructure |          | Feature | New      | Low      | TTCN-3 tests for statsd exporter code                                                              |           | 09/04/2019 09:03 AM |                                   |
| 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                  |
| 3567 | Cellular Network Infrastructure |          | Bug     | New      | Low      | coverity: move the secret token out of \$HOME/osmo-ci/.../                                         | lynxis    | 07/18/2019 05:22 AM |                                   |
| 3477 | Cellular Network Infrastructure |          | Feature | New      | Low      | add a wiki page explaining interconnection between components across several machines              | osmith    | 12/01/2019 09:29 AM |                                   |
| 3417 | Cellular Network Infrastructure |          | Bug     | New      | Normal   | show asciidoc counters does not show all the counters available                                    | osmith    | 12/01/2019 09:28 AM | Related to #3417,Related to #4848 |
| 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                    |
| 3382 | Cellular Network Infrastructure |          | Bug     | New      | Low      | Investigate and fix lintian issues listed by Debian Lintian Report                                 | osmith    | 12/01/2019 09:27 AM |                                   |
| 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             |
| 3192 | Cellular Network Infrastructure |          | Bug     | New      | Low      | meas_vis: use the lchan identity as primary key, not the IMSI                                      | laforge   | 12/01/2019 09:20 AM | Related to #3192,Related to #3192 |
| 3167 | Cellular Network Infrastructure |          | Bug     | New      | Low      | Build osmo-*-master docker containers with address sanitizer                                       | osmith    | 07/18/2019 05:22 AM | Related to #3167                  |
| 3142 | Cellular Network Infrastructure |          | Feature | New      | Low      | Further simplification of "NITB like" setups                                                       |           | 04/05/2018 08:09 PM |                                   |
| 2839 | Cellular Network Infrastructure |          | Bug     | New      | Low      | statistics split between 2G and 3G                                                                 |           | 07/18/2019 05:22 AM |                                   |

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|------|---------------------------------|----------|---------|---------|----------|----------------------------------------------------------------------------------------------------|----------|---------------------|----------------------------------------------------------------------------------|
| 2623 | Cellular Network Infrastructure |          | Feature | New     | High     | SCCP/M3UA: detect restart of osmo-msc and osmo-sgsn                                                | neels    | 02/07/2021 12:55 PM | Related to #3403,Related to #4701                                                |
| 2604 | Cellular Network Infrastructure |          | Feature | Stalled | High     | GSUP-to-DIAMETER converter / IWF                                                                   | laforge  | 02/29/2020 11:27 AM | Related to #5646                                                                 |
| 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                                                                 |
| 2558 | Cellular Network Infrastructure |          | Feature | Stalled | Normal   | Scripts to manage thousands of "mobile" and hundreds of osmo-bts-virtual instances                 |          | 06/08/2020 07:07 PM | Related to #2557,Related to #2556,Related to #2555,Related to #2558,Blocks #2893 |
| 2554 | Cellular Network Infrastructure |          | Feature | New     | Low      | Reference/Demo setup + documentation for use of OsmoBSC+OsmoBSCNAT with OSMUX                      | pespin   | 06/08/2020 07:07 PM | Related to #2553,Related to #2552,Related to #2551,Related to #2554              |
| 2451 | Cellular Network Infrastructure |          | Feature | New     | Low      | Add static builds to jenkins jobs                                                                  | osmith   | 09/30/2018 08:18 AM |                                                                                  |
| 2011 | Cellular Network Infrastructure |          | Feature | New     | Low      | clean-up / merge IPA (and IPA CCM) code of libosmocore, libosmo-abis, libosmo-netif, openbsc, etc. |          | 12/07/2022 04:11 PM | Related to #4841                                                                 |
| 1975 | Cellular Network Infrastructure |          | Feature | New     | Low      | Redesigned configuration management / MIB                                                          | laforge  | 02/16/2021 05:59 PM |                                                                                  |
| 1612 | Cellular Network Infrastructure |          | Bug     | New     | Low      | more configuration consistency checking                                                            |          | 09/30/2018 11:48 AM |                                                                                  |
| 1598 | Cellular Network Infrastructure |          | Feature | New     | Low      | Scripting language interface                                                                       |          | 12/10/2017 08:04 PM |                                                                                  |
| 1596 | Cellular Network Infrastructure |          | Feature | New     | Low      | Generation of accounting/billing data                                                              |          | 12/10/2017 08:03 PM |                                                                                  |
| 1590 | Cellular Network Infrastructure |          | Feature | New     | Low      | Extension of Control Interface / external SNMP agent                                               |          | 07/18/2019 05:22 AM |                                                                                  |

### Core testing infrastructure (22)

|      |                             |  |         |             |        |                                                                           |         |                     |  |
|------|-----------------------------|--|---------|-------------|--------|---------------------------------------------------------------------------|---------|---------------------|--|
| 6386 | Core testing infrastructure |  | Bug     | In Progress | Normal | eclipse-titan 9.0.0 not building in debian unstable                       | osmith  | 03/04/2024 02:10 PM |  |
| 6381 | Core testing infrastructure |  | Bug     | Feedback    | Low    | libosmocore changes take too long until they propagate through OBS master | laforge | 03/01/2024 10:10 AM |  |
| 6273 | Core testing infrastructure |  | Bug     | Feedback    | Normal | TTCN3 tests keep suffering from race conditions on shutdown               | daniel  | 12/05/2023 03:29 PM |  |
| 6242 | Core testing infrastructure |  | Feature | New         | Normal | Test eUPF against ttcn3-upf-test setup                                    |         | 12/18/2023 11:33 AM |  |

| #                          | Project                     | Category | Tracker | Status      | Priority | Subject                                                                                             | Assignee | Updated             | Related issues                    |
|----------------------------|-----------------------------|----------|---------|-------------|----------|-----------------------------------------------------------------------------------------------------|----------|---------------------|-----------------------------------|
| 6185                       | Core testing infrastructure |          | Bug     | New         | Normal   | Submit titan.ProtocolEmulations.SCCP patch upstream                                                 | neels    | 09/20/2023 06:22 PM |                                   |
| 6029                       | Core testing infrastructure |          | Bug     | New         | Normal   | Single TTCN3 BSC handover test fails                                                                |          | 10/18/2023 05:31 PM |                                   |
| 6023                       | Core testing infrastructure |          | Feature | Stalled     | Normal   | test rack/lab power management software with usage/reference counting                               | laforge  | 10/18/2023 05:42 PM |                                   |
| 5919                       | Core testing infrastructure |          | Bug     | New         | Low      | osmo-python-tests: Update/fix README or setup process                                               | osmith   | 03/20/2023 10:17 AM |                                   |
| 5858                       | Core testing infrastructure |          | Bug     | Feedback    | Normal   | osmo-python-tests: Ignore, at least clean up 'tmp_dummy_sock'                                       |          | 02/22/2023 06:25 PM | Related to #5858                  |
| 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 |                                   |
| 5760                       | Core testing infrastructure |          | Feature | Stalled     | Normal   | Develop TTCN-3 test suite for MME                                                                   | dexter   | 10/04/2023 01:51 PM |                                   |
| 5665                       | Core testing infrastructure |          | Bug     | Stalled     | Normal   | ERROR: files left in build directory after distclean: ./tests/core                                  | fixeria  | 11/14/2023 12:39 PM | Related to #5665,Related to #5858 |
| 5632                       | Core testing infrastructure |          | Bug     | In Progress | Normal   | better test result summary / notifications                                                          | lynxis   | 08/31/2022 11:58 AM |                                   |
| 5323                       | Core testing infrastructure |          | Feature | New         | Normal   | Add docker image containing titan.core master                                                       |          | 12/15/2021 04:43 PM | Related to #6187                  |
| 5301                       | Core testing infrastructure |          | Bug     | Stalled     | Normal   | Run TTCN3 docker tests with sanitizer enabled                                                       | osmith   | 03/20/2024 09:28 AM | Related to #5302                  |
| 5128                       | Core testing infrastructure |          | Feature | New         | Low      | dec_RlcmacDICtrlBlock: Get rid of annoying warning about remaining padding                          |          | 12/09/2021 09:14 PM |                                   |
| 5011                       | Core testing infrastructure |          | Bug     | New         | Normal   | Warning about unrecognized escape sequence in Osmocom_CTRL_Types                                    |          | 02/05/2021 11:21 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                  |
| 4692                       | Core testing infrastructure |          | Feature | Stalled     | Normal   | finally implement testing of the actual voice audio path                                            | laforge  | 04/19/2021 06:27 PM |                                   |
| 4576                       | Core testing infrastructure |          | Bug     | Stalled     | High     | ttn3-hlr-tests need to route multicast traffic between ttn3-hlr-test and osmo-hlr-master containers | neels    | 10/28/2020 09:48 PM |                                   |
| 4458                       | Core testing infrastructure |          | Feature | New         | Low      | Set up a STF (Smartphone Testing Farm)                                                              |          | 03/18/2020 02:44 PM |                                   |
| <b>Distributed GSM (7)</b> |                             |          |         |             |          |                                                                                                     |          |                     |                                   |
| 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 |                                   |

| #                                                        | Project                                      | Category     | Tracker | Status      | Priority | Subject                                                                                                           | Assignee  | Updated             | Related issues                     |
|----------------------------------------------------------|----------------------------------------------|--------------|---------|-------------|----------|-------------------------------------------------------------------------------------------------------------------|-----------|---------------------|------------------------------------|
| 4705                                                     | Distributed GSM                              |              | Bug     | New         | Normal   | osmo-hlr user manual: explain the mslookup domain suffix "mdns.osmocom.org", it has no mention in the user manual |           | 08/13/2020 12:54 AM |                                    |
| 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                   |
| 4308                                                     | Distributed GSM                              |              | Support | New         | High     | thoughts about incorporating credit / billing in D-GSM                                                            |           | 12/04/2019 04:08 PM |                                    |
| 4306                                                     | Distributed GSM                              |              | Feature | Stalled     | Low      | GSUP proxy cache: store data persistently                                                                         |           | 05/20/2020 09:18 PM | Precedes #4306                     |
| 4305                                                     | Distributed GSM                              |              | Feature | Stalled     | Low      | GSUP proxy: cache auth tuples to re-use / fall back to simpler auth methods                                       |           | 04/28/2020 02:37 PM | Precedes #4306                     |
| 4268                                                     | Distributed GSM                              |              | Bug     | In Progress | Normal   | duplicate SMS when SMPP handler sends back to the originating MSC                                                 | neels     | 06/08/2020 03:11 PM |                                    |
| <b>E1/T1 Hardware Interface (including icE1usb) (13)</b> |                                              |              |         |             |          |                                                                                                                   |           |                     |                                    |
| 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                   |
| 5708                                                     | E1/T1 Hardware Interface (including icE1usb) |              | Bug     | New         | Normal   | rs422: Support runtime re-init of the GPS receiver                                                                | tnt       | 10/13/2022 06:46 PM | Related to #5708                   |
| 5490                                                     | E1/T1 Hardware Interface (including icE1usb) |              | Bug     | Feedback    | Normal   | ISO IN urb sometimes completes with less than full data / incomplete frame                                        | tnt       | 09/15/2022 12:34 PM |                                    |
| 5402                                                     | E1/T1 Hardware Interface (including icE1usb) |              | Bug     | New         | Normal   | no2e1 gateway improvements                                                                                        |           | 01/13/2022 12:02 PM |                                    |
| 5382                                                     | E1/T1 Hardware Interface (including icE1usb) |              | Bug     | New         | Low      | icE1usb: detect all-1 pattern and report as BLUE alarm                                                            |           | 01/02/2022 12:17 PM | Related to #5382                   |
| 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                   |
| 5381                                                     | E1/T1 Hardware Interface (including icE1usb) | DAHDI driver | Bug     | New         | Low      | icE1usb DAHDI driver: generate YELLOW alarm towards peer                                                          | laforge   | 01/02/2022 12:16 PM | Related to #5381, Related to #5381 |
| 6416                                                     | E1/T1 Hardware Interface (including icE1usb) | electrical   | Support | Feedback    | Normal   | Serial debug tty port speed                                                                                       | pfassberg | 03/22/2024 06:52 PM |                                    |

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|------------------------------|----------------------------------------------|------------|---------|----------|----------|---------------------------------------------------------------------------------------|----------|---------------------|----------------|
| 6412                         | E1/T1 Hardware Interface (including icE1usb) | electrical | Support | New      | Normal   | No alignment                                                                          | tnt      | 03/27/2024 01:46 PM |                |
| 6434                         | E1/T1 Hardware Interface (including icE1usb) | firmware   | Support | New      | Normal   | D-channel do not recover after underrun                                               |          | 04/07/2024 09:07 AM |                |
| 6415                         | E1/T1 Hardware Interface (including icE1usb) | firmware   | Bug     | New      | Low      | osmo_panic after truncated packet                                                     | laforge  | 03/22/2024 06:54 PM |                |
| 6417                         | E1/T1 Hardware Interface (including icE1usb) | gateware   | Feature | New      | Normal   | CRC4 configuration                                                                    |          | 03/22/2024 09:02 PM |                |
| <b>Ericsson RBS 6xxx (3)</b> |                                              |            |         |          |          |                                                                                       |          |                     |                |
| 5571                         | Ericsson RBS 6xxx                            |            | Bug     | New      | High     | DUG can come up, but with Avail: "Power Off"                                          | dexter   | 11/08/2022 05:10 PM |                |
| 5307                         | Ericsson RBS 6xxx                            |            | Feature | New      | Normal   | Support for Multiple Sectors at an RBS site.                                          |          | 11/13/2021 08:20 PM |                |
| 4534                         | Ericsson RBS 6xxx                            |            | Support | Stalled  | Normal   | Take pictures of RBS6k gear for documentation                                         | roh      | 05/20/2020 03:19 PM |                |
| <b>erlang/osmo_ss7 (2)</b>   |                                              |            |         |          |          |                                                                                       |          |                     |                |
| 6377                         | erlang/osmo_ss7                              |            | Bug     | Feedback | Normal   | ipa: Failure decoding ipa frames split between several tcp packets                    | pespin   | 02/28/2024 03:00 PM |                |
| 5378                         | erlang/osmo_ss7                              |            | Bug     | New      | Normal   | ipa: add support for client application                                               | laforge  | 01/05/2022 08:36 PM |                |
| <b>FidoNet (1)</b>           |                                              |            |         |          |          |                                                                                       |          |                     |                |
| 2805                         | FidoNet                                      |            | Bug     | New      | Low      | Create reproducible / semi-automatic way to create FidoNet node on Linux              |          | 07/18/2019 05:34 AM |                |
| <b>gr-osmosdr (35)</b>       |                                              |            |         |          |          |                                                                                       |          |                     |                |
| 5808                         | gr-osmosdr                                   |            | Feature | New      | Normal   | New option, for selecting an input channel of a soapy_source_c                        |          | 12/05/2022 11:45 AM |                |
| 5731                         | gr-osmosdr                                   |            | Bug     | New      | High     | Install gr-osmosdr on Ubuntu 20.04                                                    |          | 10/27/2022 01:39 PM |                |
| 5460                         | gr-osmosdr                                   |            | Bug     | New      | Normal   | Please use double for ppm with fcdp/pp                                                |          | 02/17/2022 10:43 PM |                |
| 5448                         | gr-osmosdr                                   |            | Bug     | New      | Low      | a bug related to gqrx using gr-osmosdr for sdrplay rsp1 through soapy(?)              |          | 02/09/2022 02:56 AM |                |
| 5445                         | gr-osmosdr                                   |            | Bug     | New      | Normal   | Please switch to the gr-funcube                                                       |          | 02/15/2022 11:56 PM |                |
| 5425                         | gr-osmosdr                                   |            | Bug     | New      | High     | Problem receiving samples using dual receivers with BladeRF                           |          | 01/29/2022 04:22 AM |                |
| 5352                         | gr-osmosdr                                   |            | Bug     | New      | Normal   | ImportError: generic_type: type "sink" referenced unknown base type "gr::hier_block2" |          | 12/11/2021 08:19 AM |                |
| 5298                         | gr-osmosdr                                   |            | Bug     | New      | Normal   | object has no attribute 'pyqwidget' on arch linux                                     |          | 11/09/2021 01:25 AM |                |



| #    | Project    | Category | Tracker | Status | Priority | Subject                                                                                                            | Assignee | Updated             | Related issues |
|------|------------|----------|---------|--------|----------|--------------------------------------------------------------------------------------------------------------------|----------|---------------------|----------------|
| 5218 | gr-osmosdr |          | Bug     | New    | Normal   | compilation fails: "no matching function for call to fcd_source_c::connect"                                        |          | 09/05/2021 10:58 PM |                |
| 5144 | gr-osmosdr |          | Bug     | New    | High     | Support multiple Airspy devices                                                                                    | horiz0n  | 10/21/2023 07:22 PM |                |
| 5008 | gr-osmosdr |          | Bug     | New    | Normal   | Quoted whitespace parsing problem in source_impl::source_impl                                                      |          | 02/04/2021 02:16 AM |                |
| 4950 | gr-osmosdr |          | Bug     | New    | Normal   | gr-osmosdr doesn't find iqbalance during build                                                                     |          | 02/22/2021 02:46 AM |                |
| 4942 | gr-osmosdr |          | Bug     | New    | Normal   | XTRX: Unable to compile due to error                                                                               | RFNOD    | 01/12/2021 08:29 PM |                |
| 4484 | gr-osmosdr |          | Bug     | New    | Normal   | CMakeFiles.txt                                                                                                     |          | 04/06/2020 05:19 PM |                |
| 4359 | gr-osmosdr |          | Bug     | New    | Normal   | Compiling from Git Bramcjr gr3.8 fails                                                                             |          | 01/12/2020 05:08 PM |                |
| 4325 | gr-osmosdr |          | Bug     | New    | Normal   | can't open hackrf_sink with device index                                                                           |          | 12/13/2019 09:18 AM |                |
| 4098 | gr-osmosdr |          | Bug     | New    | Normal   | [BladeRF micro] Arguments set in osmocomb Sink and Source are not passed to libbladerf                             | horiz0n  | 07/18/2019 05:35 AM |                |
| 3882 | gr-osmosdr |          | Bug     | New    | Normal   | Cannot compile gr-osmosdr!                                                                                         | horiz0n  | 07/18/2019 05:35 AM |                |
| 3855 | gr-osmosdr |          | Bug     | New    | Normal   | Cannot build gr-osmosdr with Gnuradio 3.8                                                                          | horiz0n  | 07/13/2020 10:05 PM |                |
| 3819 | gr-osmosdr |          | Support | New    | Urgent   | OSMO SDR blocks for GNUradio                                                                                       |          | 02/28/2019 06:00 PM |                |
| 3802 | gr-osmosdr |          | Feature | New    | Normal   | New release                                                                                                        | horiz0n  | 02/15/2019 07:22 AM |                |
| 3734 | gr-osmosdr |          | Bug     | New    | High     | Cannot compile gr-osmocomb                                                                                         |          | 12/16/2018 12:22 AM |                |
| 3663 | gr-osmosdr |          | Bug     | New    | Normal   | Can't compile gr-osmosdr on macOS Mojave                                                                           |          | 10/19/2018 02:37 PM |                |
| 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 |                |
| 3593 | gr-osmosdr |          | Bug     | New    | Low      | rtl: 'len' argument ignored in librtlsdr callback                                                                  | horiz0n  | 07/18/2019 05:35 AM |                |
| 3592 | gr-osmosdr |          | Bug     | New    | Normal   | rtl: Race Conditions                                                                                               | horiz0n  | 07/18/2019 05:35 AM |                |
| 3512 | gr-osmosdr |          | Support | New    | Normal   | Bug #3462 on Arch Linux; gr-osmosdr install fails                                                                  | horiz0n  | 01/26/2019 06:10 PM |                |
| 3462 | gr-osmosdr |          | Bug     | New    | Normal   | gr-osmosdr installation bladerf conversion errors                                                                  | horiz0n  | 07/18/2019 05:35 AM |                |
| 3414 | gr-osmosdr |          | Feature | New    | Normal   | Include Airspy serial number in connection string.                                                                 | horiz0n  | 07/24/2018 04:52 AM |                |
| 3240 | gr-osmosdr |          | Bug     | New    | Normal   | Expose airspy gain setting in gr-osmosdr block                                                                     |          | 06/03/2018 12:08 PM |                |
| 2824 | gr-osmosdr |          | Bug     | New    | High     | Corrupted double-linked for Raspbian Stretch when running osmocomb_fft (and any other program using osmosdr.source |          | 06/03/2018 12:08 PM |                |
| 2216 | gr-osmosdr |          | Bug     | New    | Normal   | uhd: LO offset doesn't seem to work properly                                                                       |          | 06/03/2018 12:08 PM |                |

### GSM Audio Pocket Knife (2)

|      |                        |  |     |     |     |                                                           |         |                     |  |
|------|------------------------|--|-----|-----|-----|-----------------------------------------------------------|---------|---------------------|--|
| 3398 | GSM Audio Pocket Knife |  | Bug | New | Low | build: configure fails if (optional) libalsa wasn't found | fixeria | 12/01/2019 10:08 AM |  |
|------|------------------------|--|-----|-----|-----|-----------------------------------------------------------|---------|---------------------|--|

| #                                 | Project                | Category      | Tracker | Status   | Priority | Subject                                                                                    | Assignee | Updated             | Related issues                                 |
|-----------------------------------|------------------------|---------------|---------|----------|----------|--------------------------------------------------------------------------------------------|----------|---------------------|------------------------------------------------|
| 2514                              | GSM Audio Pocket Knife |               | Bug     | Stalled  | Normal   | GSM HR encoding result does not match the reference                                        | fixeria  | 04/03/2019 08:37 AM |                                                |
| <b>IMSI Pseudonymization (15)</b> |                        |               |         |          |          |                                                                                            |          |                     |                                                |
| 4404                              | IMSI Pseudonymization  |               | Feature | Stalled  | Normal   | Research: Make sure that we can silently detach the IMSI                                   |          | 04/15/2020 10:06 AM | Related to #4404,Related to #4480              |
| 4486                              | IMSI Pseudonymization  | Applet        | Feature | New      | Normal   | Applet: gracefully handle case where timer is set twice                                    |          | 04/16/2020 08:45 AM |                                                |
| 4481                              | IMSI Pseudonymization  | Applet        | Feature | New      | Low      | Applet: test various REFRESH qualifiers to possibly shorten the time for changing the IMSI |          | 04/16/2020 08:45 AM |                                                |
| 4480                              | IMSI Pseudonymization  | Applet        | Bug     | New      | Normal   | Applet/OsmoMSC: fix or workaround for OsmoMSC only paging attached MS                      |          | 04/16/2020 08:45 AM | Related to #4480                               |
| 4479                              | IMSI Pseudonymization  | Applet        | Feature | New      | Normal   | Applet: change IMSI after receiving SMS                                                    |          | 04/16/2020 08:45 AM |                                                |
| 4478                              | IMSI Pseudonymization  | Applet        | Feature | New      | Normal   | Applet: proper warning after too many LU with same IMSI                                    |          | 04/16/2020 08:45 AM | Related to #4478                               |
| 4417                              | IMSI Pseudonymization  | Applet        | Bug     | New      | Normal   | Applet: LU counter should only increase on successful location update                      |          | 04/16/2020 08:45 AM | Related to #4478                               |
| 4477                              | IMSI Pseudonymization  | OsmoHLR       | Feature | New      | Normal   | OsmoHLR: send next pseudo IMSI via SMS                                                     |          | 04/16/2020 08:45 AM | Blocks #4477,Blocks #4477                      |
| 4476                              | IMSI Pseudonymization  | OsmoHLR       | Feature | Stalled  | Normal   | OsmoHLR: support IMSI pseudo in location update                                            | neels    | 05/27/2020 01:11 PM | Blocks #4477                                   |
| 4403                              | IMSI Pseudonymization  | OsmoHLR       | Feature | Feedback | Normal   | OsmoHLR: How to interface with SMS service?                                                |          | 04/16/2020 08:45 AM | Blocks #4477                                   |
| 4495                              | IMSI Pseudonymization  | Specification | Feature | New      | Normal   | Specification: More references                                                             | neels    | 05/27/2020 01:11 PM |                                                |
| 4494                              | IMSI Pseudonymization  | Specification | Feature | New      | Normal   | Specification: Add bibliography                                                            | neels    | 05/27/2020 01:11 PM |                                                |
| 4493                              | IMSI Pseudonymization  | Specification | Feature | New      | Normal   | Specification: Cover 2G, 3G and 4G separately                                              | neels    | 05/27/2020 01:11 PM |                                                |
| 4490                              | IMSI Pseudonymization  | Specification | 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  | Specification | Feature | New      | Normal   | Specification: mark mandatory parts / implementation details as such                       |          | 04/16/2020 08:44 AM |                                                |
| <b>libosmo-abis (10)</b>          |                        |               |         |          |          |                                                                                            |          |                     |                                                |
| 5896                              | libosmo-abis           |               | Bug     | Feedback | Normal   | libosmo-abis built without --enable-e1d in deb and rpm packages                            | laforge  | 02/07/2023 11:40 AM | Blocks #5896                                   |
| 5766                              | libosmo-abis           |               | Feature | New      | Low      | use Linux kernel KCM for IPA header?                                                       |          | 11/13/2022 08:15 AM | Related to #5766                               |
| 5756                              | libosmo-abis           |               | Bug     | New      | Normal   | io_uring support in libosmo-abis                                                           |          | 03/20/2024 03:58 PM | Related to #5756,Related to #6357,Blocks #5896 |
| 5691                              | libosmo-abis           |               | Feature | Stalled  | Normal   | Expose DAHDI statistics to prometheus                                                      | laforge  | 01/05/2023 06:06 PM |                                                |

| #                                          | Project                        | Category | Tracker | Status      | Priority | Subject                                                                                      | Assignee | Updated             | Related issues                    |
|--------------------------------------------|--------------------------------|----------|---------|-------------|----------|----------------------------------------------------------------------------------------------|----------|---------------------|-----------------------------------|
| 5356                                       | libosmo-abis                   |          | Bug     | New         | Normal   | libosmo-abis: osmo_rtp_socket_connect() not calling connect() on sockets                     |          | 12/13/2021 12:50 PM |                                   |
| 4860                                       | libosmo-abis                   |          | Feature | New         | Low      | Implement separation of line/TEI/datalinks in E1 pcap                                        |          | 11/04/2021 06:31 PM |                                   |
| 4464                                       | libosmo-abis                   |          | Bug     | In Progress | Normal   | "osmo_rtp_socket_poll(): ERROR!" messages during normal osmo-bts usage                       | laforge  | 02/06/2021 02:27 PM | Related to #4467                  |
| 3622                                       | libosmo-abis                   |          | Bug     | New         | Normal   | Clear API mess in sign_link_up callback                                                      | pespin   | 10/02/2018 07:34 PM |                                   |
| 2717                                       | libosmo-abis                   |          | Bug     | New         | Low      | libosmo-abis doesn't use ipa_ccm_make_id_resp()                                              |          | 12/06/2017 05:47 PM |                                   |
| 2571                                       | libosmo-abis                   |          | Bug     | New         | Low      | libosmo-abis API documentation missing (doxygen)                                             | osmith   | 02/06/2021 02:27 PM |                                   |
| <b>libosmo-netif (6)</b>                   |                                |          |         |             |          |                                                                                              |          |                     |                                   |
| 5931                                       | libosmo-netif                  |          | Bug     | New         | High     | heap-use-after-free when osmo_stream_srv_destroy() is called inside read_cb()                | daniel   | 03/02/2023 11:03 AM |                                   |
| 5368                                       | libosmo-netif                  |          | Bug     | Feedback    | Low      | consider using SCTP_EVENT instead of SCTP_EVENTS                                             |          | 12/23/2021 09:09 AM | Related to #5368,Related to #5368 |
| 3812                                       | libosmo-netif                  |          | Bug     | Stalled     | Normal   | stream_test fails depending on where it is run                                               |          | 03/13/2019 04:15 PM |                                   |
| 3006                                       | libosmo-netif                  |          | Bug     | New         | Low      | Osmux: improvements on lost/dropped RTP packets                                              |          | 09/30/2018 08:34 AM |                                   |
| 2440                                       | libosmo-netif                  |          | Bug     | New         | Normal   | Osmux: Improve lost packet recreation mechanism                                              |          | 12/01/2019 10:11 AM | Blocks #2439                      |
| 2439                                       | libosmo-netif                  |          | Bug     | New         | Normal   | Osmux: overwrite duplicated RTP packets instead of dropping them                             |          | 12/01/2019 10:11 AM | Blocks #2439                      |
| <b>libosmo-pfcp (1)</b>                    |                                |          |         |             |          |                                                                                              |          |                     |                                   |
| 5648                                       | libosmo-pfcp                   |          | Feature | New         | Normal   | implement common PFCP CPF client VTY config                                                  |          | 08/17/2022 03:29 PM | Related to #5648                  |
| <b>libosmo-ranap (1)</b>                   |                                |          |         |             |          |                                                                                              |          |                     |                                   |
| 3420                                       | libosmo-ranap                  |          | Bug     | Stalled     | Normal   | ranap_transp_assoc_decode() decodes X.213 NSAP address headers as IP address                 | osmith   | 07/17/2021 10:14 AM |                                   |
| <b>libosmo-sccp + libosmo-sigtran (25)</b> |                                |          |         |             |          |                                                                                              |          |                     |                                   |
| 6356                                       | libosmo-sccp + libosmo-sigtran |          | Bug     | New         | Normal   | DLGLOBAL ERROR Trying to dispatch event 17 to non-existent FSM instance! (osmo_ss7_as.c:118) | pespin   | 02/08/2024 10:27 PM |                                   |
| 6241                                       | libosmo-sccp + libosmo-sigtran |          | Feature | New         | Low      | M3UA "Network Appearance" support                                                            |          | 10/31/2023 03:00 PM | Related to #6241                  |
| 6240                                       | libosmo-sccp + libosmo-sigtran |          | Bug     | Feedback    | Normal   | libosmo-sigtran doesn't reject M3UA with "M3UA Network Appearance"                           | daniel   | 10/31/2023 02:56 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 |                                   |
| 5917                                       | libosmo-sccp + libosmo-sigtran |          | Feature | Feedback    | Normal   | immediately detect SCTP SHUTDOWN in SCCP link / in SCCP user / in active SCCP connections    | neels    | 03/20/2023 10:23 AM |                                   |

| #    | Project                           | Category | Tracker | Status      | Priority | Subject                                                                                                                                  | Assignee  | Updated             | Related issues                                                  |
|------|-----------------------------------|----------|---------|-------------|----------|------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------------------|-----------------------------------------------------------------|
| 5899 | libosmo-sccp +<br>libosmo-sigtran |          | Bug     | New         | Low      | ttn3-sccp-test-latest is actually running code from master, not latest                                                                   | osmith    | 03/20/2023 01:18 PM |                                                                 |
| 5679 | libosmo-sccp +<br>libosmo-sigtran |          | Feature | In Progress | Normal   | unsupported SCCP user primitive N-PCSTATE.indication                                                                                     | neels     | 02/18/2023 01:46 AM |                                                                 |
| 5561 | libosmo-sccp +<br>libosmo-sigtran |          | Bug     | New         | Low      | pc=0=0.0.0 / RCOC-ERROR.ind not permitted                                                                                                |           | 05/23/2023 06:20 AM |                                                                 |
| 4925 | libosmo-sccp +<br>libosmo-sigtran |          | Bug     | New         | Normal   | SCTP multihoming / ABORT between osmo-msc and osmo-stp                                                                                   |           | 01/04/2021 11:32 AM | Related to #4926                                                |
| 4635 | libosmo-sccp +<br>libosmo-sigtran |          | Feature | New         | Normal   | quirks when initializing SS7 ASP                                                                                                         |           | 06/25/2020 04:46 PM | Related to #4635                                                |
| 4608 | libosmo-sccp +<br>libosmo-sigtran |          | Feature | New         | Low      | "action" commands to interactively shutdown/re-enable/restart sigtran connections                                                        | laforge   | 06/10/2020 01:12 PM |                                                                 |
| 4457 | libosmo-sccp +<br>libosmo-sigtran |          | Bug     | New         | Normal   | editing the SCCP address book (global-title) on a running instance may crash the application                                             |           | 03/17/2020 11:17 PM |                                                                 |
| 4356 | libosmo-sccp +<br>libosmo-sigtran |          | Feature | New         | Low      | execute sccp_demo_user server+client against each other in some test suite                                                               | pespin    | 01/10/2020 12:23 PM | Related to #4356                                                |
| 4072 | libosmo-sccp +<br>libosmo-sigtran |          | Bug     | New         | Normal   | Implement IPA PING/PONG mechanism in libosmo-sigtran +                                                                                   | Hoernchen | 06/21/2019 02:51 PM | Related to #4072                                                |
| 3871 | libosmo-sccp +<br>libosmo-sigtran |          | Bug     | Feedback    | Low      | osmo_scu_prim conn_id should be scoped per-user and direction, and should not correlate with the local-reference spoken on the SCCP wire | laforge   | 04/02/2023 09:01 AM | Related to #3871,Related to #3871,Related to #5579,Blocks #3872 |
| 2601 | libosmo-sccp +<br>libosmo-sigtran |          | Feature | New         | Low      | osmo-msc still needs libosmo-sccp-dev for SCCP CAUSE definitions                                                                         | laforge   | 02/13/2021 06:07 PM |                                                                 |
| 2259 | libosmo-sccp +<br>libosmo-sigtran |          | Bug     | New         | Normal   | problem with local reference                                                                                                             | laforge   | 07/19/2017 04:25 PM |                                                                 |
| 2013 | libosmo-sccp +<br>libosmo-sigtran |          | Bug     | New         | Low      | OAP (Osmo Auth Protocol) missing from IPA support in libosmo-sigtran                                                                     | neels     | 09/16/2018 10:35 AM | Related to #1843,Related to #2013,Related to #2554              |
| 2009 | libosmo-sccp +<br>libosmo-sigtran |          | Feature | New         | Low      | Implement SCCP connection coupling ("proxy")                                                                                             |           | 04/10/2017 12:09 PM |                                                                 |
| 2008 | libosmo-sccp +<br>libosmo-sigtran |          | Feature | New         | Low      | Implement Global Title Translation                                                                                                       |           | 04/10/2017 12:05 PM |                                                                 |
| 2007 | libosmo-sccp +<br>libosmo-sigtran |          | Feature | New         | Low      | Implement GT based routing                                                                                                               |           | 04/10/2017 12:04 PM |                                                                 |
| 2006 | libosmo-sccp +<br>libosmo-sigtran |          | Feature | New         | Low      | Implement M2PA support                                                                                                                   |           | 02/10/2024 01:17 PM | Related to #3603                                                |
| 2003 | libosmo-sccp +<br>libosmo-sigtran |          | Feature | New         | Low      | Implement M2UA support                                                                                                                   |           | 04/10/2017 12:01 PM |                                                                 |

| #                       | Project                           | Category | Tracker | Status      | Priority | Subject                                                                                          | Assignee  | Updated             | Related issues        |
|-------------------------|-----------------------------------|----------|---------|-------------|----------|--------------------------------------------------------------------------------------------------|-----------|---------------------|-----------------------|
| 2000                    | libosmo-sccp +<br>libosmo-sigtran |          | Feature | New         | Low      | use m3ua-testtool for the ASP-side verification                                                  |           | 07/18/2019 05:42 AM |                       |
| 1688                    | libosmo-sccp +<br>libosmo-sigtran |          | Feature | New         | Low      | SUA: support N-STATE indication primitives for connect and disconnect events                     |           | 04/08/2018 07:59 AM |                       |
| <b>libosmocore (74)</b> |                                   |          |         |             |          |                                                                                                  |           |                     |                       |
| 6440                    | libosmocore                       |          | Bug     | Feedback    | Normal   | VTY: 'write file' breaks 'show startup-config'                                                   |           | 04/26/2024 04:23 AM |                       |
| 6438                    | libosmocore                       |          | Bug     | New         | Normal   | write_config_file() calls blocking sync()                                                        |           | 04/26/2024 09:15 AM |                       |
| 6437                    | libosmocore                       |          | Bug     | Feedback    | Normal   | osmo_io_ops segmentation_cb missing parameter holding state                                      | pespin    | 04/19/2024 10:17 AM |                       |
| 6402                    | libosmocore                       |          | Feature | New         | Low      | consider using IORING_RECVSEND_POLL_FIRST for our socket-reads                                   |           | 03/14/2024 08:21 AM |                       |
| 6401                    | libosmocore                       |          | Feature | New         | Low      | benchmark batching io_uring operations                                                           |           | 03/14/2024 08:10 AM |                       |
| 6388                    | libosmocore                       |          | Feature | New         | Normal   | stats_reporter via osmo_io / io_uring?                                                           |           | 03/02/2024 04:54 PM | Related to #6388      |
| 6374                    | libosmocore                       |          | Bug     | New         | Normal   | libosmocore --disable-libsctp not tested by jenkins                                              |           | 02/23/2024 03:47 PM |                       |
| 6263                    | libosmocore                       |          | Bug     | In Progress | Low      | impossible to detect wrong callbacks being registered / osmo_io_ops union                        | daniel    | 11/21/2023 09:21 AM |                       |
| 6233                    | libosmocore                       |          | Bug     | Feedback    | Normal   | --enable-embedded build fails if pkg-config can't find some of the (disabled) dependencies       | Hoernchen | 11/24/2023 04:15 PM |                       |
| 6232                    | libosmocore                       |          | Bug     | New         | Normal   | jenkins should give all libosmocore config options a try                                         | osmith    | 10/22/2023 04:16 PM |                       |
| 6162                    | libosmocore                       |          | Bug     | Feedback    | Normal   | master build failure with clang-16                                                               | Hoernchen | 11/18/2023 09:17 AM |                       |
| 6021                    | libosmocore                       |          | Bug     | New         | Low      | map file breaks recent lld builds                                                                | Hoernchen | 05/04/2023 05:49 AM |                       |
| 5829                    | libosmocore                       |          | Feature | New         | Low      | log fallback for log_check_level(), log_parse_category()                                         |           | 12/13/2022 10:44 PM |                       |
| 5346                    | libosmocore                       |          | Bug     | New         | Low      | osmo-release.sh doesn't work with %{sover} macro in spec.in                                      | pespin    | 12/09/2021 12:03 PM |                       |
| 5180                    | libosmocore                       |          | Bug     | In Progress | Normal   | ns2: Document NS inspection/blocking commands                                                    | lynxis    | 06/15/2021 01:10 PM |                       |
| 5179                    | libosmocore                       |          | Bug     | New         | Normal   | gprs_ns2: use refcounting for the NSE                                                            | lynxis    | 06/13/2021 03:08 AM |                       |
| 4908                    | libosmocore                       |          | Bug     | New         | Normal   | Errors compiling with -std=c++14                                                                 |           | 03/01/2021 03:38 PM |                       |
| 4885                    | libosmocore                       |          | Bug     | New         | Normal   | configure doesn't check for python3                                                              |           | 12/02/2020 03:36 AM |                       |
| 4783                    | libosmocore                       |          | Bug     | New         | Low      | doxygen: duplicate 'ports.h' warning                                                             |           | 10/07/2020 01:29 PM |                       |
| 4727                    | libosmocore                       |          | Feature | Feedback    | Normal   | Add more distro/platform/archs to jenkins CI                                                     | laforge   | 05/15/2023 09:48 AM | Is duplicate of #4789 |
| 4265                    | libosmocore                       |          | Bug     | New         | Normal   | --enable-embedded doesn't work as expected                                                       |           | 11/12/2019 11:18 AM |                       |
| 4105                    | libosmocore                       |          | Feature | New         | Normal   | Support for LTE key derivation functions                                                         | laforge   | 07/13/2019 02:07 AM | Related to #4105      |
| 4104                    | libosmocore                       |          | Bug     | New         | Normal   | support for KASME generation                                                                     | laforge   | 07/12/2019 10:15 AM | Related to #4105      |
| 3693                    | libosmocore                       |          | Bug     | In Progress | Low      | gsm_04_08.h: numerous packed structs with sub-byte ints lack the order-swap shims for big endian |           | 11/19/2018 02:05 PM |                       |

| #    | Project    | Category      | Tracker | Status      | Priority | Subject                                                                                    | Assignee | Updated             | Related issues                         |
|------|------------|---------------|---------|-------------|----------|--------------------------------------------------------------------------------------------|----------|---------------------|----------------------------------------|
| 3521 | libosmcore |               | Feature | New         | Normal   | core/utlils: engineering notation helpers                                                  | fixeria  | 09/04/2018 08:32 PM |                                        |
| 3309 | libosmcore |               | Feature | New         | Normal   | osmo_timer_* should use monotonic clock                                                    |          | 05/31/2018 03:59 PM | Related to #3309                       |
| 2677 | libosmcore |               | Support | New         | Normal   | Make stat_item available over ctrl interface                                               |          | 09/04/2019 09:21 AM | Related to #2676                       |
| 2610 | libosmcore |               | Feature | New         | Low      | optimize GnuTLS fallback                                                                   |          | 05/01/2018 04:07 PM | Related to #2610,Related to #3909      |
| 2186 | libosmcore |               | Feature | New         | Low      | split libosmocrypto                                                                        |          | 10/05/2017 06:25 AM |                                        |
| 1987 | libosmcore |               | Feature | New         | Normal   | gcov code coverage test support                                                            |          | 12/01/2019 01:42 PM | Related to #1987,Is duplicate of #1987 |
| 1716 | libosmcore |               | Feature | New         | Normal   | enhance unit test coverage                                                                 |          | 08/17/2016 03:57 PM | Related to #1987,Precedes #1717        |
| 5570 | libosmcore | libosmocoding | Bug     | New         | Normal   | coding: decode in-band data in AMR's special DTX frames (SID_FIRST, SID_UPDATE, SID_ONSET) | fixeria  | 05/24/2022 08:34 AM | Related to #5570                       |
| 3522 | libosmcore | libosmocoding | Feature | New         | Low      | libosmocoding: move TCH ordering functions to libosmocodec and share them                  | fixeria  | 09/04/2018 08:49 PM |                                        |
| 6410 | libosmcore | libosmcore    | Bug     | New         | Normal   | osmo_io poll backend doesn't work on file descriptors that are not sockets                 |          | 03/19/2024 07:33 PM |                                        |
| 6393 | libosmcore | libosmcore    | Bug     | New         | Normal   | osmo_io conflating osmo_iofd_unregister vs osmo_iofd_close                                 | daniel   | 03/07/2024 09:47 AM |                                        |
| 6249 | libosmcore | libosmcore    | Bug     | In Progress | Low      | logging: ANSI color sequences should be reset after log message                            | manawrym | 12/04/2023 07:00 AM | Related to #6284                       |
| 5864 | libosmcore | libosmcore    | Bug     | New         | Normal   | Libosmcore: Fix order of config parsing output                                             |          | 02/04/2023 05:21 PM |                                        |
| 5818 | libosmcore | libosmcore    | Bug     | New         | Normal   | multithreaded logging causes lock contention and needs a rework                            |          | 01/10/2024 09:05 AM |                                        |
| 5034 | libosmcore | libosmcore    | Feature | Stalled     | Low      | logging: Enable category name instead of hex val by default                                | pespin   | 06/12/2021 05:40 PM | Related to #6272                       |
| 4700 | libosmcore | libosmcore    | Bug     | Feedback    | Normal   | 'socket' C test fails when there is no IPv6                                                | neels    | 03/24/2021 12:33 PM |                                        |
| 4591 | libosmcore | libosmcore    | Feature | New         | Normal   | Export FSM states and statistics with counters                                             |          | 03/24/2021 12:34 PM |                                        |
| 4590 | libosmcore | libosmcore    | Feature | New         | Normal   | Export talloc data as counters for better memory leakage monitoring in production          |          | 09/12/2022 03:53 PM |                                        |
| 4149 | libosmcore | libosmcore    | Bug     | New         | Normal   | osmo_fsm allows event names to have spaces in them                                         | laforge  | 01/25/2022 09:53 AM |                                        |
| 3987 | libosmcore | libosmcore    | Feature | New         | Low      | introduce libosmcore_init() to replace individual initialization calls                     |          | 05/08/2019 03:03 PM | Related to #3987                       |
| 3983 | libosmcore | libosmcore    | Bug     | New         | Normal   | osmo_fsm_inst_change_parent() forgets to talloc reparent                                   |          | 03/24/2021 12:35 PM |                                        |
| 3909 | libosmcore | libosmcore    | Bug     | New         | Normal   | osmo_get_rand_id() fails in containerised environment                                      |          | 03/24/2021 12:34 PM | Related to #3909                       |
| 2712 | libosmcore | libosmcore    | Feature | New         | Low      | implement reproducible talloc context printout, i.e. without memory addresses              |          | 01/08/2020 10:21 PM | Related to #2781                       |

| #    | Project    | Category    | Tracker | Status      | Priority | Subject                                                                                                       | Assignee | Updated             | Related issues                    |
|------|------------|-------------|---------|-------------|----------|---------------------------------------------------------------------------------------------------------------|----------|---------------------|-----------------------------------|
| 2688 | libosmcore | libosmcore  | Bug     | New         | Normal   | CTRL iface: make rate_ctr request parser more strict                                                          |          | 03/24/2021 12:37 PM | Related to #4443                  |
| 1872 | libosmcore | libosmcore  | Feature | New         | Low      | high-performance remote logging                                                                               |          | 03/24/2021 12:36 PM |                                   |
| 6390 | libosmcore | libosmoctrl | Feature | New         | Low      | port CTRL over to osmo_io / io_uring                                                                          |          | 03/02/2024 06:45 PM | Related to #6390                  |
| 4443 | libosmcore | libosmoctrl | Bug     | New         | Normal   | CTRL interface blocks wildcard in rate_ctr                                                                    |          | 03/08/2020 01:06 PM | Related to #4443,Related to #4443 |
| 4053 | libosmcore | libosmoctrl | Feature | New         | Low      | CTRL: Add CTRL cmd introspection to print documentation                                                       |          | 01/08/2020 10:21 PM | Related to #4053,Related to #4443 |
| 5915 | libosmcore | libosmogb   | Bug     | New         | Low      | gprs: ns2: convert timers into osmo-timers                                                                    | jolly    | 12/17/2023 12:59 PM | Related to #5915                  |
| 5716 | libosmcore | libosmogb   | Bug     | New         | Normal   | Replace dynamic (DEAD) NSE if we receive an NS_RESET from a conflicting NSVC                                  | lynxis   | 10/17/2022 04:40 PM |                                   |
| 5507 | libosmcore | libosmogb   | Feature | New         | Normal   | Optimize reset time after SGSN is restarted                                                                   | lynxis   | 03/31/2022 12:33 PM |                                   |
| 5277 | libosmcore | libosmogb   | Bug     | New         | Normal   | ns2: Allow SNS-CONFIG PDUs from unknown endpoints during config procedure                                     | lynxis   | 10/22/2021 02:28 PM |                                   |
| 5229 | libosmcore | libosmogb   | Bug     | New         | Low      | SNS Size with max_nsvcs = 1 results in a valid config even 2 binds a configured                               | lynxis   | 09/05/2021 08:18 PM |                                   |
| 5208 | libosmcore | libosmogb   | Bug     | Feedback    | Normal   | ns2: add testcase for SNS Size with invalid tlv                                                               | lynxis   | 02/12/2023 08:37 PM |                                   |
| 5035 | libosmcore | libosmogb   | Bug     | New         | Low      | ns2: add a vty to drop a sns connection                                                                       |          | 03/29/2021 09:16 PM |                                   |
| 5016 | libosmcore | libosmogb   | Bug     | New         | Low      | ns2: what happens when a dynamic NSE is present, but the user tries to configure it via vty                   | lynxis   | 03/29/2021 09:17 PM |                                   |
| 5015 | libosmcore | libosmogb   | Bug     | New         | Low      | ns2: add consistency check for ns configuration as callback                                                   |          | 03/29/2021 09:17 PM |                                   |
| 4842 | libosmcore | libosmogb   | Bug     | In Progress | Normal   | gsm0408 test fails on several architectures                                                                   | neels    | 08/23/2022 04:38 PM |                                   |
| 4797 | libosmcore | libosmogb   | Bug     | Feedback    | Normal   | vty: the output of 'show ns' command is confusing                                                             | fixeria  | 10/23/2020 05:35 PM | Related to #4855,Related to #5085 |
| 4746 | libosmcore | libosmogb   | Bug     | New         | Normal   | gb: NS2: implement a NSE based logfilter                                                                      |          | 11/14/2020 08:42 AM |                                   |
| 3845 | libosmcore | libosmogb   | Feature | New         | Low      | Unified logging in Gb NS / BSSGP code                                                                         |          | 03/16/2019 02:33 PM |                                   |
| 6344 | libosmcore | libosmogsm  | Feature | New         | Normal   | New TS 24.008 Bearer Capability codec API                                                                     |          | 01/24/2024 11:19 PM | Related to #6344                  |
| 4993 | libosmcore | libosmogsm  | Bug     | New         | Low      | gsm_septets2octets: warning: use of NULL 'rdata' where non-null expected [CWE-690] [-Wanalyzer-null-argument] | fixeria  | 01/29/2021 08:49 PM |                                   |
| 4731 | libosmcore | libosmogsm  | Bug     | Stalled     | Normal   | LAPDm does not implement SAPI priorities between data link layers                                             | fixeria  | 08/28/2020 11:21 AM | Related to #4731,Related to #4731 |
| 4304 | libosmcore | libosmogsm  | Bug     | New         | Low      | missing unit tests for many gsm48_{encode,decode} functions                                                   |          | 12/04/2019 01:50 PM |                                   |
| 4103 | libosmcore | libosmogsm  | Feature | New         | Low      | TUAK support as per 3GPP TS 35.231                                                                            |          | 03/24/2021 12:33 PM |                                   |

| #    | Project     | Category   | Tracker | Status | Priority | Subject                                                                       | Assignee | Updated             | Related issues                                                      |
|------|-------------|------------|---------|--------|----------|-------------------------------------------------------------------------------|----------|---------------------|---------------------------------------------------------------------|
| 1762 | libosmocore | libosmogsm | Bug     | New    | Normal   | Review LAPD code for race conditions regarding state, particularly in RELEASE | laforge  | 03/24/2021 12:37 PM | Related to #1760,Related to #1761,Related to #1982,Related to #2694 |
| 6389 | libosmocore | libosmovty | Feature | New    | Low      | port VTY over to osmo_io / io_uring                                           |          | 03/02/2024 04:55 PM | Related to #6389                                                    |
| 6360 | libosmocore | libosmovty | Bug     | New    | Normal   | libosmovty fails to parse commands like "test (foo bar [(one two three)])"    |          | 02/14/2024 09:25 PM |                                                                     |
| 5029 | libosmocore | libosmovty | Bug     | New    | Normal   | vty: optional cases with multiple arguments is undefined behaviour            |          | 02/18/2021 05:44 PM |                                                                     |

### linmodem (10)

|      |          |  |         |     |        |                                                 |  |                     |  |
|------|----------|--|---------|-----|--------|-------------------------------------------------|--|---------------------|--|
| 5489 | linmodem |  | Feature | New | Low    | linmodem mISDN integration                      |  | 03/13/2022 09:35 PM |  |
| 2815 | linmodem |  | Feature | New | Normal | modern ptmx / pty handling (UNIX 98)            |  | 01/01/2018 02:48 PM |  |
| 2804 | linmodem |  | Feature | New | Low    | DAHDI interface                                 |  | 01/01/2018 12:27 PM |  |
| 2803 | linmodem |  | Bug     | New | Low    | return ERROR for unsupported AT commands        |  | 01/01/2018 12:19 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 |  |
| 2797 | linmodem |  | Bug     | New | Normal | X11 support is 16bit plane only                 |  | 05/07/2022 11:34 PM |  |

### Linux Kernel GTP-U (5)

|      |                    |  |         |             |        |                                                                               |        |                     |                                   |
|------|--------------------|--|---------|-------------|--------|-------------------------------------------------------------------------------|--------|---------------------|-----------------------------------|
| 6382 | Linux Kernel GTP-U |  | Bug     | Feedback    | Normal | "TC_pdp6_act_deact_gtpu_access" fails with kernel gtp-u                       |        | 03/05/2024 04:06 PM |                                   |
| 6212 | Linux Kernel GTP-U |  | Bug     | In Progress | Normal | GTP extension headers                                                         | pespin | 10/18/2023 03:03 PM | Related to #6223                  |
| 6103 | Linux Kernel GTP-U |  | Feature | Feedback    | Normal | move from 1:1 relationship of UDP socket and net-device to a N:M relationship | pablo  | 10/06/2023 10:49 AM | Related to #6106                  |
| 1952 | Linux Kernel GTP-U |  | Bug     | In Progress | High   | IPv6 support for inner (user) IP layer missing                                | pablo  | 03/05/2024 11:47 PM | Related to #6096,Related to #6123 |
| 1832 | Linux Kernel GTP-U |  | Feature | New         | Normal | OpenvSwitch GTP-u patch for 2.5                                               |        | 10/27/2016 08:56 AM |                                   |

### M.2 (NGFF) WWAN modem USB breakout board (1)

|      |                                          |  |         |     |        |                                                              |          |                     |  |
|------|------------------------------------------|--|---------|-----|--------|--------------------------------------------------------------|----------|---------------------|--|
| 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 |  |
|------|------------------------------------------|--|---------|-----|--------|--------------------------------------------------------------|----------|---------------------|--|

### Misc Hardware Projects (3)



| #                                                 | Project                               | Category                       | Tracker | Status  | Priority | Subject                                                                   | Assignee   | Updated             | Related issues                    |
|---------------------------------------------------|---------------------------------------|--------------------------------|---------|---------|----------|---------------------------------------------------------------------------|------------|---------------------|-----------------------------------|
| 5738                                              | Misc Hardware Projects                |                                | Bug     | New     | Normal   | Sim 800L module Connectivity                                              |            | 11/02/2022 06:55 PM |                                   |
| 5672                                              | Misc Hardware Projects                |                                | Bug     | New     | Normal   | sfp-experimenter / voltage swing of LVDS driver insufficient for SFP spec |            | 09/02/2022 03:27 PM |                                   |
| 3566                                              | Misc Hardware Projects                |                                | Feature | Stalled | Normal   | power supply / battery / charge for our GSM-R OPS 940                     | laforge    | 04/02/2023 09:05 AM |                                   |
| <b>Miscellaneous Projects (3)</b>                 |                                       |                                |         |         |          |                                                                           |            |                     |                                   |
| 6129                                              | Miscellaneous Projects                |                                | Bug     | New     | Normal   | Discourse: Setting a custom avatar via upload fails                       |            | 08/02/2023 06:07 PM |                                   |
| 3847                                              | Miscellaneous Projects                |                                | Feature | New     | Normal   | Osmocom logo with/for black background                                    | tsaitgaist | 12/10/2019 11:53 AM |                                   |
| 64                                                | Miscellaneous Projects                |                                | Bug     | New     | Normal   | osmo-bts-amp: 2.2uF capacitors next to PA need to be 0603, not 0805       | tnt        | 02/21/2016 04:48 PM |                                   |
| <b>Mobile (in)Security (7)</b>                    |                                       |                                |         |         |          |                                                                           |            |                     |                                   |
| 1481                                              | Mobile (in)Security                   | BTS (Base Transceiver Station) | Bug     | New     | High     | Random LAPDm MAC-block padding is not deployed yet                        |            | 02/21/2016 04:34 PM | Related to #5256,Related to #5257 |
| 1483                                              | Mobile (in)Security                   | MS (Mobile Station)            | Bug     | New     | High     | USSD state is not reset when switching cells                              |            | 02/21/2016 04:34 PM |                                   |
| 1482                                              | Mobile (in)Security                   | MS (Mobile Station)            | Bug     | New     | Normal   | Sending the TMSI of the old/previous network                              |            | 02/21/2016 04:35 PM |                                   |
| 1480                                              | Mobile (in)Security                   | MS (Mobile Station)            | Bug     | New     | High     | A5/3 is not deployed in GSM networks                                      |            | 02/21/2016 04:34 PM |                                   |
| 1479                                              | Mobile (in)Security                   | MS (Mobile Station)            | Bug     | New     | Normal   | MTK stack unable to send MO-SMS on TCH/F                                  |            | 04/03/2019 09:01 AM |                                   |
| 1478                                              | Mobile (in)Security                   | Um (MS-BTS) interface          | Bug     | New     | High     | IMSI DETACH DoS                                                           |            | 09/02/2019 09:00 AM |                                   |
| 1477                                              | Mobile (in)Security                   | Um (MS-BTS) interface          | Bug     | New     | High     | RACH flood DoS                                                            |            | 02/21/2016 04:34 PM |                                   |
| <b>multi-voltage USB UART (1)</b>                 |                                       |                                |         |         |          |                                                                           |            |                     |                                   |
| 3038                                              | multi-voltage USB UART                |                                | Feature | New     | Normal   | Add mounting holes?                                                       |            | 03/07/2018 02:12 AM |                                   |
| <b>OCTOI - Osmocom Community TDM over IP (23)</b> |                                       |                                |         |         |          |                                                                           |            |                     |                                   |
| 6282                                              | OCTOI - Osmocom Community TDM over IP |                                | Bug     | New     | Normal   | high BERT from laforge->divf->manawyrms                                   | manawyrms  | 12/03/2023 04:03 PM | Related to #6282                  |
| 6281                                              | OCTOI - Osmocom Community TDM over IP |                                | Bug     | New     | Normal   | divf yate: calls to wave playback or loopback never connect               |            | 12/04/2023 12:14 PM | Related to #6282                  |
| 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 |                                   |

| #    | Project                               | Category      | Tracker | Status  | Priority | Subject                                                                         | Assignee | Updated             | Related issues   |
|------|---------------------------------------|---------------|---------|---------|----------|---------------------------------------------------------------------------------|----------|---------------------|------------------|
| 5883 | OCTOI - Osmocom Community TDM over IP |               | Bug     | New     | Normal   | GPS sync sometimes goes to hold over                                            | tnt      | 01/30/2023 02:18 PM | Related to #5885 |
| 5694 | OCTOI - Osmocom Community TDM over IP |               | Bug     | Stalled | Normal   | BERT testing                                                                    | laforge  | 12/31/2022 08:24 PM |                  |
| 5546 | OCTOI - Osmocom Community TDM over IP |               | Feature | New     | Normal   | build frame relay "hub" similar to ISDN "hub"                                   |          | 04/24/2022 03:03 PM |                  |
| 5544 | OCTOI - Osmocom Community TDM over IP |               | Bug     | New     | Normal   | Strange HDLC frames in PPP when using mISDN/pppd/capiplugin against Portmaster3 |          | 04/23/2022 01:50 PM |                  |
| 5885 | OCTOI - Osmocom Community TDM over IP | hardware      | Feature | New     | Low      | set up a second GPS03 + icE1usb setup                                           | laforge  | 01/31/2023 08:05 PM | Related to #5885 |
| 5526 | OCTOI - Osmocom Community TDM over IP | osmo-e1d      | Feature | New     | Low      | ability to generate GSMTAP traces from osmo-e1d                                 |          | 07/29/2023 07:23 AM |                  |
| 5435 | OCTOI - Osmocom Community TDM over IP | osmo-e1d      | Feature | New     | Low      | use DNS to resolve the server                                                   |          | 04/05/2022 08:20 PM |                  |
| 5434 | OCTOI - Osmocom Community TDM over IP | osmo-e1d      | Feature | Stalled | Normal   | more statistics / counters                                                      |          | 12/03/2023 11:17 AM |                  |
| 5443 | OCTOI - Osmocom Community TDM over IP | protocol-spec | 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 | protocol-spec | 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 | protocol-spec | Feature | New     | Low      | brainstorm about making protocol even more efficient                            | laforge  | 01/30/2022 01:45 PM |                  |
| 5436 | OCTOI - Osmocom Community TDM over IP | protocol-spec | Feature | New     | Low      | BRI variant of OCTOI protocol                                                   | laforge  | 01/30/2023 06:49 PM | Related to #5436 |
| 5433 | OCTOI - Osmocom Community TDM over IP | protocol-spec | Bug     | New     | Normal   | forwarding of TS0 / Alarms                                                      |          | 01/30/2022 11:02 AM |                  |
| 5429 | OCTOI - Osmocom Community TDM over IP | protocol-spec | Feature | New     | Normal   | authentication in TDMoIP protocol                                               | laforge  | 11/07/2022 05:29 PM |                  |
| 5427 | OCTOI - Osmocom Community TDM over IP | protocol-spec | Feature | New     | Low      | STUN/TURN/ICE for peer-to-peer connections                                      |          | 01/30/2022 10:43 AM |                  |
| 5693 | OCTOI - Osmocom Community TDM over IP | services      | Bug     | Stalled | Normal   | no progress tones in yate                                                       |          | 12/03/2023 11:10 AM |                  |
| 5519 | OCTOI - Osmocom Community TDM over IP | services      | Feature | New     | Low      | reimplement overlapped.php based on yate python module                          |          | 12/03/2023 10:47 AM |                  |
| 6274 | OCTOI - Osmocom Community TDM over IP | tdm-core      | Bug     | New     | Low      | yate is eating 260% CPU while doing nothing                                     | laforge  | 11/25/2023 02:31 PM |                  |
| 5417 | OCTOI - Osmocom Community TDM over IP | tdm-core      | Feature | Stalled | Low      | S/T (S0) ISDN BRI adapter with VCXO / GPS-DO                                    | laforge  | 05/16/2023 08:06 AM | Related to #5436 |

OP25 (23)

| #    | Project | Category | Tracker | Status | Priority | Subject                                                             | Assignee | Updated             | Related issues |
|------|---------|----------|---------|--------|----------|---------------------------------------------------------------------|----------|---------------------|----------------|
| 6323 | OP25    |          | Bug     | New    | Normal   | Install script is broken on Ubuntu 23.10                            |          | 01/05/2024 07:54 PM |                |
| 6192 | OP25    |          | Bug     | New    | Normal   | Unable to host behind NGINX reverse proxy                           | max      | 09/27/2023 01:56 AM |                |
| 4593 | OP25    |          | Support | New    | Normal   | Link to samples on the wiki is dead                                 | matt     | 06/07/2020 06:53 PM |                |
| 4455 | OP25    |          | Feature | New    | Normal   | AMBE CODEC                                                          |          | 03/28/2020 09:53 PM |                |
| 4225 | OP25    |          | Support | New    | Normal   | Missing rules in cmake lists?                                       | 2CS350   | 10/12/2019 02:49 PM |                |
| 4130 | OP25    |          | Bug     | New    | Normal   | OP25 User Interface                                                 |          | 07/26/2019 02:36 AM |                |
| 3776 | OP25    |          | Bug     | New    | Normal   | Build fail using gcc version 7.3.0 Ubuntu 18.04.1 LTS               |          | 07/05/2019 07:12 PM |                |
| 3531 | OP25    |          | Bug     | New    | Normal   | Unknown status of the p25 wireshark plugin                          |          | 10/06/2022 05:52 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 |                |
| 2172 | OP25    |          | Bug     | New    | High     | HDU often missing in captures                                       |          | 04/22/2017 04:14 PM |                |
| 2171 | OP25    |          | Feature | New    | High     | Use libfftw3 for IFFT/FFT functions.                                |          | 04/22/2017 04:14 PM |                |
| 2170 | OP25    |          | Bug     | New    | High     | Implement forward error-correction code, remove IT++ dependency     |          | 04/22/2017 04:14 PM |                |
| 2169 | OP25    |          | Bug     | New    | High     | First-cut of trunking support                                       |          | 04/22/2017 04:15 PM |                |
| 2168 | OP25    |          | Bug     | New    | High     | Implement Forward error correction for LDU1/2                       |          | 04/22/2017 04:15 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 |                |
| 2162 | OP25    |          | Bug     | New    | High     | Fix bit-ordering in output for VC55.                                |          | 04/22/2017 04:15 PM |                |
| 2160 | OP25    |          | Feature | New    | High     | Add "datascope" to usrp_p25_rx.py                                   |          | 04/22/2017 04:16 PM |                |
| 2158 | OP25    |          | Feature | New    | High     | Create a shared library for decoding for WireShark and the decoder. |          | 04/22/2017 04:16 PM |                |
| 2157 | OP25    |          | Feature | New    | High     | Fix "traffic" tab so it displays data for non-HDU data units        |          | 04/22/2017 04:16 PM |                |
| 2156 | OP25    |          | Feature | New    | High     | Implement forward error correction for HDU.                         |          | 04/22/2017 04:16 PM |                |
| 2155 | OP25    |          | Feature | New    | High     | Replace FSK4 demodulation with IQ demodulator stage.                |          | 04/22/2017 04:16 PM |                |

### Open Source IMS Client (5)

|      |                        |  |         |             |        |                                                               |         |                     |                  |
|------|------------------------|--|---------|-------------|--------|---------------------------------------------------------------|---------|---------------------|------------------|
| 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 |
| 5480 | Open Source IMS Client |  | Feature | In Progress | High   | Linux kernel IPsec plugin for doubango                        | laforge | 03/25/2022 10:44 AM |                  |

| #                             | Project            | Category | Tracker | Status      | Priority | Subject                                                                                   | Assignee  | Updated             | Related issues   |
|-------------------------------|--------------------|----------|---------|-------------|----------|-------------------------------------------------------------------------------------------|-----------|---------------------|------------------|
| 6319                          | Osmo-CC            |          | Feature | New         | Normal   | protocol version should have a defined end marker                                         | neels     | 01/10/2024 01:31 PM |                  |
| <b>osmo-ccid-firmware (6)</b> |                    |          |         |             |          |                                                                                           |           |                     |                  |
| 5380                          | osmo-ccid-firmware |          | Bug     | New         | Normal   | Incorrect answer to PC_to_RDR_SetParameters CCID command                                  |           | 01/16/2022 08:55 PM |                  |
| 5310                          | osmo-ccid-firmware |          | Bug     | New         | Normal   | sysmoOCTSIM does not re-enumerate after unplug/replug the USB cable when PSU is connected |           | 11/15/2021 05:13 PM |                  |
| 4822                          | osmo-ccid-firmware |          | Bug     | Stalled     | Low      | sysmoOCTSIM with osmo-ccid-firmware sometimes fails to enumerate on USB                   |           | 11/05/2021 05:19 PM |                  |
| 4806                          | osmo-ccid-firmware |          | Feature | New         | Low      | Add support of T=1?                                                                       |           | 10/15/2020 03:40 PM |                  |
| 4777                          | osmo-ccid-firmware |          | Bug     | New         | Normal   | Reader does not answer to GET DATA RATES command                                          | Hoernchen | 10/14/2020 02:36 PM |                  |
| 4776                          | osmo-ccid-firmware |          | Bug     | New         | Normal   | Reader does not answer to GET CLOCK FREQUENCIES command                                   | Hoernchen | 10/03/2020 07:31 PM |                  |
| <b>osmo-clock-conv (2)</b>    |                    |          |         |             |          |                                                                                           |           |                     |                  |
| 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 |
| <b>osmo-clock-gen (5)</b>     |                    |          |         |             |          |                                                                                           |           |                     |                  |
| 5633                          | osmo-clock-gen     |          | Feature | New         | Normal   | towards a first osmo-clock-gen production batch                                           | laforge   | 07/26/2022 12:39 PM |                  |
| 4857                          | osmo-clock-gen     |          | Bug     | Stalled     | Normal   | FLV9001IDBVR no longer in stock ag digikey                                                | mschramm  | 04/10/2021 10:22 PM |                  |
| 4814                          | osmo-clock-gen     |          | Bug     | New         | Low      | alignment of DC barrel with face plate                                                    | mschramm  | 10/16/2020 05:30 PM | Related to #4814 |
| 4678                          | osmo-clock-gen     |          | Feature | New         | Low      | Increase mounting hole size to support M3 screws                                          | mschramm  | 07/25/2020 08:43 PM |                  |
| 4431                          | osmo-clock-gen     |          | Bug     | In Progress | Normal   | TC1 (TC2050) pin 4 should connect to VDD network, not VDD_3V3                             | laforge   | 07/20/2020 10:42 PM |                  |
| <b>osmo-e1d (10)</b>          |                    |          |         |             |          |                                                                                           |           |                     |                  |
| 5824                          | osmo-e1d           |          | Bug     | Feedback    | Normal   | Line dead message in the log after start                                                  | laforge   | 12/25/2023 01:43 PM |                  |
| 5735                          | osmo-e1d           |          | Bug     | New         | Normal   | ctl client disconnect doesn't re-set timeslot state                                       |           | 05/23/2023 06:19 AM |                  |
| 5386                          | osmo-e1d           |          | Bug     | New         | Low      | stop watchdog when LOS is present                                                         | laforge   | 01/05/2022 08:38 PM |                  |
| 4915                          | osmo-e1d           |          | Feature | New         | Low      | consider a one-thread-per-line architecture                                               |           | 07/29/2023 07:31 AM |                  |
| 4917                          | osmo-e1d           | icE1usb  | Feature | Stalled     | Normal   | reporting of alarms/errors known to the icE1usb                                           | laforge   | 04/10/2022 10:36 AM |                  |
| 4916                          | osmo-e1d           | icE1usb  | Bug     | Stalled     | High     | USB unplug / replug renders e1d unusable                                                  | laforge   | 12/04/2023 12:34 PM | Related to #5983 |
| 6169                          | osmo-e1d           | octoi    | Bug     | New         | High     | Frame masking against network frame ordering, not frame numbers                           | laforge   | 10/18/2023 03:19 PM |                  |
| 5521                          | osmo-e1d           | octoi    | Bug     | New         | Low      | don't attempt OCTOI connection of no TDM data from driver (icE1usb)                       |           | 04/10/2022 05:28 PM |                  |

| #                                                          | Project                                        | Category | Tracker | Status      | Priority | Subject                                                                                 | Assignee | Updated             | Related issues   |
|------------------------------------------------------------|------------------------------------------------|----------|---------|-------------|----------|-----------------------------------------------------------------------------------------|----------|---------------------|------------------|
| 5520                                                       | osmo-e1d                                       | octoi    | Feature | New         | Low      | exponential back-off on octoi client reconnect attempts                                 |          | 07/29/2023 07:30 AM |                  |
| 5499                                                       | osmo-e1d                                       | octoi    | Bug     | New         | Low      | octoi client binds to specific IP even if 0.0.0.0 is specified                          |          | 05/23/2023 07:10 AM |                  |
| <b>osmo-ePDG - VoWifi Evolved Packet Data Gateway (16)</b> |                                                |          |         |             |          |                                                                                         |          |                     |                  |
| 6435                                                       | osmo-ePDG - VoWifi Evolved Packet Data Gateway |          | Bug     | In Progress | Normal   | epdg: fix inter-UE traffic                                                              | lynxis   | 04/08/2024 06:55 PM |                  |
| 6408                                                       | osmo-ePDG - VoWifi Evolved Packet Data Gateway |          | Feature | New         | Normal   | osmo-epdg: Support check IMEI                                                           |          | 03/15/2024 06:45 PM |                  |
| 6407                                                       | osmo-ePDG - VoWifi Evolved Packet Data Gateway |          | Feature | New         | Normal   | osmo-epdg: Support Emergency services (no IMSI)                                         |          | 03/15/2024 06:43 PM |                  |
| 6396                                                       | osmo-ePDG - VoWifi Evolved Packet Data Gateway |          | Bug     | Feedback    | Normal   | add support for auth failure with resync                                                | lynxis   | 03/11/2024 10:19 AM |                  |
| 6370                                                       | osmo-ePDG - VoWifi Evolved Packet Data Gateway |          | Bug     | In Progress | Normal   | setup ims with kamailio                                                                 | lynxis   | 03/14/2024 09:01 PM |                  |
| 6366                                                       | osmo-ePDG - VoWifi Evolved Packet Data Gateway |          | Bug     | New         | Normal   | strongswan: test if gsup_client will resend old requests on reconnect                   | lynxis   | 02/18/2024 09:16 PM | Related to #6366 |
| 6365                                                       | osmo-ePDG - VoWifi Evolved Packet Data Gateway |          | Bug     | New         | Normal   | strongswan: get the PDP type out of the IKE_AUTH/CFG_REQUEST                            | lynxis   | 02/23/2024 03:29 AM |                  |
| 6364                                                       | osmo-ePDG - VoWifi Evolved Packet Data Gateway |          | Bug     | In Progress | Normal   | strongswan: gsup: remove single request limitation                                      | lynxis   | 02/20/2024 05:59 PM | Related to #6366 |
| 6363                                                       | osmo-ePDG - VoWifi Evolved Packet Data Gateway |          | Bug     | New         | Normal   | strongswan: Catch IKEv2 disconnects                                                     | lynxis   | 02/17/2024 01:21 AM |                  |
| 6361                                                       | osmo-ePDG - VoWifi Evolved Packet Data Gateway |          | Bug     | Feedback    | Normal   | open5gs-upfd: Fix open5gs package assigning 1st IP address of the UE pool to the ogstun | lynxis   | 04/22/2024 05:29 PM | Related to #6361 |
| 6354                                                       | osmo-ePDG - VoWifi Evolved Packet Data Gateway |          | Feature | New         | Low      | investigate UE behavior in terms of respecting ePDG configuration on USIM/ISIM          |          | 02/07/2024 04:10 PM |                  |
| 6345                                                       | osmo-ePDG - VoWifi Evolved Packet Data Gateway |          | Feature | New         | Low      | osmo-epdg: Implement SWm interface (Diameter) ePDG <> AAA                               |          | 01/25/2024 05:22 PM |                  |

| #                        | Project                                        | Category | Tracker | Status      | Priority | Subject                                                              | Assignee | Updated             | Related issues                                     |
|--------------------------|------------------------------------------------|----------|---------|-------------|----------|----------------------------------------------------------------------|----------|---------------------|----------------------------------------------------|
| 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                                   |
| 6091                     | osmo-ePDG - VoWifi Evolved Packet Data Gateway |          | Bug     | Feedback    | High     | osmo-epdg: Implement CEAI interface (GSUP) ePDG <> strongswan        | lynxis   | 03/14/2024 04:36 PM |                                                    |
| 6045                     | osmo-ePDG - VoWifi Evolved Packet Data Gateway |          | Bug     | Feedback    | Normal   | report erlang diameter problems to the diameter compiler repo.       | pespin   | 03/07/2024 04:16 PM |                                                    |
| 5861                     | osmo-ePDG - VoWifi Evolved Packet Data Gateway |          | Feature | In Progress | Urgent   | extend charon with external authentication interface                 | lynxis   | 02/07/2024 04:00 PM | Related to #5868                                   |
| <b>osmo-fl2k (3)</b>     |                                                |          |         |             |          |                                                                      |          |                     |                                                    |
| 5918                     | osmo-fl2k                                      |          | Bug     | New         | Normal   | -flto broken in release                                              | steve-m  | 12/20/2023 08:43 PM |                                                    |
| 4174                     | osmo-fl2k                                      |          | Bug     | New         | Normal   | After the latest commits, the fl2k tools do not exit on first SIGINT |          | 08/25/2019 04:57 PM |                                                    |
| 3210                     | osmo-fl2k                                      |          | Feature | New         | Low      | man pages                                                            | steve-m  | 04/24/2018 08:55 PM |                                                    |
| <b>osmo-gbproxy (9)</b>  |                                                |          |         |             |          |                                                                      |          |                     |                                                    |
| 4968                     | osmo-gbproxy                                   |          | Bug     | Feedback    | Normal   | Multiple TTCN3 tests only expect one SGSN                            | daniel   | 12/09/2021 09:17 PM | Related to #4968                                   |
| 4961                     | osmo-gbproxy                                   |          | Feature | New         | Normal   | gbproxy support for "network sharing" via MOCN                       |          | 01/20/2021 08:38 PM |                                                    |
| 4951                     | osmo-gbproxy                                   |          | Feature | In Progress | Normal   | more TTCN3 tests for SGSN pooling                                    | daniel   | 07/08/2021 08:36 PM | Related to #4951,Related to #4952                  |
| 4897                     | osmo-gbproxy                                   |          | Bug     | New         | Normal   | gbproxy2: Re-introduce handling of NS_AFF_CAUSE_FAILURE              | daniel   | 03/10/2021 02:49 PM | Related to #4897,Related to #4952,Related to #5040 |
| 4893                     | osmo-gbproxy                                   |          | Feature | New         | Low      | gbproxy2: Make feature bitmap configurable                           |          | 12/08/2020 07:55 AM | Related to #4893                                   |
| 4891                     | osmo-gbproxy                                   |          | Bug     | Stalled     | Normal   | gbproxy2: Implement processing of BVC-Flow-Control via BVC FSM       | daniel   | 10/25/2021 05:51 AM | Related to #4891                                   |
| 4522                     | osmo-gbproxy                                   |          | Feature | Stalled     | High     | gbproxy: Redundancy within proxy pair                                | daniel   | 07/09/2021 06:43 PM |                                                    |
| 4521                     | osmo-gbproxy                                   |          | Feature | New         | Normal   | gbproxy: Redundancy between NS-VCs (SGSN Side)                       | laforge  | 01/19/2021 05:24 PM | Related to #4959                                   |
| 4520                     | osmo-gbproxy                                   |          | Feature | In Progress | Normal   | gbproxy: Redundancy between NS-VCs (BSS Side)                        | lynxis   | 02/19/2021 04:50 PM | Related to #4520                                   |
| <b>osmo-lab-rack (4)</b> |                                                |          |         |             |          |                                                                      |          |                     |                                                    |
| 5745                     | osmo-lab-rack                                  |          | Feature | In Progress | Low      | component carrier Ethernet switch                                    | laforge  | 02/03/2023 11:29 AM |                                                    |
| 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 |                                                    |

| #                              | Project       | Category      | Tracker | Status   | Priority | Subject                                                                       | Assignee  | Updated             | Related issues                                 |
|--------------------------------|---------------|---------------|---------|----------|----------|-------------------------------------------------------------------------------|-----------|---------------------|------------------------------------------------|
| 5370                           | osmo-lab-rack |               | Feature | New      | Low      | component carrier USB hub                                                     |           | 12/23/2021 06:30 PM |                                                |
| <b>osmo-pcap (1)</b>           |               |               |         |          |          |                                                                               |           |                     |                                                |
| 4317                           | osmo-pcap     |               | Bug     | New      | Low      | external tests not enabled in jenkins.sh                                      |           | 12/10/2019 02:42 PM |                                                |
| <b>osmo-qcdiag (8)</b>         |               |               |         |          |          |                                                                               |           |                     |                                                |
| 4781                           | osmo-qcdiag   |               | Bug     | New      | High     | get hoernchen/gsmzap branch merged                                            | Hoernchen | 10/06/2020 03:18 PM |                                                |
| 2697                           | osmo-qcdiag   |               | Feature | New      | Normal   | Create and add debian packages for osmo-qcdiag to osmocom debian repositories |           | 11/30/2017 06:03 PM |                                                |
| 1908                           | osmo-qcdiag   |               | Feature | New      | Normal   | add VTY interface to osmo-qcdiag                                              | laforge   | 01/12/2017 01:15 PM |                                                |
| 1907                           | osmo-qcdiag   |               | Bug     | New      | Normal   | osmo-qcdiag detects CRC errors relatively often                               |           | 01/23/2017 01:47 AM |                                                |
| 1906                           | osmo-qcdiag   |               | Bug     | Feedback | Normal   | wireshark: fix decoding of (E)GPRS RLC/MAC frames                             | Hoernchen | 02/08/2021 08:07 PM |                                                |
| 1901                           | osmo-qcdiag   |               | Feature | New      | Normal   | osmo-qcdiag: Ability to read/write NV data                                    |           | 01/11/2017 12:15 PM |                                                |
| 1900                           | osmo-qcdiag   |               | Feature | New      | Normal   | osmo-qcdiag: Add FUSE based access for EFS                                    |           | 01/11/2017 12:15 PM |                                                |
| 1899                           | osmo-qcdiag   |               | Bug     | New      | Normal   | osmo-qcdiag: DIAG based pcap tracing (DPL) not working                        |           | 01/11/2017 12:15 PM |                                                |
| <b>osmo-remsim (12)</b>        |               |               |         |          |          |                                                                               |           |                     |                                                |
| 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                               |
| 3885                           | osmo-remsim   |               | Feature | New      | Normal   | remsim-server should expose status information                                | laforge   | 04/01/2019 07:23 PM | Precedes #3885                                 |
| 5891                           | osmo-remsim   | remsim-bankd  | Bug     | New      | Normal   | bankd: potential pthread deadlock reported by coverity                        | laforge   | 02/03/2023 07:35 PM |                                                |
| 3884                           | osmo-remsim   | remsim-bankd  | Feature | New      | Normal   | redesign bankd thread architecture                                            | laforge   | 05/08/2019 03:31 PM | Related to #5527,Precedes #3885,Precedes #3886 |
| 5628                           | osmo-remsim   | remsim-client | Bug     | New      | Low      | client-st2: error messages when mapping is removed                            |           | 07/24/2022 07:14 AM |                                                |
| 5614                           | osmo-remsim   | remsim-client | Feature | New      | Normal   | log also application-level errors                                             | laforge   | 07/11/2022 08:09 PM |                                                |
| 5321                           | osmo-remsim   | remsim-client | Feature | New      | Low      | support SAP of u-blox AT+USAPMODE                                             |           | 11/22/2021 10:37 AM |                                                |
| 5320                           | osmo-remsim   | remsim-client | Feature | New      | Low      | support SAP of Telit AT#RSEN                                                  |           | 11/22/2021 10:38 AM |                                                |
| 4409                           | osmo-remsim   | remsim-client | Bug     | Stalled  | Low      | osmo-remsim-client-st2 (or firmware?) gets stuck on PTS                       | Hoernchen | 02/06/2021 08:55 AM |                                                |
| 3887                           | osmo-remsim   | remsim-client | Feature | New      | Low      | remsim-client: allow for local handling of APDUs                              | laforge   | 12/03/2019 12:20 AM |                                                |
| 5527                           | osmo-remsim   | remsim-server | Bug     | Stalled  | High     | warn on duplicate client (id) connections                                     | laforge   | 07/13/2022 01:25 PM | Related to #5527                               |
| 3886                           | osmo-remsim   | remsim-server | Feature | New      | Normal   | expose ICCID or even IMSI of all cards on remsim-server                       | laforge   | 05/08/2019 03:31 PM | Precedes #3886                                 |
| <b>osmo-sip-connector (12)</b> |               |               |         |          |          |                                                                               |           |                     |                                                |

| #                      | Project            | Category | Tracker | Status      | Priority | Subject                                                                          | Assignee | Updated             | Related issues                                                                       |
|------------------------|--------------------|----------|---------|-------------|----------|----------------------------------------------------------------------------------|----------|---------------------|--------------------------------------------------------------------------------------|
| 5462                   | osmo-sip-connector |          | Bug     | New         | Normal   | Contact Header Missing - Way Forward?                                            |          | 02/21/2022 05:51 AM |                                                                                      |
| 5177                   | osmo-sip-connector |          | Bug     | New         | Normal   | respect dynamic RTP payload types of external SIP                                | neels    | 08/23/2022 04:26 PM | Related to #5177,Related to #5177                                                    |
| 4762                   | osmo-sip-connector |          | Feature | New         | Low      | Osmo Analog Support                                                              |          | 09/25/2020 07:31 AM | Related to #4763                                                                     |
| 4352                   | osmo-sip-connector |          | Bug     | New         | Normal   | Need to handle 401 Unauthorized                                                  |          | 01/09/2020 02:03 PM |                                                                                      |
| 4310                   | osmo-sip-connector |          | Bug     | New         | Normal   | sends BYE to self                                                                |          | 01/09/2020 09:21 AM |                                                                                      |
| 3763                   | osmo-sip-connector |          | Bug     | New         | Normal   | Implement correct handling for call answered elsewhere                           |          | 01/22/2019 01:03 PM |                                                                                      |
| 3741                   | osmo-sip-connector |          | Bug     | New         | Normal   | Unknow call parameters shown in vty                                              |          | 12/28/2018 02:01 PM |                                                                                      |
| 3724                   | osmo-sip-connector |          | Bug     | New         | Normal   | Wrong media format used in SIP INVITE causes one-way audio                       |          | 12/11/2018 02:57 PM | Related to #3724,Related to #5177                                                    |
| 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 |                                                                                      |
| 1685                   | osmo-sip-connector |          | Feature | In Progress | Normal   | osmo-sip-connector: Review and define log statements and which info to include   | osmith   | 09/04/2019 09:31 AM |                                                                                      |
| 1683                   | osmo-sip-connector |          | Bug     | Stalled     | Low      | osmo-sip-connector: Implement codec selection / move codec selection to osmo-msc | neels    | 09/23/2020 02:02 PM | Related to #1683,Related to #1683,Related to #1683,Related to #3650,Related to #5177 |
| <b>osmo-uecups (3)</b> |                    |          |         |             |          |                                                                                  |          |                     |                                                                                      |
| 5012                   | osmo-uecups        |          | Feature | New         | Low      | use osmo-uecups from GGSN_Tests.ttcn                                             | pespin   | 02/06/2021 10:02 AM | Related to #5012                                                                     |
| 4498                   | osmo-uecups        |          | Feature | New         | Normal   | IPv6 neighbor discovery                                                          | laforge  | 04/17/2020 08:33 AM |                                                                                      |
| 4496                   | osmo-uecups        |          | Feature | New         | Low      | implement filters for sharing as single tun device between multiple bearers      | laforge  | 04/17/2020 08:31 AM |                                                                                      |
| <b>OsmoBSC (115)</b>   |                    |          |         |             |          |                                                                                  |          |                     |                                                                                      |
| 6422                   | OsmoBSC            |          | Bug     | Feedback    | Normal   | latest: BSC_Tests.TC_ctrl_location started fo fail on March 15th                 | fixeria  | 04/02/2024 06:56 PM |                                                                                      |
| 6328                   | OsmoBSC            |          | Bug     | New         | Normal   | Channel Mode Modify fails to modify the RTP payload type number                  |          | 01/12/2024 06:24 AM | Related to #6328                                                                     |
| 6324                   | OsmoBSC            |          | Bug     | New         | Normal   | Making a data call results in B0RKEN Ichans                                      | osmith   | 01/05/2024 09:04 PM |                                                                                      |
| 6318                   | OsmoBSC            |          | Bug     | Feedback    | Normal   | Show Ichan shows wrong number of channels for TCH                                | neels    | 12/25/2023 01:01 AM |                                                                                      |
| 6059                   | OsmoBSC            |          | Bug     | New         | Normal   | negotiate GSM-HR RTP packet format explicitly                                    | dexter   | 06/13/2023 10:38 AM |                                                                                      |



| #    | Project | Category | Tracker | Status      | Priority | Subject                                                                                                | Assignee | Updated             | Related issues                                                      |
|------|---------|----------|---------|-------------|----------|--------------------------------------------------------------------------------------------------------|----------|---------------------|---------------------------------------------------------------------|
| 6019 | OsmoBSC |          | Bug     | New         | Normal   | "PCU version PCU socket has LOST connection connected"                                                 | fixeria  | 10/18/2023 05:42 PM |                                                                     |
| 6007 | OsmoBSC |          | Bug     | New         | Normal   | network -> bts -> gprs nsvc will always create a nsvc node                                             |          | 04/17/2023 04:08 PM |                                                                     |
| 5991 | OsmoBSC |          | Bug     | New         | Normal   | Forward TSNS-PROV bsc->[bts->]pcu                                                                      | jolly    | 12/17/2023 12:59 PM | Related to #5991                                                    |
| 5982 | OsmoBSC |          | Bug     | Feedback    | Low      | conn->fi is NULL in gskon_bssmap_clear()                                                               | neels    | 04/11/2023 02:25 PM |                                                                     |
| 5843 | OsmoBSC |          | Bug     | New         | Normal   | BTS features aren't reset after oml drop                                                               |          | 12/22/2022 09:27 PM |                                                                     |
| 5842 | OsmoBSC |          | Bug     | New         | Normal   | ipa: investigate NSVC local and remote port configuration difference with wireshark dissector          |          | 12/22/2022 07:18 PM |                                                                     |
| 5755 | OsmoBSC |          | Feature | In Progress | High     | io_uring support in osmo-bsc                                                                           | jolly    | 03/02/2024 08:06 PM | Related to #5755,Related to #6357                                   |
| 5744 | OsmoBSC |          | Bug     | New         | Low      | sycmobts: when a BTS is rf_locked and doesn't support BTS_FEAT_MULTI_TSC the OML connection is dropped | lynxis   | 11/23/2022 11:14 PM |                                                                     |
| 5740 | OsmoBSC |          | Feature | New         | Low      | Disallow unworkable AMR modes.                                                                         | keith    | 11/08/2022 05:15 PM |                                                                     |
| 5712 | OsmoBSC |          | Bug     | New         | Normal   | LCLS FSM; Not possible to get out from NO_LONGER_LS                                                    | dexter   | 10/18/2022 09:03 AM | Related to #5712                                                    |
| 5586 | OsmoBSC |          | Feature | New         | Normal   | Ericsson RBS could recover Unlocked state without osmo-bsc restart                                     |          | 06/21/2022 10:23 PM | Related to #5983                                                    |
| 5547 | OsmoBSC |          | Feature | New         | Low      | upon emergency call, from the MSC-pool pick an MSC that allows emergency calling                       |          | 04/25/2022 05:49 AM |                                                                     |
| 5515 | OsmoBSC |          | Bug     | New         | Normal   | BSC_Tests: re-establishment: RA during CHAN RQD should reflect re-establishment                        |          | 04/06/2022 08:02 PM |                                                                     |
| 5246 | OsmoBSC |          | Bug     | New         | Low      | sigsegv in bts_count_free_ts()                                                                         | keith    | 10/03/2021 08:08 PM | Related to #5324                                                    |
| 5190 | OsmoBSC |          | Bug     | New         | Low      | segfault with osmo-e1d                                                                                 |          | 09/15/2021 09:34 AM |                                                                     |
| 5156 | OsmoBSC |          | Feature | New         | Low      | Support intraBSC handover between distinct BTS types                                                   |          | 11/04/2021 06:27 PM |                                                                     |
| 5106 | OsmoBSC |          | Feature | Feedback    | Urgent   | Watchdog that would try to un-BORKE BORKen timeslots                                                   | keith    | 02/07/2023 06:25 PM | Related to #5106,Related to #5785,Related to #5786,Related to #5106 |
| 4981 | OsmoBSC |          | Feature | New         | Low      | Support for generating BSSMAP RESOURCE INDICATION                                                      |          | 01/27/2021 03:02 PM | Related to #4982                                                    |
| 4979 | OsmoBSC |          | Feature | New         | Low      | Support for parsing incoming BSSMAP LOAD INDICATION                                                    |          | 01/27/2021 02:41 PM | Related to #4979,Related to #4980                                   |

| #    | Project | Category | Tracker | Status      | Priority | Subject                                                                                        | Assignee | Updated             | Related issues                    |
|------|---------|----------|---------|-------------|----------|------------------------------------------------------------------------------------------------|----------|---------------------|-----------------------------------|
| 4978 | OsmoBSC |          | Feature | New         | Low      | Support for generating BSSMAP LOAD INDICATION                                                  |          | 01/27/2021 02:40 PM | Related to #4979,Related to #4980 |
| 4940 | OsmoBSC |          | Feature | Stalled     | High     | VAMOS support in OsmoBSC                                                                       | neels    | 08/11/2021 02:47 PM | Related to #4941                  |
| 4930 | OsmoBSC |          | Bug     | New         | Normal   | bsc: cbc: vty: "no remote-ip" in cbc > client                                                  |          | 12/31/2020 10:42 PM |                                   |
| 4922 | OsmoBSC |          | Feature | In Progress | Normal   | Implement MS Power Control                                                                     | keith    | 11/04/2021 06:37 PM |                                   |
| 4884 | OsmoBSC |          | Bug     | New         | Normal   | RLL_REL_IND is recieved after RF_CHAN_REL                                                      |          | 12/02/2020 11:51 AM |                                   |
| 4858 | OsmoBSC |          | Bug     | New         | Normal   | handover CHANnel ACTIVation: BSC sends timing advance for lchan activation in a different cell |          | 11/10/2020 05:41 PM |                                   |
| 4848 | OsmoBSC |          | Bug     | Feedback    | Normal   | osmo-bsc user manual shows tables with per-bts counters three (!) times                        | fixeria  | 03/06/2022 09:08 PM | Related to #4848,Related to #4848 |

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