

## 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>                      |                                 |          |         |        |          |                                                                                                    |          |                     |                       |
| 4242                                        | BBS-Revival                     | content  | Feature | New    | Low      | offer CCC event schedule (Fahrplan) as gopher service                                              |          | 10/28/2019 09:22 AM |                       |
| 4341                                        | BBS-Revival                     |          | Feature | New    | Normal   | setup for telnet access to legacy BBS software which doesn't have telnet/tcp support               | laforge  | 10/03/2022 12:09 PM |                       |
| <b>Cellular Modem Information (2)</b>       |                                 |          |         |        |          |                                                                                                    |          |                     |                       |
| 3658                                        | Cellular Modem Information      |          | Feature | New    | Low      | Create a "osmocom-bb-host-latest" docker container                                                 |          | 12/01/2019 09:07 AM | Related to #3658      |
| 4525                                        | Cellular Modem Information      |          | Feature | New    | Normal   | MTK                                                                                                |          | 05/03/2020 03:57 PM | Is duplicate of #4525 |
| <b>Cellular Network Infrastructure (74)</b> |                                 |          |         |        |          |                                                                                                    |          |                     |                       |
| 1596                                        | Cellular Network Infrastructure |          | Feature | New    | Low      | Generation of accounting/billing data                                                              |          | 12/10/2017 08:03 PM |                       |
| 1598                                        | Cellular Network Infrastructure |          | Feature | New    | Low      | Scripting language interface                                                                       |          | 12/10/2017 08:04 PM |                       |
| 3142                                        | Cellular Network Infrastructure |          | Feature | New    | Low      | Further simplification of "NITB like" setups                                                       |          | 04/05/2018 08:09 PM |                       |
| 2451                                        | Cellular Network Infrastructure |          | Feature | New    | Low      | Add static builds to jenkins jobs                                                                  | osmith   | 09/30/2018 08:18 AM |                       |
| 1612                                        | Cellular Network Infrastructure |          | Bug     | New    | Low      | more configuration consistency checking                                                            |          | 09/30/2018 11:48 AM |                       |
| 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      |
| 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 |                       |
| 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      |
| 4108                                        | Cellular Network Infrastructure |          | Bug     | New    | Low      | osmo-ctrl2cgi, osmo-trap2cgi: missing default configs                                              |          | 07/16/2019 12:30 PM | Related to #4108      |
| 3694                                        | Cellular Network Infrastructure |          | Bug     | New    | Low      | Fix lintian warnings in .deb packages                                                              |          | 07/18/2019 05:20 AM | Related to #3699      |
| 1590                                        | Cellular Network Infrastructure |          | Feature | New    | Low      | Extension of Control Interface / external SNMP agent                                               |          | 07/18/2019 05:22 AM |                       |

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|------|---------------------------------|----------|---------|----------|----------|---------------------------------------------------------------------------------------|-----------|---------------------|------------------------------------------------------|
| 2839 | Cellular Network Infrastructure |          | Bug     | New      | Low      | statistics split between 2G and 3G                                                    |           | 07/18/2019 05:22 AM |                                                      |
| 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                                     |
| 3567 | Cellular Network Infrastructure |          | Bug     | New      | Low      | coverity: move the secret token out of \$HOME/osmo-ci/.../                            | lynxis    | 07/18/2019 05:22 AM |                                                      |
| 4141 | Cellular Network Infrastructure |          | Bug     | New      | Normal   | No osmux specific code in place during codec negotiation                              |           | 08/05/2019 03:57 PM |                                                      |
| 3670 | Cellular Network Infrastructure |          | Feature | New      | Low      | TTCN-3 tests for statsd exporter code                                                 |           | 09/04/2019 09:03 AM |                                                      |
| 4277 | Cellular Network Infrastructure |          | Feature | New      | Low      | implement an SMSC to work with OsmoMSC                                                |           | 11/22/2019 02:45 PM |                                                      |
| 4109 | Cellular Network Infrastructure |          | Feature | New      | Low      | debian-repo-install-test: start a virtual MS and perform a LU                         | osmith    | 11/29/2019 10:39 AM | Related to #4109                                     |
| 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                   |
| 3227 | Cellular Network Infrastructure |          | Feature | New      | Normal   | general idea: separate GSUP spec document                                             | roh       | 12/01/2019 09:26 AM | Is duplicate of #3227                                |
| 3382 | Cellular Network Infrastructure |          | Bug     | New      | Low      | Investigate and fix lintian issues listed by Debian Lintian Report                    | osmith    | 12/01/2019 09:27 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                   |
| 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 |                                                      |
| 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                                     |
| 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 |
| 3699 | Cellular Network Infrastructure |          | Feature | Stalled  | Low      | merge Debian patches                                                                  | Hoernchen | 01/08/2020 10:24 PM | Related to #3699, Related to #3753                   |
| 4376 | Cellular Network Infrastructure |          | Feature | New      | Normal   | Define distinct X timer numbers across all osmo programs                              |           | 01/23/2020 09:21 PM |                                                      |
| 2604 | Cellular Network Infrastructure |          | Feature | Stalled  | High     | GSUP-to-DIAMETER converter / IWF                                                      | laforge   | 02/29/2020 11:27 AM | Related to #5646                                     |
| 4587 | Cellular Network Infrastructure |          | Feature | New      | Low      | Add port numbers to /etc/services during installation                                 |           | 06/08/2020 10:28 AM | Related to #5013                                     |

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|------|---------------------------------|----------|---------|---------|----------|-------------------------------------------------------------------------------------------------|-----------|---------------------|------------------------------------------------------------------------------------------------------------------------|
| 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                                                    |
| 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                                       |
| 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 |                                                                                                                        |
| 4883 | Cellular Network Infrastructure |          | Bug     | New     | Normal   | update OsmoNITB migration guide                                                                 | neels     | 12/01/2020 08:32 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                                                                                                       |
| 3714 | Cellular Network Infrastructure |          | Feature | New     | Low      | implement Internal Handover With MSC Support                                                    | neels     | 02/06/2021 02:04 PM | Related to #3714                                                                                                       |
| 5013 | Cellular Network Infrastructure |          | Feature | New     | Low      | investigate "vtysh" for Osmocom                                                                 |           | 02/06/2021 02:14 PM | Related to #5013                                                                                                       |
| 4073 | Cellular Network Infrastructure |          | Feature | Stalled | Low      | try to get counter and vty reference information at compile time                                | Hoernchen | 02/06/2021 02:17 PM | Related to #4073,Related to #4848                                                                                      |
| 4069 | Cellular Network Infrastructure |          | Bug     | New     | Low      | Implement IPA PING/PONG mechanism everywhere                                                    | osmith    | 02/06/2021 02:27 PM | Related to #4072                                                                                                       |
| 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                                                                                      |
| 4578 | Cellular Network Infrastructure |          | Bug     | New     | High     | Updated slides / presentations / videos on setting up Osmocom CNI                               | laforge   | 02/13/2021 05:35 PM |                                                                                                                        |
| 1975 | Cellular Network Infrastructure |          | Feature | New     | Low      | Redesigned configuration management / MIB                                                       | laforge   | 02/16/2021 05:59 PM |                                                                                                                        |
| 5045 | Cellular Network Infrastructure |          | Feature | New     | Normal   | write libversion "major" on build files automatically based on LIBVERSION                       | pespin    | 02/24/2021 01:14 PM |                                                                                                                        |
| 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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| 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 |                                   |
| 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 |
| 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 |                                   |
| 5722 | Cellular Network Infrastructure |          | Feature | New         | Low      | Migrate jenkins build slaves from docker to podman                                                 |          | 10/21/2022 08:29 PM | Related to #5722                  |
| 5750 | Cellular Network Infrastructure |          | Bug     | New         | Normal   | contrib/jenkins.sh: build with -Wunused-macros and -Wundef                                         |          | 11/08/2022 08:07 PM |                                   |
| 5764 | Cellular Network Infrastructure |          | Bug     | New         | Normal   | GCC does not check format strings in LOGPFMS macros                                                |          | 11/11/2022 06:30 AM |                                   |
| 5771 | Cellular Network Infrastructure |          | Feature | New         | Normal   | series of presentations about the invididual CNi network elements                                  |          | 11/14/2022 07:25 PM |                                   |
| 2011 | Cellular Network Infrastructure |          | Feature | New         | Low      | clean-up / merge IPA (and IPA CCM) code of libosmocore, libosmo-abis, libosmo-netif, openbsc, etc. |          | 12/07/2022 04:11 PM | Related to #4841                  |
| 5819 | Cellular Network Infrastructure |          | Bug     | New         | Low      | Gerrit/gitiles: Parent links don't work                                                            |          | 12/08/2022 01:28 PM |                                   |
| 5749 | Cellular Network Infrastructure |          | Bug     | New         | Normal   | configure.ac: default CFLAGS, LT_INIT adds "-g -O2"                                                | fixeria  | 01/31/2023 08:12 PM |                                   |
| 5887 | Cellular Network Infrastructure |          | Bug     | New         | Low      | coverity: build everything in docker container and add CI                                          | osmith   | 02/01/2023 10:25 AM |                                   |
| 5908 | Cellular Network Infrastructure |          | Feature | New         | Low      | Cleanup license information throughout the projects                                                |          | 02/16/2023 11:02 AM |                                   |
| 5985 | Cellular Network Infrastructure |          | Bug     | New         | Normal   | tests: not all Osmocom projects have @osmoappdesc.py@                                              |          | 03/29/2023 08:09 PM |                                   |
| 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 |                                   |
| 5685 | Cellular Network Infrastructure |          | Bug     | Feedback    | Normal   | Dropping debian 10 (buster)                                                                        | osmith   | 04/04/2023 10:10 AM | Related to #5685,Related to #5685 |
| 5124 | Cellular Network Infrastructure |          | Feature | Feedback    | Normal   | network:osmocom:nightly feed with "-O0" builds                                                     | laforge  | 05/11/2023 11:11 AM |                                   |
| 3386 | Cellular Network Infrastructure |          | Feature | New         | Low      | Generate man pages at build time from adoc files                                                   | osmith   | 05/11/2023 11:24 AM | Precedes #3386                    |
| 3982 | Cellular Network Infrastructure |          | Feature | Feedback    | Low      | osmo-depcheck.py: set dependency hashes on command line                                            | osmith   | 05/15/2023 09:51 AM |                                   |

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|------|---------------------------------|----------|---------|-------------|----------|-------------------------------------------------------------------------------|----------|---------------------|------------------------------------------------------------------------------------------------------------------------------|
| 6188 | Cellular Network Infrastructure |          | Bug     | New         | Normal   | Osmocom manuals have "draft" in debian packages of released versions          | osmith   | 09/21/2023 04:37 PM |                                                                                                                              |
| 6215 | Cellular Network Infrastructure |          | Bug     | New         | Normal   | Rebase open5gs pcrf_simple patches and submit upstream                        | lynxis   | 10/18/2023 02:53 PM |                                                                                                                              |
| 6122 | Cellular Network Infrastructure |          | Bug     | New         | Low      | remove big endian support                                                     | osmith   | 10/18/2023 05:20 PM | Related to #6122                                                                                                             |
| 5809 | Cellular Network Infrastructure |          | Bug     | Feedback    | Normal   | applications disrespect potentially VTY-configured tcp/telnet port            | osmith   | 10/31/2023 09:34 AM |                                                                                                                              |
| 6243 | Cellular Network Infrastructure |          | Feature | New         | Low      | vtty cfg: make changing startup defaults of applications backwards compatible |          | 11/01/2023 07:06 PM |                                                                                                                              |
| 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 |                                                                                                                              |
| 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                                                                                                             |
| 6327 | Cellular Network Infrastructure |          | Feature | New         | Low      | Osmocom-build-tags-against-master job builds very basic configurations        | osmith   | 01/11/2024 08:17 PM |                                                                                                                              |
| 6349 | Cellular Network Infrastructure |          | Bug     | Feedback    | Normal   | example configs missing in release tarballs                                   | fixeria  | 01/29/2024 04:04 PM |                                                                                                                              |
| 6352 | Cellular Network Infrastructure |          | Bug     | Stalled     | Low      | ttcn3-bts-test[-latest] is broken since Feb 1st / docker and multicast        | osmith   | 03/06/2024 03:57 PM |                                                                                                                              |
| 6411 | Cellular Network Infrastructure |          | Bug     | Stalled     | Normal   | ttcn3: execute testsuites with a more realistic link performance              |          | 04/03/2024 06:25 PM |                                                                                                                              |
| 4107 | Cellular Network Infrastructure |          | Feature | In Progress | High     | Start systemd services as non-root user                                       | osmith   | 04/24/2024 10:05 AM | Related to #4107, Related to #4821, Related to #4107, Related to #5669, Related to #5685, Related to #5687, Related to #5722 |

### Core testing infrastructure (22)

|      |                             |  |         |         |        |                                                                                                       |         |                     |                  |
|------|-----------------------------|--|---------|---------|--------|-------------------------------------------------------------------------------------------------------|---------|---------------------|------------------|
| 4458 | Core testing infrastructure |  | Feature | New     | Low    | Set up a STF (Smartphone Testing Farm)                                                                |         | 03/18/2020 02:44 PM |                  |
| 4576 | Core testing infrastructure |  | Bug     | Stalled | High   | ttcn3-hlr-tests need to route multicast traffic between ttcn3-hlr-test and osmo-hlr-master containers | neels   | 10/28/2020 09:48 PM |                  |
| 4840 | Core testing infrastructure |  | Feature | New     | Low    | migrate osmo-gsm-tester docker images to registry.osmocom.org                                         | pespin  | 11/02/2020 05:13 PM | Related to #4840 |
| 5011 | Core testing infrastructure |  | Bug     | New     | Normal | Warning about unrecognized escape sequence in Osmocom_CTRL_Types                                      |         | 02/05/2021 11:21 AM |                  |
| 4692 | Core testing infrastructure |  | Feature | Stalled | Normal | finally implement testing of the actual voice audio path                                              | laforge | 04/19/2021 06:27 PM |                  |

| #                          | Project                     | Category | Tracker | Status      | Priority | Subject                                                                     | Assignee | Updated             | Related issues                     |
|----------------------------|-----------------------------|----------|---------|-------------|----------|-----------------------------------------------------------------------------|----------|---------------------|------------------------------------|
| 5128                       | Core testing infrastructure |          | Feature | New         | Low      | dec_RlcmacDlCtrlBlock: Get rid of annoying warning about remaining padding  |          | 12/09/2021 09:14 PM |                                    |
| 5323                       | Core testing infrastructure |          | Feature | New         | Normal   | Add docker image containing titan.core master                               |          | 12/15/2021 04:43 PM | Related to #6187                   |
| 5632                       | Core testing infrastructure |          | Bug     | In Progress | Normal   | better test result summary / notifications                                  | lynxis   | 08/31/2022 11:58 AM |                                    |
| 5761                       | Core testing infrastructure |          | Feature | New         | Normal   | Develop TTCN-3 test suite for SGW                                           |          | 11/09/2022 09:49 PM |                                    |
| 5762                       | Core testing infrastructure |          | Feature | New         | Normal   | Develop TTCN-3 test suite for PGW                                           |          | 11/10/2022 06:38 PM |                                    |
| 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                   |
| 5919                       | Core testing infrastructure |          | Bug     | New         | Low      | osmo-python-tests: Update/fix README or setup process                       | osmith   | 03/20/2023 10:17 AM |                                    |
| 6185                       | Core testing infrastructure |          | Bug     | New         | Normal   | Submit titan.ProtocolEmulations.SCCP patch upstream                         | neels    | 09/20/2023 06:22 PM |                                    |
| 5760                       | Core testing infrastructure |          | Feature | Stalled     | Normal   | Develop TTCN-3 test suite for MME                                           | dexter   | 10/04/2023 01:51 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 |                                    |
| 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 |
| 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 |                                    |
| 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 |                                    |
| 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 |                                    |
| 5301                       | Core testing infrastructure |          | Bug     | Stalled     | Normal   | Run TTCN3 docker tests with sanitizer enabled                               | osmith   | 03/20/2024 09:28 AM | Related to #5302                   |
| <b>Distributed GSM (7)</b> |                             |          |         |             |          |                                                                             |          |                     |                                    |
| 4308                       | Distributed GSM             |          | Support | New         | High     | thoughts about incorporating credit / billing in D-GSM                      |          | 12/04/2019 04:08 PM |                                    |
| 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                     |

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|------|-----------------|----------|---------|-------------|----------|-------------------------------------------------------------------------------------------------------------------|----------|---------------------|------------------|
| 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 |
| 4306 | Distributed GSM |          | Feature | Stalled     | Low      | GSUP proxy cache: store data persistently                                                                         |          | 05/20/2020 09:18 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 |                  |
| 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 |                  |
| 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 |                  |

### E1/T1 Hardware Interface (including icE1usb) (13)

|      |                                              |              |         |          |        |                                                                            |           |                     |                                    |
|------|----------------------------------------------|--------------|---------|----------|--------|----------------------------------------------------------------------------|-----------|---------------------|------------------------------------|
| 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 |
| 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                   |
| 5402 | E1/T1 Hardware Interface (including icE1usb) |              | Bug     | New      | Normal | no2e1 gateway improvements                                                 |           | 01/13/2022 12:02 PM |                                    |
| 4910 | E1/T1 Hardware Interface (including icE1usb) |              | Feature | New      | Low    | Automatically set the A / alarm bits in Tx if no signal on Rx              | tnt       | 01/13/2022 07:22 PM | Related to #5381                   |
| 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 |                                    |
| 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                   |
| 5709 | E1/T1 Hardware Interface (including icE1usb) |              | Feature | New      | Normal | rs422: Merge as much of the firmware into master to avoid separate branch  | tnt       | 10/13/2022 06:49 PM | Related to #5709                   |
| 5710 | E1/T1 Hardware Interface (including icE1usb) |              | Feature | New      | Normal | rs422: Merge as much of the gateway in master as possible                  | tnt       | 10/13/2022 06:53 PM | Related to #5710                   |
| 6416 | E1/T1 Hardware Interface (including icE1usb) | electrical   | Support | Feedback | Normal | Serial debug tty port speed                                                | pfassberg | 03/22/2024 06:52 PM |                                    |
| 6415 | E1/T1 Hardware Interface (including icE1usb) | firmware     | Bug     | New      | Low    | osmo_panic after truncated packet                                          | laforge   | 03/22/2024 06:54 PM |                                    |

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|------|----------------------------------------------|------------|---------|--------|----------|-----------------------------------------|----------|---------------------|----------------|
| 6417 | E1/T1 Hardware Interface (including icE1usb) | gateway    | Feature | New    | Normal   | CRC4 configuration                      |          | 03/22/2024 09:02 PM |                |
| 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 |                |

### Ericsson RBS 6xxx (3)

|      |                   |  |         |         |        |                                               |        |                     |  |
|------|-------------------|--|---------|---------|--------|-----------------------------------------------|--------|---------------------|--|
| 4534 | Ericsson RBS 6xxx |  | Support | Stalled | Normal | Take pictures of RBS6k gear for documentation | roh    | 05/20/2020 03:19 PM |  |
| 5307 | Ericsson RBS 6xxx |  | Feature | New     | Normal | Support for Multiple Sectors at an RBS site.  |        | 11/13/2021 08:20 PM |  |
| 5571 | Ericsson RBS 6xxx |  | Bug     | New     | High   | DUG can come up, but with Avail: "Power Off"  | dexter | 11/08/2022 05:10 PM |  |

### erlang/osmo\_ss7 (2)

|      |                 |  |     |          |        |                                                                    |         |                     |  |
|------|-----------------|--|-----|----------|--------|--------------------------------------------------------------------|---------|---------------------|--|
| 5378 | erlang/osmo_ss7 |  | Bug | New      | Normal | ipa: add support for client application                            | laforge | 01/05/2022 08:36 PM |  |
| 6377 | erlang/osmo_ss7 |  | Bug | Feedback | Normal | ipa: Failure decoding ipa frames split between several tcp packets | pespin  | 02/28/2024 03:00 PM |  |

### FidoNet (1)

|      |         |  |     |     |     |                                                                          |  |                     |  |
|------|---------|--|-----|-----|-----|--------------------------------------------------------------------------|--|---------------------|--|
| 2805 | FidoNet |  | Bug | New | Low | Create reproducible / semi-automatic way to create FidoNet node on Linux |  | 07/18/2019 05:34 AM |  |
|------|---------|--|-----|-----|-----|--------------------------------------------------------------------------|--|---------------------|--|

### gr-osmosdr (35)

|      |            |  |         |     |        |                                                                                                                    |         |                     |  |
|------|------------|--|---------|-----|--------|--------------------------------------------------------------------------------------------------------------------|---------|---------------------|--|
| 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 osmoccom_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 |  |
| 3414 | gr-osmosdr |  | Feature | New | Normal | Include Airspy serial number in connection string.                                                                 | horiz0n | 07/24/2018 04:52 AM |  |
| 3594 | gr-osmosdr |  | Feature | New | Normal | Message Commands                                                                                                   |         | 09/25/2018 03:59 PM |  |
| 3595 | gr-osmosdr |  | Feature | New | Normal | RX Tags                                                                                                            |         | 09/25/2018 04:01 PM |  |
| 3596 | gr-osmosdr |  | Feature | New | Normal | TX Tags                                                                                                            |         | 09/25/2018 04:01 PM |  |
| 3663 | gr-osmosdr |  | Bug     | New | Normal | Can't compile gr-osmosdr on macOS Mojave                                                                           |         | 10/19/2018 02:37 PM |  |
| 3734 | gr-osmosdr |  | Bug     | New | High   | Cannot compile gr-osmoccom                                                                                         |         | 12/16/2018 12:22 AM |  |
| 3512 | gr-osmosdr |  | Support | New | Normal | Bug #3462 on Arch Linux; gr-osmosdr install fails                                                                  | horiz0n | 01/26/2019 06:10 PM |  |
| 3802 | gr-osmosdr |  | Feature | New | Normal | New release                                                                                                        | horiz0n | 02/15/2019 07:22 AM |  |
| 3819 | gr-osmosdr |  | Support | New | Urgent | OSMO SDR blocks for GNUradio                                                                                       |         | 02/28/2019 06:00 PM |  |



| #    | Project    | Category | Tracker | Status | Priority | Subject                                                                                | Assignee | Updated             | Related issues |
|------|------------|----------|---------|--------|----------|----------------------------------------------------------------------------------------|----------|---------------------|----------------|
| 3462 | gr-osmosdr |          | Bug     | New    | Normal   | gr-osmosdr installation bladerf conversion errors                                      | horiz0n  | 07/18/2019 05:35 AM |                |
| 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 |                |
| 3597 | gr-osmosdr |          | Feature | New    | Low      | rtl: send final samples when device is lost                                            | horiz0n  | 07/18/2019 05:35 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 |                |
| 4325 | gr-osmosdr |          | Bug     | New    | Normal   | can't open hackrf_sink with device index                                               |          | 12/13/2019 09:18 AM |                |
| 4359 | gr-osmosdr |          | Bug     | New    | Normal   | Compiling from Git Bramcjr gr3.8 fails                                                 |          | 01/12/2020 05:08 PM |                |
| 4484 | gr-osmosdr |          | Bug     | New    | Normal   | CMakeFiles.txt                                                                         |          | 04/06/2020 05:19 PM |                |
| 3855 | gr-osmosdr |          | Bug     | New    | Normal   | Cannot build gr-osmosdr with Gnuradio 3.8                                              | horiz0n  | 07/13/2020 10:05 PM |                |
| 4942 | gr-osmosdr |          | Bug     | New    | Normal   | XTRX: Unable to compile due to error                                                   | RFNOD    | 01/12/2021 08:29 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 |                |
| 5218 | gr-osmosdr |          | Bug     | New    | Normal   | compilation fails: "no matching function for call to fcd_source_c::connect"            |          | 09/05/2021 10:58 PM |                |
| 5298 | gr-osmosdr |          | Bug     | New    | Normal   | object has no attribute 'pyqwidget' on arch linux                                      |          | 11/09/2021 01:25 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 |                |
| 5425 | gr-osmosdr |          | Bug     | New    | High     | Problem receiving samples using dual receivers with BladeRF                            |          | 01/29/2022 04:22 AM |                |
| 5448 | gr-osmosdr |          | Bug     | New    | Low      | a bug related to gqrx using gr-osmosdr for sdrplay rsp1 through soapy(?)               |          | 02/09/2022 02:56 AM |                |
| 5445 | gr-osmosdr |          | Bug     | New    | Normal   | Please switch to the gr-funcube                                                        |          | 02/15/2022 11:56 PM |                |
| 5460 | gr-osmosdr |          | Bug     | New    | Normal   | Please use double for ppm with fcdp/pp                                                 |          | 02/17/2022 10:43 PM |                |
| 5731 | gr-osmosdr |          | Bug     | New    | High     | Install gr-osmosdr on Ubuntu 20.04                                                     |          | 10/27/2022 01:39 PM |                |
| 5808 | gr-osmosdr |          | Feature | New    | Normal   | New option, for selecting an input channel of a soapy_source_c                         |          | 12/05/2022 11:45 AM |                |
| 5144 | gr-osmosdr |          | Bug     | New    | High     | Support multiple Airspy devices                                                        | horiz0n  | 10/21/2023 07:22 PM |                |

### GSM Audio Pocket Knife (2)

|      |                        |  |     |         |        |                                                           |         |                     |  |
|------|------------------------|--|-----|---------|--------|-----------------------------------------------------------|---------|---------------------|--|
| 2514 | GSM Audio Pocket Knife |  | Bug | Stalled | Normal | GSM HR encoding result does not match the reference       | fixeria | 04/03/2019 08:37 AM |  |
| 3398 | GSM Audio Pocket Knife |  | Bug | New     | Low    | build: configure fails if (optional) libalsa wasn't found | fixeria | 12/01/2019 10:08 AM |  |

### IMSI Pseudonymization (15)

| #    | Project               | Category      | Tracker | Status   | Priority | Subject                                                                                    | Assignee | Updated             | Related issues                     |
|------|-----------------------|---------------|---------|----------|----------|--------------------------------------------------------------------------------------------|----------|---------------------|------------------------------------|
| 4404 | IMSI Pseudonymization |               | Feature | Stalled  | Normal   | Research: Make sure that we can silently detach the IMSI                                   |          | 04/15/2020 10:06 AM | Related to #4404, Related to #4480 |
| 4489 | IMSI Pseudonymization | Specification | Feature | New      | Normal   | Specification: mark mandatory parts / implementation details as such                       |          | 04/16/2020 08:44 AM |                                    |
| 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 |                                    |
| 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                   |
| 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                   |
| 4479 | IMSI Pseudonymization | Applet        | Feature | New      | Normal   | Applet: change IMSI after receiving SMS                                                    |          | 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                   |
| 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 |                                    |
| 4486 | IMSI Pseudonymization | Applet        | Feature | New      | Normal   | Applet: gracefully handle case where timer is set twice                                    |          | 04/16/2020 08:45 AM |                                    |
| 4403 | IMSI Pseudonymization | OsmoHLR       | Feature | Feedback | Normal   | OsmoHLR: How to interface with SMS service?                                                |          | 04/16/2020 08:45 AM | Blocks #4477                       |
| 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                       |
| 4493 | IMSI Pseudonymization | Specification | Feature | New      | Normal   | Specification: Cover 2G, 3G and 4G separately                                              | neels    | 05/27/2020 01:11 PM |                                    |
| 4494 | IMSI Pseudonymization | Specification | Feature | New      | Normal   | Specification: Add bibliography                                                            | neels    | 05/27/2020 01:11 PM |                                    |
| 4495 | IMSI Pseudonymization | Specification | Feature | New      | Normal   | Specification: More references                                                             | neels    | 05/27/2020 01:11 PM |                                    |

### libosmo-abis (10)

|      |              |  |         |             |        |                                                                          |         |                     |                  |
|------|--------------|--|---------|-------------|--------|--------------------------------------------------------------------------|---------|---------------------|------------------|
| 2717 | libosmo-abis |  | Bug     | New         | Low    | libosmo-abis doesn't use ipa_ccm_make_id_resp()                          |         | 12/06/2017 05:47 PM |                  |
| 3622 | libosmo-abis |  | Bug     | New         | Normal | Clear API mess in sign_link_up callback                                  | pespin  | 10/02/2018 07:34 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 |
| 2571 | libosmo-abis |  | Bug     | New         | Low    | libosmo-abis API documentation missing (doxygen)                         | osmith  | 02/06/2021 02:27 PM |                  |
| 4860 | libosmo-abis |  | Feature | New         | Low    | Implement separation of line/TEI/datalinks in E1 pcap                    |         | 11/04/2021 06:31 PM |                  |
| 5356 | libosmo-abis |  | Bug     | New         | Normal | libosmo-abis: osmo_rtp_socket_connect() not calling connect() on sockets |         | 12/13/2021 12:50 PM |                  |
| 5766 | libosmo-abis |  | Feature | New         | Low    | use Linux kernel KCM for IPA header?                                     |         | 11/13/2022 08:15 AM | Related to #5766 |
| 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                                   |
|--------------------------------------------|--------------------------------|----------|---------|----------|----------|-------------------------------------------------------------------------------|----------|---------------------|--------------------------------------------------|
| 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                                     |
| 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 |
| <b>libosmo-netif (6)</b>                   |                                |          |         |          |          |                                                                               |          |                     |                                                  |
| 3006                                       | libosmo-netif                  |          | Bug     | New      | Low      | Osmux: improvements on lost/dropped RTP packets                               |          | 09/30/2018 08:34 AM |                                                  |
| 3812                                       | libosmo-netif                  |          | Bug     | Stalled  | Normal   | stream_test fails depending on where it is run                                |          | 03/13/2019 04:15 PM |                                                  |
| 2439                                       | libosmo-netif                  |          | Bug     | New      | Normal   | Osmux: overwrite duplicated RTP packets instead of dropping them              |          | 12/01/2019 10:11 AM | Blocks #2439                                     |
| 2440                                       | libosmo-netif                  |          | Bug     | New      | Normal   | Osmux: Improve lost packet recreation mechanism                               |          | 12/01/2019 10:11 AM | Blocks #2439                                     |
| 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               |
| 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 |                                                  |
| <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> |                                |          |         |          |          |                                                                               |          |                     |                                                  |
| 2003                                       | libosmo-sccp + libosmo-sigtran |          | Feature | New      | Low      | Implement M2UA support                                                        |          | 04/10/2017 12:01 PM |                                                  |
| 2007                                       | libosmo-sccp + libosmo-sigtran |          | Feature | New      | Low      | Implement GT based routing                                                    |          | 04/10/2017 12:04 PM |                                                  |
| 2008                                       | libosmo-sccp + libosmo-sigtran |          | Feature | New      | Low      | Implement Global Title Translation                                            |          | 04/10/2017 12:05 PM |                                                  |
| 2009                                       | libosmo-sccp + libosmo-sigtran |          | Feature | New      | Low      | Implement SCCP connection coupling ("proxy")                                  |          | 04/10/2017 12:09 PM |                                                  |
| 2259                                       | libosmo-sccp + libosmo-sigtran |          | Bug     | New      | Normal   | problem with local reference                                                  | laforge  | 07/19/2017 04:25 PM |                                                  |
| 1688                                       | libosmo-sccp + libosmo-sigtran |          | Feature | New      | Low      | SUA: support N-STATE indication primitives for connect and disconnect events  |          | 04/08/2018 07:59 AM |                                                  |

| #    | Project                        | Category | Tracker | Status      | Priority | Subject                                                                                                                                  | Assignee  | Updated             | Related issues                                                  |
|------|--------------------------------|----------|---------|-------------|----------|------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------------------|-----------------------------------------------------------------|
| 2013 | libosmo-sccp + 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              |
| 4072 | libosmo-sccp + libosmo-sigtran |          | Bug     | New         | Normal   | Implement IPA PING/PONG mechanism in libosmo-sigtran +                                                                                   | Hoernchen | 06/21/2019 02:51 PM | Related to #4072                                                |
| 2000 | libosmo-sccp + libosmo-sigtran |          | Feature | New         | Low      | use m3ua-testtool for the ASP-side verification                                                                                          |           | 07/18/2019 05:42 AM |                                                                 |
| 4356 | libosmo-sccp + libosmo-sigtran |          | Feature | New         | Low      | execute sccp_demo_user server+client against each other in some test suite                                                               | pespin    | 01/10/2020 12:23 PM | Related to #4356                                                |
| 4457 | libosmo-sccp + libosmo-sigtran |          | Bug     | New         | Normal   | editing the SCCP address book (global-title) on a running instance may crash the application                                             |           | 03/17/2020 11:17 PM |                                                                 |
| 4608 | libosmo-sccp + libosmo-sigtran |          | Feature | New         | Low      | "action" commands to interactively shutdown/re-enable/restart sigtran connections                                                        | laforge   | 06/10/2020 01:12 PM |                                                                 |
| 4635 | libosmo-sccp + libosmo-sigtran |          | Feature | New         | Normal   | quirks when initializing SS7 ASP                                                                                                         |           | 06/25/2020 04:46 PM | Related to #4635                                                |
| 4925 | libosmo-sccp + libosmo-sigtran |          | Bug     | New         | Normal   | SCTP multihoming / ABORT between osmo-msc and osmo-stp                                                                                   |           | 01/04/2021 11:32 AM | Related to #4926                                                |
| 2601 | libosmo-sccp + libosmo-sigtran |          | Feature | New         | Low      | osmo-msc still needs libosmo-sccp-dev for SCCP CAUSE definitions                                                                         | laforge   | 02/13/2021 06:07 PM |                                                                 |
| 5679 | libosmo-sccp + libosmo-sigtran |          | Feature | In Progress | Normal   | unsupported SCCP user primitive N-PCSTATE.indication                                                                                     | neels     | 02/18/2023 01:46 AM |                                                                 |
| 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 |                                                                 |
| 5899 | libosmo-sccp + libosmo-sigtran |          | Bug     | New         | Low      | ttn3-sccp-test-latest is actually running code from master, not latest                                                                   | osmith    | 03/20/2023 01:18 PM |                                                                 |
| 3871 | libosmo-sccp + 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 |
| 5561 | libosmo-sccp + libosmo-sigtran |          | Bug     | New         | Low      | pc=0=0.0.0 / RCOC-ERROR.ind not permitted                                                                                                |           | 05/23/2023 06:20 AM |                                                                 |
| 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                                                |
| 6241 | libosmo-sccp + libosmo-sigtran |          | Feature | New         | Low      | M3UA "Network Appearance" support                                                                                                        |           | 10/31/2023 03:00 PM | Related to #6241                                                |
| 6239 | libosmo-sccp + libosmo-sigtran |          | Feature | New         | Normal   | finally deprecate libosmo-sccp (headers, static lib)                                                                                     |           | 10/31/2023 07:31 PM |                                                                 |
| 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 |                                                                 |

| #                       | Project                           | Category      | Tracker | Status      | Priority | Subject                                                                                          | Assignee | Updated             | Related issues                         |
|-------------------------|-----------------------------------|---------------|---------|-------------|----------|--------------------------------------------------------------------------------------------------|----------|---------------------|----------------------------------------|
| 2006                    | libosmo-sccp +<br>libosmo-sigtran |               | Feature | New         | Low      | Implement M2PA support                                                                           |          | 02/10/2024 01:17 PM | Related to #3603                       |
| <b>libosmocore (74)</b> |                                   |               |         |             |          |                                                                                                  |          |                     |                                        |
| 1716                    | libosmocore                       |               | Feature | New         | Normal   | enhance unit test coverage                                                                       |          | 08/17/2016 03:57 PM | Related to #1987,Precedes #1717        |
| 2186                    | libosmocore                       |               | Feature | New         | Low      | split libosmocrypto                                                                              |          | 10/05/2017 06:25 AM |                                        |
| 2610                    | libosmocore                       |               | Feature | New         | Low      | optimize GnuTLS fallback                                                                         |          | 05/01/2018 04:07 PM | Related to #2610,Related to #3909      |
| 3309                    | libosmocore                       |               | Feature | New         | Normal   | osmo_timer_* should use monotonic clock                                                          |          | 05/31/2018 03:59 PM | Related to #3309                       |
| 3521                    | libosmocore                       |               | Feature | New         | Normal   | core/utills: engineering notation helpers                                                        | fixeria  | 09/04/2018 08:32 PM |                                        |
| 3522                    | libosmocore                       | libosmocoding | Feature | New         | Low      | libosmocoding: move TCH ordering functions to libosmocodec and share them                        | fixeria  | 09/04/2018 08:49 PM |                                        |
| 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 |                                        |
| 3845                    | libosmocore                       | libosmogb     | Feature | New         | Low      | Unified logging in Gb NS / BSSGP code                                                            |          | 03/16/2019 02:33 PM |                                        |
| 3987                    | libosmocore                       | libosmocore   | Feature | New         | Low      | introduce libosmocore_init() to replace individual initialization calls                          |          | 05/08/2019 03:03 PM | Related to #3987                       |
| 4104                    | libosmocore                       |               | Bug     | New         | Normal   | support for KASME generation                                                                     | laforge  | 07/12/2019 10:15 AM | Related to #4105                       |
| 4105                    | libosmocore                       |               | Feature | New         | Normal   | Support for LTE key derivation functions                                                         | laforge  | 07/13/2019 02:07 AM | Related to #4105                       |
| 2677                    | libosmocore                       |               | Support | New         | Normal   | Make stat_item available over ctrl interface                                                     |          | 09/04/2019 09:21 AM | Related to #2676                       |
| 4265                    | libosmocore                       |               | Bug     | New         | Normal   | --enable-embedded doesn't work as expected                                                       |          | 11/12/2019 11:18 AM |                                        |
| 1987                    | libosmocore                       |               | Feature | New         | Normal   | gcov code coverage test support                                                                  |          | 12/01/2019 01:42 PM | Related to #1987,Is duplicate of #1987 |
| 4304                    | libosmocore                       | libosmogsm    | Bug     | New         | Low      | missing unit tests for many gsm48_{encode,decode} functions                                      |          | 12/04/2019 01:50 PM |                                        |
| 4053                    | libosmocore                       | libosmoctrl   | Feature | New         | Low      | CTRL: Add CTRL cmd introspection to print documentation                                          |          | 01/08/2020 10:21 PM | Related to #4053,Related to #4443      |
| 2712                    | libosmocore                       | libosmocore   | Feature | New         | Low      | implement reproducible talloc context printout, i.e. without memory addresses                    |          | 01/08/2020 10:21 PM | Related to #2781                       |
| 4443                    | libosmocore                       | libosmoctrl   | Bug     | New         | Normal   | CTRL interface blocks wildcard in rate_ctr                                                       |          | 03/08/2020 01:06 PM | Related to #4443,Related to #4443      |
| 4731                    | libosmocore                       | 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      |

| #    | Project    | Category   | Tracker | Status      | Priority | Subject                                                                                                       | Assignee | Updated             | Related issues                                                         |
|------|------------|------------|---------|-------------|----------|---------------------------------------------------------------------------------------------------------------|----------|---------------------|------------------------------------------------------------------------|
| 4783 | libosmcore |            | Bug     | New         | Low      | doxygen: duplicate 'ports.h' warning                                                                          |          | 10/07/2020 01:29 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 |                                                                        |
| 4885 | libosmcore |            | Bug     | New         | Normal   | configure doesn't check for python3                                                                           |          | 12/02/2020 03:36 AM |                                                                        |
| 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 |                                                                        |
| 5029 | libosmcore | libosmovty | Bug     | New         | Normal   | vty: optional cases with multiple arguments is undefined behaviour                                            |          | 02/18/2021 05:44 PM |                                                                        |
| 4908 | libosmcore |            | Bug     | New         | Normal   | Errors compiling with -std=c++14                                                                              |          | 03/01/2021 03:38 PM |                                                                        |
| 4700 | libosmcore | libosmcore | Bug     | Feedback    | Normal   | 'socket' C test fails when there is no IPv6                                                                   | neels    | 03/24/2021 12:33 PM |                                                                        |
| 4103 | libosmcore | libosmogsm | Feature | New         | Low      | TUAK support as per 3GPP TS 35.231                                                                            |          | 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 |                                                                        |
| 3909 | libosmcore | libosmcore | Bug     | New         | Normal   | osmo_get_rand_id() fails in containerised environment                                                         |          | 03/24/2021 12:34 PM | Related to #3909                                                       |
| 3983 | libosmcore | libosmcore | Bug     | New         | Normal   | osmo_fsm_inst_change_parent() forgets to talloc reparent                                                      |          | 03/24/2021 12:35 PM |                                                                        |
| 1872 | libosmcore | libosmcore | Feature | New         | Low      | high-performance remote logging                                                                               |          | 03/24/2021 12:36 PM |                                                                        |
| 2688 | libosmcore | libosmcore | Bug     | New         | Normal   | CTRL iface: make rate_ctr request parser more strict                                                          |          | 03/24/2021 12:37 PM | Related to #4443                                                       |
| 1762 | libosmcore | 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 |
| 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 |                                                                        |
| 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                                                       |
| 5179 | libosmcore |            | Bug     | New         | Normal   | gprs_ns2: use refcounting for the NSE                                                                         | lynxis   | 06/13/2021 03:08 AM |                                                                        |
| 5180 | libosmcore |            | Bug     | In Progress | Normal   | ns2: Document NS inspection/blocking commands                                                                 | lynxis   | 06/15/2021 01:10 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 |                                                                        |
| 5277 | libosmcore | libosmogb  | Bug     | New         | Normal   | ns2: Allow SNS-CONFIG PDUs from unknown endpoints during config procedure                                     | lynxis   | 10/22/2021 02:28 PM |                                                                        |

| #    | Project    | Category      | Tracker | Status      | Priority | Subject                                                                                    | Assignee  | Updated             | Related issues        |
|------|------------|---------------|---------|-------------|----------|--------------------------------------------------------------------------------------------|-----------|---------------------|-----------------------|
| 5346 | libosmcore |               | Bug     | New         | Low      | osmo-release.sh doesn't work with %{sover} macro in spec.in                                | pespin    | 12/09/2021 12:03 PM |                       |
| 4149 | libosmcore | libosmcore    | Bug     | New         | Normal   | osmo_fsm allows event names to have spaces in them                                         | laforge   | 01/25/2022 09:53 AM |                       |
| 5507 | libosmcore | libosmogb     | Feature | New         | Normal   | Optimize reset time after SGSN is restarted                                                | lynxis    | 03/31/2022 12:33 PM |                       |
| 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      |
| 4842 | libosmcore | libosmogb     | Bug     | In Progress | Normal   | gsm0408 test fails on several architectures                                                | neels     | 08/23/2022 04:38 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 |                       |
| 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 |                       |
| 5829 | libosmcore |               | Feature | New         | Low      | log fallback for log_check_level(), log_parse_category()                                   |           | 12/13/2022 10:44 PM |                       |
| 5864 | libosmcore | libosmcore    | Bug     | New         | Normal   | Libosmcore: Fix order of config parsing output                                             |           | 02/04/2023 05:21 PM |                       |
| 5208 | libosmcore | libosmogb     | Bug     | Feedback    | Normal   | ns2: add testcase for SNS Size with invalid tlv                                            | lynxis    | 02/12/2023 08:37 PM |                       |
| 6021 | libosmcore |               | Bug     | New         | Low      | map file breaks recent lld builds                                                          | Hoernchen | 05/04/2023 05:49 AM |                       |
| 4727 | libosmcore |               | Feature | Feedback    | Normal   | Add more distro/platform/archs to jenkins CI                                               | laforge   | 05/15/2023 09:48 AM | Is duplicate of #4789 |
| 6232 | libosmcore |               | Bug     | New         | Normal   | jenkins should give all libosmcore config options a try                                    | osmith    | 10/22/2023 04:16 PM |                       |
| 6162 | libosmcore |               | Bug     | Feedback    | Normal   | master build failure with clang-16                                                         | Hoernchen | 11/18/2023 09:17 AM |                       |
| 6263 | libosmcore |               | Bug     | In Progress | Low      | impossible to detect wrong callbacks being registered / osmo_io_ops union                  | daniel    | 11/21/2023 09:21 AM |                       |
| 6233 | libosmcore |               | 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 |                       |
| 6249 | libosmcore | libosmcore    | Bug     | In Progress | Low      | logging: ANSI color sequences should be reset after log message                            | manawyrn  | 12/04/2023 07:00 AM | Related to #6284      |
| 5915 | libosmcore | libosmogb     | Bug     | New         | Low      | gprs: ns2: convert timers into osmo-timers                                                 | jolly     | 12/17/2023 12:59 PM | Related to #5915      |
| 5818 | libosmcore | libosmcore    | Bug     | New         | Normal   | multithreaded logging causes lock contention and needs a rework                            |           | 01/10/2024 09:05 AM |                       |
| 6344 | libosmcore | libosmogsm    | Feature | New         | Normal   | New TS 24.008 Bearer Capability codec API                                                  |           | 01/24/2024 11:19 PM | Related to #6344      |
| 6360 | libosmcore | libosmovty    | Bug     | New         | Normal   | libosmovty fails to parse commands like "test (foo bar) [(one two three)]"                 |           | 02/14/2024 09:25 PM |                       |
| 6374 | libosmcore |               | Bug     | New         | Normal   | libosmcore --disable-libsctp not tested by jenkins                                         |           | 02/23/2024 03:47 PM |                       |
| 6388 | libosmcore |               | Feature | New         | Normal   | stats_reporter via osmo_io / io_uring?                                                     |           | 03/02/2024 04:54 PM | Related to #6388      |
| 6389 | libosmcore | libosmovty    | Feature | New         | Low      | port VTY over to osmo_io / io_uring                                                        |           | 03/02/2024 04:55 PM | Related to #6389      |
| 6390 | libosmcore | libosmoctrl   | Feature | New         | Low      | port CTRL over to osmo_io / io_uring                                                       |           | 03/02/2024 06:45 PM | Related to #6390      |

| #    | Project     | Category    | Tracker | Status   | Priority | Subject                                                                    | Assignee | Updated             | Related issues |
|------|-------------|-------------|---------|----------|----------|----------------------------------------------------------------------------|----------|---------------------|----------------|
| 6393 | libosmocore | libosmocore | Bug     | New      | Normal   | osmo_io conflating osmo_iofd_unregister vs osmo_iofd_close                 | daniel   | 03/07/2024 09:47 AM |                |
| 6401 | libosmocore |             | Feature | New      | Low      | benchmark batching io_uring operations                                     |          | 03/14/2024 08:10 AM |                |
| 6402 | libosmocore |             | Feature | New      | Low      | consider using IORING_RECVSEND_POLL_FIRST for our socket-reads             |          | 03/14/2024 08:21 AM |                |
| 6410 | libosmocore | libosmocore | Bug     | New      | Normal   | osmo_io poll backend doesn't work on file descriptors that are not sockets |          | 03/19/2024 07:33 PM |                |
| 6437 | libosmocore |             | Bug     | Feedback | Normal   | osmo_io_ops segmentation_cb missing parameter holding state                | pespin   | 04/19/2024 10:17 AM |                |
| 6438 | libosmocore |             | Bug     | New      | Normal   | write_config_file() calls blocking sync()                                  |          | 04/21/2024 10:26 AM |                |
| 6440 | libosmocore |             | Bug     | Feedback | Normal   | VTY: 'write file' breaks 'show startup-config'                             |          | 04/22/2024 10:31 AM |                |

### linmodem (10)

|      |          |  |         |     |        |                                                 |  |                     |  |
|------|----------|--|---------|-----|--------|-------------------------------------------------|--|---------------------|--|
| 2798 | linmodem |  | Feature | New | Normal | ALSA Soundcard Support                          |  | 01/01/2018 12:02 PM |  |
| 2800 | linmodem |  | Feature | New | Normal | Interop testing with real modems                |  | 01/01/2018 12:16 PM |  |
| 2801 | linmodem |  | Feature | New | Normal | V.90 completion                                 |  | 01/01/2018 12:18 PM |  |
| 2802 | linmodem |  | Feature | New | Low    | report the connected speed in "CONNECT" message |  | 01/01/2018 12:18 PM |  |
| 2803 | linmodem |  | Bug     | New | Low    | return ERROR for unsupported AT commands        |  | 01/01/2018 12:19 PM |  |
| 2804 | linmodem |  | Feature | New | Low    | DAHDI interface                                 |  | 01/01/2018 12:27 PM |  |
| 2815 | linmodem |  | Feature | New | Normal | modern ptmx / pty handling (UNIX 98)            |  | 01/01/2018 02:48 PM |  |
| 2799 | linmodem |  | Feature | New | Normal | SIP client support                              |  | 01/01/2020 08:05 PM |  |
| 5489 | linmodem |  | Feature | New | Low    | linmodem mISDN integration                      |  | 03/13/2022 09:35 PM |  |
| 2797 | linmodem |  | Bug     | New | Normal | X11 support is 16bit plane only                 |  | 05/07/2022 11:34 PM |  |

### Linux Kernel GTP-U (5)

|      |                    |  |         |             |        |                                                                               |        |                     |                                    |
|------|--------------------|--|---------|-------------|--------|-------------------------------------------------------------------------------|--------|---------------------|------------------------------------|
| 1832 | Linux Kernel GTP-U |  | Feature | New         | Normal | OpenvSwitch GTP-u patch for 2.5                                               |        | 10/27/2016 08:56 AM |                                    |
| 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                   |
| 6212 | Linux Kernel GTP-U |  | Bug     | In Progress | Normal | GTP extension headers                                                         | pespin | 10/18/2023 03:03 PM | Related to #6223                   |
| 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 |                                    |
| 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 |

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



| #                                                 | Project                                  | Category                       | Tracker | Status  | Priority | Subject                                                                   | Assignee   | Updated             | Related issues                     |
|---------------------------------------------------|------------------------------------------|--------------------------------|---------|---------|----------|---------------------------------------------------------------------------|------------|---------------------|------------------------------------|
| 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 |                                    |
| <b>Misc Hardware Projects (3)</b>                 |                                          |                                |         |         |          |                                                                           |            |                     |                                    |
| 5672                                              | Misc Hardware Projects                   |                                | Bug     | New     | Normal   | sfp-experimenter / voltage swing of LVDS driver insufficient for SFP spec |            | 09/02/2022 03:27 PM |                                    |
| 5738                                              | Misc Hardware Projects                   |                                | Bug     | New     | Normal   | Sim 800L module Connectivity                                              |            | 11/02/2022 06:55 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>                 |                                          |                                |         |         |          |                                                                           |            |                     |                                    |
| 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 |                                    |
| 3847                                              | Miscellaneous Projects                   |                                | Feature | New     | Normal   | Osmocom logo with/for black background                                    | tsaitgaist | 12/10/2019 11:53 AM |                                    |
| 6129                                              | Miscellaneous Projects                   |                                | Bug     | New     | Normal   | Discourse: Setting a custom avatar via upload fails                       |            | 08/02/2023 06:07 PM |                                    |
| <b>Mobile (in)Security (7)</b>                    |                                          |                                |         |         |          |                                                                           |            |                     |                                    |
| 1477                                              | Mobile (in)Security                      | Um (MS-BTS) interface          | Bug     | New     | High     | RACH flood DoS                                                            |            | 02/21/2016 04:34 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 |                                    |
| 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 |                                    |
| 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 |                                    |
| <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> |                                          |                                |         |         |          |                                                                           |            |                     |                                    |
| 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 |                                    |

| #    | Project                               | Category      | Tracker | Status  | Priority | Subject                                                                         | Assignee | Updated             | Related issues   |
|------|---------------------------------------|---------------|---------|---------|----------|---------------------------------------------------------------------------------|----------|---------------------|------------------|
| 5433 | OCTOI - Osmocom Community TDM over IP | protocol-spec | Bug     | New     | Normal   | forwarding of TS0 / Alarms                                                      |          | 01/30/2022 11:02 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 |                  |
| 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 |                  |
| 5435 | OCTOI - Osmocom Community TDM over IP | osmo-e1d      | Feature | New     | Low      | use DNS to resolve the server                                                   |          | 04/05/2022 08:20 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 |                  |
| 5546 | OCTOI - Osmocom Community TDM over IP |               | Feature | New     | Normal   | build frame relay "hub" similar to ISDN "hub"                                   |          | 04/24/2022 03:03 PM |                  |
| 5429 | OCTOI - Osmocom Community TDM over IP | protocol-spec | Feature | New     | Normal   | authentication in TDMoIP protocol                                               | laforge  | 11/07/2022 05:29 PM |                  |
| 5694 | OCTOI - Osmocom Community TDM over IP |               | Bug     | Stalled | Normal   | BERT testing                                                                    | laforge  | 12/31/2022 08:24 PM |                  |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |                  |
| 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 |                  |
| 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 |                  |
| 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 |                  |
| 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 |                  |
| 5693 | OCTOI - Osmocom Community TDM over IP | services      | Bug     | Stalled | Normal   | no progress tones in yate                                                       |          | 12/03/2023 11:10 AM |                  |
| 5434 | OCTOI - Osmocom Community TDM over IP | osmo-e1d      | Feature | Stalled | Normal   | more statistics / counters                                                      |          | 12/03/2023 11:17 AM |                  |

| #    | Project                               | Category | Tracker | Status | Priority | Subject                                                     | Assignee | Updated             | Related issues   |
|------|---------------------------------------|----------|---------|--------|----------|-------------------------------------------------------------|----------|---------------------|------------------|
| 6282 | OCTOI - Osmocom Community TDM over IP |          | Bug     | New    | Normal   | high BERT from laforge->divf->manawyrm                      | manawyrm | 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 |

### OP25 (23)

|      |      |  |         |     |        |                                                                     |        |                     |  |
|------|------|--|---------|-----|--------|---------------------------------------------------------------------|--------|---------------------|--|
| 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 |  |
| 3776 | OP25 |  | Bug     | New | Normal | Build fail using gcc version 7.3.0 Ubuntu 18.04.1 LTS               |        | 07/05/2019 07:12 PM |  |
| 4130 | OP25 |  | Bug     | New | Normal | OP25 User Interface                                                 |        | 07/26/2019 02:36 AM |  |
| 4225 | OP25 |  | Support | New | Normal | Missing rules in cmake lists?                                       | 2CS350 | 10/12/2019 02:49 PM |  |
| 4455 | OP25 |  | Feature | New | Normal | AMBE CODEC                                                          |        | 03/28/2020 09:53 PM |  |
| 4593 | OP25 |  | Support | New | Normal | Link to samples on the wiki is dead                                 | matt   | 06/07/2020 06:53 PM |  |
| 3531 | OP25 |  | Bug     | New | Normal | Unknown status of the p25 wireshark plugin                          |        | 10/06/2022 05:52 AM |  |
| 6192 | OP25 |  | Bug     | New | Normal | Unable to host behind NGINX reverse proxy                           | max    | 09/27/2023 01:56 AM |  |
| 6323 | OP25 |  | Bug     | New | Normal | Install script is broken on Ubuntu 23.10                            |        | 01/05/2024 07:54 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 |  |
|------|------------------------|--|---------|-----|--------|---------------------------------------------------------------|--|---------------------|--|

| #                             | Project                | Category | Tracker | Status      | Priority | Subject                                                                                   | Assignee  | Updated             | Related issues   |
|-------------------------------|------------------------|----------|---------|-------------|----------|-------------------------------------------------------------------------------------------|-----------|---------------------|------------------|
| 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 |
| 5480                          | Open Source IMS Client |          | Feature | In Progress | High     | Linux kernel IPsec plugin for doubango                                                    | laforge   | 03/25/2022 10:44 AM |                  |
| 5481                          | Open Source IMS Client |          | Feature | New         | Urgent   | SIM card interface for doubango                                                           | laforge   | 03/25/2022 11:00 AM | Related to #5482 |
| <b>Osmo-CC (1)</b>            |                        |          |         |             |          |                                                                                           |           |                     |                  |
| 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> |                        |          |         |             |          |                                                                                           |           |                     |                  |
| 4776                          | osmo-ccid-firmware     |          | Bug     | New         | Normal   | Reader does not answer to GET CLOCK FREQUENCIES command                                   | Hoernchen | 10/03/2020 07:31 PM |                  |
| 4777                          | osmo-ccid-firmware     |          | Bug     | New         | Normal   | Reader does not answer to GET DATA RATES command                                          | Hoernchen | 10/14/2020 02:36 PM |                  |
| 4806                          | osmo-ccid-firmware     |          | Feature | New         | Low      | Add support of T=1?                                                                       |           | 10/15/2020 03:40 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 |                  |
| 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 |                  |
| 5380                          | osmo-ccid-firmware     |          | Bug     | New         | Normal   | Incorrect answer to PC_to_RDR_SetParameters CCID command                                  |           | 01/16/2022 08:55 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>     |                        |          |         |             |          |                                                                                           |           |                     |                  |
| 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 |                  |
| 4678                          | osmo-clock-gen         |          | Feature | New         | Low      | Increase mounting hole size to support M3 screws                                          | mschramm  | 07/25/2020 08:43 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 |
| 4857                          | osmo-clock-gen         |          | Bug     | Stalled     | Normal   | FLV9001IDBVR no longer in stock ag digikey                                                | mschramm  | 04/10/2021 10:22 PM |                  |
| 5633                          | osmo-clock-gen         |          | Feature | New         | Normal   | towards a first osmo-clock-gen production batch                                           | laforge   | 07/26/2022 12:39 PM |                  |
| <b>osmo-e1d (10)</b>          |                        |          |         |             |          |                                                                                           |           |                     |                  |
| 5386                          | osmo-e1d               |          | Bug     | New         | Low      | stop watchdog when LOS is present                                                         | laforge   | 01/05/2022 08:38 PM |                  |
| 4917                          | osmo-e1d               | icE1usb  | Feature | Stalled     | Normal   | reporting of alarms/errors known to the icE1usb                                           | laforge   | 04/10/2022 10:36 AM |                  |
| 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   |
|------|----------|----------|---------|----------|----------|-----------------------------------------------------------------|----------|---------------------|------------------|
| 5735 | osmo-e1d |          | Bug     | New      | Normal   | ctl client disconnect doesn't re-set timeslot state             |          | 05/23/2023 06:19 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 |                  |
| 5520 | osmo-e1d | octoi    | Feature | New      | Low      | exponential back-off on octoi client reconnect attempts         |          | 07/29/2023 07:30 AM |                  |
| 4915 | osmo-e1d |          | Feature | New      | Low      | consider a one-thread-per-line architecture                     |          | 07/29/2023 07:31 AM |                  |
| 6169 | osmo-e1d | octoi    | Bug     | New      | High     | Frame masking against network frame ordering, not frame numbers | laforge  | 10/18/2023 03:19 PM |                  |
| 4916 | osmo-e1d | icE1usb  | Bug     | Stalled  | High     | USB unplug / replug renders e1d unusable                        | laforge  | 12/04/2023 12:34 PM | Related to #5983 |
| 5824 | osmo-e1d |          | Bug     | Feedback | Normal   | Line dead message in the log after start                        | laforge  | 12/25/2023 01:43 PM |                  |

### osmo-ePDG - VoWifi Evolved Packet Data Gateway (16)

|      |                                                |  |         |             |        |                                                                                |        |                     |                  |
|------|------------------------------------------------|--|---------|-------------|--------|--------------------------------------------------------------------------------|--------|---------------------|------------------|
| 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 |
| 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 |                  |
| 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 |
| 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 |                  |
| 6363 | osmo-ePDG - VoWifi Evolved Packet Data Gateway |  | Bug     | New         | Normal | strongswan: Catch IKEv2 disconnects                                            | lynxis | 02/17/2024 01:21 AM |                  |
| 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 |
| 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 |
| 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 |                  |
| 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 |                  |
| 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 |                  |

| #    | Project                                        | Category | Tracker | Status      | Priority | Subject                                                                                 | Assignee | Updated             | Related issues   |
|------|------------------------------------------------|----------|---------|-------------|----------|-----------------------------------------------------------------------------------------|----------|---------------------|------------------|
| 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 |                  |
| 6370 | osmo-ePDG - VoWifi Evolved Packet Data Gateway |          | Bug     | In Progress | Normal   | setup ims with kamailio                                                                 | lynxis   | 03/14/2024 09:01 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 |                  |
| 6408 | osmo-ePDG - VoWifi Evolved Packet Data Gateway |          | Feature | New         | Normal   | osmo-epdg: Support check IMEI                                                           |          | 03/15/2024 06:45 PM |                  |
| 6435 | osmo-ePDG - VoWifi Evolved Packet Data Gateway |          | Bug     | In Progress | Normal   | epdg: fix inter-UE traffic                                                              | lynxis   | 04/08/2024 06:55 PM |                  |
| 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 |

### osmo-fl2k (3)

|      |           |  |         |     |        |                                                                      |         |                     |  |
|------|-----------|--|---------|-----|--------|----------------------------------------------------------------------|---------|---------------------|--|
| 3210 | osmo-fl2k |  | Feature | New | Low    | man pages                                                            | steve-m | 04/24/2018 08:55 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 |  |
| 5918 | osmo-fl2k |  | Bug     | New | Normal | -flto broken in release                                              | steve-m | 12/20/2023 08:43 PM |  |

### osmo-gbproxy (9)

|      |              |  |         |             |        |                                                                |         |                     |                                                      |
|------|--------------|--|---------|-------------|--------|----------------------------------------------------------------|---------|---------------------|------------------------------------------------------|
| 4893 | osmo-gbproxy |  | Feature | New         | Low    | gbproxy2: Make feature bitmap configurable                     |         | 12/08/2020 07:55 AM | Related to #4893                                     |
| 4521 | osmo-gbproxy |  | Feature | New         | Normal | gbproxy: Redundancy between NS-VCs (SGSN Side)                 | laforge | 01/19/2021 05:24 PM | Related to #4959                                     |
| 4961 | osmo-gbproxy |  | Feature | New         | Normal | gbproxy support for "network sharing" via MOCN                 |         | 01/20/2021 08:38 PM |                                                      |
| 4520 | osmo-gbproxy |  | Feature | In Progress | Normal | gbproxy: Redundancy between NS-VCs (BSS Side)                  | lynxis  | 02/19/2021 04:50 PM | Related to #4520                                     |
| 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 |
| 4951 | osmo-gbproxy |  | Feature | In Progress | Normal | more TTCN3 tests for SGSN pooling                              | daniel  | 07/08/2021 08:36 PM | Related to #4951, Related to #4952                   |
| 4522 | osmo-gbproxy |  | Feature | Stalled     | High   | gbproxy: Redundancy within proxy pair                          | daniel  | 07/09/2021 06:43 PM |                                                      |
| 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                                     |
| 4968 | osmo-gbproxy |  | Bug     | Feedback    | Normal | Multiple TTCN3 tests only expect one SGSN                      | daniel  | 12/09/2021 09:17 PM | Related to #4968                                     |

### osmo-labrack (4)

| #                       | 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 |                                                |
| 5371                    | osmo-lab-rack |               | Feature | New         | Low      | component carrier USB-UART                                                    |           | 12/23/2021 06:31 PM |                                                |
| 5372                    | osmo-lab-rack |               | Feature | New         | Low      | AC power supply                                                               |           | 12/23/2021 06:33 PM |                                                |
| 5745                    | osmo-lab-rack |               | Feature | In Progress | Low      | component carrier Ethernet switch                                             | laforge   | 02/03/2023 11:29 AM |                                                |
| <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>  |               |               |         |             |          |                                                                               |           |                     |                                                |
| 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 |                                                |
| 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 |                                                |
| 2697                    | osmo-qcdiag   |               | Feature | New         | Normal   | Create and add debian packages for osmo-qcdiag to osmocom debian repositories |           | 11/30/2017 06:03 PM |                                                |
| 4781                    | osmo-qcdiag   |               | Bug     | New         | High     | get hoernchen/gsmtdp branch merged                                            | Hoernchen | 10/06/2020 03:18 PM |                                                |
| 1906                    | osmo-qcdiag   |               | Bug     | Feedback    | Normal   | wireshark: fix decoding of (E)GPRS RLC/MAC frames                             | Hoernchen | 02/08/2021 08:07 PM |                                                |
| <b>osmo-remsim (12)</b> |               |               |         |             |          |                                                                               |           |                     |                                                |
| 3885                    | osmo-remsim   |               | Feature | New         | Normal   | remsim-server should expose status information                                | laforge   | 04/01/2019 07:23 PM | Precedes #3885                                 |
| 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                                 |
| 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 |
| 3887                    | osmo-remsim   | remsim-client | Feature | New         | Low      | remsim-client: allow for local handling of APDUs                              | laforge   | 12/03/2019 12:20 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 |                                                |
| 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                               |
| 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 |                                                |
| 5614                    | osmo-remsim   | remsim-client | Feature | New         | Normal   | log also application-level errors                                             | laforge   | 07/11/2022 08:09 PM |                                                |
| 5527                    | osmo-remsim   | remsim-server | Bug     | Stalled     | High     | warn on duplicate client (id) connections                                     | laforge   | 07/13/2022 01:25 PM | Related to #5527                               |

| #                              | Project            | Category      | Tracker | Status      | Priority | Subject                                                                          | Assignee | Updated             | Related issues                                                                       |
|--------------------------------|--------------------|---------------|---------|-------------|----------|----------------------------------------------------------------------------------|----------|---------------------|--------------------------------------------------------------------------------------|
| 5628                           | osmo-remsim        | remsim-client | Bug     | New         | Low      | client-st2: error mesasges when mapping is removed                               |          | 07/24/2022 07:14 AM |                                                                                      |
| 5891                           | osmo-remsim        | remsim-bankd  | Bug     | New         | Normal   | bankd: potential pthread deadlock reported by coverity                           | laforge  | 02/03/2023 07:35 PM |                                                                                      |
| <b>osmo-sip-connector (12)</b> |                    |               |         |             |          |                                                                                  |          |                     |                                                                                      |
| 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                                                    |
| 3741                           | osmo-sip-connector |               | Bug     | New         | Normal   | Unknow call parameters shown in vty                                              |          | 12/28/2018 02:01 PM |                                                                                      |
| 3763                           | osmo-sip-connector |               | Bug     | New         | Normal   | Implement correct handling for call answered elsewhere                           |          | 01/22/2019 01:03 PM |                                                                                      |
| 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 |                                                                                      |
| 1687                           | osmo-sip-connector |               | Feature | New         | Low      | osmo-sip-connector: Explore 3-way conference call                                |          | 01/08/2020 10:56 PM |                                                                                      |
| 4310                           | osmo-sip-connector |               | Bug     | New         | Normal   | sends BYE to self                                                                |          | 01/09/2020 09:21 AM |                                                                                      |
| 4352                           | osmo-sip-connector |               | Bug     | New         | Normal   | Need to handle 401 Unauthorized                                                  |          | 01/09/2020 02:03 PM |                                                                                      |
| 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 |
| 4762                           | osmo-sip-connector |               | Feature | New         | Low      | Osmo Analog Support                                                              |          | 09/25/2020 07:31 AM | Related to #4763                                                                     |
| 1686                           | osmo-sip-connector |               | Feature | New         | Normal   | osmo-sip-connector: Implement call holding on SIP                                |          | 10/20/2020 08:36 AM |                                                                                      |
| 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                                                    |
| <b>osmo-uecups (3)</b>         |                    |               |         |             |          |                                                                                  |          |                     |                                                                                      |
| 4496                           | osmo-uecups        |               | Feature | New         | Low      | implement filters for sharing as single tun device between multiple bearers      | laforge  | 04/17/2020 08:31 AM |                                                                                      |
| 4498                           | osmo-uecups        |               | Feature | New         | Normal   | IPv6 neighbor discovery                                                          | laforge  | 04/17/2020 08:33 AM |                                                                                      |
| 5012                           | osmo-uecups        |               | Feature | New         | Low      | use osmo-uecups from GGSN_Tests.ttcn                                             | pespin   | 02/06/2021 10:02 AM | Related to #5012                                                                     |
| <b>OsmoBSC (115)</b>           |                    |               |         |             |          |                                                                                  |          |                     |                                                                                      |
| 2462                           | OsmoBSC            |               | Feature | New         | Low      | clarify lchan->encr.alg_id                                                       |          | 08/24/2017 01:27 PM | Related to #2462                                                                     |
| 68                             | OsmoBSC            |               | Bug     | New         | Low      | ipaccess-config should work with -u ID -o IP -r BTS_IP                           |          | 12/10/2017 07:52 PM |                                                                                      |



| #    | Project | Category  | Tracker | Status   | Priority | Subject                                                                                                                                   | Assignee | Updated             | Related issues                    |
|------|---------|-----------|---------|----------|----------|-------------------------------------------------------------------------------------------------------------------------------------------|----------|---------------------|-----------------------------------|
| 69   | OsmoBSC |           | Bug     | New      | Low      | No timers for various calls                                                                                                               |          | 12/10/2017 07:53 PM |                                   |
| 73   | OsmoBSC |           | Bug     | New      | Low      | Kill the paging_init_if_needed method in paging.c                                                                                         |          | 12/10/2017 07:53 PM |                                   |
| 1858 | OsmoBSC |           | Feature | New      | Normal   | make BSC also generate ALERTs                                                                                                             |          | 12/10/2017 07:59 PM |                                   |
| 1600 | OsmoBSC |           | Feature | New      | Low      | BSC: Make SI / rest octests more configurable                                                                                             |          | 12/10/2017 08:04 PM |                                   |
| 1613 | OsmoBSC |           | Feature | New      | Low      | make BTS/TRX configuration changes without having to drop BTS OML link                                                                    |          | 12/10/2017 08:06 PM |                                   |
| 1659 | OsmoBSC |           | Feature | New      | Low      | Check encoding of SI at time parameters are entered from VTY, not just at generation time                                                 |          | 12/10/2017 08:06 PM |                                   |
| 1857 | OsmoBSC | A-bis OML | Feature | New      | Normal   | aggregate and report OML ALERT messages received from BTSs                                                                                |          | 12/10/2017 08:16 PM | Related to #1615,Related to #1605 |
| 34   | OsmoBSC | A-bis OML | Bug     | New      | Normal   | ipaccess init code needs proper state machines                                                                                            |          | 12/10/2017 08:16 PM | Related to #34                    |
| 2724 | OsmoBSC |           | Feature | New      | Normal   | Improve default timers                                                                                                                    | laforge  | 01/04/2018 11:06 AM | Related to #2724                  |
| 3000 | OsmoBSC | A-bis OML | Bug     | New      | Normal   | OsmoBSC issues "RSL Connect" command too early -> race conditions                                                                         |          | 02/25/2018 12:32 PM | Related to #2470,Related to #4179 |
| 2382 | OsmoBSC |           | Bug     | New      | Normal   | T3105 not consistently communicated to all BTS models                                                                                     |          | 03/05/2018 07:02 PM |                                   |
| 3097 | OsmoBSC |           | Feature | New      | Normal   | ramping of "rxlev access min"                                                                                                             |          | 03/22/2018 11:51 AM | Related to #3097                  |
| 3243 | OsmoBSC |           | Bug     | New      | Normal   | there is MGW config for each separate 'msc', but the MGW settings are stored only once globally                                           |          | 05/07/2018 03:10 PM |                                   |
| 3330 | OsmoBSC | A-bis RSL | Feature | New      | Normal   | osmo-bsc: Implement IMMEDIATE ASSIGNMENT EXTENDED                                                                                         |          | 06/08/2018 12:14 PM | Related to #3330                  |
| 3479 | OsmoBSC |           | Feature | New      | Normal   | test "every single failure" in osmo-bsc FSMs                                                                                              |          | 08/20/2018 11:15 AM | Related to #3479                  |
| 3505 | OsmoBSC |           | Feature | New      | Normal   | ttcn3: test inter-BSC HO with encryption enabled                                                                                          | neels    | 08/28/2018 06:38 PM | Related to #3505                  |
| 2899 | OsmoBSC |           | Bug     | New      | Low      | channel attributes are sent to BTS even for NONE channels                                                                                 | osmith   | 09/30/2018 10:42 AM |                                   |
| 3637 | OsmoBSC |           | Bug     | Feedback | Normal   | handover decision 2: properly check available codecs                                                                                      | neels    | 10/09/2018 09:45 AM | Related to #3637,Related to #3637 |
| 3642 | OsmoBSC |           | Bug     | New      | Low      | logging filter imsi leaks bsc_subscr references                                                                                           |          | 10/09/2018 10:04 PM |                                   |
| 3482 | OsmoBSC | Handover  | Feature | New      | Low      | handover decision: if a new call causes congestion that would trigger immedate re-assignment, assigning the other TCH kind from the start |          | 10/16/2018 01:15 PM | Related to #3482                  |
| 3485 | OsmoBSC | Handover  | Feature | New      | Low      | handover to make room for a less capable subscriber                                                                                       |          | 10/16/2018 01:16 PM | Related to #3485                  |
| 3486 | OsmoBSC | Handover  | Feature | New      | Low      | handover decision: congestion: figure out the tradeoff: re-assign within same cell vs. handover to another cell                           |          | 10/16/2018 01:16 PM | Related to #3486,Related to #3638 |

| #    | Project | Category      | Tracker | Status | Priority | Subject                                                                                                                  | Assignee | Updated             | Related issues                                       |
|------|---------|---------------|---------|--------|----------|--------------------------------------------------------------------------------------------------------------------------|----------|---------------------|------------------------------------------------------|
| 3638 | OsmoBSC | Handover      | Feature | New    | Low      | handover decision 2: load balancing across BSS                                                                           |          | 10/16/2018 01:16 PM | Related to #3638, Related to #3638, Related to #3638 |
| 3484 | OsmoBSC | Handover      | Feature | New    | Low      | handover decision: if rxlev is ok but rxqual is bad, move to different timeslot with same TCH kind to avoid interference |          | 10/16/2018 01:30 PM |                                                      |
| 3483 | OsmoBSC | Handover      | Feature | New    | Normal   | handover decision: if rxlev is ok but rxqual is bad, move from TCH/H to TCH/F                                            | neels    | 10/16/2018 01:53 PM | Related to #3483                                     |
| 3586 | OsmoBSC |               | Feature | New    | Normal   | support LCLS for inter-BSC handover                                                                                      | neels    | 01/17/2019 04:18 PM | Related to #3586, Related to #3659                   |
| 3814 | OsmoBSC | ip.access BTS | Bug     | New    | Normal   | MS Power Control Problem with Osmo-BSC and nanoBTS                                                                       |          | 02/24/2019 01:15 AM |                                                      |
| 3872 | OsmoBSC |               | Feature | New    | Normal   | osmo_scu_prim.conn_id should be picked from a distinct number space for outgoing and incoming N-CONNECT                  | osmith   | 03/28/2019 08:06 PM | Blocks #3872                                         |
| 3737 | OsmoBSC |               | Bug     | New    | Low      | abort because unused lchan has non-null conn pointer, after AMR config error                                             |          | 05/08/2019 03:35 PM |                                                      |

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