

## Issues

| #    | Project        | Tracker | Status      | Priority | Subject   | Assignee      | Updated          | Category                      |
|------|----------------|---------|-------------|----------|---|---------------|------------------|-------------------------------|
| 8062 | Infrastructure | Story   | Closed      | Normal   | Install rabbitMQ on dev CNs   | Rob Nahf      | 2017-04-06 22:33 | Architecture Design           |
| 8061 | Infrastructure | Story   | New         | Normal   | develop queue-based processing system for the CN  | Rob Nahf      | 2018-01-17 19:00 | Architecture Design           |
| 8049 | Infrastructure | Story   | In Progress | Normal   | Support synchronization of system metadata for unhosted METADATA and RES_MAP objects                    |               | 2018-01-17 18:50 | Architecture Design           |
| 8046 | Infrastructure | Bug     | New         | Normal   | Mutable Member Nodes orphan unhosted objects  |               | 2017-03-15 17:40 | Architecture Design           |
| 7967 | Infrastructure | Bug     | In Progress | Normal   | The CN is not following the xml schema definition when creating dataone exceptions                      | Dave Vieglais | 2018-05-23 18:13 | Architecture Design           |
| 7807 | Infrastructure | Story   | New         | Low      | cn.synchronize should support synchronization failure corrections.                                      |               | 2018-01-17 19:15 | Architecture Design           |
| 7443 | Infrastructure | Task    | Closed      | Normal   | add InvalidRequest to hasReservation signature in documentation   | Dave Vieglais | 2016-03-25 01:17 | Architecture Design           |
| 7421 | Infrastructure | Task    | Closed      | Normal   | update api design documentation for hasReservation  |               | 2016-03-25 01:08 | Architecture Design           |
| 7324 | Infrastructure | Story   | Closed      | Normal   | Synchronization is setting default values for origin and authoritativeMN if left null by the source MN. | Rob Nahf      | 2015-09-29 00:51 | Architecture Design           |
| 7264 | Infrastructure | Bug     | Closed      | Normal   | CNCore.hasReservation null Subject parameter  | Dave Vieglais | 2016-03-25 01:18 | Architecture Design           |
| 7224 | Infrastructure | Story   | New         | Normal   | push synchronization request status indicator: synchronizeStatus method option                          |               | 2018-01-17 19:38 | Architecture Design           |
| 7223 | Infrastructure | Story   | Rejected    | Normal   | push synchronization request status indicator: status return from cn.synchronize                        |               | 2016-02-09 18:47 | Architecture Design           |
| 7182 | Infrastructure | Task    | Closed      | Normal   | CN.Diagnostic documentation contains mime part mistakes   | Rob Nahf      | 2015-07-01 16:22 | Architecture Design           |
| 7179 | Infrastructure | Task    | Closed      | Normal   | add API documentation for CN.updateSystemMetadata   | Rob Nahf      | 2015-06-12 18:49 | Architecture Design           |
| 7174 | Infrastructure | Task    | Closed      | Normal   | MN.listObjects documentation is inconsistent regarding replicationStatus parameter                      | Dave Vieglais | 2016-03-25 02:02 | Architecture Design           |
| 7173 | Infrastructure | Task    | Closed      | Normal   | modify getLogRecords documentation / Event type for v2  |               | 2015-07-01 16:22 | Architecture Design           |
| 7172 | Infrastructure | Task    | Closed      | Normal   | modify updateSystemMetadata documentation   | Rob Nahf      | 2015-07-01 16:22 | Architecture Design           |
| 7171 | Infrastructure | Bug     | Closed      | Normal   | v2.0 documentation inconsistencies  | Rob Nahf      | 2016-03-25 02:04 | Architecture Design           |
| 6754 | Infrastructure | Task    | New         | Normal   | Architecture API loose ends   | Dave Vieglais | 2015-01-13 18:54 | Architecture Design           |
| 6499 | Infrastructure | Feature | New         | Normal   | define and implement addFormat() method   | Rob Nahf      | 2016-06-22 16:51 | Architecture Design           |
| 2784 | Infrastructure | Task    | Closed      | Normal   | refactor certificates out of d1_integration package (svn)   | Rob Nahf      | 2012-05-19 08:14 | Authentication, Authorization |
| 2670 | Infrastructure | Task    | Closed      | Normal   | check for character limit of customMessages within certificates   | Rob Nahf      | 2012-10-03 15:40 | Authentication, Authorization |
| 2669 | Infrastructure | Task    | Closed      | Normal   | create java tool for returning isAuthorized given AccessPolicy and list of Subjects                     | Rob Nahf      | 2012-10-03 15:40 | Authentication, Authorization |
| 2668 | Infrastructure | Task    | Closed      | Normal   | create python tool for returning isAuthorized given AccessPolicy and list of Subjects                   | Andrew Pippin | 2012-10-03 15:40 | Authentication, Authorization |

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| 2667 | Infrastructure | Task    | Closed      | Normal   | create java tool for returning equivalent IDs from session                     | Rob Nahf      | 2012-10-03 15:40 | Authentication, Authorization |
| 2666 | Infrastructure | Task    | Closed      | Normal   | create python tool for returning equivalent IDs from session                   | Andrew Pippin | 2012-10-03 15:40 | Authentication, Authorization |
| 2665 | Infrastructure | Task    | Closed      | Normal   | Authorization consistency between language implementations                     | Dave Vieglais | 2012-10-08 16:53 | Authentication, Authorization |
| 2664 | Infrastructure | Task    | New         | Normal   | Create documentation for how transitivity is enacted for authorization         | Matthew Jones | 2014-10-01 20:47 | Authentication, Authorization |
| 2661 | Infrastructure | Story   | Closed      | Normal   | handling complicated identity-equivalencies for authorization                  | Dave Vieglais | 2012-10-08 16:53 | Authentication, Authorization |
| 2549 | Infrastructure | Task    | New         | Normal   | document the decision  | Matthew Jones | 2012-03-27 22:03 | Authentication, Authorization |
| 2548 | Infrastructure | Story   | New         | Normal   | recasting untrusted certs to public poses accessibility inconsistency to users |               | 2018-01-17 20:36 | Authentication, Authorization |
| 1699 | Infrastructure | Task    | Rejected    | Normal   | elaborate d1_certificate_manager package for creating self-signed certificates | Rob Nahf      | 2012-02-08 22:34 | Authentication, Authorization |
| 1698 | Infrastructure | Story   | Closed      | Normal   | support for test and system certificates                                       | Matthew Jones | 2012-02-08 22:35 | Authentication, Authorization |
| 3627 | Infrastructure | Bug     | Rejected    | Normal   | inconsistent SSL peer not auth exceptions with KNB content (godaddy CA)        | Rob Nahf      | 2013-02-28 22:39 | d1_client_r                   |
| 3571 | Infrastructure | Bug     | Closed      | Urgent   | verbose logging output gets in the way of regular console output               | Rob Nahf      | 2013-02-12 21:37 | d1_client_r                   |
| 3446 | Infrastructure | Task    | Closed      | Normal   | build CN solr query method that does the url escaping                          | Rob Nahf      | 2013-01-10 22:27 | d1_client_r                   |
| 3445 | Infrastructure | Task    | Closed      | Normal   | build the method to hit the solr query endpoint in R D1Client                  | Rob Nahf      | 2013-01-10 22:27 | d1_client_r                   |
| 3431 | Infrastructure | Story   | Closed      | Normal   | Should have a general search/query method in D1Client for searching the CN     | Rob Nahf      | 2013-01-10 22:28 | d1_client_r                   |
| 8229 | Infrastructure | Bug     | Closed      | Normal   | cn.create failing with "413: Request Entity Too Large" thrown from apache      | Rob Nahf      | 2017-12-18 23:45 | d1_cn_buildout                |
| 7920 | Infrastructure | Story   | In Progress | Normal   | migrate apache2 authorization rules from 2.2 conforming to 2.4                 | Dave Vieglais | 2018-01-17 18:59 | d1_cn_buildout                |
| 7902 | Infrastructure | Task    | Closed      | Normal   | update package dependency on postgresql-9.3                                    | Rob Nahf      | 2016-12-21 09:10 | d1_cn_buildout                |
| 7901 | Infrastructure | Task    | Closed      | Normal   | update packages to be compatible with apache 2.4                               | Rob Nahf      | 2016-10-07 22:26 | d1_cn_buildout                |
| 7891 | Infrastructure | Task    | Closed      | Normal   | remove postgres and java version dependencies from cn-buildout scripts         | Rob Nahf      | 2016-12-21 09:12 | d1_cn_buildout                |
| 7872 | Infrastructure | Task    | Closed      | Normal   | create debian packages compatible with Ubuntu-14.04                            | Rob Nahf      | 2016-10-05 17:37 | d1_cn_buildout                |
| 7685 | Infrastructure | Story   | Closed      | Normal   | implement HTTP 1.1 caching on CN servers for nodelists                         | Robert Waltz  | 2016-04-27 14:37 | d1_cn_buildout                |
| 7574 | Infrastructure | Task    | Closed      | Normal   | add togglePortsAndReplication into cn-os-core                                  | Rob Nahf      | 2016-01-21 16:58 | d1_cn_buildout                |
| 6882 | Infrastructure | Bug     | New         | Normal   | after CN upgrade togglePortsAndReplication.sh missing                          | Robert Waltz  | 2016-01-05 17:54 | d1_cn_buildout                |
| 3926 | Infrastructure | Task    | Closed      | Normal   | add new attributes and object class to dataone ldap schema file                | Robert Waltz  | 2016-02-09 18:50 | d1_cn_buildout                |

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| 7650 | Infrastructure | Story   | New         | Normal    | DAO for SystemMetadata changes the SystemMetadata.replicationPolicy  | Rob Nahf      | 2018-01-17 19:31 | d1_cn_common        |
| 7951 | Infrastructure | Story   | Closed      | Normal    | Allow CN to set NodeProperties in ldap   | Rob Nahf      | 2017-02-02 17:38 | d1_cn_node_registry |
| 7379 | Infrastructure | Bug     | Closed      | Normal    | GMN could not save Node document with null NodeReplicationPolicy.max size property   | Rob Nahf      | 2016-08-01 10:49 | d1_cn_node_registry |
| 6157 | Infrastructure | Task    | Closed      | Normal    | merge d1_cn_nodeRegistry changes from trunk to new branch  | Rob Nahf      | 2016-02-09 18:50 | d1_cn_node_registry |
| 6036 | Infrastructure | Task    | Rejected    | Normal    | update NodeRegistryServices.updateNodeCapabilities   | Rob Nahf      | 2016-02-09 18:50 | d1_cn_node_registry |
| 6035 | Infrastructure | Task    | Closed      | Normal    | Modify NodeAccess methods to include NodeReplicationPolicy attributes  | Rob Nahf      | 2016-02-09 18:50 | d1_cn_node_registry |
| 3029 | Infrastructure | Bug     | Closed      | Normal    | SANDBOX: synchronization puts an unregistered NodeReference in replica.replicaMemberNode                                     | Robert Waltz  | 2012-07-03 02:39 | d1_cn_node_registry |
| 8766 | Infrastructure | Feature | In Progress | Normal    | support server-side link checking for the 303 redirect url in the resolve call   | Rob Nahf      | 2019-05-31 15:16 | d1_cn_service       |
| 7371 | Infrastructure | Bug     | New         | Normal    | A systemMetadata update that changes the formatID from DATA to METADATA or RESOURCE_MAP will not upload the object to the CN | Robert Waltz  | 2015-09-22 21:47 | d1_cn_service       |
| 3000 | Infrastructure | Bug     | Closed      | Normal    | group subjects in Node record don't work for authorizing updates to the record   | Robert Waltz  | 2013-01-09 21:09 | d1_cn_service       |
| 2599 | Infrastructure | Task    | Closed      | High      | cn.resolve throws ServiceFailure when should be NotAuthorized  | Robert Waltz  | 2012-04-12 21:46 | d1_cn_service       |
| 2423 | Infrastructure | Bug     | Closed      | Normal    | cn.resolve() chokes on bad nodeIdentifiers   | Robert Waltz  | 2012-03-02 06:59 | d1_cn_service       |
| 2421 | Infrastructure | Bug     | Rejected    | Normal    | cn.generateID doesn't support 'DOI' scheme?  | Matthew Jones | 2012-03-01 14:18 | d1_cn_service       |
| 2240 | Infrastructure | Task    | Closed      | Normal    | check cn service wrt REST endpoint mapping   | Robert Waltz  | 2012-01-31 17:58 | d1_cn_service       |
| 1609 | Infrastructure | Task    | Closed      | Normal    | make use of 0.6.2 interfaces in cn package (if necessary)  | Robert Waltz  | 2011-06-21 15:04 | d1_cn_service       |
| 1251 | Infrastructure | Task    | Rejected    | Normal    | re-examine cn configuration for request mapping to metacat   |               | 2011-03-01 17:57 | d1_cn_service       |
| 1217 | Infrastructure | Bug     | Closed      | Normal    | cn/object not returning objectlist   | Rob Nahf      | 2011-01-12 05:11 | d1_cn_service       |
| 1216 | Infrastructure | Bug     | Closed      | Normal    | the cn app not updating d1_common_java.xxx.jar on cn-dev   | Robert Waltz  | 2011-01-26 01:28 | d1_cn_service       |
| 1215 | Infrastructure | Task    | Closed      | Normal    | refactor ResolveFilter to set the statusCode on error situations.  | Rob Nahf      | 2011-01-10 20:04 | d1_cn_service       |
| 1142 | Infrastructure | Task    | Rejected    | Normal    | address MMP errors for supplementary unicode characters in pids  | Robert Waltz  | 2016-08-10 20:37 | d1_cn_service       |
| 1113 | Infrastructure | Bug     | Closed      | Normal    | cn/resolve not compatible with new schema structure  | Rob Nahf      | 2010-11-23 09:46 | d1_cn_service       |
| 1028 | Infrastructure | Story   | Closed      | Normal    | cn/resolve schema locations  |               | 2010-11-12 17:52 | d1_cn_service       |
| 1026 | Infrastructure | Story   | Closed      | Normal    | cn/resolve behavior across different environments  |               | 2014-10-02 17:45 | d1_cn_service       |
| 1025 | Infrastructure | Story   | Rejected    | Low       | cn/resolve preference implementation   |               | 2014-10-02 17:44 | d1_cn_service       |
| 890  | Infrastructure | Task    | Closed      | Immediate | update NodeList Binding XML to reflect new schema  | Robert Waltz  | 2010-11-09 18:18 | d1_cn_service       |
| 811  | Infrastructure | Task    | Closed      | Normal    | add adjust node attributes type & environment  | Rob Nahf      | 2010-09-07 03:57 | d1_cn_service       |
| 808  | Infrastructure | Bug     | Closed      | Normal    | no response from CN REST if wrong Accept-Type by requester   | Robert Waltz  | 2010-11-02 17:08 | d1_cn_service       |

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| 782  | Infrastructure | Story   | Rejected    | Normal    | Code housekeeping: CoordinatingNodeCrud interface not implemented by cn.rest.proxy...                                 |               | 2011-08-30 02:14 | d1_cn_service         |
| 781  | Infrastructure | Task    | Closed      | High      | examine behavior of proxy request mappings  | Robert Waltz  | 2011-03-28 16:31 | d1_cn_service         |
| 780  | Infrastructure | Task    | Closed      | High      | AbstractProxyServiceImpl.java largely overridden. Still needed?   | Robert Waltz  | 2011-03-28 16:28 | d1_cn_service         |
| 778  | Infrastructure | Task    | Closed      | High      | refactor proxy.controller.ObjectController - 45+ methods  | Robert Waltz  | 2011-03-28 16:26 | d1_cn_service         |
| 776  | Infrastructure | Task    | Closed      | High      | documentation needed to explain the system of setting up application contexts   | Robert Waltz  | 2014-10-02 17:33 | d1_cn_service         |
| 775  | Infrastructure | Task    | Rejected    | Normal    | more complete tests needed for resolve method   | Robert Waltz  | 2010-10-26 21:03 | d1_cn_service         |
| 774  | Infrastructure | Task    | Closed      | Immediate | implement Node Registry lookup for resolve function   | Rob Nahf      | 2010-10-21 21:17 | d1_cn_service         |
| 773  | Infrastructure | Task    | Closed      | Normal    | Implement Node Identity creation mechanism for nodeList   | Robert Waltz  | 2011-03-16 15:39 | d1_cn_service         |
| 6479 | Infrastructure | Task    | Closed      | Normal    | update SessionAuthorizationUtils to handle nonStandardizable Subject values   | Rob Nahf      | 2014-10-30 19:57 | d1_cn_solr_extensions |
| 3514 | Infrastructure | Bug     | Closed      | Normal    | CN solr search returns the 'text' field   | Skye Roseboom | 2013-05-13 23:37 | d1_cn_solr_extensions |
| 2518 | Infrastructure | Task    | Closed      | Normal    | refactor SessionAuthorization.doFilter()  | Rob Nahf      | 2012-03-23 22:43 | d1_cn_solr_extensions |
| 2516 | Infrastructure | Bug     | Closed      | Normal    | cn.getLogRecords() errors vs. cn-dev  | Rob Nahf      | 2012-03-26 17:29 | d1_cn_solr_extensions |
| 8227 | Infrastructure | Story   | In Progress | Normal    | ExceptionHandler regurgitates long html pages into the wrapping ServiceFailure message, which goes into CN log files. | Rob Nahf      | 2018-01-09 19:10 | d1_common_java        |
| 7910 | Infrastructure | Task    | New         | Normal    | schema validation behavior  | Rob Nahf      | 2018-01-18 02:41 | d1_common_java        |
| 7844 | Infrastructure | Task    | Closed      | Normal    | support deep-copy cloning of service types  | Rob Nahf      | 2016-07-16 17:08 | d1_common_java        |
| 7836 | Infrastructure | Task    | Closed      | Normal    | refactor JibXException out of TypeMarshaller methods  | Rob Nahf      | 2016-07-07 20:21 | d1_common_java        |
| 7833 | Infrastructure | Task    | Closed      | Normal    | compare JAXB generated class files to current classes   | Rob Nahf      | 2016-08-18 21:44 | d1_common_java        |
| 7832 | Infrastructure | Story   | In Progress | Normal    | migrate from JibX to JAXB for XML binding / codegen   | Rob Nahf      | 2018-01-17 19:06 | d1_common_java        |
| 7426 | Infrastructure | Task    | Closed      | Normal    | adjust API signatures in java libraries   | Rob Nahf      | 2015-10-17 23:13 | d1_common_java        |
| 7370 | Infrastructure | Bug     | New         | Normal    | TypeFactory.convertTypeFromType does not use xmlValue comparisons for Enum conversions                                | Rob Nahf      | 2015-09-21 16:07 | d1_common_java        |
| 6851 | Java Client    | Story   | Rejected    | Normal    | converting client-side exception to ServiceFailures is confusing  | Rob Nahf      | 2015-08-04 18:51 | d1_common_java        |
| 6512 | Java Client    | Story   | Closed      | Normal    | d1_common_java 2.0.0 release  | Rob Nahf      | 2016-06-13 23:57 | d1_common_java        |
| 6511 | Java Client    | Task    | New         | Normal    | remove the deprecated MultipartRequestHandler class from d1_common_java   | Rob Nahf      | 2015-02-11 20:04 | d1_common_java        |
| 5315 | Infrastructure | Task    | Closed      | Normal    | create new tag release of d1_test_resources (1.2.1)   | Rob Nahf      | 2014-05-06 17:55 | d1_common_java        |
| 5311 | Infrastructure | Bug     | Closed      | Normal    | MultipartRequestResolver leaking resources (open file handles)  | Rob Nahf      | 2014-05-02 18:14 | d1_common_java        |
| 5126 | Infrastructure | Task    | Closed      | Normal    | create 1.2.0 tag for d1_common_java   | Rob Nahf      | 2014-05-06 17:47 | d1_common_java        |
| 5125 | Infrastructure | Task    | Closed      | Normal    | create v1.2 branch for common_java  | Rob Nahf      | 2014-05-05 21:47 | d1_common_java        |
| 4474 | Infrastructure | Task    | Closed      | Normal    | create new tag release of d1_common_java  | Rob Nahf      | 2014-10-02 20:52 | d1_common_java        |

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| 3769 | Infrastructure | Task    | Closed   | Normal    | Jibx-bind dependencies in d1_common_java are showing up in d1_libclient_java as dependencies | Rob Nahf     | 2013-06-05 22:11 | d1_common_java |
| 3316 | Infrastructure | Story   | Closed   | Normal    | Support query api by adding url-joining feature to D1Url                                     | Rob Nahf     | 2012-10-09 22:16 | d1_common_java |
| 3009 | Infrastructure | Bug     | Closed   | Normal    | NodelistUtil select methods buggy  | Rob Nahf     | 2012-06-28 17:41 | d1_common_java |
| 2781 | Infrastructure | Bug     | Closed   | Immediate | ExceptionHandler needs to handle package-qualified exception names                           | Rob Nahf     | 2012-05-19 09:52 | d1_common_java |
| 2779 | Infrastructure | Task    | Closed   | Normal    | create authorization methods in d1_common_java   | Rob Nahf     | 2012-05-17 21:11 | d1_common_java |
| 2696 | Infrastructure | Task    | Closed   | Normal    | update d1_common and libclient java  | Rob Nahf     | 2012-05-04 20:52 | d1_common_java |
| 2647 | Infrastructure | Task    | Closed   | Normal    | add corresponding session-less methods to the service api                                    | Rob Nahf     | 2012-04-26 03:37 | d1_common_java |
| 2645 | Infrastructure | Story   | Closed   | Normal    | Session handling in java service api   | Rob Nahf     | 2012-05-04 22:49 | d1_common_java |
| 2640 | Infrastructure | Task    | Closed   | Normal    | fix AuthUtils implementation   | Rob Nahf     | 2012-05-02 18:07 | d1_common_java |
| 2639 | Infrastructure | Story   | Closed   | Normal    | daisy-chain equivalent identities causes problems with transitivity                          | Rob Nahf     | 2012-05-08 16:45 | d1_common_java |
| 2541 | Infrastructure | Task    | Closed   | Normal    | update the d1_common_java interfaces   | Rob Nahf     | 2014-10-02 17:54 | d1_common_java |
| 2533 | Infrastructure | Task    | Closed   | Normal    | update the d1_common_java interfaces   | Rob Nahf     | 2012-03-29 16:24 | d1_common_java |
| 2455 | Infrastructure | Task    | Rejected | Normal    | identifiers with supplementary unicode characters not mn.create()                            | Robert Waltz | 2012-03-09 18:31 | d1_common_java |
| 2287 | Infrastructure | Task    | Closed   | Normal    | ObjectList.sizeObjectInfoList() can throw null pointer                                       | Robert Waltz | 2012-02-10 02:02 | d1_common_java |
| 2239 | Infrastructure | Task    | Closed   | Normal    | update Constant for deleteReplMeta   | Rob Nahf     | 2012-01-19 22:28 | d1_common_java |
| 2238 | Infrastructure | Bug     | Closed   | Normal    | deleteReplicationMetadata REST endpoint conflict   | Dave Viegla  | 2012-02-06 23:57 | d1_common_java |
| 2164 | Infrastructure | Task    | Closed   | Normal    | remove UnsupportedQueryType from d1_common_java  | Rob Nahf     | 2012-02-27 17:07 | d1_common_java |
| 2159 | Infrastructure | Task    | Closed   | Normal    | remove assertRelation method from d1_common_java interface                                   | Rob Nahf     | 2012-01-03 18:37 | d1_common_java |
| 2129 | Infrastructure | Task    | Closed   | Normal    | modify ExceptionHandler to handle HEAD exceptions  | Rob Nahf     | 2011-12-09 19:32 | d1_common_java |
| 2009 | Infrastructure | Story   | Closed   | Normal    | update CN api  | Rob Nahf     | 2011-11-08 23:00 | d1_common_java |
| 2006 | Infrastructure | Task    | Closed   | Normal    | update MN service api wrt documentation updates  | Rob Nahf     | 2011-11-07 17:35 | d1_common_java |
| 1669 | Infrastructure | Task    | Closed   | Normal    | update java interfaces and client implementations  | Rob Nahf     | 2012-01-23 19:23 | d1_common_java |
| 1655 | Infrastructure | Bug     | Closed   | Normal    | multipart classes not cleaning up temp files   | Rob Nahf     | 2011-07-01 22:01 | d1_common_java |
| 1492 | Infrastructure | Story   | Closed   | Normal    | SimpleMultipartEntity addFilePart methods signatures are confusing                           | Rob Nahf     | 2011-05-02 16:00 | d1_common_java |
| 1403 | Infrastructure | Story   | Closed   | Normal    | case insensitive parameter support in MultipartRequestResolver                               | Rob Nahf     | 2011-05-31 14:22 | d1_common_java |
| 1308 | Infrastructure | Bug     | Closed   | Normal    | CRUD service interfaces do not allow InvalidRequest for create or update                     |              | 2011-05-02 17:09 | d1_common_java |
| 1290 | Infrastructure | Task    | Closed   | Normal    | MMP not working for PUT operations   |              | 2011-02-04 09:02 | d1_common_java |
| 1273 | Infrastructure | Task    | Closed   | Normal    | create new class for assembling and encoding URLs  | Rob Nahf     | 2011-01-28 17:27 | d1_common_java |
| 1257 | Infrastructure | Task    | Closed   | Normal    | create server-side implementation in d1_common_java  | Robert Waltz | 2011-01-28 03:45 | d1_common_java |
| 1254 | Infrastructure | Task    | Closed   | Normal    | create client-side library in d1_common_java   |              | 2011-01-24 18:09 | d1_common_java |
| 1195 | Infrastructure | Bug     | Closed   | Normal    | CrudService.java error handling problem  | Robert Waltz | 2011-01-31 17:28 | d1_common_java |

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| 855  | Infrastructure | Task    | Closed      | High      | cacti: rework graph trees for better drill-down   | Rob Nahf       | 2010-09-24 18:01 | d1_common_java      |
| 842  | Infrastructure | Task    | Closed      | High      | cacti setup: remap hosts to DNS and add hosts   | Rob Nahf       | 2010-09-23 18:01 | d1_common_java      |
| 2697 | Infrastructure | Task    | Rejected    | Normal    | getReplica(): update d1_common and libclient python   | Roger Dahl     | 2012-05-09 15:46 | d1_common_python    |
| 2543 | Infrastructure | Task    | Closed      | Normal    | update the d1_common_python interface   | Roger Dahl     | 2014-10-02 17:54 | d1_common_python    |
| 2535 | Infrastructure | Task    | Closed      | Normal    | update the d1_common_python interface   | Roger Dahl     | 2012-04-16 19:38 | d1_common_python    |
| 2162 | Infrastructure | Task    | Closed      | Normal    | remove assertRelation method from d1_common_python interface  | Roger Dahl     | 2012-01-10 05:23 | d1_common_python    |
| 2144 | Infrastructure | Task    | Closed      | Normal    | exception service does not return VersionMismatch   | Roger Dahl     | 2012-01-10 05:26 | d1_common_python    |
| 1896 | Infrastructure | Task    | Closed      | Normal    | replace fmtid with formatid in common_python, libclient_python  | Roger Dahl     | 2011-11-04 15:18 | d1_common_python    |
| 1670 | Infrastructure | Task    | Closed      | Normal    | update python implementations related to missing InvalidToken exceptions                                    | Roger Dahl     | 2012-02-13 18:11 | d1_common_python    |
| 7420 | Infrastructure | Task    | Closed      | Normal    | remove systemMetadata map check for v1 and 2 implementation   | Ben Leinfelder | 2015-10-09 20:46 | d1_identity_manager |
| 7419 | Infrastructure | Story   | Closed      | Normal    | hasReservation should not check if an Identifier is already registered                                      | Dave Vieglais  | 2016-03-25 01:19 | d1_identity_manager |
| 7386 | Infrastructure | Bug     | Closed      | Normal    | the ReservelIdentifierService allows SIDs already in use to be reserved.                                    | Ben Leinfelder | 2015-11-10 15:26 | d1_identity_manager |
| 2517 | Infrastructure | Task    | Rejected    | Normal    | refactor IdentityManager's CNIdentityLDAPImpl.getSubjectInfo() to throw NotFound                            | Rob Nahf       | 2012-03-22 20:41 | d1_identity_manager |
| 8850 | Infrastructure | Bug     | New         | Normal    | v2.3.11 RdfXmlSubprocessor / HttpService.getDocumentBySeriesId can be wrong                                 | Jing Tao       | 2019-11-06 18:32 | d1_indexer          |
| 8780 | Infrastructure | Feature | New         | Normal    | Develop support for DataCite 4.0 and 4.1 and 4.2  | Dave Vieglais  | 2019-03-30 20:38 | d1_indexer          |
| 8779 | Infrastructure | Story   | New         | Normal    | ForesiteResourceMap performance issue   | Rob Nahf       | 2019-03-25 18:48 | d1_indexer          |
| 8738 | Infrastructure | Story   | In Progress | Normal    | HZEventFilter performance decline with increased task queue   | Rob Nahf       | 2018-10-30 04:10 | d1_indexer          |
| 8735 | Infrastructure | Bug     | In Progress | Normal    | NPE in IndexTask causes indexing job to fail  | Rob Nahf       | 2018-10-18 18:33 | d1_indexer          |
| 8731 | Infrastructure | Bug     | New         | Normal    | Indexing solr client method is building query with too many ORs, causing errors                             | Rob Nahf       | 2018-10-04 22:25 | d1_indexer          |
| 8726 | Infrastructure | Story   | Closed      | Immediate | Indexer flooded with failed resource map tasks from long ago when tomcat is restarted                       | Jing Tao       | 2019-01-22 19:10 | d1_indexer          |
| 8703 | Infrastructure | Task    | New         | Normal    | test the cleaned up indexer in DEV  | Rob Nahf       | 2018-09-24 18:05 | d1_indexer          |
| 8702 | Infrastructure | Story   | New         | Normal    | Indexing Refactor Strategy  | Rob Nahf       | 2018-09-24 18:05 | d1_indexer          |
| 8700 | Infrastructure | Task    | Closed      | Normal    | downgrade dependencies in indexing trunk to remain consistent with solr 5.2.1                               | Rob Nahf       | 2018-09-21 20:40 | d1_indexer          |
| 8696 | Infrastructure | Bug     | New         | Urgent    | double indexing of a resource map and another not processed because of resource contention (lock) on member | Rob Nahf       | 2018-09-12 00:22 | d1_indexer          |
| 8570 | Infrastructure | Bug     | New         | Normal    | index task not generated for a newly synchronized object  | Jing Tao       | 2018-04-20 20:51 | d1_indexer          |
| 8542 | Infrastructure | Bug     | Closed      | Normal    | resource Map not indexed when the resourceMap SID is used in triples.                                       | Rob Nahf       | 2018-04-14 16:30 | d1_indexer          |
| 8541 | Infrastructure | Bug     | New         | Normal    | index shutdown threw exception  | Rob Nahf       | 2018-04-12 16:44 | d1_indexer          |

| #    | Project        | Tracker | Status      | Priority | Subject   | Assignee        | Updated          | Category   |
|------|----------------|---------|-------------|----------|---|-----------------|------------------|------------|
| 8540 | Infrastructure | Story   | New         | Normal   | interesting 15 minute Hazelcast timeout in IndexProcessor   | Rob Nahf        | 2018-04-12 04:32 | d1_indexer |
| 8537 | Infrastructure | Story   | New         | Normal   | indexer doesn't populate SID-defined relationships unless new resourceMap is submitted                                | Rob Nahf        | 2018-04-09 22:51 | d1_indexer |
| 8536 | Infrastructure | Bug     | In Progress | Normal   | resource Map update when metadata SID is used is not indexed  | Rob Nahf        | 2018-04-12 20:55 | d1_indexer |
| 8363 | Infrastructure | Story   | New         | Normal   | indexer shutdown generates index tasks  | Rob Nahf        | 2018-09-24 15:25 | d1_indexer |
| 8361 | Infrastructure | Bug     | New         | Normal   | index processor throws unhandled NPE if task systemMetadata is null   | Rob Nahf        | 2018-03-22 16:54 | d1_indexer |
| 8222 | Infrastructure | Task    | New         | Normal   | reindex all isotc211 content in production to reflect final decisions from origin field mapping                       | Dave Vieglais   | 2018-03-22 16:56 | d1_indexer |
| 8182 | Infrastructure | Bug     | New         | Normal   | relationships defined using SIDs in resource maps don't stay current  | Rob Nahf        | 2017-09-12 00:13 | d1_indexer |
| 8173 | Infrastructure | Story   | New         | High     | add checks for retrograde systemMetadata changes  | Jing Tao        | 2018-01-17 18:38 | d1_indexer |
| 8172 | Infrastructure | Story   | In Progress | Normal   | investigate atomic updates for some solr updates  | Rob Nahf        | 2018-01-17 18:39 | d1_indexer |
| 8093 | Infrastructure | Bug     | New         | Normal   | resource map index processing is inefficient (2sec / referenced object)   | Rob Nahf        | 2017-05-10 20:00 | d1_indexer |
| 8086 | Infrastructure | Task    | In Progress | Normal   | upgrade Spring dependencies   | Rob Nahf        | 2019-07-25 20:32 | d1_indexer |
| 8084 | Infrastructure | Story   | New         | Normal   | determine the backup strategy for rabbitMQ  | Rob Nahf        | 2018-01-17 18:46 | d1_indexer |
| 8082 | Infrastructure | Story   | New         | Normal   | implement SolrCloudClient to replace HttpService to allow concurrent updates of the solr index from differen machines | Rob Nahf        | 2018-01-09 19:10 | d1_indexer |
| 8081 | Infrastructure | Story   | In Progress | Normal   | develop federated broker configuration for indexing   | Rob Nahf        | 2018-01-17 18:46 | d1_indexer |
| 8080 | Infrastructure | Task    | In Progress | Normal   | ioslate queue creation logic from processing logic from the queue definition logic                                    | Rob Nahf        | 2017-05-09 22:55 | d1_indexer |
| 8079 | Infrastructure | Task    | In Progress | Normal   | prototype durable task processing for d1_index_processor  | Rob Nahf        | 2017-04-26 05:45 | d1_indexer |
| 8078 | Infrastructure | Task    | New         | Normal   | standardize task serialization for language independence  | Rob Nahf        | 2017-04-25 22:39 | d1_indexer |
| 7886 | Infrastructure | Bug     | Closed      | Normal   | double xml-escaping allowed by encoding the value upon SolrField creation and SolrElementField serialization          | Rob Nahf        | 2016-09-12 21:48 | d1_indexer |
| 7881 | Infrastructure | Bug     | Closed      | Normal   | index processor is failing on documents containing certain characters   | Rob Nahf        | 2016-09-08 21:11 | d1_indexer |
| 7407 | Infrastructure | Story   | In Progress | Normal   | object formats in the d1_common_java bootstrap list are inconsistent with production                                  | Dave Vieglais   | 2016-03-15 16:49 | d1_indexer |
| 3723 | Infrastructure | Task    | Closed      | Normal   | refactor indexer to use libclient_java parser for getting triples   | Chris Brumgard  | 2013-09-19 19:17 | d1_indexer |
| 3676 | Infrastructure | Task    | Closed      | High     | design proposal for archive   | Rob Nahf        | 2018-09-21 21:00 | d1_indexer |
| 3675 | Infrastructure | Bug     | New         | High     | package relationships not available for archived objects  | Rob Nahf        | 2018-09-21 21:01 | d1_indexer |
| 3339 | Infrastructure | Task    | Closed      | Normal   | utilize AuthUtils methods for search() / query()  | Skye Roseboom   | 2012-10-17 16:41 | d1_indexer |
| 1386 | Infrastructure | Story   | Closed      | Normal   | Generation of SOLR index for Mercury  | Dave Vieglais   | 2017-09-05 16:26 | d1_indexer |
| 784  | Infrastructure | Task    | Rejected    | Low      | Test that Mercury finds the harvested files in their subdirectories   | Rob Nahf        | 2012-10-16 21:34 | d1_indexer |
| 779  | Infrastructure | Task    | Rejected    | Normal   | consider refactoring long methods   | Giri Palanisamy | 2010-10-07 16:48 | d1_indexer |

| #    | Project        | Tracker | Status      | Priority | Subject   | Assignee     | Updated          | Category       |
|------|----------------|---------|-------------|----------|---|--------------|------------------|----------------|
| 7615 | Infrastructure | Task    | Closed      | Normal   | tag and release d1_integration  | Rob Nahf     | 2016-02-11 20:49 | d1_integration |
| 7462 | Infrastructure | Bug     | Closed      | Normal   | integration tests are getting frequent read timeouts                            | Rob Nahf     | 2016-01-19 18:41 | d1_integration |
| 6854 | Infrastructure | Feature | In Progress | Normal   | add testAssumptionFailure to run listener                                       | Rob Nahf     | 2016-01-26 22:30 | d1_integration |
| 6774 | Infrastructure | Task    | Closed      | Normal   | make test certificate subject labels (filenames) Windows compatible             | Andrei Buium | 2015-07-01 16:18 | d1_integration |
| 6739 | Infrastructure | Task    | Closed      | Normal   | design versioning options and user workflow                                     | Rob Nahf     | 2016-01-21 16:09 | d1_integration |
| 6737 | Infrastructure | Task    | Closed      | Normal   | refactor existing API test classes  | Andrei Buium | 2015-07-01 16:18 | d1_integration |
| 6731 | Infrastructure | Task    | Closed      | Normal   | test new tests against v1 MNs and CNs   | Rob Nahf     | 2015-07-01 16:18 | d1_integration |
| 6730 | Infrastructure | Story   | Closed      | Normal   | deploy v2 MNWebTester   | Rob Nahf     | 2016-02-11 20:49 | d1_integration |
| 6727 | Infrastructure | Task    | Closed      | Normal   | refactor tests for reuse  | Rob Nahf     | 2015-07-01 16:18 | d1_integration |
| 6724 | Infrastructure | Task    | Closed      | Normal   | refactor d1_integration for v2  | Rob Nahf     | 2016-03-25 01:21 | d1_integration |
| 6723 | Infrastructure | Story   | Closed      | Normal   | test v2 MN and CN buildouts   | Rob Nahf     | 2016-03-25 01:21 | d1_integration |
| 6013 | Infrastructure | Bug     | Closed      | Normal   | Checksum of some objects not calculated properly in the MN web tester           | Rob Nahf     | 2014-07-30 21:24 | d1_integration |
| 3672 | Infrastructure | Task    | Rejected    | Normal   | integration test for checking archived upon update                              | Rob Nahf     | 2013-03-22 17:49 | d1_integration |
| 3594 | Infrastructure | Task    | Closed      | Normal   | enable the systemMetadataChanged tests  | Rob Nahf     | 2013-02-20 09:57 | d1_integration |
| 3593 | Infrastructure | Task    | Closed      | Normal   | write a test for parsing ResourceMaps   | Rob Nahf     | 2014-10-01 22:04 | d1_integration |
| 3592 | Infrastructure | Task    | Closed      | Normal   | write test that checks checksum consistency                                     | Rob Nahf     | 2014-10-01 22:04 | d1_integration |
| 3368 | Infrastructure | Task    | Closed      | Normal   | build new WebTester that contains the PEMReader close fixes                     | Rob Nahf     | 2014-10-01 22:08 | d1_integration |
| 3367 | Infrastructure | Story   | Rejected    | Normal   | WebTester crashes periodically  | Rob Nahf     | 2018-01-17 20:26 | d1_integration |
| 3284 | Infrastructure | Task    | Closed      | Normal   | write integration tests for query(), listQueryEngines(), describeQueryEngines() | Rob Nahf     | 2012-10-25 15:10 | d1_integration |
| 3227 | Infrastructure | Task    | Closed      | Normal   | update mncheck (WebTester machine)  | Rob Nahf     | 2012-09-06 21:04 | d1_integration |
| 3163 | Infrastructure | Task    | Closed      | Normal   | split out known long-running tests into separate test classes by Tier           | Rob Nahf     | 2014-10-02 17:43 | d1_integration |
| 3145 | Infrastructure | Task    | Closed      | Normal   | remove out.close() from TestRunnerHttpServlet                                   | Rob Nahf     | 2014-10-02 17:43 | d1_integration |
| 3144 | Infrastructure | Bug     | Closed      | Normal   | Recent WebTester's not accepting baseurl's                                      | Rob Nahf     | 2012-08-17 16:12 | d1_integration |
| 3143 | Infrastructure | Task    | Closed      | Normal   | change the tomcat garbage collector   | Rob Nahf     | 2014-10-02 17:43 | d1_integration |
| 3126 | Infrastructure | Task    | Closed      | Normal   | try running JUnit tests in parallel   | Rob Nahf     | 2018-01-17 20:31 | d1_integration |
| 3125 | Infrastructure | Task    | Closed      | Normal   | refactor the web-test http servlet to stream test results as they come in       | Rob Nahf     | 2014-10-02 17:43 | d1_integration |
| 3124 | Infrastructure | Task    | Closed      | Normal   | webTester seems unresponsive when running long tests                            | Rob Nahf     | 2014-10-02 17:43 | d1_integration |
| 2956 | Infrastructure | Task    | In Progress | Normal   | content-checking tests for MNs entering an environment                          | Rob Nahf     | 2014-10-01 22:04 | d1_integration |
| 2950 | Infrastructure | Story   | Closed      | Normal   | create integration tests for CN-dependent MN calls                              | Rob Nahf     | 2018-01-17 20:28 | d1_integration |
| 2783 | Infrastructure | Task    | Closed      | Normal   | install new test client certificates onto mncheck ("MN Web Tester")             | Rob Nahf     | 2012-05-19 09:45 | d1_integration |
| 2763 | Infrastructure | Story   | Closed      | Normal   | WebTester is unresponsive and seems to hang                                     | Rob Nahf     | 2018-01-17 20:32 | d1_integration |



| #    | Project        | Tracker | Status   | Priority | Subject   | Assignee       | Updated          | Category          |
|------|----------------|---------|----------|----------|---|----------------|------------------|-------------------|
| 2747 | Infrastructure | Task    | Closed   | Normal   | fix testListObjects_FormatIDFilter test to work around the limitation               | Rob Nahf       | 2012-10-08 16:51 | d1_integration    |
| 2728 | Infrastructure | Task    | Closed   | Normal   | create a test object with a complicated access policy                               | Rob Nahf       | 2012-05-10 18:52 | d1_integration    |
| 2727 | Infrastructure | Story   | Closed   | Normal   | need to test multi-rule access policy   | Rob Nahf       | 2012-05-10 18:54 | d1_integration    |
| 2649 | Infrastructure | Task    | Closed   | Normal   | update architecture conformity tests  | Rob Nahf       | 2012-05-04 22:47 | d1_integration    |
| 2641 | Infrastructure | Task    | Closed   | Normal   | create integration tests for daisy-chained relationships                            | Rob Nahf       | 2012-05-08 16:44 | d1_integration    |
| 2625 | Infrastructure | Story   | Closed   | Normal   | generate test certificates under the new dataone (test) CA                          | Rob Nahf       | 2012-05-19 09:48 | d1_integration    |
| 2545 | Infrastructure | Task    | New      | Normal   | create d1_integration tests using for MN.generateIdentifier                         | Rob Nahf       | 2014-10-02 17:54 | d1_integration    |
| 2537 | Infrastructure | Task    | Closed   | Normal   | create d1_integration tests using pidFilter   | Rob Nahf       | 2012-05-23 05:52 | d1_integration    |
| 2328 | Infrastructure | Task    | Closed   | Normal   | refactor authorization tests according to testing design                            | Rob Nahf       | 2012-02-24 17:57 | d1_integration    |
| 2275 | Infrastructure | Task    | Closed   | Normal   | run architecture tests  | Rob Nahf       | 2012-02-07 23:45 | d1_integration    |
| 2256 | Infrastructure | Task    | Closed   | Normal   | test access via mapped identity   | Rob Nahf       | 2012-01-31 17:53 | d1_integration    |
| 2163 | Infrastructure | Story   | Closed   | Normal   | cn.search() what exception thrown when queryType not recognized?                    | Dave Vieglaiss | 2014-10-02 17:10 | d1_integration    |
| 2066 | Infrastructure | Task    | Closed   | Normal   | create test for looping through all API methods and invoking them                   | Rob Nahf       | 2011-11-28 23:33 | d1_integration    |
| 2064 | Infrastructure | Story   | Closed   | Normal   | integration testing client vs architecture  | Rob Nahf       | 2012-02-07 23:47 | d1_integration    |
| 2063 | Infrastructure | Task    | Closed   | Normal   | add expired certificate "testUser"  | Rob Nahf       | 2012-01-24 17:44 | d1_integration    |
| 1951 | Infrastructure | Task    | Closed   | Normal   | refactor MNWebTester index page(s) to display version and release info              | Skye Roseboom  | 2011-11-15 21:20 | d1_integration    |
| 1949 | Infrastructure | Task    | Closed   | Normal   | create "index" MNWebTester page for getting to multiple test versions               | Skye Roseboom  | 2011-11-15 19:58 | d1_integration    |
| 1947 | Infrastructure | Support | Closed   | Normal   | deploy MNWebTester for v1.0.0   | Rob Nahf       | 2011-12-19 17:27 | d1_integration    |
| 1903 | Infrastructure | Task    | Closed   | Normal   | review CN api tests   | Rob Nahf       | 2012-06-15 16:30 | d1_integration    |
| 1899 | Infrastructure | Story   | Closed   | High     | Integration Testing: test for correct response to invalid input                     | Rob Nahf       | 2013-01-02 15:57 | d1_integration    |
| 1663 | Infrastructure | Task    | Closed   | Normal   | update ExampleUtilities methods for building SMD                                    | Rob Nahf       | 2011-08-31 18:03 | d1_integration    |
| 1571 | Infrastructure | Task    | Rejected | Normal   | move all existing java tests to src/main/java                                       | Rob Nahf       | 2011-05-27 19:39 | d1_integration    |
| 1570 | Infrastructure | Task    | Closed   | Normal   | refactor existing java tests to accept System parameters passed in from the servlet | Rob Nahf       | 2011-08-16 18:16 | d1_integration    |
| 1569 | Infrastructure | Task    | Closed   | Normal   | document the testing strategy and design  | Rob Nahf       | 2011-05-24 21:13 | d1_integration    |
| 1568 | Infrastructure | Task    | Closed   | Normal   | implement the response format from wstest package (results.html)                    | Rob Nahf       | 2011-05-27 19:44 | d1_integration    |
| 1566 | Infrastructure | Support | Closed   | Normal   | member node web testing   | Rob Nahf       | 2011-08-30 16:59 | d1_integration    |
| 8230 | Infrastructure | Task    | New      | Normal   | review bouncy castle version  | Rob Nahf       | 2018-03-02 21:48 | d1_libclient_java |
| 8045 | Infrastructure | Bug     | New      | Normal   | certificateLocation not seeming to be utilized                                      | Rob Nahf       | 2017-03-14 20:45 | d1_libclient_java |
| 8044 | Infrastructure | Story   | New      | Normal   | certificate manager should check expiration of CAs it loads into the trust manager. | Rob Nahf       | 2018-01-09 19:10 | d1_libclient_java |
| 7826 | Java Client    | Bug     | Closed   | Normal   | libclient_java susceptible to hangs due to network issues                           | Rob Nahf       | 2017-03-28 18:07 | d1_libclient_java |

| #    | Project        | Tracker | Status      | Priority | Subject  | Assignee     | Updated          | Category          |
|------|----------------|---------|-------------|----------|--|--------------|------------------|-------------------|
| 7822 | Infrastructure | Task    | New         | Normal   | Should we configure clients to use Expect 100-Continue header in 1.1 requests                    | Rob Nahf     | 2016-06-03 19:46 | d1_libclient_java |
| 7801 | Infrastructure | Story   | Closed      | Normal   | Support for Let's Encrypt certificates   | Rob Nahf     | 2018-01-17 19:17 | d1_libclient_java |
| 7675 | Java Client    | Bug     | Closed      | Normal   | Pooling connection manager leaves sockets in CLOSE_WAIT state                                    | Rob Nahf     | 2016-04-01 17:28 | d1_libclient_java |
| 7642 | Infrastructure | Bug     | Closed      | Normal   | D1Client.getCN(Session s) method doesn't use the session   | Rob Nahf     | 2016-02-16 20:20 | d1_libclient_java |
| 7638 | Infrastructure | Task    | Closed      | Normal   | deprecate the RestClient header methods  | Rob Nahf     | 2016-03-25 02:29 | d1_libclient_java |
| 7636 | Infrastructure | Task    | Closed      | Normal   | make singletons thread-safe  | Rob Nahf     | 2016-04-01 17:19 | d1_libclient_java |
| 7635 | Infrastructure | Story   | Closed      | Normal   | thread-safety in libclient_java  | Rob Nahf     | 2016-04-01 17:21 | d1_libclient_java |
| 7634 | Infrastructure | Task    | Closed      | Normal   | refactor libclient to use the custom socket configuration...                                     | Rob Nahf     | 2016-02-03 22:00 | d1_libclient_java |
| 7633 | Infrastructure | Task    | Closed      | Normal   | refactor libclient to remove synchronized from the 2 key methods                                 | Rob Nahf     | 2016-04-01 17:21 | d1_libclient_java |
| 7546 | Infrastructure | Bug     | Closed      | Normal   | ObjectFormatCache can't be instantiated if local file is not findable                            | Rob Nahf     | 2016-02-10 21:44 | d1_libclient_java |
| 7538 | Infrastructure | Task    | New         | Normal   | look at nodeFactory in how it builds mock CNodes   | Rob Nahf     | 2015-12-10 17:03 | d1_libclient_java |
| 7537 | Infrastructure | Task    | New         | Normal   | add nodelist refreshes to NodeLocator classes  | Rob Nahf     | 2015-12-10 16:59 | d1_libclient_java |
| 7536 | Infrastructure | Task    | Closed      | Normal   | fix D1Client so that it refreshes the nodelist if MN not found                                   | Rob Nahf     | 2015-12-10 16:52 | d1_libclient_java |
| 7523 | Infrastructure | Bug     | In Progress | Normal   | D1Client no longer updates stale NodeList  | Rob Nahf     | 2016-04-19 22:27 | d1_libclient_java |
| 7463 | Infrastructure | Task    | Closed      | Normal   | configure the HttpClient to allow more parallel connections                                      | Rob Nahf     | 2016-01-05 19:18 | d1_libclient_java |
| 7451 | Infrastructure | Feature | Closed      | Normal   | authorization token support in libclient   | Rob Nahf     | 2016-04-19 18:23 | d1_libclient_java |
| 7446 | Infrastructure | Story   | Closed      | Normal   | D1Object in libclient should align submitter / rightsHolder setting with sysmeta required fields | Rob Nahf     | 2015-10-20 18:44 | d1_libclient_java |
| 7445 | Infrastructure | Bug     | Closed      | Low      | missing maven artifact jdbc-stdext preventing libclient_java build                               | Rob Nahf     | 2015-10-20 18:36 | d1_libclient_java |
| 7313 | Java Client    | Bug     | Closed      | Normal   | cn.synchronize not closing the inputstream.  | Rob Nahf     | 2015-08-24 19:02 | d1_libclient_java |
| 7312 | Java Client    | Feature | New         | Normal   | Restart connection manager   |              | 2015-08-24 17:24 | d1_libclient_java |
| 7180 | Infrastructure | Task    | Closed      | Normal   | add d1_libclient_java implementation   | Rob Nahf     | 2015-06-12 21:39 | d1_libclient_java |
| 7133 | Java Client    | Task    | Closed      | Normal   | implement protocol preference in d1_libclient_java v2.0 (trunk)                                  | Rob Nahf     | 2015-05-26 23:31 | d1_libclient_java |
| 7132 | Java Client    | Task    | Closed      | Normal   | implement protocol preference in d1_libclient_java v1.4 branch                                   | Rob Nahf     | 2015-05-26 23:30 | d1_libclient_java |
| 7131 | Java Client    | Task    | Closed      | Normal   | implement a TLS protocol preference property in auth.properties                                  | Rob Nahf     | 2015-05-26 23:35 | d1_libclient_java |
| 7060 | Java Client    | Story   | Rejected    | High     | refactor CertificateManager to specify TLSv1.2 in v1.x branch                                    | Rob Nahf     | 2015-05-26 23:32 | d1_libclient_java |
| 7058 | Java Client    | Bug     | Closed      | Normal   | cannot successfully connect to SAEON node that only uses TLSv1.2                                 | Rob Nahf     | 2017-03-28 17:58 | d1_libclient_java |
| 6850 | Java Client    | Story   | New         | Normal   | automate Java Client releases  | Rob Nahf     | 2018-01-17 19:42 | d1_libclient_java |
| 6845 | Java Client    | Task    | Closed      | Normal   | Look into why the CNs are hanging connections  | Rob Nahf     | 2016-05-07 07:52 | d1_libclient_java |
| 6844 | Java Client    | Task    | Closed      | Normal   | add default timeout settings into libclient  | Andrei Buium | 2015-08-04 18:55 | d1_libclient_java |
| 6842 | Java Client    | Task    | Closed      | Normal   | expose the session information in CertificateManager   | Rob Nahf     | 2015-02-11 18:32 | d1_libclient_java |
| 6788 | Java Client    | Task    | Closed      | Normal   | refactor how the Multipart*Nodes get their rest client   | Rob Nahf     | 2015-02-11 18:33 | d1_libclient_java |
| 6560 | Java Client    | Story   | Closed      | Normal   | in v2, remove LocalCache from get and getSytemMetadata calls                                     | Rob Nahf     | 2016-04-19 23:14 | d1_libclient_java |

| #    | Project        | Tracker | Status      | Priority | Subject  | Assignee | Updated          | Category          |
|------|----------------|---------|-------------|----------|--|----------|------------------|-------------------|
| 6559 | Infrastructure | Task    | Closed      | Normal   | in v1, turn off localCache by default, and add a size limit to avoid out of memory issues. | Rob Nahf | 2014-12-15 18:37 | d1_libclient_java |
| 6510 | Infrastructure | Task    | Closed      | Normal   | libclient_java 1.3.1 Release   | Rob Nahf | 2015-02-11 20:22 | d1_libclient_java |
| 6509 | Java Client    | Story   | Closed      | Normal   | libclient_java 2.0 Release   | Rob Nahf | 2016-06-13 23:55 | d1_libclient_java |
| 6508 | Java Client    | Story   | Rejected    | Normal   | libclient_java 1.4.0 Release   | Rob Nahf | 2018-01-17 19:48 | d1_libclient_java |
| 6494 | Infrastructure | Story   | Closed      | Normal   | Remove local caching of inputstreams from v1 API method implementations                    | Rob Nahf | 2014-12-15 18:27 | d1_libclient_java |
| 5124 | Infrastructure | Task    | Closed      | Normal   | create 1.3.0 tag for libclient_java  | Rob Nahf | 2014-05-06 17:52 | d1_libclient_java |
| 5123 | Infrastructure | Task    | Closed      | Normal   | create v1.3 branch for libclient_java  | Rob Nahf | 2014-05-05 21:47 | d1_libclient_java |
| 4789 | Infrastructure | Task    | Closed      | Normal   | Refactor comparators for release   | Rob Nahf | 2014-05-05 21:47 | d1_libclient_java |
| 4475 | Infrastructure | Story   | Closed      | Normal   | libclient_java 1.3.0 Release   | Rob Nahf | 2015-02-11 20:40 | d1_libclient_java |
| 3930 | Infrastructure | Task    | Closed      | Normal   | create release process document in Development docs  | Rob Nahf | 2013-08-19 20:59 | d1_libclient_java |
| 3772 | Infrastructure | Task    | Closed      | Normal   | determine how to automatically deploy the archives to releases.dataone.org                 | Rob Nahf | 2013-05-31 16:26 | d1_libclient_java |
| 3771 | Infrastructure | Task    | Closed      | Normal   | create maven assembly configuration to build the archive                                   | Rob Nahf | 2013-05-31 16:26 | d1_libclient_java |
| 3770 | Infrastructure | Story   | Closed      | Normal   | member nodes want to be able to use libclient without having to rely on maven              | Rob Nahf | 2013-06-05 22:13 | d1_libclient_java |
| 3722 | Infrastructure | Task    | Closed      | Normal   | build an RDFS reasoner-based parser to get triples   | Rob Nahf | 2013-08-06 16:04 | d1_libclient_java |
| 3721 | Java Client    | Task    | In Progress | Normal   | add resource map validation routine to libclient_java                                      | Rob Nahf | 2015-02-11 20:42 | d1_libclient_java |
| 3666 | Java Client    | Story   | In Progress | Low      | D1Client.listUpdateHistory() needs to handle changing access policies                      | Rob Nahf | 2018-01-17 20:19 | d1_libclient_java |
| 3541 | Infrastructure | Task    | Closed      | Normal   | design and build the ObsoletesChain object   | Rob Nahf | 2014-10-01 23:05 | d1_libclient_java |
| 3540 | Infrastructure | Task    | Closed      | Normal   | design and build getObsoletesChain method  | Rob Nahf | 2014-10-01 23:04 | d1_libclient_java |
| 3448 | Infrastructure | Story   | Closed      | Normal   | add (client) methods to traverse obsoletes chain   | Rob Nahf | 2014-10-01 23:05 | d1_libclient_java |
| 3369 | Infrastructure | Bug     | Closed      | Normal   | new HttpClient version causing SSLSocketException: "Socket is closed"                      | Rob Nahf | 2014-12-15 18:32 | d1_libclient_java |
| 3343 | Infrastructure | Task    | Closed      | High     | configure CertificateManager to look for trusted certificates outside of package           | Rob Nahf | 2012-12-12 18:51 | d1_libclient_java |
| 3342 | Infrastructure | Story   | Closed      | High     | support use of dataone-trusted-CAs in libclient_java and python                            | Rob Nahf | 2012-12-12 18:52 | d1_libclient_java |
| 3341 | Infrastructure | Bug     | Closed      | High     | found unclosed PEMReaders in libclient (CertMan). need to fix in v1.0 branch               | Rob Nahf | 2013-03-01 20:04 | d1_libclient_java |
| 3297 | Infrastructure | Story   | Closed      | Normal   | make libclient useable for developers  | Rob Nahf | 2013-08-19 21:00 | d1_libclient_java |
| 3286 | Infrastructure | Task    | Rejected    | Normal   | review default production environment in lib client  | Rob Nahf | 2013-08-14 14:31 | d1_libclient_java |
| 3285 | Infrastructure | Task    | Closed      | Normal   | develop libclient developers usage document  | Rob Nahf | 2013-08-14 14:31 | d1_libclient_java |
| 3281 | Infrastructure | Story   | Closed      | Normal   | refactor "facade" methods from D1Object  | Rob Nahf | 2013-08-07 19:26 | d1_libclient_java |
| 3280 | Infrastructure | Task    | Closed      | Normal   | put d1_libclient_java jar on releases.dataone.org  | Rob Nahf | 2013-08-14 14:31 | d1_libclient_java |

| #    | Project        | Tracker | Status      | Priority | Subject   | Assignee | Updated          | Category          |
|------|----------------|---------|-------------|----------|---|----------|------------------|-------------------|
| 3165 | Java Client    | Bug     | New         | Low      | Libclient caching does not respect accessPolicies                                       | Rob Nahf | 2015-02-11 18:37 | d1_libclient_java |
| 3105 | Infrastructure | Story   | Closed      | Normal   | LocalCache doesn't expose or document a way to shutdown the JCS caches                  | Rob Nahf | 2012-07-26 21:09 | d1_libclient_java |
| 3104 | Infrastructure | Bug     | Rejected    | Normal   | LocalCache in libclient_java can't be disabled  | Rob Nahf | 2012-07-26 22:16 | d1_libclient_java |
| 3086 | Infrastructure | Bug     | Closed      | Normal   | d1_auditing_java can't control logging statements.                                      | Rob Nahf | 2012-08-10 17:19 | d1_libclient_java |
| 3058 | Infrastructure | Story   | Closed      | High     | upgrade HTTPComponents from 4.1.3 to 4.2.1  | Rob Nahf | 2014-12-15 18:04 | d1_libclient_java |
| 3057 | Java Client    | Task    | In Progress | Normal   | retest CLOSE_WAIT issue once the lib client is complete.                                | Rob Nahf | 2015-02-11 19:52 | d1_libclient_java |
| 3028 | Infrastructure | Bug     | Closed      | Normal   | D1Client.getMN(NodeReference) doesn't raise exception when a node not found in nodelist | Rob Nahf | 2012-06-28 17:38 | d1_libclient_java |
| 2968 | Java Client    | Bug     | New         | Normal   | cn.getFormat() doesn't use cn associated with the CNode object                          | Rob Nahf | 2015-02-11 20:56 | d1_libclient_java |
| 2752 | Infrastructure | Task    | Rejected    | Urgent   | fix determinSession() method  | Rob Nahf | 2012-05-11 19:51 | d1_libclient_java |
| 2751 | Infrastructure | Task    | Closed      | Normal   | add setSession() method to D1Node class ?   | Rob Nahf | 2012-05-11 19:54 | d1_libclient_java |
| 2750 | Infrastructure | Task    | Closed      | High     | add D1Client.getCN(Session session) method  | Rob Nahf | 2012-05-11 19:56 | d1_libclient_java |
| 2650 | Infrastructure | Task    | Closed      | Normal   | add a D1Node constructor that takes a Session object                                    | Rob Nahf | 2012-04-26 17:05 | d1_libclient_java |
| 2648 | Infrastructure | Task    | Closed      | Normal   | add corresponding session-less methods to the client implementations                    | Rob Nahf | 2012-04-26 03:38 | d1_libclient_java |
| 2637 | Infrastructure | Task    | Closed      | Normal   | update java interfaces and client implementations                                       | Rob Nahf | 2012-04-23 19:27 | d1_libclient_java |
| 2542 | Infrastructure | Task    | Closed      | Normal   | update the libclient_java   | Rob Nahf | 2014-10-02 17:54 | d1_libclient_java |
| 2534 | Infrastructure | Task    | Closed      | Normal   | update the libclient_java   | Rob Nahf | 2012-03-29 16:24 | d1_libclient_java |
| 2457 | Infrastructure | Bug     | Closed      | High     | client cn.resolve() follows the redirect  | Rob Nahf | 2012-03-08 05:53 | d1_libclient_java |
| 2419 | Infrastructure | Bug     | Rejected    | Normal   | cn.describe() throwing NPE when content-length not set                                  | Rob Nahf | 2012-03-19 15:56 | d1_libclient_java |
| 2312 | Infrastructure | Task    | Closed      | Urgent   | minor refactor of ObjectFormatCache for better stability                                | Rob Nahf | 2012-02-11 02:28 | d1_libclient_java |
| 2274 | Infrastructure | Task    | Rejected    | Urgent   | refactor cn.listSubjects to return SubjectList (as documented)                          | Rob Nahf | 2012-01-31 22:07 | d1_libclient_java |
| 2253 | Java Client    | Story   | Rejected    | Normal   | refactor libclient_java communication to enable unit testing via mock client            | Rob Nahf | 2018-01-17 20:39 | d1_libclient_java |
| 2246 | Java Client    | Story   | Closed      | Normal   | refactor libclient_java connection management   | Rob Nahf | 2015-08-04 18:42 | d1_libclient_java |
| 2237 | Infrastructure | Task    | Closed      | Normal   | refactor get() and getReplica() to buffer the input stream to allow connection close    | Rob Nahf | 2012-01-19 19:39 | d1_libclient_java |
| 2236 | Infrastructure | Task    | Closed      | Normal   | refactor client methods to explicitly close the connection after consuming content      | Rob Nahf | 2012-01-19 17:12 | d1_libclient_java |
| 2235 | Infrastructure | Task    | Closed      | Normal   | add method to D1RestClient that allows caller to close the connection                   | Rob Nahf | 2012-01-19 17:11 | d1_libclient_java |
| 2234 | Infrastructure | Task    | Closed      | Normal   | ensure that all content input streams are consumed                                      | Rob Nahf | 2012-01-19 17:08 | d1_libclient_java |
| 2199 | Infrastructure | Task    | Rejected    | Normal   | add new methods to java service API   | Rob Nahf | 2012-01-17 18:17 | d1_libclient_java |
| 2160 | Infrastructure | Task    | Closed      | Normal   | remove assertRelation method from d1_libclient_java interface                           | Rob Nahf | 2012-01-03 18:37 | d1_libclient_java |

| #    | Project          | Tracker | Status      | Priority | Subject   | Assignee      | Updated          | Category            |
|------|------------------|---------|-------------|----------|---|---------------|------------------|---------------------|
| 2127 | Infrastructure   | Task    | Closed      | Normal   | correct bugs and inconsistencies  | Rob Nahf      | 2011-12-12 17:07 | d1_libclient_java   |
| 2010 | Infrastructure   | Task    | Closed      | Normal   | update the libclient  | Rob Nahf      | 2011-11-08 23:10 | d1_libclient_java   |
| 2007 | Infrastructure   | Task    | Closed      | Normal   | update libclient MNode methods  | Rob Nahf      | 2011-11-07 17:37 | d1_libclient_java   |
| 1895 | Infrastructure   | Task    | Closed      | Normal   | replace fmtid in d1_common_java method definitions with formatid            | Rob Nahf      | 2011-10-25 22:30 | d1_libclient_java   |
| 1854 | Infrastructure   | Task    | Closed      | Normal   | create getFields() method for accessing Solr fields                         | Rob Nahf      | 2011-10-13 22:48 | d1_libclient_java   |
| 1853 | Infrastructure   | Task    | Closed      | Normal   | create convenience methods for search                                       | Rob Nahf      | 2011-10-13 22:48 | d1_libclient_java   |
| 1852 | Infrastructure   | Task    | Closed      | Normal   | implement search(SolrQuery) method in CNode                                 | Rob Nahf      | 2011-10-13 16:14 | d1_libclient_java   |
| 1700 | Infrastructure   | Task    | Rejected    | Normal   | refactor d1_libclient_java to support use of multiple certificates          | Rob Nahf      | 2012-02-08 22:29 | d1_libclient_java   |
| 1606 | Infrastructure   | Task    | Closed      | Normal   | implement 0.6.2 interfaces in d1_libclient_java (D1Node, MNode, CNode)      | Rob Nahf      | 2011-08-16 18:13 | d1_libclient_java   |
| 1351 | Infrastructure   | Task    | Closed      | Normal   | update MNode.java to use obsoletedPid                                       | Rob Nahf      | 2011-03-07 22:44 | d1_libclient_java   |
| 1325 | Infrastructure   | Story   | Rejected    | Normal   | java RestClient support non-mmp post  |               | 2012-02-08 20:08 | d1_libclient_java   |
| 1289 | Infrastructure   | Task    | Closed      | High     | switch CNode public methods to use new D1RestClient class                   | Rob Nahf      | 2011-03-14 18:36 | d1_libclient_java   |
| 1274 | Infrastructure   | Task    | Closed      | Normal   | map existing public methods to new classes.                                 | Rob Nahf      | 2011-03-14 18:36 | d1_libclient_java   |
| 1272 | Infrastructure   | Task    | Closed      | Normal   | create new class for handling all REST calls                                | Rob Nahf      | 2011-01-28 17:21 | d1_libclient_java   |
| 1271 | Infrastructure   | Story   | Closed      | High     | Refactor d1_libclient_java to work with new MMP handlers                    | Rob Nahf      | 2011-03-14 18:39 | d1_libclient_java   |
| 1258 | Infrastructure   | Task    | Closed      | High     | flesh out unit and integration tests  | Rob Nahf      | 2011-02-03 19:07 | d1_libclient_java   |
| 1256 | Infrastructure   | Task    | Closed      | Normal   | create libclient method tests   | Rob Nahf      | 2011-01-24 17:59 | d1_libclient_java   |
| 1249 | Infrastructure   | Task    | Closed      | Normal   | write new create method in d1_libclient_java                                | Rob Nahf      | 2011-01-24 16:58 | d1_libclient_java   |
| 1231 | Infrastructure   | Task    | Closed      | Normal   | refactor MN.listObjects(...) method to allow no parameters                  | Rob Nahf      | 2011-01-14 23:58 | d1_libclient_java   |
| 1229 | Infrastructure   | Task    | Closed      | Normal   | refactor D1Node.sendRequest for consistent returns on errors                | Rob Nahf      | 2011-01-14 04:29 | d1_libclient_java   |
| 1223 | Infrastructure   | Feature | Closed      | Normal   | parameterless listObject methods in d1_libclient_java                       | Rob Nahf      | 2011-01-15 00:00 | d1_libclient_java   |
| 1222 | Infrastructure   | Bug     | Closed      | Normal   | d1_libclient_java cleanup - small errors                                    | Rob Nahf      | 2011-01-14 04:30 | d1_libclient_java   |
| 1188 | Infrastructure   | Bug     | Closed      | Normal   | CNode.resolve() error handling doesn't catch error-xml return               | Rob Nahf      | 2011-01-10 20:05 | d1_libclient_java   |
| 1161 | Infrastructure   | Bug     | Closed      | Normal   | d1client error handling not returning error messages                        | Rob Nahf      | 2010-12-17 20:56 | d1_libclient_java   |
| 1125 | Infrastructure   | Task    | Closed      | Urgent   | mn.create() returning 400 error for escaped identifiers                     | Chad Berkley  | 2010-12-02 23:35 | d1_libclient_java   |
| 1120 | Infrastructure   | Bug     | Closed      | Urgent   | D1Node.java sendRequest error wrt InputStream                               | Chad Berkley  | 2010-12-02 16:50 | d1_libclient_java   |
| 1077 | Infrastructure   | Task    | Closed      | Urgent   | pct-escaping in D1Node.java or MNode.java                                   | Rob Nahf      | 2010-12-04 00:20 | d1_libclient_java   |
| 1076 | Infrastructure   | Bug     | Closed      | Urgent   | mn.create() not encoding PIDs correctly.                                    | Rob Nahf      | 2011-01-10 17:28 | d1_libclient_java   |
| 1032 | Infrastructure   | Task    | Closed      | Normal   | upgrade integration tests (in d1_libclient_java) to adequately test resolve | Rob Nahf      | 2010-10-29 19:43 | d1_libclient_java   |
| 7427 | Python Libraries | Task    | New         | Normal   | adjust API signatures in python libraries                                   | Dave Vieglais | 2016-03-25 01:11 | d1_libclient_python |
| 7181 | Python Libraries | Task    | In Progress | Normal   | add d1_libclient_python implementation                                      | Dave Vieglais | 2016-04-21 22:37 | d1_libclient_python |

| #    | Project        | Tracker | Status   | Priority | Subject  | Assignee     | Updated          | Category            |
|------|----------------|---------|----------|----------|--|--------------|------------------|---------------------|
| 2749 | Infrastructure | Task    | Closed   | Normal   | take out InvalidRequest response from GMN when count parameter is too high...  | Roger Dahl   | 2012-10-08 16:51 | d1_libclient_python |
| 2544 | Infrastructure | Task    | Closed   | Normal   | update the libclient python implementation   | Roger Dahl   | 2014-10-02 17:54 | d1_libclient_python |
| 2536 | Infrastructure | Task    | Closed   | Normal   | update d1_libclient_python   | Roger Dahl   | 2012-04-16 19:33 | d1_libclient_python |
| 2200 | Infrastructure | Task    | Closed   | Low      | add new methods to python service API  | Roger Dahl   | 2012-05-30 21:20 | d1_libclient_python |
| 2194 | Infrastructure | Task    | Closed   | Normal   | remove VersionMismatch exception from setReplicationStatus-python impl   | Roger Dahl   | 2012-01-18 05:06 | d1_libclient_python |
| 2161 | Infrastructure | Task    | Closed   | Normal   | remove assertRelation method from d1_libclient_python interface  | Roger Dahl   | 2012-01-10 05:24 | d1_libclient_python |
| 1608 | Infrastructure | Task    | Closed   | Normal   | implement 0.6.2 interfaces in d1_libclient_python  | Roger Dahl   | 2011-08-26 15:24 | d1_libclient_python |
| 8022 | Infrastructure | Story   | New      | Normal   | d1_log_aggregation has different version of Hazelcast than the rest of CN stack. Hazelcast version very out of date. | Rob Nahf     | 2018-01-09 19:10 | d1_log_aggregation  |
| 7868 | Infrastructure | Bug     | New      | Normal   | potential gaps between log harvests  | Rob Nahf     | 2017-03-23 15:40 | d1_log_aggregation  |
| 6501 | Infrastructure | Task    | Closed   | Normal   | review and update ability to store non-RFC2253 compliant subjects in the index.                                      | Rob Nahf     | 2014-10-03 18:37 | d1_log_aggregation  |
| 6481 | Infrastructure | Task    | Rejected | Normal   | update aggregation index to include non X500 compatible subjects   | Rob Nahf     | 2014-10-07 19:36 | d1_log_aggregation  |
| 6480 | Infrastructure | Story   | Rejected | Normal   | confirm LogAggregation keeps logs for unsynchronized objects inaccessible  |              | 2018-01-17 19:50 | d1_log_aggregation  |
| 1245 | Infrastructure | Bug     | Closed   | Normal   | mercury return v0.1 ObjectList   | Robert Waltz | 2011-01-31 17:22 | d1_mercury          |
| 1239 | Infrastructure | Bug     | Closed   | Normal   | mercury not setting error status on error returns  | Robert Waltz | 2011-01-31 03:05 | d1_mercury          |
| 3670 | Infrastructure | Task    | Rejected | Normal   | GMN MN.update() should set archived for obsoleted  | Roger Dahl   | 2013-03-22 17:48 | d1_mn_GMN           |
| 2799 | Infrastructure | Task    | Closed   | Normal   | implement pidFilter logic for getLogRecords in gmn   | Roger Dahl   | 2012-05-30 21:18 | d1_mn_GMN           |
| 2515 | Infrastructure | Bug     | Rejected | Normal   | gmn getCapabilities() throwing error   | Roger Dahl   | 2012-03-21 21:06 | d1_mn_GMN           |
| 2513 | Infrastructure | Bug     | Closed   | Normal   | gmn getLogRecords returning no objects when no parameters passed on the query string                                 | Roger Dahl   | 2012-04-16 03:43 | d1_mn_GMN           |
| 2512 | Infrastructure | Bug     | Closed   | High     | listObjects ignores fromDate query parameter   | Roger Dahl   | 2012-03-26 03:18 | d1_mn_GMN           |
| 2511 | Infrastructure | Bug     | Closed   | High     | escaped '+' in query string (%2B) generating ServiceFailure for getLogRecords  | Roger Dahl   | 2012-03-28 16:00 | d1_mn_GMN           |
| 2350 | Infrastructure | Bug     | Closed   | High     | Invalid Token thrown in session.py when looking for Person object for certificate                                    | Roger Dahl   | 2012-04-23 16:29 | d1_mn_GMN           |
| 1905 | Infrastructure | Task    | Closed   | Normal   | mn.describe() should now return a header parameter called DataONE-formatid, instead of DataONE-fmtid.                | Roger Dahl   | 2011-11-08 16:59 | d1_mn_GMN           |
| 1803 | Infrastructure | Bug     | Closed   | Normal   | synchronizationFailed returning NotAuthorized on gmn-dev   | Roger Dahl   | 2011-09-28 03:18 | d1_mn_GMN           |
| 1802 | Infrastructure | Bug     | Closed   | Normal   | getChecksum returning ServiceFailure on gmn-dev  | Roger Dahl   | 2011-10-31 17:19 | d1_mn_GMN           |
| 1801 | Infrastructure | Bug     | Closed   | Normal   | describe() not returning any dataone-specific fields on gmn-dev  | Roger Dahl   | 2011-11-07 17:59 | d1_mn_GMN           |
| 1772 | Infrastructure | Bug     | Closed   | Normal   | gmn-dev getCapabilities() returning file not found   | Roger Dahl   | 2011-09-04 16:47 | d1_mn_GMN           |
| 1771 | Infrastructure | Bug     | Closed   | Normal   | gmn-dev getOperationStatistics() is returning NotAuthorized  | Roger Dahl   | 2011-09-04 16:57 | d1_mn_GMN           |

| #    | Project        | Tracker | Status   | Priority | Subject   | Assignee       | Updated          | Category          |
|------|----------------|---------|----------|----------|---|----------------|------------------|-------------------|
| 1770 | Infrastructure | Bug     | Closed   | Normal   | gmn getLogRecord not accepting escaped '+'  | Roger Dahl     | 2011-09-09 03:39 | d1_mn_GMN         |
| 1306 | Infrastructure | Bug     | Closed   | High     | jibx not deserializing gmn-serialized objects   | Roger Dahl     | 2011-02-09 04:21 | d1_mn_GMN         |
| 1301 | Infrastructure | Bug     | Closed   | Normal   | gmn-dev setting content type to text/html, yet returning xml  | Roger Dahl     | 2011-02-16 23:18 | d1_mn_GMN         |
| 1300 | Infrastructure | Bug     | Closed   | High     | gmn-dev create expecting 'systemmetadata' part instead of 'sysmeta'   | Roger Dahl     | 2011-02-11 02:43 | d1_mn_GMN         |
| 1029 | Infrastructure | Bug     | Closed   | Normal   | monitor/object?day call not working   | Roger Dahl     | 2010-11-18 16:08 | d1_mn_GMN         |
| 1326 | Infrastructure | Bug     | Closed   | Normal   | health stats monitor not working for member nodes not using /mn   | Rob Nahf       | 2011-02-09 21:34 | d1_monitor        |
| 888  | Infrastructure | Bug     | Closed   | Normal   | cacti failing to populate data sources - possible db corruption   | Rob Nahf       | 2010-11-30 21:17 | d1_monitor        |
| 878  | Infrastructure | Task    | Rejected | High     | Refactor mn-health monitoring script to more generalized form   | Rob Nahf       | 2012-10-16 19:51 | d1_monitor        |
| 872  | Infrastructure | Task    | Closed   | High     | mn health monitoring: rewrite health stats cacti plugin   | Rob Nahf       | 2010-09-21 20:58 | d1_monitor        |
| 865  | Infrastructure | Bug     | Closed   | High     | buggy mn_sync_stats data template   | Rob Nahf       | 2010-09-17 22:47 | d1_monitor        |
| 861  | Infrastructure | Task    | Closed   | High     | rework cacti graphs based on review feedback  | Rob Nahf       | 2010-09-20 20:30 | d1_monitor        |
| 835  | Infrastructure | Task    | Closed   | High     | modify disk capacity monitoring graph to report back Gb available   | Rob Nahf       | 2010-09-14 20:45 | d1_monitor        |
| 833  | Infrastructure | Task    | Closed   | High     | get remaining nodes set up with dataone_monitor user to enable monitoring   | Rob Nahf       | 2010-10-27 15:37 | d1_monitor        |
| 816  | Infrastructure | Task    | Closed   | High     | evaluate monitor plugin for Cacti   | Rob Nahf       | 2010-09-14 20:42 | d1_monitor        |
| 815  | Infrastructure | Task    | Closed   | Normal   | Build an MN_replication_stats Cacti Plugin  | Rob Nahf       | 2010-09-01 19:00 | d1_monitor        |
| 814  | Infrastructure | Story   | Rejected | Normal   | Build an MN_replication_stats Cacti Plugin  | Rob Nahf       | 2012-05-30 14:49 | d1_monitor        |
| 813  | Infrastructure | Task    | Closed   | High     | build an MN_sync_stats Cacti Plugin   | Rob Nahf       | 2010-09-14 20:38 | d1_monitor        |
| 812  | Infrastructure | Story   | Closed   | High     | Story: Monitoring dashboard   | Rob Nahf       | 2010-10-06 17:34 | d1_monitor        |
| 659  | Infrastructure | Task    | Closed   | Low      | create LDAP user to enable monitoring via SSH   | Dave Vieglais  | 2010-06-21 17:24 | d1_monitor        |
| 645  | Infrastructure | Task    | Closed   | Low      | install and configure nrpe on core nodes  | Dave Vieglais  | 2010-06-14 16:04 | d1_monitor        |
| 644  | Infrastructure | Task    | Closed   | Low      | create instructions for installing nrpe on nodes to be monitored (CNs)  | Rob Nahf       | 2010-06-09 06:10 | d1_monitor        |
| 643  | Infrastructure | Task    | Closed   | Low      | configure & test Cacti for MN monitoring  | Rob Nahf       | 2010-06-29 16:31 | d1_monitor        |
| 642  | Infrastructure | Task    | Closed   | Low      | Create the plugin executable to call the MN health API method   | Rob Nahf       | 2010-06-23 16:47 | d1_monitor        |
| 641  | Infrastructure | Task    | Closed   | Low      | Write MN health API method for monitoring   | Roger Dahl     | 2010-06-21 13:36 | d1_monitor        |
| 640  | Infrastructure | Story   | Closed   | Low      | Enable monitoring of member node services through the MN_health API.  | Dave Vieglais  | 2010-10-06 17:51 | d1_monitor        |
| 8724 | Infrastructure | Bug     | New      | Normal   | index out of bounds error in PortalCertificateManager   | Rob Nahf       | 2018-10-02 19:11 | d1_portal         |
| 3015 | Infrastructure | Bug     | Closed   | Low      | production /portal silently failed to register Person with long first name  | Ben Leinfelder | 2012-08-31 14:17 | d1_portal_servlet |
| 8162 | Infrastructure | Story   | New      | Normal   | Replication tasks can contain stale potential target nodes  | Rob Nahf       | 2018-03-02 21:47 | d1_replication    |
| 8160 | Infrastructure | Bug     | Closed   | Urgent   | ReplicationManager doesn't allow replication if a NodeReplicationPolicy exists, but allowedFormats aren't defined | Rob Nahf       | 2017-08-12 16:14 | d1_replication    |

| #    | Project        | Tracker | Status      | Priority | Subject  | Assignee      | Updated          | Category           |
|------|----------------|---------|-------------|----------|--|---------------|------------------|--------------------|
| 7465 | Infrastructure | Bug     | Rejected    | Normal   | v1 objects not replicating to v2 member nodes  | Andrei Buium  | 2015-11-04 15:00 | d1_replication     |
| 7178 | Infrastructure | Bug     | New         | Normal   | duplicate replica information on mn-demo-5   | Robert Waltz  | 2015-07-01 20:14 | d1_replication     |
| 6378 | Infrastructure | Task    | Testing     | Normal   | code up the new strategy   | Rob Nahf      | 2016-06-22 16:53 | d1_replication     |
| 6377 | Infrastructure | Story   | In Progress | Normal   | Review CNode initialization in ReplicationManager - it doesn't use local CN reference                  | Rob Nahf      | 2018-01-17 19:52 | d1_replication     |
| 6376 | Infrastructure | Task    | New         | Normal   | test the new strategy against working ReplicationManager test  | Rob Nahf      | 2016-06-22 16:53 | d1_replication     |
| 6375 | Infrastructure | Task    | In Progress | Normal   | Refactor out dependency on a working CN  | Rob Nahf      | 2016-06-22 16:53 | d1_replication     |
| 6373 | Infrastructure | Task    | Closed      | Normal   | utilize the new ApacheDS LDAP testing infrastructure   | Rob Nahf      | 2016-06-22 16:53 | d1_replication     |
| 6372 | Infrastructure | Task    | In Progress | Normal   | rehabilitate ReplicationManager "unit" tests   | Rob Nahf      | 2016-06-22 16:53 | d1_replication     |
| 1388 | Infrastructure | Story   | Closed      | Normal   | implement MN-MN replication manager in CN stack  | Chris Jones   | 2011-10-10 16:38 | d1_replication     |
| 3283 | Infrastructure | Task    | Rejected    | Normal   | remove the "sortable" field in queryEngineDescription  | Dave Vieglais | 2012-10-25 15:10 | d1_schemas         |
| 3282 | Infrastructure | Task    | Closed      | High     | merge schema 1.1 branch to trunk, repoint d1_common_java to it   | Rob Nahf      | 2012-10-25 15:10 | d1_schemas         |
| 2827 | Infrastructure | Task    | In Progress | Normal   | nesting groups requires schema change*   | Dave Vieglais | 2015-06-25 22:00 | d1_schemas         |
| 2094 | Infrastructure | Task    | Closed      | Normal   | need ChecksumAlgorithmList datatype for getChecksumAlgorithms() method                                 | Chris Jones   | 2011-12-12 22:37 | d1_schemas         |
| 2061 | Infrastructure | Task    | Closed      | Normal   | need ReplicationPolicy to be a top-level structure for java serialization                              | Matthew Jones | 2011-12-01 21:54 | d1_schemas         |
| 2059 | Infrastructure | Task    | Closed      | Normal   | need Replica to be top-level object so it can be serialized  | Matthew Jones | 2011-12-01 21:54 | d1_schemas         |
| 1662 | Infrastructure | Story   | Closed      | Normal   | SystemMetadata datatype to contain ObjectFormatIdentifier instead of ObjectFormat                      | Matthew Jones | 2011-09-02 18:18 | d1_schemas         |
| 1645 | Infrastructure | Story   | Closed      | High     | remove enumeration restriction on environment data type  | Rob Nahf      | 2011-08-30 01:42 | d1_schemas         |
| 1126 | Infrastructure | Bug     | Closed      | Normal   | outdated schema (replaced by dataoneTypes.xsd) still remain in repository trunk                        |               | 2010-12-10 18:40 | d1_schemas         |
| 8827 | Infrastructure | Bug     | New         | Normal   | synchronization doesn't update dateSystemMetadataModified if that's the only field that changed        | Rob Nahf      | 2019-07-11 21:26 | d1_synchronization |
| 8783 | Infrastructure | Bug     | New         | Normal   | synchronization re-created 26k map entries in SyncQueueFacade.nodeldRoundRobin                         | Rob Nahf      | 2019-04-02 20:10 | d1_synchronization |
| 8573 | Infrastructure | Bug     | In Progress | Normal   | changing accessPolicies and rightHolders down the line of series can cause improper sync failures      | Rob Nahf      | 2018-05-03 21:52 | d1_synchronization |
| 8525 | Infrastructure | Story   | In Progress | High     | timeout exceptions thrown from Hazelcast disable synchronization                                       | Rob Nahf      | 2018-11-16 17:32 | d1_synchronization |
| 8514 | Infrastructure | Task    | New         | Normal   | deploy new Metacat / synchronization slows down because of increased cn.create times                   | Rob Nahf      | 2018-03-22 17:07 | d1_synchronization |
| 8468 | Infrastructure | Bug     | Closed      | Normal   | synchronization requeueing for temporary unavailability of nodeComms causes massive delays for package | Rob Nahf      | 2018-03-22 16:48 | d1_synchronization |
| 8447 | Infrastructure | Story   | Closed      | Normal   | synchronization queue equity and monitoring  | Rob Nahf      | 2018-03-22 16:41 | d1_synchronization |
| 8038 | Infrastructure | Story   | In Progress | Normal   | connect logging output to a log analysis tool  | Dave Vieglais | 2018-01-17 18:52 | d1_synchronization |



| #    | Project        | Tracker | Status      | Priority | Subject   | Assignee      | Updated          | Category           |
|------|----------------|---------|-------------|----------|---|---------------|------------------|--------------------|
| 8036 | Infrastructure | Story   | New         | Normal   | synchronization should respond to various MN down conditions to avoid syncFailures              | Rob Nahf      | 2018-01-17 18:55 | d1_synchronization |
| 8031 | Infrastructure | Bug     | Closed      | Normal   | when synchronization reaches max lock attempts, it keeps going                                  | Rob Nahf      | 2017-03-03 20:12 | d1_synchronization |
| 7959 | Infrastructure | Bug     | Closed      | Urgent   | ObjectListHarvestTask needs refactoring   | Rob Nahf      | 2017-12-26 18:20 | d1_synchronization |
| 7889 | Infrastructure | Story   | New         | Normal   | Synchronization not happening when authoritativeMN is not set correctly.                        | Rob Nahf      | 2018-01-17 19:01 | d1_synchronization |
| 7631 | Infrastructure | Bug     | Closed      | Normal   | synchronization not processing v1 Member Nodes  | Rob Nahf      | 2016-03-25 02:29 | d1_synchronization |
| 7456 | Infrastructure | Bug     | Closed      | Normal   | synchronization replica auditing is not releasing NodeComms                                     | Rob Nahf      | 2015-10-28 21:50 | d1_synchronization |
| 7452 | Infrastructure | Bug     | Closed      | Normal   | sync is failing update of the archive field from false to true.                                 | Rob Nahf      | 2016-01-05 22:35 | d1_synchronization |
| 7428 | Infrastructure | Task    | Closed      | Normal   | refactor synchronization to not rely on hasReservation returning IdentifierNotUnique            | Rob Nahf      | 2016-03-25 01:11 | d1_synchronization |
| 7398 | Infrastructure | Task    | Closed      | Normal   | ensure that the replica section is added to systemMetadata on the cn during sync                | Rob Nahf      | 2016-01-05 18:54 | d1_synchronization |
| 7378 | Infrastructure | Task    | Closed      | Normal   | log occasions when an objectFormat is updated from a DATA one to a METADATA or RESOURCE_MAP one | Rob Nahf      | 2015-09-23 21:07 | d1_synchronization |
| 7364 | Infrastructure | Story   | Closed      | Normal   | update the sync logic for basic v1-v2 interoperability  | Rob Nahf      | 2015-11-10 15:26 | d1_synchronization |
| 4182 | Infrastructure | Bug     | Closed      | High     | sync is generating syncFailed on "empty updates"  | Robert Waltz  | 2013-11-27 18:07 | d1_synchronization |
| 3671 | Infrastructure | Task    | Rejected    | Normal   | sync return InvalidSysMeta for obsoleted but not archived                                       | Robert Waltz  | 2013-03-22 17:12 | d1_synchronization |
| 3402 | Infrastructure | Bug     | Closed      | High     | synchronization lags in dev   | Robert Waltz  | 2014-07-30 03:12 | d1_synchronization |
| 3927 | Infrastructure | Story   | Closed      | Normal   | eliminate the need for openLDAP install to allow truer unit testing                             | Robert Waltz  | 2016-08-10 21:05 | d1_test_resources  |
| 8122 | Infrastructure | Bug     | Closed      | Normal   | Metacat is double-decoding incoming urls on the CNs   | Jing Tao      | 2017-09-08 17:40 | dataone-cn-metacat |
| 7175 | Infrastructure | Task    | Closed      | Normal   | update operations documentation   | Dave Vieglais | 2016-03-25 01:00 | Documentation      |
| 6956 | Infrastructure | Story   | Closed      | Normal   | API documentation stale links   | Dave Vieglais | 2019-09-18 20:50 | Documentation      |
| 6624 | Infrastructure | Task    | New         | Normal   | link Node Identity arch. spec. to OperationDocs Node Reg page                                   |               | 2014-11-21 20:29 | Documentation      |
| 6069 | Infrastructure | Story   | New         | Normal   | open ask.dataone.org sign-in to community   | Dave Vieglais | 2014-10-01 20:39 | Documentation      |
| 5141 | Infrastructure | Story   | In Progress | Normal   | Describe the mn.updateSystemMetadata behavior in use case document                              | Dave Vieglais | 2018-01-17 19:58 | Documentation      |
| 3720 | Infrastructure | Story   | New         | Normal   | resource maps should be validated   | Dave Vieglais | 2018-01-17 20:17 | Documentation      |
| 3705 | Infrastructure | Task    | Closed      | Normal   | mutability support solution design  | Rob Nahf      | 2015-11-10 14:50 | Documentation      |
| 3704 | Infrastructure | Task    | Closed      | Normal   | mutability requirements analysis  | Rob Nahf      | 2015-11-10 14:50 | Documentation      |
| 3703 | Infrastructure | Task    | Closed      | Normal   | determine mutability use cases  | Rob Nahf      | 2014-09-24 18:26 | Documentation      |
| 3698 | Infrastructure | Story   | Closed      | Normal   | support for mutable content   | Dave Vieglais | 2015-11-10 15:37 | Documentation      |
| 3668 | Infrastructure | Task    | Rejected    | Normal   | change MN.update to reflect archive field of obsoleted to be set by update                      | Dave Vieglais | 2013-03-22 17:47 | Documentation      |
| 3667 | Infrastructure | Story   | Rejected    | Normal   | MN.update() should set archive field for the obsoleted object                                   | Dave Vieglais | 2013-03-22 17:50 | Documentation      |

| #    | Project        | Tracker | Status      | Priority | Subject  | Assignee      | Updated          | Category      |
|------|----------------|---------|-------------|----------|--|---------------|------------------|---------------|
| 3657 | Infrastructure | Bug     | Closed      | Normal   | SearchMetadata.txt "contains" relationship not implemented       | Skye Roseboom | 2013-08-14 21:00 | Documentation |
| 2810 | Infrastructure | Task    | New         | Normal   | setReplicationStatus() example rwt state transition is incorrect | Dave Vieglais | 2014-10-02 17:21 | Documentation |
| 2797 | Infrastructure | Feature | Closed      | Normal   | filter log records by pid  | Dave Vieglais | 2012-09-18 17:21 | Documentation |
| 2748 | Infrastructure | Task    | Closed      | Normal   | update documentation for all slicing methods on count behavior   | Dave Vieglais | 2012-10-09 16:32 | Documentation |
| 2743 | Infrastructure | Bug     | Closed      | Normal   | listObjects impl's do not support consistent slicing             | Dave Vieglais | 2012-10-09 16:35 | Documentation |
| 2695 | Infrastructure | Task    | Closed      | Normal   | update documentation   | Dave Vieglais | 2012-05-04 20:44 | Documentation |
| 2694 | Infrastructure | Story   | Closed      | Normal   | getReplica Tier4 -> Tier1  | Dave Vieglais | 2012-05-24 17:13 | Documentation |
| 2638 | Infrastructure | Task    | Closed      | Normal   | fix api documentation so method is in MNAuthorization table      | Dave Vieglais | 2012-05-02 16:12 | Documentation |
| 2632 | Infrastructure | Task    | Closed      | Normal   | review the Node Registration procedure document                  | Dave Vieglais | 2014-10-01 22:58 | Documentation |
| 2540 | Infrastructure | Feature | In Progress | Normal   | add generateIdentifier() method to MNStorage API                 | Dave Vieglais | 2014-10-02 17:54 | Documentation |
| 2532 | Infrastructure | Feature | Closed      | Normal   | pidFilter parameter for getLogRecords                            | Dave Vieglais | 2012-05-23 05:55 | Documentation |
| 2531 | Infrastructure | Story   | Closed      | Normal   | Need to document cn.delete() method.                             | Dave Vieglais | 2012-05-07 14:56 | Documentation |
| 2523 | Infrastructure | Story   | Closed      | Normal   | authorization implementations should be centralized              | Rob Nahf      | 2018-01-17 20:37 | Documentation |
| 2273 | Infrastructure | Bug     | Closed      | Normal   | documentation errors - return types                              | Dave Vieglais | 2012-02-01 11:40 | Documentation |
| 2198 | Infrastructure | Task    | Closed      | Normal   | add deleteReplica method   | Dave Vieglais | 2012-01-12 14:39 | Documentation |
| 2197 | Infrastructure | Task    | Closed      | Normal   | add updateObsoletedBy method                                     | Dave Vieglais | 2012-01-13 15:55 | Documentation |
| 2196 | Infrastructure | Task    | Closed      | Normal   | update method description for updateNodeCapabilities             | Rob Nahf      | 2012-01-10 20:11 | Documentation |
| 2195 | Infrastructure | Task    | Closed      | Normal   | update method description for updateReplicateMetadata            | Rob Nahf      | 2012-01-10 20:11 | Documentation |
| 2193 | Infrastructure | Task    | Closed      | Normal   | remove VersionMismatch exception from setReplicationStatus       | Rob Nahf      | 2012-01-17 22:56 | Documentation |
| 2191 | Infrastructure | Story   | Closed      | Normal   | API refactoring / refinement                                     | Dave Vieglais | 2018-01-17 20:40 | Documentation |
| 2158 | Infrastructure | Story   | Closed      | Normal   | remove assertRelation from v1 API                                | Rob Nahf      | 2012-01-13 15:57 | Documentation |
| 2146 | Infrastructure | Bug     | Closed      | Normal   | submitter description in docs confusing                          | Matthew Jones | 2012-01-06 04:32 | Documentation |

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