

## Issues

| #    | Project  | Tracker | Status      | Priority | Subject  | Assignee  | Updated             | Related issues                     |
|------|--|---------|-------------|----------|--|-----------|---------------------|------------------------------------|
| 6437 | libosmocore                                    | Bug     | Feedback    | Normal   | osmo_io_ops segmentation_cb missing parameter holding state  | pespin    | 04/19/2024 10:17 AM |                                    |
| 6436 | OsmoPCU  | Bug     | New         | High     | high cpu usage, entire BTS unresponsive after some hours   | keith     | 04/13/2024 04:32 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 |                                    |
| 6434 | E1/T1 Hardware Interface (including icE1usb)   | Support | New         | Normal   | D-channel do not recover after underrun  |           | 04/07/2024 09:07 AM |                                    |
| 6433 | OsmoHNBGW                                      | Bug     | New         | Normal   | DLGLOBAL ERROR counter group 'hnb' already exists for index 0, instead using index 1. This is a software bug that needs fixing. (rate_ctr.c:221) |           | 04/04/2024 11:11 PM |                                    |
| 6431 | OsmoHNBGW                                      | Bug     | New         | Normal   | (coverity) uninitialized asn.1 state / overwriting asn.1 state in HNBAP  | neels     | 04/04/2024 11:08 PM |                                    |
| 6427 | OsmoMSC  | Bug     | New         | Normal   | ttcn3-msc-test: TC_mo_ussd_for_unknown_trans fails sporadically  |           | 04/02/2024 03:01 PM | Related to #6427                   |
| 6426 | OsmoMSC  | Bug     | Feedback    | Normal   | ttcn3-msc-test: TC_mm_id_resp_no_identity fails sporadically   | fixeria   | 04/03/2024 06:49 PM | Related to #6426, Related to #6427 |
| 6424 | OsmoMGW  | Bug     | In Progress | High     | TC_one_crcx_loopback_rtp_implicit consistently failing in master, but passes on latest   | neels     | 03/27/2024 08:17 PM |                                    |
| 6422 | OsmoBSC  | Bug     | Feedback    | Normal   | latest: BSC_Tests.TC_ctrl_location started fo fail on March 15th   | fixeria   | 04/02/2024 06:56 PM |                                    |
| 6420 | OsmoGGSN (former OpenGGSN)                     | Bug     | New         | Low      | osmo-ggsn + pre-configured tun device seems to be broken with kernel gtp-u   |           | 03/26/2024 11:43 AM |                                    |
| 6419 | OsmoGGSN (former OpenGGSN)                     | Bug     | New         | Low      | osmo-ggsn removes tun devices it did not create  |           | 03/26/2024 11:26 AM |                                    |
| 6418 | pySim  | Bug     | New         | Normal   | osmo-smdpp docs  |           | 03/25/2024 05:54 PM |                                    |
| 6417 | E1/T1 Hardware Interface (including icE1usb)   | Feature | New         | Normal   | CRC4 configuration   |           | 03/22/2024 09:02 PM |                                    |
| 6416 | E1/T1 Hardware Interface (including icE1usb)   | Support | Feedback    | Normal   | Serial debug tty port speed  | pfassberg | 03/22/2024 06:52 PM |                                    |
| 6415 | E1/T1 Hardware Interface (including icE1usb)   | Bug     | New         | Low      | osmo_panic after truncated packet  | laforge   | 03/22/2024 06:54 PM |                                    |
| 6413 | rtl-sdr  | Bug     | New         | Normal   | Incorrect Debian/Debian-like binary packages   | steve-m   | 03/22/2024 05:09 PM |                                    |
| 6412 | E1/T1 Hardware Interface (including icE1usb)   | Support | New         | Normal   | No alignment   | tnt       | 03/27/2024 01:46 PM |                                    |
| 6411 | Cellular Network Infrastructure                | Bug     | Stalled     | Normal   | ttcn3: execute testsuites with a more realistic link performance   |           | 04/03/2024 06:25 PM |                                    |
| 6410 | libosmocore                                    | Bug     | New         | Normal   | osmo_io poll backend doesn't work on file descriptors that are not sockets   |           | 03/19/2024 07:33 PM |                                    |

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| 6408 | osmo-ePDG - VoWifi Evolved Packet Data Gateway         | Feature | New         | Normal   | osmo-epdg: Support check IMEI   |          | 03/15/2024 06:45 PM |                  |
| 6407 | osmo-ePDG - VoWifi Evolved Packet Data Gateway         | Feature | New         | Normal   | osmo-epdg: Support Emergency services (no IMSI)                           |          | 03/15/2024 06:43 PM |                  |
| 6402 | libosmocore  | Feature | New         | Low      | consider using IORING_RECVSEND_POLL_FIRST for our socket-reads            |          | 03/14/2024 08:21 AM |                  |
| 6401 | libosmocore  | Feature | New         | Low      | benchmark batching io_uring operations                                    |          | 03/14/2024 08:10 AM |                  |
| 6398 | pySim  | Bug     | New         | Normal   | Add helper for SwMatchError   |          | 03/09/2024 09:34 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 |                  |
| 6395 | OsmoHNBGW  | Feature | New         | Low      | PFCP URR support in osmo-hnbgw  |          | 03/22/2024 08:08 AM | Related to #6395 |
| 6394 | OsmoUPF  | Feature | Stalled     | Low      | Basic URR (Usage Reporting Rule) support for tunnel mapping               |          | 03/22/2024 08:08 AM | Related to #6395 |
| 6393 | libosmocore  | Bug     | New         | Normal   | osmo_io conflating osmo_iofd_unregister vs osmo_iofd_close                | daniel   | 03/07/2024 09:47 AM |                  |
| 6392 | Osmocom Conferences (OsmoDevCon, OsmoCon, OsmoDevCall) | Feature | New         | Normal   | video recording / c3voc at OsmoDevCon 2024                                | laforge  | 03/06/2024 12:08 PM |                  |
| 6390 | libosmocore  | Feature | New         | Low      | port CTRL over to osmo_io / io_uring                                      |          | 03/02/2024 06:45 PM | Related to #6390 |
| 6389 | libosmocore  | Feature | New         | Low      | port VTY over to osmo_io / io_uring                                       |          | 03/02/2024 04:55 PM | Related to #6389 |
| 6388 | libosmocore  | Feature | New         | Normal   | stats_reporter via osmo_io / io_uring?                                    |          | 03/02/2024 04:54 PM | Related to #6388 |
| 6387 | OsmoMGW  | Feature | In Progress | Normal   | osmo_io / io_uring support for RTP/RTCP                                   | laforge  | 03/26/2024 06:45 PM | Related to #6387 |
| 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 |                  |
| 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 |                  |
| 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 |                  |
| 6380 | OsmoHNBGW  | Bug     | New         | Normal   | VTY transcript tests are broken [again]                                   |          | 02/28/2024 06:57 PM |                  |
| 6378 | OsmoBSC  | Bug     | New         | Low      | Ericsson DUG 20 rejects SI2quarter  | keith    | 03/10/2024 06:38 PM | Related to #6378 |
| 6377 | erlang/osmo_ss7  | Bug     | Feedback    | Normal   | ipa: Failure decoding ipa frames split between several tcp packets        | pespin   | 02/28/2024 03:00 PM |                  |
| 6374 | libosmocore  | Bug     | New         | Normal   | libosmocore --disable-libsctp not tested by jenkins                       |          | 02/23/2024 03:47 PM |                  |
| 6372 | OsmocomBB SDR PHY                                      | Bug     | New         | Normal   | Cant connect to BS using cell_log and mobile                              |          | 02/22/2024 07:13 AM |                  |
| 6370 | osmo-ePDG - VoWifi Evolved Packet Data Gateway         | Bug     | In Progress | Normal   | setup ims with kamailio   | lynxis   | 03/14/2024 09:01 PM |                  |
| 6367 | pySim  | Feature | New         | Normal   | PC/SC <-> Android OMAPI bridge for pySim and others                       |          | 02/17/2024 01:34 PM |                  |

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|------|--|---------|-------------|----------|--|-----------|---------------------|------------------------------------|
| 6366 | osmo-ePDG - VoWifi Evolved Packet Data Gateway | Bug     | New         | Normal   | strongswan: test if gsup_client will resend old requests on reconnect                        | lynxis    | 02/18/2024 09:16 PM | Related to #6366                   |
| 6365 | osmo-ePDG - VoWifi Evolved Packet Data Gateway | Bug     | New         | Normal   | strongswan: get the PDP type out of the IKE_AUTH/CFG_REQUEST                                 | lynxis    | 02/23/2024 03:29 AM |                                    |
| 6364 | osmo-ePDG - VoWifi Evolved Packet Data Gateway | Bug     | In Progress | Normal   | strongswan: gsup: remove single request limitation   | lynxis    | 02/20/2024 05:59 PM | Related to #6366                   |
| 6363 | osmo-ePDG - VoWifi Evolved Packet Data Gateway | Bug     | New         | Normal   | strongswan: Catch IKEv2 disconnects  | lynxis    | 02/17/2024 01:21 AM |                                    |
| 6361 | osmo-ePDG - VoWifi Evolved Packet Data Gateway | Bug     | Feedback    | Normal   | open5gs-upfd: Fix open5gs package assigning 1st IP address of the UE pool to the ogstun      | pespin    | 04/15/2024 12:49 PM | Related to #6361                   |
| 6360 | libosmocore                                    | Bug     | New         | Normal   | libosmovty fails to parse commands like "test (foo bar) [(one two three)]"                   |           | 02/14/2024 09:25 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 |                                    |
| 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 |                                    |
| 6352 | Cellular Network Infrastructure                | Bug     | Stalled     | Low      | ttn3-bts-test[-latest] is broken since Feb 1st / docker and multicast                        | osmith    | 03/06/2024 03:57 PM |                                    |
| 6349 | Cellular Network Infrastructure                | Bug     | Feedback    | Normal   | example configs missing in release tarballs  | fixeria   | 01/29/2024 04:04 PM |                                    |
| 6348 | OsmocomBB                                      | Feature | New         | Normal   | virtphy: add Circuit Switched Data (CSD) support   |           | 01/26/2024 10:03 PM | Related to #6348                   |
| 6347 | OsmocomBB                                      | Feature | New         | Normal   | mobile: support data calls @ 300 bps and 1200/75 bps (TCH/[FH]2.4)                           |           | 01/26/2024 09:54 PM | Related to #6347                   |
| 6346 | OsmocomBB                                      | Feature | New         | Normal   | mobile: support data calls @ 14400 bps (TCH/F14.4)   |           | 01/26/2024 10:03 PM | Related to #6346, Related to #6346 |
| 6345 | osmo-ePDG - VoWifi Evolved Packet Data Gateway | Feature | New         | Low      | osmo-epdg: Implement SWm interface (Diameter) ePDG <-> AAA                                   |           | 01/25/2024 05:22 PM |                                    |
| 6344 | libosmocore                                    | Feature | New         | Normal   | New TS 24.008 Bearer Capability codec API  |           | 01/24/2024 11:19 PM | Related to #6344                   |
| 6342 | OsmocomBB                                      | Bug     | Feedback    | Normal   | ms-sdr gprs performance  | Hoernchen | 02/05/2024 05:00 PM | Related to #6342                   |
| 6340 | pySim  | Bug     | New         | Low      | exception when using osmo-smdpp with python 3.9  | laforge   | 02/15/2024 09:29 PM |                                    |
| 6338 | OsmocomBB                                      | Bug     | Feedback    | Normal   | ms-sdr gprs startup issues   | Hoernchen | 01/24/2024 03:58 PM |                                    |
| 6337 | OsmocomBB                                      | Bug     | New         | High     | bad fr audio with gapk/ms-sdr  |           | 01/22/2024 09:21 PM | Related to #6337                   |

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|------|--|---------|----------|----------|---|----------|---------------------|--|
| 6332 | osmo-ePDG - VoWifi Evolved Packet Data Gateway         | Feature | New      | Normal   | osmo-epdg: Write User Manual  |          | 01/18/2024 04:15 PM | Related to #6332                                 |
| 6330 | OsmoMSC  | Bug     | New      | Normal   | Incorrect handling of V.120 data calls  |          | 01/18/2024 03:02 PM | Related to #6344                                 |
| 6329 | rtl-sdr  | Bug     | New      | Normal   | rtl_sdr does not have correct rpath set on OSX build  |          | 01/12/2024 09:57 PM |  |
| 6328 | OsmoBSC  | Bug     | New      | Normal   | Channel Mode Modify fails to modify the RTP payload type number   |          | 01/12/2024 06:24 AM | Related to #6328                                 |
| 6327 | Cellular Network Infrastructure                        | Feature | New      | Low      | Osmocom-build-tags-against-master job builds very basic configurations  | osmith   | 01/11/2024 08:17 PM |  |
| 6324 | OsmoBSC  | Bug     | New      | Normal   | Making a data call results in BORKEN lchans   | osmith   | 01/05/2024 09:04 PM |  |
| 6323 | OP25   | Bug     | New      | Normal   | Install script is broken on Ubuntu 23.10  |          | 01/05/2024 07:54 PM |  |
| 6322 | pySim  | Bug     | New      | Low      | ATR type annotation   |          | 01/03/2024 09:55 PM |  |
| 6321 | OsmoMSC  | Bug     | New      | Low      | SMS not delivered from corrupted SMS database   |          | 01/02/2024 01:07 PM |  |
| 6319 | Osmo-CC  | Feature | New      | Normal   | protocol version should have a defined end marker   | neels    | 01/10/2024 01:31 PM |  |
| 6318 | OsmoBSC  | Bug     | Feedback | Normal   | Show lchan shows wrong number of channels for TCH   | neels    | 12/25/2023 01:01 AM |  |
| 6317 | pySim  | Bug     | Stalled  | Normal   | data driven tests for TLV decoders  | laforge  | 02/15/2024 09:21 PM |  |
| 6316 | pySim  | Feature | New      | Normal   | include test data in user manual  |          | 12/23/2023 03:10 PM |  |
| 6315 | pySim  | Feature | New      | Low      | have test data for all supported files  |          | 12/23/2023 09:36 AM |  |
| 6314 | pySim  | Bug     | New      | Low      | pySim-trace doesn't support ARA-M   |          | 12/23/2023 09:36 AM |  |
| 6312 | OsmoHLR  | Bug     | New      | Normal   | Querying HLR for MSISDN-to-IMSI mapping is too cumbersome and inefficient   |          | 12/21/2023 06:52 AM | Related to #6312                                 |
| 6303 | OsmoPCU  | Feature | New      | Low      | Convert pcuif to TLV to make backwards compatibility more feasible  |          | 02/15/2024 09:23 PM |  |
| 6298 | OsmoGGSN (former OpenGGSN)                             | Feature | New      | Normal   | osmo-ggsn not providing MTU of the GTP tunnel to the MS   |          | 02/15/2024 10:30 PM | Related to #6298                                 |
| 6297 | OsmoMGW  | Bug     | New      | Normal   | octet-align=0 is the RFC 6871 specified default to use when omitted; but osmo-mgw assumes don't-care when omitted                       |          | 12/12/2023 02:12 AM | Is duplicate of #5726                            |
| 6295 | OsmoSGSN   | Bug     | New      | Normal   | TMSI realloc complete leads to SecurityModeReject   | osmith   | 12/07/2023 03:15 PM |  |
| 6294 | OsmoSGSN   | Feature | New      | High     | Support GN/Gp interoperation procedures between SGSN and MME  | daniel   | 04/19/2024 10:57 AM | Related to #6294                                 |
| 6293 | OsmoMGW  | Bug     | New      | Normal   | osmo-mgw "decides" for a codec during MGCP handling; instead it should handle all configured payload type numbers as they arrive in RTP |          | 12/07/2023 05:52 AM | Related to #6293, Related to #6293, Blocks #6136 |
| 6291 | Osmocom Conferences (OsmoDevCon, OsmoCon, OsmoDevCall) | Bug     | New      | Normal   | 2024 event bringing together FOSS projects related to mobile communications   | laforge  | 12/13/2023 08:54 PM |  |

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| 6290 | Osmocom Conferences (OsmoDevCon, OsmoCon, OsmoDevCall) | Feature | In Progress | High     | Organize OsmoDevCon 2024   | laforge  | 03/06/2024 12:06 PM |                  |
| 6285 | OsmoHNBGW  | Feature | New         | Low      | IUFP needs not CRCX in loopback mode   |          | 12/04/2023 03:58 AM |                  |
| 6283 | OsmoHNBGW  | Bug     | New         | Normal   | cnpool: hnbgw fails to extract Mobile Identity from some GMM Attach Request messages |          | 12/04/2023 01:48 AM |                  |
| 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 |
| 6274 | OCTOI - Osmocom Community TDM over IP                  | Bug     | New         | Low      | yate is eating 260% CPU while doing nothing  | laforge  | 11/25/2023 02:31 PM |                  |
| 6273 | Core testing infrastructure                            | Bug     | Feedback    | Normal   | TTCN3 tests keep suffering from race conditions on shutdown                          | daniel   | 12/05/2023 03:29 PM |                  |
| 6270 | OsmoBTS  | Bug     | In Progress | Normal   | osmo-bts sends version report every 5s to BSC?                                       | dexter   | 02/19/2024 03:06 PM |                  |
| 6265 | pySim  | Feature | New         | Normal   | decode numeric SW in case of errors  | dexter   | 12/11/2023 01:01 PM |                  |
| 6263 | libosmocore  | Bug     | In Progress | Low      | impossible to detect wrong callbacks being registered / osmo_io_ops union            | daniel   | 11/21/2023 09:21 AM |                  |
| 6258 | OsmoMSC  | Feature | In Progress | Normal   | if MT call leg does not support the assigned codec, re-assign to a compatible codec  |          | 01/12/2024 06:26 AM | Related to #6328 |
| 6255 | OsmoDia2GSUP   | Bug     | New         | Normal   | Implement 3GPP Purge UE Request  |          | 11/10/2023 01:29 PM |                  |
| 6254 | OsmoDia2GSUP   | Bug     | In Progress | Normal   | Reconnects of the ttcn3 aren't handled   | lynxis   | 11/11/2023 05:13 PM |                  |
| 6249 | libosmocore  | Bug     | In Progress | Low      | logging: ANSI color sequences should be reset after log message                      | manawyrm | 12/04/2023 07:00 AM | Related to #6284 |
| 6246 | OCTOI - Osmocom Community TDM over IP                  | Feature | New         | Low      | co-locate cisco 2811 for FrameRelay and X.25   | laforge  | 11/06/2023 01:48 PM |                  |
| 6245 | OCTOI - Osmocom Community TDM over IP                  | Feature | New         | Low      | co-locate cisco 2811 ITP/STP in data center  | laforge  | 11/06/2023 01:46 PM |                  |
| 6244 | Retronetworking  | Feature | New         | Low      | scan more/all EWS(O) documentation laforge has                                       | laforge  | 11/01/2023 09:50 PM |                  |
| 6243 | Cellular Network Infrastructure                        | Feature | New         | Low      | vty cfg: make changing startup defaults of applications backwards compatible         |          | 11/01/2023 07:06 PM |                  |
| 6242 | Core testing infrastructure                            | Feature | New         | Normal   | Test eUPF against ttcn3-upf-test setup   |          | 12/18/2023 11:33 AM |                  |
| 6241 | libosmo-sccp + libosmo-sigtran                         | Feature | New         | Low      | M3UA "Network Appearance" support  |          | 10/31/2023 03:00 PM | Related to #6241 |
| 6240 | libosmo-sccp + libosmo-sigtran                         | Bug     | Feedback    | Normal   | libosmo-sigtran doesn't reject M3UA with "M3UA Network Appearance"                   | daniel   | 10/31/2023 02:56 PM | Related to #6241 |
| 6239 | libosmo-sccp + libosmo-sigtran                         | Feature | New         | Normal   | finally deprecate libosmo-sccp (headers, static lib)                                 |          | 10/31/2023 07:31 PM |                  |
| 6237 | Retronetworking  | Feature | New         | Low      | Design + Build PCBA for NE555 based fake fan rpm sensor                              | laforge  | 10/30/2023 01:38 AM |                  |

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| 6233 | libosmocore                     | Bug     | Feedback    | Normal   | --enable-embedded build fails if pkg-config can't find some of the (disabled) dependencies                              | Hoernchen | 11/24/2023 04:15 PM |                               |
| 6232 | libosmocore                     | Bug     | New         | Normal   | jenkins should give all libosmocore config options a try  | osmith    | 10/22/2023 04:16 PM |                               |
| 6231 | OsmoTRX                         | Feature | New         | Normal   | add support / calibration values for AntSDR E200  | roh       | 10/21/2023 03:25 PM |                               |
| 6225 | rtl-sdr                         | Bug     | New         | Normal   | rtl-sdr reelase tarballs missing from <a href="https://ftp.osmocom.org/releases/">https://ftp.osmocom.org/releases/</a> | osmith    | 10/19/2023 09:46 AM |                               |
| 6224 | Retronetworking                 | Feature | Feedback    | Normal   | how to document the rescued EWSD  |           | 10/18/2023 04:51 PM |                               |
| 6223 | OsmoGGSN (former OpenGGSN)      | Feature | In Progress | High     | TTCN3 unit test[s] for GTPv1U with extension headers  | osmith    | 01/31/2024 08:19 PM | Related to #6223              |
| 6219 | Retronetworking                 | Feature | New         | Normal   | Publish pics/videos for EWSD rescue/move  | laforge   | 10/17/2023 02:10 PM |                               |
| 6218 | Retronetworking                 | Feature | New         | Normal   | write article/report on EWSD rescue for IGHFT / Fernmeldemuseum Dresden   | laforge   | 10/17/2023 02:11 PM |                               |
| 6217 | OsmoMSC                         | Bug     | Feedback    | Normal   | Bearer Capability mismatch in MT SETUP  | neels     | 10/10/2023 10:17 PM |                               |
| 6215 | Cellular Network Infrastructure | Bug     | New         | Normal   | Rebase open5gs pcr_simple patches and submit upstream   | lynxis    | 10/18/2023 02:53 PM |                               |
| 6212 | Linux Kernel GTP-U              | Bug     | In Progress | Normal   | GTP extension headers   | pespin    | 10/18/2023 03:03 PM | Related to #6223              |
| 6211 | pySim                           | Feature | In Progress | Low      | decode security attributes _compact_ in human-readable way, like we decode EF.ARR                                       | dexter    | 12/15/2023 07:22 AM | Related to #6211              |
| 6207 | OsmoMSC                         | Bug     | Feedback    | Low      | "MO SMS without prior CM Service Request" for every SMS in 4G   | dexter    | 02/13/2024 12:26 AM | Related to #6358              |
| 6201 | OsmocomBB                       | Bug     | New         | Normal   | modem: signal proper MS Radio Access Capability   |           | 10/04/2023 12:34 PM | Related to #6201              |
| 6200 | OsmocomBB                       | Bug     | New         | High     | osmo-trx-ms: lots of @Received bad frame (rc=-1, ber=444/444)@  | Hoernchen | 10/05/2023 06:02 PM | Related to #6342,Blocks #6200 |
| 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              |
| 6197 | OsmoSGSN                        | Bug     | Feedback    | Low      | "Cannot handle SM for unknown MM CTX"   | fixeria   | 03/10/2024 06:23 PM |                               |
| 6196 | OsmoMGW                         | Bug     | New         | Normal   | Codec negotiation failure false positives   | dexter    | 12/07/2023 06:25 AM | Related to #6293              |
| 6195 | Retronetworking                 | Feature | New         | Low      | Wiki page on Cisco *WIC-* line cards for 26xx/28xx series   | laforge   | 10/08/2023 07:33 AM |                               |
| 6194 | Retronetworking                 | Feature | New         | Low      | wiki page on MultiTech MT5600-BL  | laforge   | 09/27/2023 12:46 PM |                               |
| 6193 | Retronetworking                 | Support | New         | Low      | Replace "event rack" PM3 power supply   | laforge   | 09/27/2023 12:19 PM |                               |
| 6192 | OP25                            | Bug     | New         | Normal   | Unable to host behind NGINX reverse proxy   | max       | 09/27/2023 01:56 AM |                               |
| 6188 | Cellular Network Infrastructure | Bug     | New         | Normal   | Osmocom manuals have "draft" in debian packages of released versions  | osmith    | 09/21/2023 04:37 PM |                               |
| 6185 | Core testing infrastructure     | Bug     | New         | Normal   | Submit titan.ProtocolEmulations.SCCP patch upstream   | neels     | 09/20/2023 06:22 PM |                               |
| 6181 | SIMtrace 2                      | Bug     | Feedback    | Normal   | Unexpected INS code with simtrace2-sniff: 0x7f  | v.marinos | 10/18/2023 09:41 PM |                               |
| 6176 | OsmoSGSN                        | Bug     | New         | Low      | build failure (dependency / concurrency issue)  |           | 09/13/2023 03:14 PM |                               |

| #    | Project                         | Tracker | Status      | Priority | Subject  | Assignee  | Updated             | Related issues                                 |
|------|---------------------------------|---------|-------------|----------|--|-----------|---------------------|--|
| 6171 | OsmoMGW                         | Feature | In Progress | Normal   | mgcp-client API: there should be a separate mgcp_codec_param for each codec in mgcp_msg.codecs[] | dexter    | 11/01/2023 04:15 PM | Related to #6171                               |
| 6169 | osmo-e1d                        | Bug     | New         | High     | Frame masking against network frame ordering, not frame numbers                                  | laforge   | 10/18/2023 03:19 PM |  |
| 6167 | OsmoBTS                         | Feature | New         | Low      | csd_v110: implement rate adaptation for TCH/F14.4  |           | 09/01/2023 11:58 AM | Related to #6167,Related to #6346              |
| 6162 | libosmocore                     | Bug     | Feedback    | Normal   | master build failure with clang-16   | Hoernchen | 11/18/2023 09:17 AM |  |
| 6159 | OsmoBSC                         | Bug     | New         | Normal   | use paging queue for PAGING messages that come from the BSC co-located PCU                       | dexter    | 08/30/2023 12:39 PM |  |
| 6158 | OsmoHNBGW                       | Bug     | New         | Normal   | IMSI not shown in "show ue all"  | lynxis    | 08/29/2023 03:11 PM |  |
| 6155 | OsmoDia2GSUP                    | Bug     | Feedback    | Normal   | osmo_dia2gsup not setting Origin-State-Id Diameter AVP during Device-Watchdog-{Req,Answer}       | lynxis    | 11/11/2023 06:19 PM |  |
| 6153 | OsmoHNodeB                      | Support | Feedback    | Normal   | List of supported FemtoCell  | Kira      | 08/28/2023 02:24 PM |  |
| 6152 | OsmoMSC                         | Bug     | In Progress | Normal   | built-in MNCC: forward the @Low layer compatibility I@ IE to the called subscriber               | jolly     | 12/20/2023 12:52 PM | Related to #6152                               |
| 6151 | OsmoMSC                         | Feature | Feedback    | Normal   | osmo-msc: Ability to configure (VTY) the AMR(-WB) formats used in RAB-Assignment-Req             | neels     | 08/30/2023 08:16 PM |  |
| 6150 | OsmoPCU                         | Feature | New         | Normal   | PCUIF: Use unique identifiers instead of the TLLI as msg_id.                                     | dexter    | 10/24/2023 03:15 PM |  |
| 6149 | OsmoGSMTester                   | Bug     | New         | Normal   | osmo-gsm-tester gerrit verifications currently broken, not running in docker                     | osmith    | 08/25/2023 09:13 AM |  |
| 6148 | OsmoDia2GSUP                    | Bug     | New         | Normal   | config file not installed not used by systemd service in debian                                  | pespin    | 10/18/2023 03:21 PM |  |
| 6139 | OsmoSGSN                        | Feature | New         | Normal   | test mobility between GERAN (OsmoPCU) and EUTRAN (Open5GS) end to end on real hardware           | dexter    | 04/02/2024 09:38 AM |  |
| 6137 | OsmoHNBGW                       | Feature | New         | Normal   | ip.access Nano3G   | lynxis    | 10/21/2023 07:24 PM |  |
| 6136 | OsmoMGW                         | Feature | Stalled     | Normal   | libosmo-mgcp-client should ignore unknown codecs in SDP  | jolly     | 12/07/2023 06:27 AM | Related to #6136,Related to #6177,Blocks #6136 |
| 6135 | OsmoHLR                         | Feature | Stalled     | Normal   | Implement routing of SMS-over-GSUP messages between connected MSC/VLRs and SMSCs                 | falconia  | 01/09/2024 01:11 PM | Related to #6312                               |
| 6132 | OsmocomBB                       | Feature | New         | Normal   | Add MS_GPRS_Tests to osmo-ttcn3-hacks  | fixeria   | 10/04/2023 10:29 PM | Related to #6132                               |
| 6129 | Miscellaneous Projects          | Bug     | New         | Normal   | Discourse: Setting a custom avatar via upload fails  |           | 08/02/2023 06:07 PM |  |
| 6127 | OsmoHNBGW                       | Feature | Feedback    | Normal   | Submit RAB Modification Req towards HNB to update its peer luUP address if MGW changed it        | pespin    | 11/29/2023 06:45 PM |  |
| 6126 | OsmoGSMTester                   | Bug     | New         | Normal   | osmo-gsm-tester docker container uses debian 10  |           | 08/01/2023 09:49 AM | Related to #6126                               |
| 6125 | OsmocomBB                       | Bug     | New         | Normal   | LLC GIA/GEA (auth/encryption) not yet tested   | pespin    | 08/28/2023 10:32 PM |  |
| 6122 | Cellular Network Infrastructure | Bug     | New         | Low      | remove big endian support  | osmith    | 10/18/2023 05:20 PM | Related to #6122                               |

| #    | Project  | Tracker | Status      | Priority | Subject   | Assignee | Updated             | Related issues  |
|------|--|---------|-------------|----------|---|----------|---------------------|---|
| 6120 | pySim  | Bug     | New         | Low      | select MF raise an exception after selecting ADF.ARA-M                                | dexter   | 12/18/2023 10:30 AM | Related to #6120  |
| 6119 | pySim  | Bug     | In Progress | Normal   | aram_get_config runs into an exception on a sismocomSJA2                              | laforge  | 12/05/2023 05:26 PM |   |
| 6118 | OsmoPCU  | Bug     | New         | Normal   | osmo-pcu assigns multi-slot TBFs over PACCH to MS with unknwon ms_class               | pespin   | 09/22/2023 02:33 PM |   |
| 6115 | OsmocomBB                                      | Feature | Feedback    | Normal   | modem: MTU not set properly on tun iface  | pespin   | 12/08/2023 05:48 PM | Related to #6115,Related to #6298                               |
| 6106 | OsmoGGSN (former OpenGGSN)                     | Bug     | New         | Normal   | OsmoGGSN attempts to use the same GTP-U socket for all APNs with gtpu-mode kernel-gtp |          | 02/21/2024 10:31 AM | Related to #6106,Related to #6106                               |
| 6104 | pySim  | Feature | New         | Low      | reduce number of python dependencies  |          | 07/20/2023 04:28 PM |   |
| 6103 | Linux Kernel GTP-U                             | Feature | Feedback    | Normal   | move from 1:1 relationship of UDP socket and net-device to a N:M relationship         | pablo    | 10/06/2023 10:49 AM | Related to #6106  |
| 6096 | OsmoGGSN (former OpenGGSN)                     | Feature | In Progress | Urgent   | add support for kernel-GTP IPv6   | osmith   | 03/25/2024 12:10 PM | Related to #6096,Related to #6106,Related to #6096,Blocks #6096 |
| 6092 | pySim  | Feature | New         | Low      | "export" suport for ARA-M   | dexter   | 10/31/2023 06:40 PM |   |
| 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 |   |
| 6089 | pySim  | Feature | Feedback    | Normal   | log the current file / operation during execeution of a script                        | laforge  | 11/27/2023 04:37 PM |   |
| 6086 | pySim  | Feature | New         | Low      | implement features of sysmo-{usim,ism}-tool   | laforge  | 07/13/2023 04:09 AM |   |
| 6085 | OsmoHNBGW                                      | Feature | New         | Low      | context_map_sccp.c parrots states/events that the SCCP-SCOC FSM already handles       | neels    | 10/18/2023 03:31 PM |   |
| 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 |   |
| 6060 | OsmoMGW  | Bug     | New         | Low      | osmo-mgw: Implement MGCP RestartInProgress (RSIP)                                     | jolly    | 10/18/2023 04:59 PM |   |
| 6059 | OsmoBSC  | Bug     | New         | Normal   | negotiate GSM-HR RTP packet format explicitly   | dexter   | 06/13/2023 10:38 AM |   |
| 6051 | OsmoHNBGW                                      | Feature | New         | Low      | misnomer in internal SCCP functions   | neels    | 07/06/2023 08:26 PM |   |
| 6045 | osmo-ePDG - VoWifi Evolved Packet Data Gateway | Bug     | Feedback    | Normal   | report erlang diameter problems to the diameter compiler repo.                        | pespin   | 03/07/2024 04:16 PM |   |
| 6036 | OsmoBTS  | Feature | New         | Normal   | Implement ternary SID classification for HR1 uplink                                   |          | 05/17/2023 09:48 PM | Related to #6036,Related to #6036                               |
| 6032 | rtl-sdr  | Bug     | New         | Normal   | Poor APRS demodulation using RTL_FM on RaspberryPI or on old PC                       |          | 05/15/2023 12:14 PM |   |
| 6029 | Core testing infrastructure                    | Bug     | New         | Normal   | Single TTCN3 BSC handover test fails  |          | 10/18/2023 05:31 PM |   |



| #    | Project                         | Tracker | Status      | Priority | Subject  | Assignee  | Updated             | Related issues   |
|------|---------------------------------|---------|-------------|----------|--|-----------|---------------------|------------------|
| 6023 | Core testing infrastructure     | Feature | Stalled     | Normal   | test rack/lab power management software with usage/reference counting                                | laforge   | 10/18/2023 05:42 PM |                  |
| 6021 | libosmocore                     | Bug     | New         | Low      | map file breaks recent lld builds  | Hoernchen | 05/04/2023 05:49 AM |                  |
| 6019 | OsmoBSC                         | Bug     | New         | Normal   | "PCU version PCU socket has LOST connection connected"   | fixeria   | 10/18/2023 05:42 PM |                  |
| 6015 | OsmoPCU                         | Bug     | New         | Normal   | osmo-pcu (with ericsson RBS) is unable to keep TRAU frames in sync                                   | dexter    | 12/23/2023 01:12 AM |                  |
| 6012 | rtl-sdr                         | Bug     | New         | Normal   | Update wiki for macos build  | steve-m   | 05/01/2023 02:38 AM |                  |
| 6009 | OsmoMSC                         | Bug     | New         | Normal   | omo-msc: lots of tl_v_parse() calls in src/libmsc/gsm_04_08.c have no return code checked for errors |           | 04/19/2023 03:19 PM |                  |
| 6007 | OsmoBSC                         | Bug     | New         | Normal   | network -> bts -> gprs nsvc will always create a nsvc node   |           | 04/17/2023 04:08 PM |                  |
| 6005 | rtl-sdr                         | Bug     | New         | Normal   | rtl-test and rtl-sdr exit code=-5 when running on Windows 10 WSL and Ubuntu                          | steve-m   | 10/18/2023 05:45 PM |                  |
| 6000 | OsmoMSC                         | Feature | New         | Normal   | Allow emergency calls without IMSI (using IMEI as MI)  |           | 04/12/2023 11:03 AM | Related to #6000 |
| 5995 | OsmoBTS                         | Bug     | New         | Low      | osmo-bts printing log line 'OC=GPRS-NSE(f0) INST=(00,ff,ff): Tx unknown 0xf6'                        |           | 10/18/2023 05:47 PM |                  |
| 5991 | OsmoBSC                         | Bug     | New         | Normal   | Forward TSNS-PROV bsc->[bts->]pcu  | jolly     | 12/17/2023 12:59 PM | Related to #5991 |
| 5986 | OsmoBSC                         | Bug     | New         | Normal   | PAGING impossible until CCCH LOAD IND is received from the BTS                                       | keith     | 03/31/2023 09:13 AM |                  |
| 5985 | Cellular Network Infrastructure | Bug     | New         | Normal   | tests: not all Osmocom projects have @osmoappdesc.py@  |           | 03/29/2023 08:09 PM |                  |
| 5982 | OsmoBSC                         | Bug     | Feedback    | Low      | conn->fi is NULL in gscon_bssmap_clear()   | neels     | 04/11/2023 02:25 PM |                  |
| 5976 | pySim                           | Feature | New         | Low      | pySim-prog: do not program linked files multiple times   | dexter    | 03/27/2023 04:05 PM |                  |
| 5957 | OsmoBTS                         | Bug     | New         | Low      | not all osmo-bts variants respond to abisip-find   | jolly     | 03/22/2023 09:20 AM |                  |
| 5953 | OsmoBTS                         | Bug     | Feedback    | Normal   | ttn3-bts-test: TC_ms_pwr_ctrl_{constant,pf_ewma} are failing   | fixeria   | 03/25/2024 05:19 PM |                  |
| 5952 | OsmoBTS                         | Bug     | New         | Normal   | ttn3-bts-test: TC_ho_physical_info fails   | fixeria   | 11/15/2023 08:23 AM |                  |
| 5947 | Retrocomputing                  | Feature | New         | Low      | Assemble PC104-SVGA  | laforge   | 03/15/2023 09:29 AM |                  |
| 5944 | OsmoBTS                         | Bug     | In Progress | Low      | DTXu + AMR on TCH/H appears to be not usable on osmo-bts-sysmo                                       | keith     | 03/28/2023 03:56 PM |                  |
| 5940 | Retrocomputing                  | Feature | New         | Low      | Assemble LPT_Capture   | laforge   | 03/15/2023 09:06 AM |                  |
| 5939 | Retrocomputing                  | Bug     | In Progress | Low      | Assemble GraphicGremlin / isavideo   | laforge   | 03/15/2023 09:06 AM |                  |
| 5938 | Retrocomputing                  | Feature | In Progress | Normal   | assemble "fake parallel printer"   | laforge   | 09/13/2023 09:32 AM |                  |
| 5936 | Retrocomputing                  | Feature | New         | Low      | Assemble netpi-ide   | laforge   | 03/02/2023 09:25 PM |                  |
| 5934 | Retrocomputing                  | Feature | In Progress | Low      | Assemble Pico-GUS  | laforge   | 03/06/2023 04:25 PM |                  |
| 5933 | Retrocomputing                  | Feature | In Progress | Low      | Assemble XT-CF-Lite v4.1   | laforge   | 03/20/2023 09:54 AM |                  |
| 5932 | Retrocomputing                  | Feature | New         | Low      | assemble ISA-USB   | laforge   | 03/02/2023 09:25 PM |                  |

| #    | Project                               | Tracker | Status      | Priority | Subject   | Assignee | Updated             | Related issues   |
|------|---------------------------------------|---------|-------------|----------|---|----------|---------------------|------------------|
| 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 |                  |
| 5930 | OsmoPCU                               | Feature | New         | Low      | handle multiple BTSs with one PCU   |          | 03/03/2023 10:47 AM |                  |
| 5929 | Cellular Network Infrastructure       | Feature | In Progress | Normal   | document current (milestones of) nlnet funded projects; mention nlnet funding             | laforge  | 04/04/2023 10:05 AM |                  |
| 5922 | rtl-sdr                               | Bug     | New         | Normal   | rtl_sdr bytes_to_read wraparound for n > 2**31  | steve-m  | 03/20/2023 10:16 AM |                  |
| 5921 | SIMtrace 2                            | Bug     | In Progress | High     | simtrace2 cardem vs. Linux kernel USB autosuspend   | laforge  | 09/16/2023 10:47 PM | Related to #5921 |
| 5919 | Core testing infrastructure           | Bug     | New         | Low      | osmo-python-tests: Update/fix README or setup process                                     | osmith   | 03/20/2023 10:17 AM |                  |
| 5918 | osmo-fl2k                             | Bug     | New         | Normal   | -flto broken in release   | steve-m  | 12/20/2023 08:43 PM |                  |
| 5917 | libosmo-sccp + libosmo-sigtran        | Feature | Feedback    | Normal   | immediately detect SCTP SHUTDOWN in SCCP link / in SCCP user / in active SCCP connections | neels    | 03/20/2023 10:23 AM |                  |
| 5915 | libosmocore                           | Bug     | New         | Low      | gprs: ns2: convert timers into osmo-timers  | jolly    | 12/17/2023 12:59 PM | Related to #5915 |
| 5908 | Cellular Network Infrastructure       | Feature | New         | Low      | Cleanup license information throughout the projects                                       |          | 02/16/2023 11:02 AM |                  |
| 5904 | OsmoHNBGW                             | Feature | New         | Normal   | HNBAP Register Request handling does checks that seem to make no sense                    | neels    | 09/01/2023 05:00 AM |                  |
| 5900 | OsmoUPF                               | Feature | In Progress | Normal   | make sure chain ids used in the tunmap nft ruleset are unused                             |          | 02/09/2023 05:34 PM |                  |
| 5899 | libosmo-sccp + libosmo-sigtran        | Bug     | New         | Low      | ttcn3-sccp-test-latest is actually running code from master, not latest                   | osmith   | 03/20/2023 01:18 PM |                  |
| 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     |
| 5895 | OsmoBTS                               | Bug     | New         | Low      | LC15: Audio Quality Problem sometime after cf7a7fceb625a14fd764355c3b96fa86c77458c        |          | 03/20/2023 11:37 PM |                  |
| 5892 | SDR (Software Defined Radio)          | Feature | Stalled     | Low      | design/build ext clock input board for PlutoSDR Rev.B                                     | laforge  | 10/18/2023 05:23 PM |                  |
| 5891 | osmo-remsim                           | Bug     | New         | Normal   | bankd: potential pthread deadlock reported by coverity                                    | laforge  | 02/03/2023 07:35 PM |                  |
| 5889 | OsmoHLR                               | Bug     | In Progress | Normal   | subscriber data: send out correct PDP Info  | lynxis   | 09/01/2023 04:20 PM |                  |
| 5887 | Cellular Network Infrastructure       | Bug     | New         | Low      | coverity: build everything in docker container and add CI                                 | osmith   | 02/01/2023 10:25 AM |                  |
| 5885 | OCTOI - Osmocom Community TDM over IP | Feature | New         | Low      | set up a second GPS03 + icE1usb setup   | laforge  | 01/31/2023 08:05 PM | Related to #5885 |
| 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 |
| 5880 | OsmoSGSN                              | Bug     | In Progress | High     | User Manual sections 11.1.1-2 document non-existing (removed?) VTY commands               | lynxis   | 03/28/2023 02:45 PM |                  |
| 5878 | pySim                                 | Bug     | New         | Normal   | pySim shell: version fails with DistributionNotFound                                      | fixeria  | 10/06/2023 09:03 AM |                  |
| 5876 | OsmoHNBGW                             | Bug     | New         | Normal   | on HNBAP HNB Register, clear previous UE state if any                                     | neels    | 03/20/2023 01:27 PM |                  |
| 5869 | OsmoHNBGW                             | Bug     | New         | Normal   | osmo-hnbgw ignores HNBAP HNB De-Register  |          | 01/21/2023 01:52 AM |                  |

| #    | Project  | Tracker | Status      | Priority | Subject   | Assignee  | Updated             | Related issues   |
|------|--|---------|-------------|----------|---|-----------|---------------------|------------------|
| 5867 | OsmoHNBGW                                      | Feature | New         | Normal   | HNBGW_Tests.ttcn should do HNBAP UE Register and De-Register tests                            |           | 01/21/2023 02:30 AM |                  |
| 5865 | OsmoHLR  | Feature | New         | Low      | Automate selection of LU Reject Cause   |           | 02/16/2023 10:36 AM |                  |
| 5864 | libosmocore                                    | Bug     | New         | Normal   | Libosmocore: Fix order of config parsing output   |           | 02/04/2023 05:21 PM |                  |
| 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 |
| 5859 | OsmoTRX  | Feature | New         | Normal   | remove non-neon and non-sse support   | Hoernchen | 01/16/2023 10:17 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 |
| 5855 | Retronetworking                                | Feature | New         | Normal   | Establishing a German non-profit for retronetworking  | laforge   | 01/13/2023 11:59 AM |                  |
| 5853 | OsmoSGSN                                       | Feature | New         | Normal   | osmo-sgsn: Rework to use libosmo-gprs   |           | 01/11/2023 03:14 PM |                  |
| 5852 | OsmoSGSN                                       | Bug     | New         | Normal   | osmo-sgsn: Keep TLLI<->NSEI+BVCI relation knowledge in BSSGP layer                            |           | 01/11/2023 03:08 PM |                  |
| 5851 | OsmoSGSN                                       | Bug     | New         | Normal   | check if rate ctr GMM_CTR_PKTS_UDATA_IN is correct increased in sgsn_gtp_data_req() func      |           | 01/10/2023 06:40 PM |                  |
| 5850 | SDR (Software Defined Radio)                   | Bug     | New         | Normal   | OBS mingw builds not updated since 2019   | roox      | 01/04/2023 12:15 PM |                  |
| 5844 | OsmoPCU  | Bug     | New         | Normal   | pcu: ns: ip-sns: 2 local binds with a single remote is invalid                                |           | 12/22/2022 09:59 PM |                  |
| 5843 | OsmoBSC  | Bug     | New         | Normal   | BTS features aren't reset after oml drop  |           | 12/22/2022 09:27 PM |                  |
| 5842 | OsmoBSC  | Bug     | New         | Normal   | ipa: investigate NSVC local and remote port configuration difference with wireshark dissector |           | 12/22/2022 07:18 PM |                  |
| 5839 | OsmoGSMTester                                  | Feature | New         | Normal   | Ability to switch off the osmo-trx machine  | pespin    | 12/20/2022 05:43 PM |                  |
| 5838 | OsmoGSMTester                                  | Feature | New         | Normal   | Implement power switching for all BTSs  |           | 12/20/2022 05:30 PM |                  |
| 5837 | OsmoHNBGW                                      | Bug     | New         | Normal   | osmo-juh: UE-REGISTER-REQ with uE_Identity type IMEI not implemented.                         |           | 12/20/2022 03:43 PM |                  |
| 5834 | OsmoPCU  | Feature | New         | Normal   | VTY option "two-phase-access" is misleading   |           | 12/19/2022 06:55 PM |                  |
| 5833 | OsmoPCU  | Feature | New         | Low      | A "meas-feed" for osmo-pcu  | keith     | 12/18/2022 06:42 PM |                  |
| 5831 | OsmocomBB                                      | Bug     | New         | Normal   | SE K2x0i: built-in SIM reader is not working  | steve-m   | 12/16/2022 12:03 AM |                  |
| 5829 | libosmocore                                    | Feature | New         | Low      | log fallback for log_check_level(), log_parse_category()                                      |           | 12/13/2022 10:44 PM |                  |
| 5827 | OsmoPCU  | Feature | New         | Normal   | osmo-pcu: Hardcoded limit of maximum number of 8 TRX per BTS                                  | pespin    | 12/16/2022 11:55 AM |                  |
| 5826 | SIMtrace 2                                     | Feature | Stalled     | Normal   | SAM4S4BA support in firmware  | laforge   | 01/31/2023 08:06 PM | Related to #5826 |
| 5824 | osmo-e1d                                       | Bug     | Feedback    | Normal   | Line dead message in the log after start  | laforge   | 12/25/2023 01:43 PM |                  |
| 5822 | OsmocomBB                                      | Bug     | New         | Normal   | SE K2x0i: missing RF and AFC params   |           | 12/15/2022 11:36 PM |                  |
| 5819 | Cellular Network Infrastructure                | Bug     | New         | Low      | Gerrit/gitiles: Parent links don't work   |           | 12/08/2022 01:28 PM |                  |

| #    | Project                         | Tracker | Status      | Priority | Subject   | Assignee      | Updated             | Related issues                                 |
|------|---------------------------------|---------|-------------|----------|---|---------------|---------------------|--|
| 5818 | libosmocore                     | Bug     | New         | Normal   | multithreaded logging causes lock contention and needs a rework                               |               | 01/10/2024 09:05 AM |  |
| 5816 | OsmoHNBGW                       | Feature | New         | Low      | Picocells available in R.U  |               | 03/09/2024 07:09 PM |  |
| 5815 | OsmocomBB                       | Feature | New         | Low      | mobile: compose Bearer Capability IE depending on PHY capabilities and GAPK codec support     |               | 12/06/2022 07:38 PM | Related to #5815,Related to #5815              |
| 5814 | OsmoUPF                         | Feature | New         | Normal   | tunmap: more concisely match on GTP-U packets   |               | 12/06/2022 07:30 PM |  |
| 5813 | OsmoHNBGW                       | Feature | New         | Low      | Alcatel-Lucent femtocells available in Europe   |               | 03/09/2024 07:09 PM |  |
| 5812 | OsmocomBB                       | Feature | New         | Low      | mobile: missing AMR support   |               | 12/06/2022 03:07 PM | Related to #5812                               |
| 5809 | Cellular Network Infrastructure | Bug     | Feedback    | Normal   | applications disrespect potentially VTY-configured tcp/telnet port                            | osmith        | 10/31/2023 09:34 AM |  |
| 5808 | gr-osmosdr                      | Feature | New         | Normal   | New option, for selecting an input channel of a soapy_source_c                                |               | 12/05/2022 11:45 AM |  |
| 5805 | SIMtrace 2                      | Feature | New         | Normal   | SIM Trace 2 Build for Windows   | jelson_simEng | 04/02/2023 09:56 AM |  |
| 5780 | OsmoMSC                         | Feature | New         | Normal   | Implement/Support UUS1  |               | 01/24/2023 10:48 AM |  |
| 5774 | OsmoBTS                         | Bug     | Feedback    | Normal   | Drop pcu_sock conn if queue length grows up to a given threshold                              | jolly         | 12/17/2023 12:59 PM |  |
| 5773 | OsmoGGSN (former OpenGGSN)      | Bug     | New         | Normal   | OsmoGGSN sends Direct Tunnel packets to the wrong IP address                                  |               | 11/17/2022 04:17 AM |  |
| 5771 | Cellular Network Infrastructure | Feature | New         | Normal   | series of presentations about the individual CNI network elements                             |               | 11/14/2022 07:25 PM |  |
| 5770 | SIMtrace 2                      | Bug     | Feedback    | Normal   | simtrace2 firmware ignores any but the first USB message sent by simtrace2-list after a reset | jtavares      | 11/23/2022 04:01 AM |  |
| 5768 | Retronetworking                 | Feature | New         | Normal   | retronetworking logo / artwork  |               | 04/07/2024 10:40 PM |  |
| 5766 | libosmo-abis                    | Feature | New         | Low      | use Linux kernel KCM for IPA header?  |               | 11/13/2022 08:15 AM | Related to #5766                               |
| 5764 | Cellular Network Infrastructure | Bug     | New         | Normal   | GCC does not check format strings in LOGPFSM macros   |               | 11/11/2022 06:30 AM |  |
| 5762 | Core testing infrastructure     | Feature | New         | Normal   | Develop TTCN-3 test suite for PGW   |               | 11/10/2022 06:38 PM |  |
| 5761 | Core testing infrastructure     | Feature | New         | Normal   | Develop TTCN-3 test suite for SGW   |               | 11/09/2022 09:49 PM |  |
| 5760 | Core testing infrastructure     | Feature | Stalled     | Normal   | Develop TTCN-3 test suite for MME   | dexter        | 10/04/2023 01:51 PM |  |
| 5759 | OsmoSGSN                        | Feature | Stalled     | Normal   | Support for Mobility between SGSN (2G/3G) and S-GW (4G)                                       | dexter        | 12/07/2023 12:40 PM | Related to #5759                               |
| 5758 | OsmoDia2GSUP                    | Feature | New         | Normal   | bring osmo_dia2gsup to production quality   | lynxis        | 03/30/2023 08:13 PM |  |
| 5757 | OsmoDia2GSUP                    | Feature | Feedback    | Normal   | functional test suite for osmo_dia2gsup   | lynxis        | 09/06/2023 02:48 PM |  |
| 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 |
| 5755 | OsmoBSC                         | Feature | In Progress | High     | io_uring support in osmo-bsc  | jolly         | 03/02/2024 08:06 PM | Related to #5755,Related to #6357              |

| #    | Project                                      | Tracker | Status      | Priority | Subject   | Assignee | Updated             | Related issues        |
|------|--|---------|-------------|----------|---|----------|---------------------|-----------------------|
| 5750 | Cellular Network Infrastructure              | Bug     | New         | Normal   | contrib/jenkins.sh: build with -Wunused-macros and -Wundef  |          | 11/08/2022 08:07 PM |                       |
| 5749 | Cellular Network Infrastructure              | Bug     | New         | Normal   | configure.ac: default CFLAGS, LT_INIT adds "-g -O2"   | fixeria  | 01/31/2023 08:12 PM |                       |
| 5746 | Retronetworking                              | Feature | New         | Low      | Create H.221 decoder  |          | 11/07/2022 10:55 PM |                       |
| 5745 | osmo-lab-rack                                | Feature | In Progress | Low      | component carrier Ethernet switch   | laforge  | 02/03/2023 11:29 AM |                       |
| 5744 | OsmoBSC                                      | Bug     | New         | Low      | sysmobts: when a BTS is rf_locked and doesn't support BTS_FEAT_MULTI_TSC the OML connection is dropped  | lynxis   | 11/23/2022 11:14 PM |                       |
| 5740 | OsmoBSC                                      | Feature | New         | Low      | Disallow unworkable AMR modes.  | keith    | 11/08/2022 05:15 PM |                       |
| 5738 | Misc Hardware Projects                       | Bug     | New         | Normal   | Sim 800L module Connectivity  |          | 11/02/2022 06:55 PM |                       |
| 5735 | osmo-e1d                                     | Bug     | New         | Normal   | ctl client disconnect doesn't re-set timeslot state   |          | 05/23/2023 06:19 AM |                       |
| 5731 | gr-osmosdr                                   | Bug     | New         | High     | Install gr-osmosdr on Ubuntu 20.04  |          | 10/27/2022 01:39 PM |                       |
| 5730 | OsmoMGW                                      | Feature | New         | Low      | Fax over GSM support  | manawyrm | 10/16/2023 08:53 PM | Precedes #5730        |
| 5726 | OsmoMGW                                      | Bug     | New         | Normal   | AMR octet-align in SDP: lack of 'octet-align' fmp should imply octet-align=0, and the presence or absence of this fmp should not have an effect |          | 12/12/2023 01:51 AM | Is duplicate of #5726 |
| 5722 | Cellular Network Infrastructure              | Feature | New         | Low      | Migrate jenkins build slaves from docker to podman  |          | 10/21/2022 08:29 PM | Related to #5722      |
| 5721 | OsmoCBC                                      | Feature | New         | Normal   | CBC messages Geographical Scope and CBS Index   |          | 10/19/2022 07:23 AM |                       |
| 5716 | libosmocore                                  | Bug     | New         | Normal   | Replace dynamic (DEAD) NSE if we receive an NS_RESET from a conflicting NSVC  | lynxis   | 10/17/2022 04:40 PM |                       |
| 5714 | pySim  | Bug     | Stalled     | Normal   | update_record_decoded does not use real record length when writing EF.MSISDN  | dexter   | 09/17/2023 09:46 AM |                       |
| 5712 | OsmoBSC                                      | Bug     | New         | Normal   | LCLS FSM; Not possible to get out from NO_LONGER_LS   | dexter   | 10/18/2022 09:03 AM | Related to #5712      |
| 5710 | E1/T1 Hardware Interface (including icE1usb) | Feature | New         | Normal   | rs422: Merge as much of the gateway in master as possible   | tnt      | 10/13/2022 06:53 PM | Related to #5710      |
| 5709 | E1/T1 Hardware Interface (including icE1usb) | Feature | New         | Normal   | rs422: Merge as much of the firmware into master to avoid separate branch   | tnt      | 10/13/2022 06:49 PM | Related to #5709      |
| 5708 | E1/T1 Hardware Interface (including icE1usb) | Bug     | New         | Normal   | rs422: Support runtime re-init of the GPS receiver  | tnt      | 10/13/2022 06:46 PM | Related to #5708      |
| 5699 | OsmoMSC                                      | Bug     | New         | Normal   | MNCC_RTP_CREATE is not sent in a call waiting scenario  |          | 10/10/2022 06:46 PM |                       |
| 5696 | OsmoPCU                                      | Bug     | Stalled     | Normal   | RLC/MAC: poll timeout when assigning a multi-slot DL TBF  | fixeria  | 10/05/2022 11:01 AM |                       |
| 5694 | OCTOI - Osmocom Community TDM over IP        | Bug     | Stalled     | Normal   | BERT testing  | laforge  | 12/31/2022 08:24 PM |                       |
| 5693 | OCTOI - Osmocom Community TDM over IP        | Bug     | Stalled     | Normal   | no progress tones in yate   |          | 12/03/2023 11:10 AM |                       |
| 5692 | Cellular Network Infrastructure              | Feature | New         | Low      | switch to C99 standard flexible arrays instad of gcc-specific zero-length arrays  |          | 09/29/2022 05:59 AM |                       |

| #    | Project                         | Tracker | Status      | Priority  | Subject   | Assignee | Updated             | Related issues                    |
|------|---------------------------------|---------|-------------|-----------|---|----------|---------------------|-----------------------------------|
| 5691 | libosmo-abis                    | Feature | Stalled     | Normal    | Expose DAHDI statistics to prometheus   | laforge  | 01/05/2023 06:06 PM |                                   |
| 5685 | Cellular Network Infrastructure | Bug     | Feedback    | Normal    | Dropping debian 10 (buster)   | osmith   | 04/04/2023 10:10 AM | Related to #5685,Related to #5685 |
| 5683 | Osmocom Libraries               | Bug     | New         | Immediate | How to install osmocom in China   |          | 09/18/2022 10:18 AM |                                   |
| 5682 | OsmoUPF                         | Feature | New         | Low       | cfg: separate PFCP Node ID from PFCP local address                                    |          | 09/17/2022 02:21 PM | Related to #5682                  |
| 5681 | Retronetworking                 | Bug     | New         | Normal    | Figure out suitable connectors for EKSOS  | laforge  | 07/31/2023 10:22 AM |                                   |
| 5679 | libosmo-sccp + libosmo-sigtran  | Feature | In Progress | Normal    | unsupported SCCP user primitive N-PCSTATE.indication                                  | neels    | 02/18/2023 01:46 AM |                                   |
| 5672 | Misc Hardware Projects          | Bug     | New         | Normal    | sfp-experimenter / voltage swing of LVDS driver insufficient for SFP spec             |          | 09/02/2022 03:27 PM |                                   |
| 5669 | Cellular Network Infrastructure | Bug     | New         | Normal    | Test .deb packages built by our OBS   |          | 09/21/2022 01:03 PM | Related to #5669,Related to #5669 |
| 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 |
| 5662 | OsmoUPF                         | Feature | New         | Normal    | add Linux kernel options to manual  |          | 08/24/2022 03:13 PM |                                   |
| 5657 | OsmoDia2GSUP                    | Bug     | Feedback    | Normal    | dia2gsup not (re-)connecting to HLR if osmo-hlr is down                               | lynxis   | 11/11/2023 06:20 PM |                                   |
| 5648 | libosmo-pfcp                    | Feature | New         | Normal    | implement common PFCP CPF client VTY config   |          | 08/17/2022 03:29 PM | Related to #5648                  |
| 5647 | OsmoHNBGW                       | Feature | New         | Normal    | cfg: separate PFCP Node ID from PFCP local address                                    |          | 08/17/2022 03:38 PM | Related to #5648,Related to #5682 |
| 5644 | Osmocom Libraries               | Bug     | New         | Normal    | Check library pkg-config files for proper dependencies                                |          | 08/10/2022 01:02 PM | Related to #5644                  |
| 5641 | OsmoCBC                         | Feature | New         | Normal    | OsmoCBC doesn't yet support reloading cells becoming operational with active messages |          | 08/05/2022 05:10 PM |                                   |
| 5639 | SIMtrace 2                      | Bug     | Feedback    | Normal    | No packet captured but only "Card state change:"                                      | g1bbs    | 09/20/2023 01:29 PM |                                   |
| 5633 | osmo-clock-gen                  | Feature | New         | Normal    | towards a first osmo-clock-gen production batch                                       | laforge  | 07/26/2022 12:39 PM |                                   |
| 5632 | Core testing infrastructure     | Bug     | In Progress | Normal    | better test result summary / notifications  | lynxis   | 08/31/2022 11:58 AM |                                   |
| 5630 | pySim                           | Bug     | Stalled     | Normal    | pySim-trace doesn't support decoding classic SIM cards (TS 11.11 / TS 51.011)         | laforge  | 07/24/2022 11:06 AM |                                   |
| 5628 | osmo-remsim                     | Bug     | New         | Low       | client-st2: error mesasges when mapping is removed                                    |          | 07/24/2022 07:14 AM |                                   |
| 5614 | osmo-remsim                     | Feature | New         | Normal    | log also application-level errors   | laforge  | 07/11/2022 08:09 PM |                                   |
| 5600 | SIMtrace 2                      | Feature | Feedback    | Normal    | SIMtrace2 fails to emulate EMV cards  | boggy123 | 12/14/2022 01:07 PM |                                   |
| 5586 | OsmoBSC                         | Feature | New         | Normal    | Ericsson RBS could recover Unlocked state without osmo-bsc restart                    |          | 06/21/2022 10:23 PM | Related to #5983                  |
| 5585 | OsmoCBC                         | Bug     | New         | Low       | CBC should not send WRITE-REPLACE to cells that had sent FAILURE                      |          | 08/05/2022 04:58 PM |                                   |

| #    | Project                               | Tracker | Status  | Priority | Subject  | Assignee  | Updated             | Related issues                                       |
|------|---------------------------------------|---------|---------|----------|--|-----------|---------------------|--|
| 5578 | SIMtrace 2                            | Bug     | Stalled | Low      | osmo-remsim-client-st2 hangs after usb-reset without power loss on qmod                      | laforge   | 01/31/2023 08:25 PM | Related to #5921                                     |
| 5576 | OsmoBTS                               | Bug     | New     | Normal   | osmo-bts not moving NM state "Enabled -> DisabledDependency" when Admin state becomes Locked |           | 06/02/2022 10:38 AM |  |
| 5574 | OsmoBSCNAT                            | Bug     | New     | Urgent   | OsmoBSCNAT testsuite running in jenkins  | Hoernchen | 10/06/2022 11:46 AM | Related to #5574                                     |
| 5573 | OsmoHNBGW                             | Bug     | New     | Normal   | osmo-hnbgw: RANAP LocationReportingControl not implemented                                   |           | 05/30/2022 02:05 PM |  |
| 5571 | Ericsson RBS 6xxx                     | Bug     | New     | High     | DUG can come up, but with Avail: "Power Off"   | dexter    | 11/08/2022 05:10 PM |  |
| 5570 | libosmocore                           | 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                                     |
| 5568 | OsmoMSC                               | Bug     | Stalled | Low      | SMPP socket doesn't use TCP_NODELAY  | osmith    | 10/31/2023 09:36 AM |  |
| 5564 | OsmoMSC                               | Bug     | Stalled | High     | blocking database I/O by SMS database  | laforge   | 05/16/2022 08:20 PM | Related to #5564, Related to #5566, Related to #5564 |
| 5563 | OsmoMSC                               | Bug     | Stalled | High     | OsmoMSC sometimes stalls for dozens of seconds in a production deployment                    | laforge   | 08/04/2022 08:15 AM | Related to #5564, Related to #5563, Related to #5566 |
| 5561 | libosmo-sccp + libosmo-sigtran        | Bug     | New     | Low      | pc=0=0.0.0 / RCOC-ERROR.ind not permitted  |           | 05/23/2023 06:20 AM |  |
| 5559 | OsmoMSC                               | Bug     | Stalled | Urgent   | OsmoMSC at 100% CPU and unresponsive for up to several minutes!                              | laforge   | 08/04/2022 08:14 AM | Related to #5563                                     |
| 5550 | pySim                                 | Bug     | New     | Normal   | EF.ARR file decoding would need to be context dependent                                      | chrysn    | 06/24/2022 08:50 AM |  |
| 5547 | OsmoBSC                               | Feature | New     | Low      | upon emergency call, from the MSC-pool pick an MSC that allows emergency calling             |           | 04/25/2022 05:49 AM |  |
| 5546 | OCTOI - Osmocom Community TDM over IP | Feature | New     | Normal   | build frame relay "hub" similar to ISDN "hub"  |           | 04/24/2022 03:03 PM |  |
| 5545 | Retronetworking                       | Feature | New     | Low      | E1 support for dynamips  |           | 04/24/2022 09:56 AM |  |
| 5544 | OCTOI - Osmocom Community TDM over IP | Bug     | New     | Normal   | Strange HDLC frames in PPP when using mISDN/pppd/capiplugin against Portmaster3              |           | 04/23/2022 01:50 PM |  |
| 5543 | Retronetworking                       | Feature | New     | Normal   | Contact manufacturers for leftover stock   |           | 06/27/2023 09:05 PM |  |
| 5527 | osmo-remsim                           | Bug     | Stalled | High     | warn on duplicate client (id) connections  | laforge   | 07/13/2022 01:25 PM | Related to #5527                                     |
| 5526 | OCTOI - Osmocom Community TDM over IP | Feature | New     | Low      | ability to generate GSMTAP traces from osmo-e1d  |           | 07/29/2023 07:23 AM |  |
| 5521 | osmo-e1d                              | Bug     | New     | Low      | don't attempt OCTOI connection of no TDM data from driver (icE1usb)                          |           | 04/10/2022 05:28 PM |  |
| 5520 | osmo-e1d                              | Feature | New     | Low      | exponential back-off on octoi client reconnect attempts                                      |           | 07/29/2023 07:30 AM |  |
| 5519 | OCTOI - Osmocom Community TDM over IP | Feature | New     | Low      | reimplement overlapped.php based on yate python module                                       |           | 12/03/2023 10:47 AM |  |

| #    | Project                                      | Tracker | Status      | Priority | Subject  | Assignee  | Updated             | Related issues  |
|------|--|---------|-------------|----------|--|-----------|---------------------|---|
| 5517 | OsmoBTS                                      | Bug     | New         | Normal   | ttn3-bts-test: new sporadic test case failures   | fixeria   | 03/20/2023 11:45 PM |   |
| 5516 | OsmoTRX                                      | Feature | In Progress | High     | BladeRF 2.0 Support  | Hoernchen | 02/14/2023 02:59 PM | Is duplicate of #2430   |
| 5515 | OsmoBSC                                      | Bug     | New         | Normal   | BSC_Tests: re-establishment: RA during CHAN RQD should reflect re-establishment                          |           | 04/06/2022 08:02 PM |   |
| 5512 | Retronetworking                              | Bug     | New         | Low      | Idea: L1OIP driver for DAHDI   |           | 04/03/2022 11:46 AM |   |
| 5511 | Retronetworking                              | Feature | New         | Low      | Idea: DAHDI backend for mISDN  |           | 09/18/2022 03:59 PM |   |
| 5509 | OsmoSGSN                                     | Bug     | New         | Normal   | llc/pdu lifetime: add vty config option to define default lifetime                                       |           | 03/31/2022 04:11 PM |   |
| 5507 | libosmocore                                  | Feature | New         | Normal   | Optimize reset time after SGSN is restarted  | lynxis    | 03/31/2022 12:33 PM |   |
| 5505 | OsmocomBB                                    | Feature | New         | Normal   | GPRS mobility (cell change) support  |           | 07/01/2022 06:24 AM | Related to #5505  |
| 5504 | OsmocomBB                                    | Feature | New         | Normal   | GSM/GPRS coordination (RR/GRR)   |           | 05/23/2023 12:31 PM | Related to #5504  |
| 5503 | OsmocomBB                                    | Feature | Feedback    | Normal   | expose GPRS user plane via tun device  | pespin    | 08/28/2023 10:38 PM | Related to #6115  |
| 5502 | OsmocomBB                                    | Feature | Stalled     | Normal   | MS-side LLC implementation   | pespin    | 09/14/2023 03:59 PM | Related to #5502,Related to #5502                                   |
| 5501 | OsmocomBB                                    | Feature | Stalled     | Normal   | MS-side GPRS Mobility Management (GMM) + Session Management (SM)   | pespin    | 09/14/2023 04:03 PM | Related to #5501,Related to #5502,Related to #5504,Related to #5505 |
| 5499 | osmo-e1d                                     | Bug     | New         | Low      | octoi client binds to specific IP even if 0.0.0.0 is specified   |           | 05/23/2023 07:10 AM |   |
| 5492 | OsmoBSCNAT                                   | Bug     | New         | Normal   | Support MSC pooling  | osmith    | 04/11/2022 08:19 AM |   |
| 5491 | OsmoMSC                                      | Bug     | New         | Low      | MT CSFB calls fail (only) first time after Airplane mode toggle (probably on first attach to EUTRAN too) | keith     | 03/19/2022 09:37 PM |   |
| 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 |   |
| 5489 | linmodem                                     | Feature | New         | Low      | linmodem mISDN integration   |           | 03/13/2022 09:35 PM |   |
| 5488 | Retronetworking                              | Feature | In Progress | Low      | create DAHDI mirror sniffer  | laforge   | 11/07/2022 06:04 PM |   |
| 5487 | OsmoSGSN                                     | Feature | New         | Low      | get rid of osmo-juh.git's iu_client API and absorb into OsmoSGSN   |           | 03/10/2022 06:05 PM |   |
| 5484 | Open Source IMS Client                       | Feature | New         | Normal   | create setup for nested IPsec (doubango on top of StrongSWAN)  |           | 03/07/2022 11:19 AM |   |
| 5483 | Open Source IMS Client                       | Feature | New         | Normal   | SIM card interface for strongswan  |           | 03/07/2022 03:19 PM |   |
| 5482 | Open Source IMS Client                       | Feature | New         | Normal   | VoWiFi client for creating [outer] IPsec tunnel to ePDG  |           | 03/07/2022 09:33 PM | Related to #5482  |
| 5481 | Open Source IMS Client                       | Feature | New         | Urgent   | SIM card interface for doubango  | laforge   | 03/25/2022 11:00 AM | Related to #5482  |
| 5480 | Open Source IMS Client                       | Feature | In Progress | High     | Linux kernel IPsec plugin for doubango   | laforge   | 03/25/2022 10:44 AM |   |
| 5474 | OsmoBTS                                      | Bug     | New         | Normal   | osmo-bts-trx: DTxd support not implemented   |           | 03/02/2022 05:06 PM | Related to #5474,Related to #5474                                   |



| #    | Project                               | Tracker | Status      | Priority | Subject   | Assignee | Updated             | Related issues                                     |
|------|---------------------------------------|---------|-------------|----------|---|----------|---------------------|--|
| 5468 | OsmoMGW                               | Feature | New         | Normal   | osmo-mgw: 2g<->3g call support  |          | 06/03/2022 10:39 AM | Related to #5468,Related to #5468,Related to #5468 |
| 5466 | OsmocomBB                             | Feature | New         | Normal   | CP2102N evaluation for burst_ind baudrate   | laforge  | 02/22/2022 07:17 PM |  |
| 5464 | SIMtrace 2                            | Bug     | In Progress | Normal   | cardem firmware unable to attach to card  | laforge  | 11/18/2022 06:41 PM | Related to #5464                                   |
| 5463 | Retronetworking                       | Feature | In Progress | Low      | X.21 hardware interface   | vogelchr | 03/04/2023 02:37 PM |  |
| 5462 | osmo-sip-connector                    | Bug     | New         | Normal   | Contact Header Missing - Way Forward?   |          | 02/21/2022 05:51 AM |  |
| 5460 | gr-osmosdr                            | Bug     | New         | Normal   | Please use double for ppm with fcdp/pp  |          | 02/17/2022 10:43 PM |  |
| 5449 | OsmoGGSN (former OpenGGSN)            | Bug     | New         | Low      | osmo-ggsn: Accept IPv4v6 EUA pdp creation in APv4/v6-only APNs by answering with changed PDP Type |          | 04/04/2023 09:46 AM |  |
| 5448 | gr-osmosdr                            | Bug     | New         | Low      | a bug related to gqrx using gr-osmosdr for sdrplay rsp1 through soapy(?)                          |          | 02/09/2022 02:56 AM |  |
| 5446 | Cellular Network Infrastructure       | Feature | New         | Normal   | correlate git version to ttcn3 tests  |          | 02/07/2022 09:40 PM | Related to #5446                                   |
| 5445 | gr-osmosdr                            | Bug     | New         | Normal   | Please switch to the gr-funcube   |          | 02/15/2022 11:56 PM |  |
| 5443 | OCTOI - Osmocom Community TDM over IP | Feature | New         | Normal   | possibility to transmit frames from multiple lines in one packet                                  |          | 02/06/2022 08:15 AM |  |
| 5442 | OCTOI - Osmocom Community TDM over IP | Feature | New         | Normal   | ensure sequence number covers longer duration than default PRI LOS timer                          | laforge  | 02/06/2022 08:16 AM |  |
| 5437 | OCTOI - Osmocom Community TDM over IP | Feature | New         | Low      | brainstorm about making protocol even more efficient  | laforge  | 01/30/2022 01:45 PM |  |
| 5436 | OCTOI - Osmocom Community TDM over IP | Feature | New         | Low      | BRI variant of OCTOI protocol   | laforge  | 01/30/2023 06:49 PM | Related to #5436                                   |
| 5435 | OCTOI - Osmocom Community TDM over IP | Feature | New         | Low      | use DNS to resolve the server   |          | 04/05/2022 08:20 PM |  |
| 5434 | OCTOI - Osmocom Community TDM over IP | Feature | Stalled     | Normal   | more statistics / counters  |          | 12/03/2023 11:17 AM |  |
| 5433 | OCTOI - Osmocom Community TDM over IP | Bug     | New         | Normal   | forwarding of TS0 / Alarms  |          | 01/30/2022 11:02 AM |  |
| 5429 | OCTOI - Osmocom Community TDM over IP | Feature | New         | Normal   | authentication in TDMoIP protocol   | laforge  | 11/07/2022 05:29 PM |  |
| 5427 | OCTOI - Osmocom Community TDM over IP | Feature | New         | Low      | STUN/TURN/ICE for peer-to-peer connections  |          | 01/30/2022 10:43 AM |  |
| 5425 | gr-osmosdr                            | Bug     | New         | High     | Problem receiving samples using dual receivers with BladeRF                                       |          | 01/29/2022 04:22 AM |  |
| 5423 | SIMtrace 2                            | Bug     | New         | Low      | "trace" firmware continuous test setup  |          | 01/27/2022 12:24 PM |  |
| 5422 | SIMtrace 2                            | Feature | In Progress | Normal   | "cardem" continuous testing setup   | laforge  | 01/27/2022 12:22 PM | Related to #5422                                   |
| 5419 | SIMtrace 2                            | Bug     | Stalled     | High     | cardem errors with higher baud rate   | laforge  | 11/07/2022 06:22 PM |  |

| #    | Project                                      | Tracker | Status      | Priority | Subject   | Assignee | Updated             | Related issues                    |
|------|--|---------|-------------|----------|---|----------|---------------------|-----------------------------------|
| 5417 | OCTOI - Osmocom Community TDM over IP        | Feature | Stalled     | Low      | S/T (S0) ISDN BRI adapter with VCXO / GPS-DO  | laforge  | 05/16/2023 08:06 AM | Related to #5436                  |
| 5415 | SIMtrace 2                                   | Bug     | New         | Normal   | cardem: watchdog triggers firmware reset  | lynxis   | 02/15/2022 08:07 PM |                                   |
| 5403 | OsmoMSC                                      | Feature | New         | Normal   | Can't connect Call from 2G to 4G network  | laforge  | 01/14/2022 10:41 PM |                                   |
| 5402 | E1/T1 Hardware Interface (including icE1usb) | Bug     | New         | Normal   | no2e1 gateware improvements   |          | 01/13/2022 12:02 PM |                                   |
| 5398 | OsmoSGSN                                     | Bug     | New         | Normal   | Null pointer access at "uectx" in ranap_iu_tx   | pespin   | 01/10/2022 01:14 PM |                                   |
| 5396 | OsmocomDECT                                  | Bug     | New         | High     | TcpDump/WireShark will not build with libpcap(dect)                                       |          | 01/09/2022 12:57 PM |                                   |
| 5395 | OsmocomDECT                                  | Feature | New         | Normal   | Support for LMX3161   |          | 01/09/2022 12:55 PM |                                   |
| 5394 | OsmocomDECT                                  | Bug     | New         | High     | Kernel Oops when loading com_on_air_cs (unable to handle kernel NULL pointer dereference) |          | 01/09/2022 12:54 PM |                                   |
| 5393 | OsmocomDECT                                  | Bug     | New         | High     | tipc problems while building on Ubuntu  |          | 01/09/2022 12:48 PM |                                   |
| 5392 | OsmocomDECT                                  | Bug     | New         | High     | Sliding collision errors  |          | 01/09/2022 12:44 PM |                                   |
| 5389 | OsmocomDECT                                  | Bug     | New         | Low      | Namespace clashes between kernel and userspace  |          | 01/09/2022 12:30 PM |                                   |
| 5388 | OsmocomDECT                                  | Bug     | New         | Low      | {MM-INFO-SUGGEST} message not sent with ext bit set to 0                                  |          | 01/09/2022 12:28 PM |                                   |
| 5386 | osmo-e1d                                     | Bug     | New         | Low      | stop watchdog when LOS is present   | laforge  | 01/05/2022 08:38 PM |                                   |
| 5382 | E1/T1 Hardware Interface (including icE1usb) | Bug     | New         | Low      | icE1usb: detect all-1 pattern and report as BLUE alarm                                    |          | 01/02/2022 12:17 PM | Related to #5382                  |
| 5381 | E1/T1 Hardware Interface (including icE1usb) | Bug     | New         | Low      | icE1usb DAHDI driver: generate YELLOW alarm towards peer                                  | laforge  | 01/02/2022 12:16 PM | Related to #5381,Related to #5381 |
| 5380 | osmo-ccid-firmware                           | Bug     | New         | Normal   | Incorrect answer to PC_to_RDR_SetParameters CCID command                                  |          | 01/16/2022 08:55 PM |                                   |
| 5378 | erlang/osmo_ss7                              | Bug     | New         | Normal   | ipa: add support for client application   | laforge  | 01/05/2022 08:36 PM |                                   |
| 5372 | osmo-lab-rack                                | Feature | New         | Low      | AC power supply   |          | 12/23/2021 06:33 PM |                                   |
| 5371 | osmo-lab-rack                                | Feature | New         | Low      | component carrier USB-UART  |          | 12/23/2021 06:31 PM |                                   |
| 5370 | osmo-lab-rack                                | Feature | New         | Low      | component carrier USB hub   |          | 12/23/2021 06:30 PM |                                   |
| 5368 | libosmo-netif                                | Bug     | Feedback    | Low      | consider using SCTP_EVENT instead of SCTP_EVENTS  |          | 12/23/2021 09:09 AM | Related to #5368,Related to #5368 |
| 5357 | OsmoGGSN (former OpenGGSN)                   | Bug     | New         | Normal   | no more than PDP_MAX == 1024 PDP contexts possible in libgtp                              |          | 12/14/2021 01:20 PM | Related to #5469                  |
| 5356 | libosmo-abis                                 | Bug     | New         | Normal   | libosmo-abis: osmo_rtp_socket_connect() not calling connect() on sockets                  |          | 12/13/2021 12:50 PM |                                   |
| 5352 | gr-osmosdr                                   | Bug     | New         | Normal   | ImportError: generic_type: type "sink" referenced unknown base type "gr::hier_block2"     |          | 12/11/2021 08:19 AM |                                   |
| 5349 | OsmoSGSN                                     | Bug     | In Progress | High     | Message for non-existing SNDCCP Entity  |          | 07/17/2023 04:42 PM |                                   |
| 5346 | libosmocore                                  | Bug     | New         | Low      | osmo-release.sh doesn't work with %{sover} macro in spec.in                               | pespin   | 12/09/2021 12:03 PM |                                   |

| #    | Project                     | Tracker | Status      | Priority | Subject  | Assignee | Updated             | Related issues                    |
|------|-----------------------------|---------|-------------|----------|--|----------|---------------------|-----------------------------------|
| 5340 | OsmoMSC                     | Bug     | New         | Normal   | ttcn3-msc-test: more memory leaks  | fixeria  | 05/15/2022 04:47 PM |                                   |
| 5338 | OsmoBTS                     | Bug     | New         | Normal   | LMSDevice.cpp:261 Power parameters requested before Tx Frequency was set! Providing band 900 by default... |          | 12/09/2021 11:42 PM |                                   |
| 5335 | OsmoBSC                     | Bug     | In Progress | Normal   | osmo-bsc: Add VTY commands to configure T3.. and N3.. timers counters for gprs                             | jolly    | 12/17/2023 12:59 PM | Related to #5915,Related to #5991 |
| 5323 | Core testing infrastructure | Feature | New         | Normal   | Add docker image containing titan.core master  |          | 12/15/2021 04:43 PM | Related to #6187                  |
| 5321 | osmo-remsim                 | Feature | New         | Low      | support SAP of u-blox AT+USAPMODE  |          | 11/22/2021 10:37 AM |                                   |
| 5320 | osmo-remsim                 | Feature | New         | Low      | support SAP of Telit AT#RSEN   |          | 11/22/2021 10:38 AM |                                   |
| 5313 | OsmoMGW                     | Bug     | New         | Normal   | libosmo-mgcp-client-dbg specific package not generated for debian  |          | 11/16/2021 03:57 PM |                                   |
| 5310 | osmo-ccid-firmware          | Bug     | New         | Normal   | sysmoOCTSIM does not re-enumerate after unplug/replug the USB cable when PSU is connected                  |          | 11/15/2021 05:13 PM |                                   |
| 5309 | OsmoPCU                     | Bug     | New         | Normal   | osmo-pcu: Support rejecting multiple TBFs upon tx of Packet Access Reject                                  | pespin   | 11/15/2021 06:29 PM |                                   |
| 5308 | OsmoBSC                     | Bug     | Stalled     | Normal   | confusion around mgw e1 line vs trunk dichotomy  | dexter   | 12/13/2021 03:52 PM |                                   |
| 5307 | Ericsson RBS 6xxx           | Feature | New         | Normal   | Support for Multiple Sectors at an RBS site.   |          | 11/13/2021 08:20 PM |                                   |
| 5305 | OsmocomBB                   | Bug     | New         | Normal   | Burst capture  |          | 11/10/2021 06:38 PM |                                   |
| 5304 | OsmoHNBGW                   | Bug     | New         | Low      | Verizon CDMA femtocell   |          | 03/09/2024 07:09 PM |                                   |
| 5301 | Core testing infrastructure | Bug     | Stalled     | Normal   | Run TTCN3 docker tests with sanitizer enabled  | osmith   | 03/20/2024 09:28 AM | Related to #5302                  |
| 5300 | OsmoPCU                     | Bug     | New         | Normal   | osmo-pcu: SUSPEND-NACK not implemented   |          | 03/31/2022 02:59 PM |                                   |
| 5298 | gr-osmosdr                  | Bug     | New         | Normal   | object has no attribute 'pyqwidget' on arch linux  |          | 11/09/2021 01:25 AM |                                   |
| 5291 | rtl-sdr                     | Feature | New         | Normal   | Ship the udev rules upstream   | steve-m  | 11/05/2021 11:04 AM |                                   |
| 5283 | OsmoTRX                     | Feature | New         | Normal   | Implement TRXDv2 support   | fixeria  | 10/27/2021 10:35 PM | Related to #5283                  |
| 5279 | OsmoMGW                     | Feature | New         | Normal   | systemd service / unit for multiple osmo-mgw on one machine  | osmith   | 10/25/2021 11:41 AM |                                   |
| 5277 | libosmocore                 | Bug     | New         | Normal   | ns2: Allow SNS-CONFIG PDUs from unknown endpoints during config procedure                                  | lynxis   | 10/22/2021 02:28 PM |                                   |
| 5276 | SIMtrace 2                  | Feature | Stalled     | Normal   | jenkins CI integration like for osmo-ccid-firmware   | roh      | 11/14/2022 05:24 PM | Related to #5422                  |
| 5268 | pySim                       | Feature | New         | Normal   | pySim-shell: GlobalPlatform SCP02 support  | laforge  | 10/14/2021 07:12 PM | Related to #5268                  |
| 5267 | pySim                       | Feature | New         | Normal   | pySim-shell: Ability to deactivate entire applications on the card   |          | 10/14/2021 07:12 PM | Related to #5268                  |
| 5257 | OsmoBTS                     | Bug     | New         | High     | support random padding in SACCH downlink messages  |          | 10/12/2021 11:18 AM | Related to #5257                  |
| 5256 | OsmoBTS                     | Feature | New         | High     | support for random padding in LAPDm downlink messages  |          | 10/12/2021 11:17 AM | Related to #5256                  |
| 5247 | Osmocom Analog              | Bug     | New         | Normal   | AMPS Segmentation fault  | jolly    | 10/04/2021 11:48 PM |                                   |
| 5246 | OsmoBSC                     | Bug     | New         | Low      | sigsegv in bts_count_free_ts()   | keith    | 10/03/2021 08:08 PM | Related to #5324                  |

| #    | Project                         | Tracker | Status      | Priority | Subject  | Assignee  | Updated             | Related issues                    |
|------|---------------------------------|---------|-------------|----------|--|-----------|---------------------|-----------------------------------|
| 5242 | OsmoBTS                         | Bug     | Stalled     | Normal   | A-bis/RSL: CRCX ACK indicates '0.0.0.0' as the local/bind address                          | fixeria   | 05/01/2022 01:15 PM |                                   |
| 5241 | OsmoGGSN (former OpenGGSN)      | Bug     | Feedback    | Low      | GTP: Malformed Packet pdp ctx response.  | lynxis    | 03/23/2022 05:31 PM |                                   |
| 5235 | pySim                           | Feature | New         | Low      | import / export as eUICC profile package ASN.1   |           | 06/09/2023 04:55 PM |                                   |
| 5230 | OsmoHNBGW                       | Bug     | In Progress | Normal   | hnbgw fails to connect to the sgsn   | lynxis    | 10/14/2021 07:50 AM |                                   |
| 5229 | libosmocore                     | 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 |                                   |
| 5228 | OsmoTRX                         | Feature | New         | Low      | osmo-trx: Missing unit tests for computeCI() and computeEdgeCI()                           | Hoernchen | 11/07/2022 06:23 PM |                                   |
| 5227 | OsmoPCU                         | Bug     | New         | Normal   | osmo-pcu: Attempt recovery of TBF when one of its assigned PDCH TS becomes disabled        | pespin    | 10/18/2021 10:12 AM |                                   |
| 5220 | rtl-sdr                         | Bug     | New         | Normal   | Undefined reference to libusb_dev_mem_free   | steve-m   | 08/31/2021 09:21 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 |                                   |
| 5214 | OsmoMGW                         | Feature | In Progress | Normal   | osmo-mgw multithreading  | Hoernchen | 08/31/2021 09:20 AM |                                   |
| 5212 | OsmoPCU                         | Bug     | New         | Low      | apparently T3193 is by default not set to its defined default value                        | pespin    | 11/15/2021 07:13 PM |                                   |
| 5208 | libosmocore                     | Bug     | Feedback    | Normal   | ns2: add testcase for SNS Size with invalid tlv  | lynxis    | 02/12/2023 08:37 PM |                                   |
| 5202 | OsmocomBB                       | Bug     | New         | Normal   | [Assert failed rc >= 0  ctl.c:83] cell_log crashes (mostly) when monitoring specific ARFCN |           | 07/25/2021 01:38 PM |                                   |
| 5197 | OsmoMSC                         | Bug     | New         | Normal   | msc_i Unimplemented msg type: HANDOVER PERFORMED   | neels     | 08/23/2022 04:05 PM |                                   |
| 5196 | OsmoMSC                         | Bug     | New         | Normal   | Verify several "event not permitted" log lines in unit tests                               | neels     | 08/23/2022 04:08 PM |                                   |
| 5190 | OsmoBSC                         | Bug     | New         | Low      | segfault with osmo-e1d   |           | 09/15/2021 09:34 AM |                                   |
| 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 |                                   |
| 5183 | OsmoHLR                         | Feature | New         | Low      | EIR functionality  |           | 06/16/2021 06:22 AM | Related to #5183                  |
| 5180 | libosmocore                     | Bug     | In Progress | Normal   | ns2: Document NS inspection/blocking commands  | lynxis    | 06/15/2021 01:10 PM |                                   |
| 5179 | libosmocore                     | Bug     | New         | Normal   | gprs_ns2: use refcounting for the NSE  | lynxis    | 06/13/2021 03:08 AM |                                   |
| 5178 | OsmoTRX                         | Bug     | New         | Normal   | LimeNET Micro clock error  | Hoernchen | 09/15/2021 09:42 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 |
| 5171 | OsmocomBB                       | Bug     | Feedback    | Normal   | ccch_scan failed   | thor123   | 06/09/2021 12:06 AM |                                   |
| 5167 | Osmocom Analog                  | Feature | New         | Low      | LimeNet Micro  |           | 04/02/2023 08:57 AM |                                   |
| 5156 | OsmoBSC                         | Feature | New         | Low      | Support intraBSC handover between distinct BTS types                                       |           | 11/04/2021 06:27 PM |                                   |
| 5154 | OsmoSGSN                        | Bug     | New         | Normal   | OsmoSGSN doesn't trigger 3G paging if downlink GTP traffic arrives after long break        |           | 05/13/2021 12:28 PM | Related to #5154                  |

| #    | Project                         | Tracker | Status      | Priority | Subject  | Assignee  | Updated             | Related issues  |
|------|---------------------------------|---------|-------------|----------|--|-----------|---------------------|---|
| 5153 | OsmoHNBGW                       | Feature | In Progress | Normal   | support hnbgw co-located GTP-U proxy (UPF)                                   | neels     | 11/15/2022 09:54 AM | Related to #5154,Related to #5153                                   |
| 5149 | OsmoPCU                         | Bug     | New         | Low      | osmo-pcu fails to allocate all DL-TBF possible slots under specific scenario | pespin    | 09/15/2021 09:49 AM |   |
| 5144 | gr-osmosdr                      | Bug     | New         | High     | Support multiple Airspy devices  | horiz0n   | 10/21/2023 07:22 PM |   |
| 5143 | Osmocom Analog                  | Feature | New         | Low      | Using ADALM PLUTO SDR with osmocom-analog                                    | jolly     | 05/05/2021 05:01 PM |   |
| 5128 | Core testing infrastructure     | Feature | New         | Low      | dec_RlcmacDIctrlBlock: Get rid of annoying warning about remaining padding   |           | 12/09/2021 09:14 PM |   |
| 5127 | pySim                           | Feature | New         | Normal   | tool for "re-formatting" [systemcom] cards in tester                         | laforge   | 10/14/2021 07:16 PM | Related to #5127  |
| 5124 | Cellular Network Infrastructure | Feature | Feedback    | Normal   | network:osmocom:nightly feed with "-O0" builds                               | laforge   | 05/11/2023 11:11 AM |   |
| 5122 | OsmoPCU                         | Feature | New         | Normal   | Choose SBA allocation offset based on AGCH queue load in the BTS             | pespin    | 04/20/2021 12:51 PM | Related to #5122  |
| 5120 | rtl-sdr                         | Bug     | New         | Normal   | rtlsdr_demod_write_reg failed with -9  |           | 04/18/2021 08:55 PM |   |
| 5117 | OsmoSDR                         | Bug     | New         | Normal   | Error building gr-osmosdr with libhackrf                                     |           | 04/15/2021 07:56 AM |   |
| 5106 | OsmoBSC                         | Feature | Feedback    | Urgent   | Watchdog that would try to un-BORKE BORKen timeslots                         | keith     | 02/07/2023 06:25 PM | Related to #5106,Related to #5785,Related to #5786,Related to #5106 |
| 5057 | OsmoMSC                         | Bug     | New         | High     | Can only send a maximum of 15 SMPP messages?                                 | Hoernchen | 09/15/2021 09:53 AM |   |
| 5050 | OsmoTRX                         | Bug     | New         | Normal   | How can I solve limesdr mini clock problem with osmocom ?                    |           | 02/27/2021 01:55 PM |   |
| 5047 | OsmoSDR                         | Feature | New         | Normal   | Inconsistencies between SDR's in bias-tee parameter                          |           | 12/19/2021 01:17 PM |   |
| 5045 | Cellular Network Infrastructure | Feature | New         | Normal   | write libversion "major" on build files automatically based on LIBVERSION    | pespin    | 02/24/2021 01:14 PM |   |
| 5044 | OsmoMGW                         | Bug     | New         | Low      | potential null pointer dereferences  | pespin    | 02/24/2021 11:48 AM |   |
| 5035 | libosmocore                     | Bug     | New         | Low      | ns2: add a vty to drop a sns connection                                      |           | 03/29/2021 09:16 PM |   |
| 5034 | libosmocore                     | Feature | Stalled     | Low      | logging: Enable category name instead of hex val by default                  | pespin    | 06/12/2021 05:40 PM | Related to #6272  |
| 5031 | OsmoSDR                         | Bug     | New         | Normal   | Please switch to gr-funcube  |           | 06/17/2021 09:23 AM |   |
| 5029 | libosmocore                     | Bug     | New         | Normal   | vtv: optional cases with multiple arguments is undefined behaviour           |           | 02/18/2021 05:44 PM |   |
| 5025 | OsmoBTS                         | Feature | New         | Normal   | Missing TTCN-3 coverage for the Timing Advance loop                          | fixeria   | 07/02/2021 04:28 PM |   |

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