

## Issues

| #    | Project        | Tracker | Status      | Priority  | Subject                                                                                                               | Assignee      | Updated          | Category            |
|------|----------------|---------|-------------|-----------|-----------------------------------------------------------------------------------------------------------------------|---------------|------------------|---------------------|
| 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          |
| 8734 | Infrastructure | Story   | New         | Normal    | Hazelcast shutdown tied to out of memory exception!                                                                   | Rob Nahf      | 2018-10-18 16:55 | Metacat             |
| 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          |
| 8702 | Infrastructure | Story   | New         | Normal    | Indexing Refactor Strategy                                                                                            | Rob Nahf      | 2018-09-24 18:05 | d1_indexer          |
| 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          |
| 8525 | Infrastructure | Story   | In Progress | High      | timeout exceptions thrown from Hazelcast disable synchronization                                                      | Rob Nahf      | 2018-11-16 17:32 | d1_synchronization  |
| 8485 | Infrastructure | Story   | Closed      | Urgent    | XMLSchemaService progressively builds massively long string by calling doRefresh                                      | Jing Tao      | 2018-03-22 17:03 | Metacat             |
| 8447 | Infrastructure | Story   | Closed      | Normal    | synchronization queue equity and monitoring                                                                           | Rob Nahf      | 2018-03-22 16:41 | d1_synchronization  |
| 8363 | Infrastructure | Story   | New         | Normal    | indexer shutdown generates index tasks                                                                                | Rob Nahf      | 2018-09-24 15:25 | d1_indexer          |
| 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      |
| 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          |
| 8162 | Infrastructure | Story   | New         | Normal    | Replication tasks can contain stale potential target nodes                                                            | Rob Nahf      | 2018-03-02 21:47 | d1_replication      |
| 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          |
| 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 |
| 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   |
| 8038 | Infrastructure | Story   | In Progress | Normal    | connect logging output to a log analysis tool                                                                         | Dave Vieglais | 2018-01-17 18:52 | d1_synchronization  |
| 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  |
| 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  |
| 7951 | Infrastructure | Story   | Closed      | Normal    | Allow CN to set NodeProperties in ldap                                                                                | Rob Nahf      | 2017-02-02 17:38 | d1_cn_node_registry |

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| 7946 | Infrastructure | Story   | Closed      | Normal   | historical schema incompliant entries in CN storage causing CN_Read errors                              | Rob Nahf      | 2016-11-30 19:47 | Metacat             |
| 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      |
| 7889 | Infrastructure | Story   | New         | Normal   | Synchronization not happening when authoritativeMN is not set correctly.                                | Rob Nahf      | 2018-01-17 19:01 | d1_synchronization  |
| 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      |
| 7807 | Infrastructure | Story   | New         | Low      | cn.synchronize should support synchronization failure corrections.                                      |               | 2018-01-17 19:15 | Architecture Design |
| 7801 | Infrastructure | Story   | Closed      | Normal   | Support for Let's Encrypt certificates                                                                  | Rob Nahf      | 2018-01-17 19:17 | d1_libclient_java   |
| 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      |
| 7650 | Infrastructure | Story   | New         | Normal   | DAO for SystemMetadata changes the SystemMetadata.replicationPolicy                                     | Rob Nahf      | 2018-01-17 19:31 | d1_cn_common        |
| 7635 | Infrastructure | Story   | Closed      | Normal   | thread-safety in libclient_java                                                                         | Rob Nahf      | 2016-04-01 17:21 | 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   |
| 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 |
| 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          |
| 7364 | Infrastructure | Story   | Closed      | Normal   | update the sync logic for basic v1-v2 interoperability                                                  | Rob Nahf      | 2015-11-10 15:26 | d1_synchronization  |
| 7328 | Infrastructure | Story   | Closed      | Normal   | CN.setReplicationStatus increments serialVersion when there's no net change                             | Jing Tao      | 2015-09-04 22:44 | Metacat             |
| 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 |
| 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 |
| 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   |
| 6956 | Infrastructure | Story   | Closed      | Normal   | API documentation stale links                                                                           | Dave Vieglais | 2019-09-18 20:50 | Documentation       |
| 6851 | Java Client    | Story   | Rejected    | Normal   | converting client-side exception to ServiceFailures is confusing                                        | Rob Nahf      | 2015-08-04 18:51 | d1_common_java      |
| 6850 | Java Client    | Story   | New         | Normal   | automate Java Client releases                                                                           | Rob Nahf      | 2018-01-17 19:42 | d1_libclient_java   |
| 6849 | Java Client    | Story   | Rejected    | Normal   | investigate multiple SSLConnection errors reported from sync.                                           | Rob Nahf      | 2015-02-11 20:21 |                     |
| 6759 | DataONE API    | Story   | New         | Normal   | ObjectFormat Management                                                                                 | Dave Vieglais | 2015-01-19 23:17 |                     |
| 6730 | Infrastructure | Story   | Closed      | Normal   | deploy v2 MNWebTester                                                                                   | Rob Nahf      | 2016-02-11 20:49 | d1_integration      |
| 6723 | Infrastructure | Story   | Closed      | Normal   | test v2 MN and CN buildouts                                                                             | Rob Nahf      | 2016-03-25 01:21 | d1_integration      |
| 6616 | Infrastructure | Story   | Closed      | Normal   | release and deploy CCI-1.5.0                                                                            | Rob Nahf      | 2015-01-06 17:56 |                     |

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| 6560 | Java Client      | Story   | Closed      | Normal   | in v2, remove LocalCache from get and getSystemMetadata calls                                             | Rob Nahf      | 2016-04-19 23:14 | d1_libclient_java  |
| 6512 | Java Client      | Story   | Closed      | Normal   | d1_common_java 2.0.0 release                                                                              | Rob Nahf      | 2016-06-13 23:57 | d1_common_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  |
| 6480 | Infrastructure   | Story   | Rejected    | Normal   | confirm LogAggregation keeps logs for unsynchronized objects inaccessible                                 |               | 2018-01-17 19:50 | d1_log_aggregation |
| 6395 | Infrastructure   | Story   | In Progress | Normal   | Member Node testers are stuck when the MNWebTester hangs / crashes                                        | Rob Nahf      | 2018-01-17 19:51 | MNWebChecker       |
| 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     |
| 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      |
| 4478 | Infrastructure   | Story   | Closed      | Normal   | Setup Jenkins for testing components vs. Java 7                                                           | Rob Nahf      | 2014-09-24 18:28 | Support Operations |
| 4475 | Infrastructure   | Story   | Closed      | Normal   | libclient_java 1.3.0 Release                                                                              | Rob Nahf      | 2015-02-11 20:40 | d1_libclient_java  |
| 3971 | Infrastructure   | Story   | Rejected    | Normal   | High Level ITK Developer Guide                                                                            | Rob Nahf      | 2018-01-17 20:09 |                    |
| 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  |
| 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  |
| 3720 | Infrastructure   | Story   | New         | Normal   | resource maps should be validated                                                                         | Dave Vieglais | 2018-01-17 20:17 | Documentation      |
| 3698 | Infrastructure   | Story   | Closed      | Normal   | support for mutable content                                                                               | Dave Vieglais | 2015-11-10 15:37 | Documentation      |
| 3667 | Infrastructure   | Story   | Rejected    | Normal   | MN.update() should set archive field for the obsoleted object                                             | Dave Vieglais | 2013-03-22 17:50 | Documentation      |
| 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  |
| 3660 | Infrastructure   | Story   | Closed      | Normal   | Deleting objects will lead to unresolvable resourceMap entities                                           | Jing Tao      | 2014-12-16 16:47 |                    |
| 3656 | Infrastructure   | Story   | New         | Normal   | integration testing: what are acceptable pids for update?                                                 | Roger Dahl    | 2018-01-17 20:22 |                    |
| 3591 | Infrastructure   | Story   | In Progress | Normal   | Content consistency checks for new member nodes                                                           | Rob Nahf      | 2018-01-17 20:23 | MNWebChecker       |
| 3450 | DataONE R Client | Story   | Closed      | Urgent   | prepare release of d1_client_r                                                                            | Matthew Jones | 2013-02-25 18:25 |                    |
| 3448 | Infrastructure   | Story   | Closed      | Normal   | add (client) methods to traverse obsoletes chain                                                          | Rob Nahf      | 2014-10-01 23:05 | d1_libclient_java  |
| 3433 | DataONE R Client | Story   | Closed      | Normal   | adapt R Client methods to fit in with R community expectations                                            | Rob Nahf      | 2013-03-01 22:22 |                    |
| 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        |
| 3430 | DataONE R Client | Story   | Closed      | Normal   | Should be able to include pre-existing objects in a new package and create the package without exceptions | Rob Nahf      | 2014-09-10 20:57 |                    |

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| 3367 | Infrastructure | Story   | Rejected | Normal   | WebTester crashes periodically                                                 | Rob Nahf       | 2018-01-17 20:26 | d1_integration                |
| 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             |
| 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                |
| 3297 | Infrastructure | Story   | Closed   | Normal   | make libclient useable for developers                                          | Rob Nahf       | 2013-08-19 21:00 | d1_libclient_java             |
| 3281 | Infrastructure | Story   | Closed   | Normal   | refactor "facade" methods from D1Object                                        | Rob Nahf       | 2013-08-07 19:26 | 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             |
| 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             |
| 2950 | Infrastructure | Story   | Closed   | Normal   | create integration tests for CN-dependent MN calls                             | Rob Nahf       | 2018-01-17 20:28 | d1_integration                |
| 2802 | Infrastructure | Story   | Closed   | Normal   | cn nameserver inconsistency in sandbox                                         | Dave Vieglais  | 2012-05-30 14:00 |                               |
| 2778 | Infrastructure | Story   | Closed   | Low      | include session subject in NotAuthorized error message                         | Ben Leinfelder | 2012-10-08 18:10 | Metacat                       |
| 2777 | Infrastructure | Story   | Rejected | Low      | include session subject in NotAuthorized message                               | Ben Leinfelder | 2012-05-18 22:06 | Metacat                       |
| 2763 | Infrastructure | Story   | Closed   | Normal   | WebTester is unresponsive and seems to hang                                    | Rob Nahf       | 2018-01-17 20:32 | d1_integration                |
| 2727 | Infrastructure | Story   | Closed   | Normal   | need to test multi-rule access policy                                          | Rob Nahf       | 2012-05-10 18:54 | d1_integration                |
| 2694 | Infrastructure | Story   | Closed   | Normal   | getReplica Tier4 -> Tier1                                                      | Dave Vieglais  | 2012-05-24 17:13 | Documentation                 |
| 2661 | Infrastructure | Story   | Closed   | Normal   | handling complicated identity-equivalencies for authorization                  | Dave Vieglais  | 2012-10-08 16:53 | Authentication, Authorization |
| 2645 | Infrastructure | Story   | Closed   | Normal   | Session handling in java service api                                           | Rob Nahf       | 2012-05-04 22:49 | 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                |
| 2630 | Infrastructure | Story   | Closed   | Normal   | need a public facing document for how to become a member node                  | Dave Vieglais  | 2014-10-01 22:58 |                               |
| 2625 | Infrastructure | Story   | Closed   | Normal   | generate test certificates under the new dataone (test) CA                     | Rob Nahf       | 2012-05-19 09:48 | d1_integration                |
| 2548 | Infrastructure | Story   | New      | Normal   | recasting untrusted certs to public poses accessibility inconsistency to users |                | 2018-01-17 20:36 | Authentication, Authorization |
| 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                 |
| 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             |
| 2191 | Infrastructure | Story   | Closed   | Normal   | API refactoring / refinement                                                   | Dave Vieglais  | 2018-01-17 20:40 | Documentation                 |
| 2163 | Infrastructure | Story   | Closed   | Normal   | cn.search() what exception thrown when queryType not recognized?               | Dave Vieglais  | 2014-10-02 17:10 | d1_integration                |
| 2158 | Infrastructure | Story   | Closed   | Normal   | remove assertRelation from v1 API                                              | Rob Nahf       | 2012-01-13 15:57 | Documentation                 |
| 2118 | Infrastructure | Story   | Closed   | Normal   | add getPendingMapIdentity to the architecture docs                             | Dave Vieglais  | 2012-01-11 02:17 | Documentation                 |
| 2064 | Infrastructure | Story   | Closed   | Normal   | integration testing client vs architecture                                     | Rob Nahf       | 2012-02-07 23:47 | d1_integration                |
| 2020 | Infrastructure | Story   | Rejected | Normal   | InvalidToken & InvalidCredentials are redundant                                | Dave Vieglais  | 2012-02-08 20:45 | Documentation                 |

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| 2009 | Infrastructure | Story   | Closed   | Normal   | update CN api                                                                      | Rob Nahf      | 2011-11-08 23:00 | d1_common_java                |
| 1958 | Infrastructure | Story   | Closed   | Normal   | Devise tests for FUSE client                                                       | Dave Vieglais | 2014-10-02 17:45 |                               |
| 1902 | Infrastructure | Story   | Closed   | High     | Integration Testing: New Tests                                                     |               | 2014-10-01 23:11 |                               |
| 1901 | Infrastructure | Story   | Closed   | High     | Integration testing: unicode support (identifiers)                                 |               | 2013-01-02 15:47 |                               |
| 1899 | Infrastructure | Story   | Closed   | High     | Integration Testing: test for correct response to invalid input                    | Rob Nahf      | 2013-01-02 15:57 | d1_integration                |
| 1698 | Infrastructure | Story   | Closed   | Normal   | support for test and system certificates                                           | Matthew Jones | 2012-02-08 22:35 | Authentication, Authorization |
| 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                    |
| 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                |
| 1389 | Infrastructure | Story   | Closed   | Normal   | version tagging of all libs and apps.                                              |               | 2012-01-06 03:35 |                               |
| 1388 | Infrastructure | Story   | Closed   | Normal   | implement MN-MN replication manager in CN stack                                    | Chris Jones   | 2011-10-10 16:38 | d1_replication                |
| 1387 | Infrastructure | Story   | Closed   | Normal   | packaging GMN as standalone MN                                                     | Roger Dahl    | 2011-05-04 13:58 |                               |
| 1386 | Infrastructure | Story   | Closed   | Normal   | Generation of SOLR index for Mercury                                               | Dave Vieglais | 2017-09-05 16:26 | d1_indexer                    |
| 1384 | Infrastructure | Story   | Rejected | Normal   | removing the objectFormat enumeration from types schema                            |               | 2011-05-31 13:46 |                               |
| 1383 | Infrastructure | Story   | Rejected | Normal   | removing the 1MN to 1CN synchronization restriction                                |               | 2011-03-22 17:58 |                               |
| 1382 | Infrastructure | Story   | Closed   | Normal   | review demo set up issue (synch / replication timing)                              |               | 2013-04-26 15:42 |                               |
| 1381 | Infrastructure | Story   | Closed   | High     | Enforce checksum verification                                                      |               | 2011-06-06 17:06 |                               |
| 1328 | Infrastructure | Story   | Rejected | Normal   | health monitor api not implemented on knb-ecoinformatics                           |               | 2011-09-14 11:24 | Metacat                       |
| 1325 | Infrastructure | Story   | Rejected | Normal   | java RestClient support non-mmp post                                               |               | 2012-02-08 20:08 | d1_libclient_java             |
| 1292 | Infrastructure | Story   | Closed   | Normal   | mercury/solr search upgrade                                                        |               | 2011-11-07 15:15 | Documentation                 |
| 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             |
| 1147 | Infrastructure | Story   | Closed   | High     | Apache2 blocks escaped "/" in URL paths, although it should not (longstanding bug) | Dave Vieglais | 2011-01-03 02:00 |                               |
| 1090 | Infrastructure | Story   | Closed   | Normal   | Consolidate common test resources into new shared package                          | Rob Nahf      | 2014-10-02 17:35 |                               |
| 1086 | Infrastructure | Story   | Closed   | Normal   | Create a common test resources location                                            |               | 2011-05-31 21:18 |                               |
| 1083 | Infrastructure | Story   | Closed   | Normal   | Common unicode test guides for java and python libclients                          | Rob Nahf      | 2010-11-30 17:41 |                               |
| 1080 | Infrastructure | Story   | Closed   | Normal   | Arch Docs: Guid guidance - harmonize with RFC3986                                  |               | 2010-11-20 11:25 |                               |
| 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                 |

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| 1006 | Infrastructure | Story   | Rejected    | Normal    | Ensure cn service layer can reserialize responses as JSON and csv                               |                | 2011-11-15 04:16 |                    |
| 922  | Infrastructure | Story   | Closed      | Immediate | Fully implement new ObjectLocationList and NodeList schemas & related artifacts                 | Robert Waltz   | 2010-11-09 18:19 | Documentation      |
| 885  | Infrastructure | Story   | Closed      | High      | excluding member nodes from ObjectLocationList when MN stops supporting the get method          | Dave Vieglaiss | 2018-01-17 20:50 | Documentation      |
| 814  | Infrastructure | Story   | Rejected    | Normal    | Build an MN_replication_stats Cacti Plugin                                                      | Rob Nahf       | 2012-05-30 14:49 | d1_monitor         |
| 812  | Infrastructure | Story   | Closed      | High      | Story: Monitoring dashboard                                                                     | Rob Nahf       | 2010-10-06 17:34 | d1_monitor         |
| 782  | Infrastructure | Story   | Rejected    | Normal    | Code housekeeping: CoordinatingNodeCrud interface not implemented by cn.rest.proxy...           |                | 2011-08-30 02:14 | d1_cn_service      |
| 640  | Infrastructure | Story   | Closed      | Low       | Enable monitoring of member node services through the MN_health API.                            | Dave Vieglaiss | 2010-10-06 17:51 | d1_monitor         |
| 8703 | Infrastructure | Task    | New         | Normal    | test the cleaned up indexer in DEV                                                              | 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         |
| 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 |
| 8230 | Infrastructure | Task    | New         | Normal    | review bouncy castle version                                                                    | Rob Nahf       | 2018-03-02 21:48 | d1_libclient_java  |
| 8222 | Infrastructure | Task    | New         | Normal    | reindex all isotc211 content in production to reflect final decisions from origin field mapping | Dave Vieglaiss | 2018-03-22 16:56 | d1_indexer         |
| 8111 | Infrastructure | Task    | Closed      | Normal    | D1ResourceHandler.serializeException should not log all exceptions returned as errors.          | Jing Tao       | 2017-12-26 18:19 | Metacat            |
| 8110 | Infrastructure | Task    | Closed      | Normal    | metacat.EventLog.getReport should downgrade a log.WARN to log.DEBUG                             | Jing Tao       | 2017-12-26 18:19 | Metacat            |
| 8086 | Infrastructure | Task    | In Progress | Normal    | upgrade Spring dependencies                                                                     | Rob Nahf       | 2019-07-25 20:32 | 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         |
| 7910 | Infrastructure | Task    | New         | Normal    | schema validation behavior                                                                      | Rob Nahf       | 2018-01-18 02:41 | d1_common_java     |
| 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     |
| 7890 | Infrastructure | Task    | In Progress | Normal    | configure jenkins-ucsb-1 apache server to host ubuntu repositories                              | Rob Nahf       | 2017-04-19 19:12 |                    |
| 7888 | Infrastructure | Task    | Rejected    | Normal    | clean out ubuntu-extra channel on jenkins-ucsb-1                                                |                | 2016-12-21 07:57 |                    |
| 7887 | Infrastructure | Task    | Closed      | Normal    | update debian packages to use java 8                                                            |                | 2016-12-21 07:57 |                    |

| #    | Project        | Tracker | Status   | Priority | Subject                                                                                                 | Assignee      | Updated          | Category            |
|------|----------------|---------|----------|----------|---------------------------------------------------------------------------------------------------------|---------------|------------------|---------------------|
| 7878 | Infrastructure | Task    | Closed   | Normal   | run integration tests on DEV-2                                                                          | Rob Nahf      | 2016-12-21 07:55 |                     |
| 7872 | Infrastructure | Task    | Closed   | Normal   | create debian packages compatible with Ubuntu-14.04                                                     | Rob Nahf      | 2016-10-05 17:37 | d1_cn_buildout      |
| 7852 | Infrastructure | Task    | Closed   | Normal   | compare performance vs JibX                                                                             | Rob Nahf      | 2016-08-18 21:44 |                     |
| 7846 | Infrastructure | Task    | Closed   | Normal   | set up types to use JAXB, add JAXB logic to TypeMarshaller                                              | Rob Nahf      | 2016-08-18 21:43 |                     |
| 7845 | Infrastructure | Task    | Closed   | Normal   | create marshaling adapters to handle malformed (empty) lists                                            | Rob Nahf      | 2016-07-16 17:12 |                     |
| 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      |
| 7834 | Infrastructure | Task    | Rejected | Normal   | develop maven configuration                                                                             |               | 2016-07-16 17:16 |                     |
| 7833 | Infrastructure | Task    | Closed   | Normal   | compare JAXB generated class files to current classes                                                   | Rob Nahf      | 2016-08-18 21:44 | d1_common_java      |
| 7827 | Java Client    | Task    | Closed   | Normal   | update libclient dependency in d1_integration trunk                                                     |               | 2017-03-28 18:04 |                     |
| 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   |
| 7814 | Infrastructure | Task    | Closed   | Normal   | create queue state log events                                                                           |               | 2017-03-04 06:51 |                     |
| 7813 | Infrastructure | Task    | Closed   | Normal   | create sync task log outcome messages                                                                   |               | 2017-03-04 06:46 |                     |
| 7750 | CN REST        | Task    | New      | Normal   | apply business rules on the CN that Subject strings will be stripped of leading and trailing whitespace |               | 2016-04-26 17:30 |                     |
| 7744 | Infrastructure | Task    | New      | Normal   | put together initial design                                                                             |               | 2016-06-22 17:19 |                     |
| 7645 | Member Nodes   | Task    | Rejected | Normal   | LTER object(s) not synchronizing - bad dateSysMetadataModified?                                         | Mark Servilla | 2016-02-22 23:45 |                     |
| 7643 | Infrastructure | Task    | Closed   | Normal   | Re-replicate content where v1 MNReplication is not available (false or not listed)                      |               | 2016-03-25 02:32 | Support Operations  |
| 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   |
| 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   |
| 7632 | Infrastructure | Task    | Closed   | Normal   | remove CLOEBIRD from synchronization (it is down) and restart processing                                | Robert Waltz  | 2016-02-03 17:16 | Support Operations  |
| 7615 | Infrastructure | Task    | Closed   | Normal   | tag and release d1_integration                                                                          | Rob Nahf      | 2016-02-11 20:49 | d1_integration      |
| 7574 | Infrastructure | Task    | Closed   | Normal   | add togglePortsAndReplication into cn-os-core                                                           | Rob Nahf      | 2016-01-21 16:58 | d1_cn_buildout      |
| 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   |
| 7463 | Infrastructure | Task    | Closed   | Normal   | configure the HttpClient to allow more parallel connections                                             | Rob Nahf      | 2016-01-05 19:18 | d1_libclient_java   |
| 7443 | Infrastructure | Task    | Closed   | Normal   | add InvalidRequest to hasReservation signature in documentation                                         | Dave Vieglais | 2016-03-25 01:17 | Architecture Design |

| #    | Project          | Tracker | Status      | Priority | Subject                                                                                         | Assignee       | Updated          | Category                |
|------|------------------|---------|-------------|----------|-------------------------------------------------------------------------------------------------|----------------|------------------|-------------------------|
| 7428 | Infrastructure   | Task    | Closed      | Normal   | refactor synchronization to not rely on hasReservation returning IdentifierNotUnique            | Rob Nahf       | 2016-03-25 01:11 | d1_synchronization      |
| 7427 | Python Libraries | Task    | New         | Normal   | adjust API signatures in python libraries                                                       | Dave Vieglais  | 2016-03-25 01:11 | d1_libclient_python     |
| 7426 | Infrastructure   | Task    | Closed      | Normal   | adjust API signatures in java libraries                                                         | Rob Nahf       | 2015-10-17 23:13 | d1_common_java          |
| 7421 | Infrastructure   | Task    | Closed      | Normal   | update api design documentation for hasReservation                                              |                | 2016-03-25 01:08 | Architecture Design     |
| 7420 | Infrastructure   | Task    | Closed      | Normal   | remove systemMetadata map check for v1 and 2 implementation                                     | Ben Leinfelder | 2015-10-09 20:46 | d1_identity_manager     |
| 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      |
| 7225 | Infrastructure   | Task    | Closed      | Normal   | Add cn.updateSystemMetadata implementation in Metacat                                           |                | 2016-03-25 01:12 | Metacat                 |
| 7182 | Infrastructure   | Task    | Closed      | Normal   | CN.Diagnostic documentation contains mime part mistakes                                         | Rob Nahf       | 2015-07-01 16:22 | Architecture Design     |
| 7181 | Python Libraries | Task    | In Progress | Normal   | add d1_libclient_python implementation                                                          | Dave Vieglais  | 2016-04-21 22:37 | d1_libclient_python     |
| 7180 | Infrastructure   | Task    | Closed      | Normal   | add d1_libclient_java implementation                                                            | Rob Nahf       | 2015-06-12 21:39 | d1_libclient_java       |
| 7179 | Infrastructure   | Task    | Closed      | Normal   | add API documentation for CN.updateSystemMetadata                                               | Rob Nahf       | 2015-06-12 18:49 | Architecture Design     |
| 7175 | Infrastructure   | Task    | Closed      | Normal   | update operations documentation                                                                 | Dave Vieglais  | 2016-03-25 01:00 | Documentation           |
| 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     |
| 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       |
| 6990 | Member Nodes     | Task    | Closed      | Normal   | rerun nodc_listObjects tomorrow to see if any ID values have changed                            | Dave Vieglais  | 2016-03-29 13:30 |                         |
| 6898 | Infrastructure   | Task    | Closed      | Normal   | new client cert for CN UNMs                                                                     | Dave Vieglais  | 2015-03-19 19:56 | Environment.Development |
| 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       |
| 6774 | Infrastructure   | Task    | Closed      | Normal   | make test certificate subject labels (filenames) Windows compatible                             | Andrei Buium   | 2015-07-01 16:18 | d1_integration          |
| 6754 | Infrastructure   | Task    | New         | Normal   | Architecture API loose ends                                                                     | Dave Vieglais  | 2015-01-13 18:54 | Architecture Design     |
| 6748 | Java Client      | Task    | New         | Normal   | Create a factory / builder class for converting versioned types.                                |                | 2015-02-11 19:47 |                         |
| 6740 | Infrastructure   | Task    | Closed      | Normal   | create more readable test names for users                                                       | Rob Nahf       | 2016-01-21 16:09 |                         |



| #    | Project        | Tracker | Status   | Priority | Subject                                                                                    | Assignee      | Updated          | Category              |
|------|----------------|---------|----------|----------|--------------------------------------------------------------------------------------------|---------------|------------------|-----------------------|
| 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        |
| 6736 | Infrastructure | Task    | Closed   | Normal   | determine reuse design / strategy                                                          | Rob Nahf      | 2015-07-01 16:18 |                       |
| 6731 | Infrastructure | Task    | Closed   | Normal   | test new tests against v1 MNs and CNs                                                      | Rob Nahf      | 2015-07-01 16:18 | d1_integration        |
| 6729 | Infrastructure | Task    | Closed   | Normal   | refactor architecture tests for v2 client                                                  | Rob Nahf      | 2015-07-01 16:18 |                       |
| 6728 | Infrastructure | Task    | Closed   | Normal   | adapt d1_integration classes to v2 libclient                                               | Rob Nahf      | 2016-01-05 18:19 |                       |
| 6727 | Infrastructure | Task    | Closed   | Normal   | refactor tests for reuse                                                                   | Rob Nahf      | 2015-07-01 16:18 | d1_integration        |
| 6726 | Infrastructure | Task    | Rejected | Normal   | deploy new MN WebTester                                                                    | Rob Nahf      | 2015-07-01 16:18 |                       |
| 6725 | Infrastructure | Task    | Closed   | Normal   | add new tests for v2 methods                                                               | Andrei Buium  | 2015-11-04 18:46 |                       |
| 6724 | Infrastructure | Task    | Closed   | Normal   | refactor d1_integration for v2                                                             | Rob Nahf      | 2016-03-25 01:21 | d1_integration        |
| 6624 | Infrastructure | Task    | New      | Normal   | link Node Identity arch. spec. to OperationDocs Node Reg page                              |               | 2014-11-21 20:29 | Documentation         |
| 6622 | Infrastructure | Task    | Closed   | Normal   | deploy CCI-1.5.0 to Production                                                             | Rob Nahf      | 2014-12-15 18:01 |                       |
| 6621 | Infrastructure | Task    | Closed   | Normal   | Test CCI-1.5.0 in STAGE                                                                    |               | 2014-12-15 17:58 |                       |
| 6620 | Infrastructure | Task    | Closed   | Normal   | deploy stable CCI-1.5.0 release to STAGE                                                   | Rob Nahf      | 2014-11-26 20:35 |                       |
| 6619 | Infrastructure | Task    | Closed   | Normal   | build the stable release for CCI-1.5.0                                                     | Rob Nahf      | 2014-11-26 15:53 |                       |
| 6618 | Infrastructure | Task    | Closed   | Normal   | Deploy beta release to SANDBOX                                                             |               | 2014-12-15 18:03 |                       |
| 6617 | Infrastructure | Task    | Closed   | Normal   | build the beta release                                                                     |               | 2014-12-15 18:03 |                       |
| 6567 | Infrastructure | Task    | Closed   | Normal   | configure ezid-client job for snapshot (trunk / dev)                                       | Rob Nahf      | 2014-11-13 23:52 | Metacat               |
| 6566 | Infrastructure | Task    | Closed   | Normal   | install the git plugin on Jenkins                                                          | Rob Nahf      | 2014-11-13 23:50 | Support Operations    |
| 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     |
| 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        |
| 6510 | Infrastructure | Task    | Closed   | Normal   | libclient_java 1.3.1 Release                                                               | Rob Nahf      | 2015-02-11 20:22 | d1_libclient_java     |
| 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    |
| 6479 | Infrastructure | Task    | Closed   | Normal   | update SessionAuthorizationUtils to handle nonStandardizable Subject values                | Rob Nahf      | 2014-10-30 19:57 | d1_cn_solr_extensions |
| 6478 | Infrastructure | Task    | New      | Normal   | move mncheck VM to a different VMhost                                                      | Dave Vieglais | 2014-10-01 20:34 | MNWebChecker          |
| 6400 | Infrastructure | Task    | Rejected | Normal   | set up monitoring for MNWebTester on mncheck                                               | Rob Nahf      | 2014-10-01 20:34 |                       |
| 6399 | Infrastructure | Task    | New      | Normal   | set up release practice for the MNWebTester .war                                           | Rob Nahf      | 2014-10-01 20:34 | MNWebChecker          |
| 6398 | Infrastructure | Task    | New      | Normal   | update MNWebTest operations docs                                                           | Rob Nahf      | 2014-10-01 20:34 | MNWebChecker          |
| 6397 | Infrastructure | Task    | New      | Normal   | test that it works from standalone .war                                                    | Rob Nahf      | 2014-10-01 20:34 | MNWebChecker          |

| #    | Project        | Tracker | Status      | Priority | Subject                                                               | Assignee     | Updated          | Category               |
|------|----------------|---------|-------------|----------|-----------------------------------------------------------------------|--------------|------------------|------------------------|
| 6396 | Infrastructure | Task    | In Progress | Normal   | embed jetty server in d1_integration to run WebTests locally          | Rob Nahf     | 2014-10-01 20:34 | MNWebChecker           |
| 6378 | Infrastructure | Task    | Testing     | Normal   | code up the new strategy                                              | Rob Nahf     | 2016-06-22 16:53 | 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         |
| 6374 | Infrastructure | Task    | Closed      | Normal   | Configure ReplicationManagerTestUnit with AttemptHistoryRepository    | Rob Nahf     | 2016-06-22 16:53 |                        |
| 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         |
| 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    |
| 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         |
| 5313 | Java Client    | Task    | New         | Normal   | enable remote deployment of product packages from Hudson / Jenkins    | Rob Nahf     | 2015-02-11 20:34 |                        |
| 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         |
| 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      |
| 4799 | Infrastructure | Task    | Rejected    | High     | create new tag release of d1_jibx_extensions                          | Rob Nahf     | 2014-05-05 21:47 | zz_d1_jibx_extensions  |
| 4789 | Infrastructure | Task    | Closed      | Normal   | Refactor comparators for release                                      | Rob Nahf     | 2014-05-05 21:47 | d1_libclient_java      |
| 4693 | Infrastructure | Task    | Closed      | Normal   | migrate Hudson jobs to Jenkins                                        | Rob Nahf     | 2014-09-24 18:28 | Environment.Production |
| 4677 | Infrastructure | Task    | Closed      | Normal   | Test d1_jibx_extensions on Ubuntu 12.04 with Java 7                   | Rob Nahf     | 2014-06-30 22:08 | zz_d1_jibx_extensions  |
| 4474 | Infrastructure | Task    | Closed      | Normal   | create new tag release of d1_common_java                              | Rob Nahf     | 2014-10-02 20:52 | d1_common_java         |
| 4295 | Member Nodes   | Task    | Closed      | Normal   | address discovered content issues in the index                        | Rob Nahf     | 2014-06-30 17:52 |                        |
| 4288 | Member Nodes   | Task    | Closed      | Normal   | system metadata unmarshalling error: bad boolean value                | Rob Nahf     | 2014-06-30 17:52 |                        |
| 4255 | Member Nodes   | Task    | Closed      | Normal   | issue production certs for EDAC                                       | Chris Jones  | 2014-06-30 17:52 |                        |
| 4203 | Member Nodes   | Task    | Closed      | Normal   | mn.describe is not returning DataONE-specific headers                 | Rob Nahf     | 2014-06-30 17:52 |                        |
| 4202 | Member Nodes   | Task    | Closed      | Normal   | EDAC node name and description should be more informative             | Rob Nahf     | 2014-06-30 17:52 |                        |
| 4201 | Member Nodes   | Task    | Closed      | Normal   | listObjects fromDate parameter is not millisecond precision           | Rob Nahf     | 2014-06-30 17:52 |                        |
| 4171 | Member Nodes   | Task    | Closed      | Normal   | obsolescence chains are branched                                      | Rob Nahf     | 2014-06-30 17:52 |                        |
| 4169 | Member Nodes   | Task    | Closed      | Normal   | fix listObjects so that obsoleted objects are listed                  | Rob Nahf     | 2014-06-30 17:52 |                        |
| 4164 | Member Nodes   | Task    | Closed      | Normal   | announce the deployment                                               | Laura Moyers | 2014-06-30 17:52 |                        |
| 4163 | Member Nodes   | Task    | Closed      | Normal   | mutually accept the deployment                                        | Rob Nahf     | 2014-06-30 17:52 |                        |

| #    | Project        | Tracker | Status      | Priority | Subject                                                                                      | Assignee       | Updated          | Category          |
|------|----------------|---------|-------------|----------|----------------------------------------------------------------------------------------------|----------------|------------------|-------------------|
| 4162 | Member Nodes   | Task    | Closed      | Normal   | register to Production                                                                       | Rob Nahf       | 2014-06-30 17:52 |                   |
| 4161 | Member Nodes   | Task    | Closed      | Normal   | issue and install production certificates                                                    | Rob Nahf       | 2014-06-30 17:52 |                   |
| 4160 | Member Nodes   | Task    | Closed      | Normal   | fix baseurl of the Node document                                                             | Rob Nahf       | 2014-06-30 17:52 |                   |
| 4159 | Member Nodes   | Task    | Closed      | Normal   | review indexing results / presentation                                                       | Rob Nahf       | 2014-06-30 17:52 |                   |
| 4158 | Member Nodes   | Task    | Closed      | Normal   | find and fix the cn-replication issue in stage                                               | Rob Nahf       | 2014-06-30 17:52 |                   |
| 4157 | Member Nodes   | Task    | Closed      | Normal   | resource maps are assigned the wrong formatID                                                | Rob Nahf       | 2014-06-30 17:52 |                   |
| 4156 | Member Nodes   | Task    | Closed      | Normal   | confirm nodeID is right level of specificity                                                 | Rob Nahf       | 2014-06-30 17:52 |                   |
| 3930 | Infrastructure | Task    | Closed      | Normal   | create release process document in Development docs                                          | Rob Nahf       | 2013-08-19 20:59 | d1_libclient_java |
| 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    |
| 3906 | Member Nodes   | Task    | New         | High     | Update malformed Resource Maps                                                               |                | 2013-08-09 17:50 |                   |
| 3852 | Member Nodes   | Task    | Closed      | Normal   | implement mn_read.synchronizationFailed()                                                    | Rob Nahf       | 2014-06-30 17:52 |                   |
| 3851 | Member Nodes   | Task    | Closed      | High     | implement mn_read.getReplica()                                                               | Rob Nahf       | 2014-06-30 17:52 |                   |
| 3801 | Member Nodes   | Task    | Closed      | Normal   | resource map resource URIs need to use cn/v1/resolve                                         |                | 2014-06-30 17:52 |                   |
| 3800 | Member Nodes   | Task    | Closed      | Normal   | serialized resource maps are invalid                                                         |                | 2014-06-30 17:52 |                   |
| 3782 | Member Nodes   | Task    | Closed      | High     | register the test node                                                                       | Ryan Scherle   | 2014-04-17 03:33 |                   |
| 3781 | Member Nodes   | Task    | Closed      | High     | obtain client side certificate for communication with other nodes, and CN                    | Ryan Scherle   | 2014-03-14 18:22 |                   |
| 3780 | Member Nodes   | Task    | Closed      | High     | review the node document on dev DRYAD                                                        | Ryan Scherle   | 2014-03-14 18:22 |                   |
| 3779 | Member Nodes   | Task    | Closed      | Normal   | register administrator account to DEV portal                                                 | Ryan Scherle   | 2014-03-14 18:22 |                   |
| 3778 | Member Nodes   | Task    | Closed      | High     | register dev.datadryad.org into DEV environment                                              | Ryan Scherle   | 2014-03-14 18:22 |                   |
| 3777 | Member Nodes   | Task    | Closed      | Normal   | inconsistent checksums for some objects                                                      | Ryan Scherle   | 2014-03-14 18:22 |                   |
| 3775 | Member Nodes   | Task    | Closed      | Normal   | the string "null" appears at the identifier for many log entries                             | Ryan Scherle   | 2014-03-14 18:22 |                   |
| 3774 | Member Nodes   | Task    | New         | Normal   | return NotFound exceptions for /meta and /object calls using "near miss" identifiers         | Ryan Scherle   | 2014-03-14 18:22 |                   |
| 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 |
| 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    |
| 3723 | Infrastructure | Task    | Closed      | Normal   | refactor indexer to use libclient_java parser for getting triples                            | Chris Brumgard | 2013-09-19 19:17 | d1_indexer        |
| 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 |
| 3706 | Infrastructure | Task    | Closed      | Normal   | mutability: component implementation designs                                                 | Rob Nahf       | 2015-11-10 14:50 |                   |
| 3705 | Infrastructure | Task    | Closed      | Normal   | mutability support solution design                                                           | Rob Nahf       | 2015-11-10 14:50 | Documentation     |

| #    | Project          | Tracker | Status   | Priority | Subject                                                                          | Assignee       | Updated          | Category               |
|------|------------------|---------|----------|----------|----------------------------------------------------------------------------------|----------------|------------------|------------------------|
| 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          |
| 3679 | Member Nodes     | Task    | Closed   | Normal   | unescaped xml-reserved characters in the log file                                | Ryan Scherle   | 2014-03-14 18:22 |                        |
| 3676 | Infrastructure   | Task    | Closed   | High     | design proposal for archive                                                      | Rob Nahf       | 2018-09-21 21:00 | d1_indexer             |
| 3674 | Infrastructure   | Task    | Rejected | Normal   | archive obsoleted objects in production                                          | Chris Jones    | 2013-03-22 17:50 | Environment.Production |
| 3673 | Infrastructure   | Task    | Rejected | Normal   | implement MN.update() method change in existing member nodes.                    | Chris Jones    | 2013-03-22 17:49 | Environment.Production |
| 3672 | Infrastructure   | Task    | Rejected | Normal   | integration test for checking archived upon update                               | Rob Nahf       | 2013-03-22 17:49 | d1_integration         |
| 3671 | Infrastructure   | Task    | Rejected | Normal   | sync return InvalidSysMeta for obsoleted but not archived                        | Robert Waltz   | 2013-03-22 17:12 | d1_synchronization     |
| 3670 | Infrastructure   | Task    | Rejected | Normal   | GMN MN.update() should set archived for obsoleted                                | Roger Dahl     | 2013-03-22 17:48 | d1_mn_GMN              |
| 3669 | Infrastructure   | Task    | Rejected | Normal   | metacat MN.update() should set archived for obsoleted                            | Ben Leinfelder | 2013-03-19 20:15 | Metacat                |
| 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          |
| 3634 | DataONE R Client | Task    | Closed   | Normal   | create unit test for pre-existing D1Object in createDataPackage                  | Rob Nahf       | 2014-09-10 20:57 |                        |
| 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         |
| 3544 | DataONE R Client | Task    | Closed   | Normal   | replace prints with messages where appropriate                                   | Rob Nahf       | 2013-03-01 22:22 |                        |
| 3543 | DataONE R Client | Task    | Closed   | Normal   | adjust documentation to match S4 expectations                                    | Rob Nahf       | 2013-03-01 22:22 |                        |
| 3542 | DataONE R Client | Task    | Closed   | Normal   | rename methods beginning with dataTable                                          | Rob Nahf       | 2013-03-01 22:22 |                        |
| 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      |
| 3475 | DataONE R Client | Task    | Closed   | Normal   | refactor createDataPackage                                                       | Rob Nahf       | 2013-03-01 22:17 |                        |
| 3453 | DataONE R Client | Task    | Closed   | Normal   | switch to stable D1 dependencies                                                 | Rob Nahf       | 2013-02-22 18:44 |                        |
| 3452 | DataONE R Client | Task    | Closed   | Normal   | test and tag the release                                                         | Matthew Jones  | 2013-02-25 18:24 |                        |
| 3451 | DataONE R Client | Task    | Rejected | Normal   | branch d_client_r                                                                | Matthew Jones  | 2013-02-22 18:44 |                        |
| 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            |
| 3432 | DataONE R Client | Task    | Closed   | Normal   | create documentation (.Rd files) for R Client                                    | Rob Nahf       | 2013-02-22 18:53 |                        |
| 3368 | Infrastructure   | Task    | Closed   | Normal   | build new WebTester that contains the PEMReader close fixes                      | Rob Nahf       | 2014-10-01 22:08 | d1_integration         |
| 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      |
| 3339 | Infrastructure   | Task    | Closed   | Normal   | utilize AuthUtils methods for search() / query()                                 | Skye Roseboom  | 2012-10-17 16:41 | d1_indexer             |

| #    | Project        | Tracker | Status      | Priority | Subject                                                                         | Assignee       | Updated          | Category                      |
|------|----------------|---------|-------------|----------|---------------------------------------------------------------------------------|----------------|------------------|-------------------------------|
| 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             |
| 3284 | Infrastructure | Task    | Closed      | Normal   | write integration tests for query(), listQueryEngines(), describeQueryEngines() | Rob Nahf       | 2012-10-25 15:10 | d1_integration                |
| 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                    |
| 3280 | Infrastructure | Task    | Closed      | Normal   | put d1_libclient_java jar on releases.dataone.org                               | Rob Nahf       | 2013-08-14 14:31 | d1_libclient_java             |
| 3227 | Infrastructure | Task    | Closed      | Normal   | update mncheck (WebTester machine)                                              | Rob Nahf       | 2012-09-06 21:04 | d1_integration                |
| 3164 | Infrastructure | Task    | Closed      | Normal   | allow tiers to be selected individually.                                        | Rob Nahf       | 2014-10-02 17:43 | MNWebChecker                  |
| 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                |
| 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                |
| 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             |
| 2956 | Infrastructure | Task    | In Progress | Normal   | content-checking tests for MNs entering an environment                          | Rob Nahf       | 2014-10-01 22:04 | d1_integration                |
| 2827 | Infrastructure | Task    | In Progress | Normal   | nesting groups requires schema change*                                          | Dave Vieglais  | 2015-06-25 22:00 | d1_schemas                    |
| 2810 | Infrastructure | Task    | New         | Normal   | setReplicationStatus() example rwt state transition is incorrect                | Dave Vieglais  | 2014-10-02 17:21 | Documentation                 |
| 2799 | Infrastructure | Task    | Closed      | Normal   | implement pidFilter logic for getLogRecords in gmn                              | Roger Dahl     | 2012-05-30 21:18 | d1_mn_GMN                     |
| 2798 | Infrastructure | Task    | Closed      | Normal   | implement pidFilter logic for getLogRecords in metacat                          | Ben Leinfelder | 2012-05-23 17:03 | Metacat                       |
| 2784 | Infrastructure | Task    | Closed      | Normal   | refactor certificates out of d1_integration package (svn)                       | Rob Nahf       | 2012-05-19 08:14 | Authentication, Authorization |
| 2783 | Infrastructure | Task    | Closed      | Normal   | install new test client certificates onto mncheck ("MN Web Tester")             | Rob Nahf       | 2012-05-19 09:45 | d1_integration                |
| 2782 | Infrastructure | Task    | Closed      | Normal   | install new test client certificates onto dev-testing (Hudson)                  | Rob Nahf       | 2012-05-19 08:11 | Support Operations            |
| 2780 | Infrastructure | Task    | Closed      | Normal   | utilitize AuthUtils methods in metacat authorization                            | Rob Nahf       | 2018-01-17 20:37 | Metacat                       |
| 2779 | Infrastructure | Task    | Closed      | Normal   | create authorization methods in d1_common_java                                  | Rob Nahf       | 2012-05-17 21:11 | d1_common_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             |
| 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           |
| 2748 | Infrastructure | Task    | Closed      | Normal   | update documentation for all slicing methods on count behavior                  | Dave Vieglais  | 2012-10-09 16:32 | Documentation                 |

| #    | 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                |
| 2697 | Infrastructure | Task    | Rejected | Normal   | getReplica(): update d1_common and libclient python                                     | Roger Dahl      | 2012-05-09 15:46 | d1_common_python              |
| 2696 | Infrastructure | Task    | Closed   | Normal   | update d1_common and libclient java                                                     | Rob Nahf        | 2012-05-04 20:52 | d1_common_java                |
| 2695 | Infrastructure | Task    | Closed   | Normal   | update documentation                                                                    | Dave Vieglais   | 2012-05-04 20:44 | Documentation                 |
| 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 |
| 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 |
| 2663 | Infrastructure | Task    | Closed   | Normal   | what is returned by CN.getSubjectInfo()?                                                |                 | 2012-10-03 15:40 |                               |
| 2662 | Infrastructure | Task    | Closed   | Normal   | Decide transitivity behavior for verification, equivalent identities wrt/ authorization |                 | 2012-10-03 15:40 |                               |
| 2650 | Infrastructure | Task    | Closed   | Normal   | add a D1Node constructor that takes a Session object                                    | Rob Nahf        | 2012-04-26 17:05 | d1_libclient_java             |
| 2649 | Infrastructure | Task    | Closed   | Normal   | update architecture conformity tests                                                    | Rob Nahf        | 2012-05-04 22:47 | d1_integration                |
| 2648 | Infrastructure | Task    | Closed   | Normal   | add corresponding session-less methods to the client implementations                    | Rob Nahf        | 2012-04-26 03:38 | d1_libclient_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                |
| 2641 | Infrastructure | Task    | Closed   | Normal   | create integration tests for daisy-chained relationships                                | Rob Nahf        | 2012-05-08 16:44 | d1_integration                |
| 2640 | Infrastructure | Task    | Closed   | Normal   | fix AuthUtils implementation                                                            | Rob Nahf        | 2012-05-02 18:07 | d1_common_java                |
| 2638 | Infrastructure | Task    | Closed   | Normal   | fix api documentation so method is in MNAuthorization table                             | Dave Vieglais   | 2012-05-02 16:12 | Documentation                 |
| 2637 | Infrastructure | Task    | Closed   | Normal   | update java interfaces and client implementations                                       | Rob Nahf        | 2012-04-23 19:27 | d1_libclient_java             |
| 2632 | Infrastructure | Task    | Closed   | Normal   | review the Node Registration procedure document                                         | Dave Vieglais   | 2014-10-01 22:58 | Documentation                 |
| 2621 | Java Client    | Task    | Closed   | Normal   | remove supplementary character test from testIdentifierEncoding test                    | Rob Nahf        | 2015-08-04 18:44 |                               |
| 2611 | Member Nodes   | Task    | Closed   | High     | mercury ornldaac /object error                                                          | Giri Palanisamy | 2013-02-18 18:14 |                               |
| 2599 | Infrastructure | Task    | Closed   | High     | cn.resolve throws ServiceFailure when should be NotAuthorized                           | Robert Waltz    | 2012-04-12 21:46 | d1_cn_service                 |
| 2551 | Infrastructure | Task    | Closed   | Normal   | test feasibility of apache rejecting non-verified certificates                          | Roger Dahl      | 2012-03-30 01:24 |                               |
| 2549 | Infrastructure | Task    | New      | Normal   | document the decision                                                                   | Matthew Jones   | 2012-03-27 22:03 | Authentication, Authorization |

| #    | Project        | Tracker | Status   | Priority | Subject                                                                                                                                   | Assignee       | Updated          | Category              |
|------|----------------|---------|----------|----------|-------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------|-----------------------|
| 2545 | Infrastructure | Task    | New      | Normal   | create d1_integration tests using for MN.generateIdentifier                                                                               | Rob Nahf       | 2014-10-02 17:54 | d1_integration        |
| 2544 | Infrastructure | Task    | Closed   | Normal   | update the libclient python implementation                                                                                                | Roger Dahl     | 2014-10-02 17:54 | d1_libclient_python   |
| 2543 | Infrastructure | Task    | Closed   | Normal   | update the d1_common_python interface                                                                                                     | Roger Dahl     | 2014-10-02 17:54 | d1_common_python      |
| 2542 | Infrastructure | Task    | Closed   | Normal   | update the libclient_java                                                                                                                 | Rob Nahf       | 2014-10-02 17:54 | d1_libclient_java     |
| 2541 | Infrastructure | Task    | Closed   | Normal   | update the d1_common_java interfaces                                                                                                      | Rob Nahf       | 2014-10-02 17:54 | d1_common_java        |
| 2537 | Infrastructure | Task    | Closed   | Normal   | create d1_integration tests using pidFilter                                                                                               | Rob Nahf       | 2012-05-23 05:52 | d1_integration        |
| 2536 | Infrastructure | Task    | Closed   | Normal   | update d1_libclient_python                                                                                                                | Roger Dahl     | 2012-04-16 19:33 | d1_libclient_python   |
| 2535 | Infrastructure | Task    | Closed   | Normal   | update the d1_common_python interface                                                                                                     | Roger Dahl     | 2012-04-16 19:38 | d1_common_python      |
| 2534 | Infrastructure | Task    | Closed   | Normal   | update the libclient_java                                                                                                                 | Rob Nahf       | 2012-03-29 16:24 | d1_libclient_java     |
| 2533 | Infrastructure | Task    | Closed   | Normal   | update the d1_common_java interfaces                                                                                                      | Rob Nahf       | 2012-03-29 16:24 | d1_common_java        |
| 2518 | Infrastructure | Task    | Closed   | Normal   | refactor SessionAuthorization.doFilter()                                                                                                  | Rob Nahf       | 2012-03-23 22:43 | d1_cn_solr_extensions |
| 2517 | Infrastructure | Task    | Rejected | Normal   | refactor IdentityManager's CNIdentityLDAPImpl.getSubjectInfo() to throw NotFound                                                          | Rob Nahf       | 2012-03-22 20:41 | d1_identity_manager   |
| 2456 | Infrastructure | Task    | Closed   | Low      | /cn/objectList.v1.xsl displays object slice wrong                                                                                         | Ben Leinfelder | 2012-03-08 05:20 |                       |
| 2455 | Infrastructure | Task    | Rejected | Normal   | identifiers with supplementary unicode characters not mn.create()                                                                         | Robert Waltz   | 2012-03-09 18:31 | d1_common_java        |
| 2454 | Infrastructure | Task    | Closed   | Normal   | escaped '/' characters are being decoded by web server prior to hitting the servlet                                                       |                | 2012-03-09 15:33 |                       |
| 2453 | Infrastructure | Task    | Closed   | Normal   | '+' in urls being converted to space (or possibly stripped) by service                                                                    |                | 2012-03-09 17:39 |                       |
| 2451 | Infrastructure | Task    | Closed   | Normal   | trailing backslash in url rejected by knb web server                                                                                      | Ben Leinfelder | 2012-03-09 00:01 |                       |
| 2432 | Infrastructure | Task    | Closed   | Normal   | knb not handling verified flag properly                                                                                                   | Ben Leinfelder | 2012-03-13 19:48 | Metacat               |
| 2431 | Infrastructure | Task    | Closed   | Normal   | Session object with invalid subjectInfo xml                                                                                               | Ben Leinfelder | 2012-03-05 20:33 |                       |
| 2430 | Infrastructure | Task    | Closed   | Normal   | equivIDs of the rightsHolder getting NotAuthorized exceptions                                                                             | Chris Jones    | 2012-03-13 19:50 | Metacat               |
| 2328 | Infrastructure | Task    | Closed   | Normal   | refactor authorization tests according to testing design                                                                                  | Rob Nahf       | 2012-02-24 17:57 | d1_integration        |
| 2321 | Infrastructure | Task    | Closed   | Normal   | reimplement D1Object.setPublicAccess to call cn.setAccessPolicy instead of mn.setAccessPolicy.                                            | Rob Nahf       | 2012-02-11 02:31 |                       |
| 2320 | Infrastructure | Task    | Closed   | Normal   | bring DataoneEMLParser up to date with regards to change of ObjectFormat into a complex type and replacement with ObjectFormatIdentifier. | Rob Nahf       | 2012-02-11 02:34 |                       |
| 2312 | Infrastructure | Task    | Closed   | Urgent   | minor refactor of ObjectFormatCache for better stability                                                                                  | Rob Nahf       | 2012-02-11 02:28 | d1_libclient_java     |
| 2287 | Infrastructure | Task    | Closed   | Normal   | ObjectList.sizeObjectInfoList() can throw null pointer                                                                                    | Robert Waltz   | 2012-02-10 02:02 | d1_common_java        |
| 2276 | Infrastructure | Task    | Closed   | Normal   | update MethodCrossReference.xls in docs                                                                                                   |                | 2012-02-01 11:40 |                       |
| 2275 | Infrastructure | Task    | Closed   | Normal   | run architecture tests                                                                                                                    | Rob Nahf       | 2012-02-07 23:45 | d1_integration        |
| 2274 | Infrastructure | Task    | Rejected | Urgent   | refactor cn.listSubjects to return SubjectList (as documented)                                                                            | Rob Nahf       | 2012-01-31 22:07 | d1_libclient_java     |

| #    | Project        | Tracker | Status   | Priority | Subject                                                                              | Assignee       | Updated          | Category            |
|------|----------------|---------|----------|----------|--------------------------------------------------------------------------------------|----------------|------------------|---------------------|
| 2271 | Infrastructure | Task    | Closed   | Normal   | refactor test object procurement methods to work with pre-populated test objects.    | Rob Nahf       | 2012-02-13 23:17 |                     |
| 2258 | Infrastructure | Task    | Closed   | Normal   | add test certificates to represent MNodes and CNodes                                 | Rob Nahf       | 2012-04-23 16:50 |                     |
| 2256 | Infrastructure | Task    | Closed   | Normal   | test access via mapped identity                                                      | Rob Nahf       | 2012-01-31 17:53 | d1_integration      |
| 2241 | Infrastructure | Task    | Closed   | Normal   | check metacat wrt endpoint change                                                    | Ben Leinfelder | 2012-01-19 18:55 | Metacat             |
| 2240 | Infrastructure | Task    | Closed   | Normal   | check cn service wrt REST endpoint mapping                                           | Robert Waltz   | 2012-01-31 17:58 | d1_cn_service       |
| 2239 | Infrastructure | Task    | Closed   | Normal   | update Constant for deleteReplMeta                                                   | Rob Nahf       | 2012-01-19 22:28 | d1_common_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   |
| 2200 | Infrastructure | Task    | Closed   | Low      | add new methods to python service API                                                | Roger Dahl     | 2012-05-30 21:20 | d1_libclient_python |
| 2199 | Infrastructure | Task    | Rejected | Normal   | add new methods to java service API                                                  | Rob Nahf       | 2012-01-17 18:17 | d1_libclient_java   |
| 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       |
| 2194 | Infrastructure | Task    | Closed   | Normal   | remove VersionMismatch exception from setReplicationStatus-python impl               | Roger Dahl     | 2012-01-18 05:06 | d1_libclient_python |
| 2193 | Infrastructure | Task    | Closed   | Normal   | remove VersionMismatch exception from setReplicationStatus                           | Rob Nahf       | 2012-01-17 22:56 | Documentation       |
| 2165 | Infrastructure | Task    | Closed   | Normal   | remove assertRelation from documentation                                             | Rob Nahf       | 2012-01-03 18:43 |                     |
| 2164 | Infrastructure | Task    | Closed   | Normal   | remove UnsupportedQueryType from d1_common_java                                      | Rob Nahf       | 2012-02-27 17:07 | d1_common_java      |
| 2162 | Infrastructure | Task    | Closed   | Normal   | remove assertRelation method from d1_common_python interface                         | Roger Dahl     | 2012-01-10 05:23 | d1_common_python    |
| 2161 | Infrastructure | Task    | Closed   | Normal   | remove assertRelation method from d1_libclient_python interface                      | Roger Dahl     | 2012-01-10 05:24 | d1_libclient_python |
| 2160 | Infrastructure | Task    | Closed   | Normal   | remove assertRelation method from d1_libclient_java interface                        | Rob Nahf       | 2012-01-03 18:37 | d1_libclient_java   |
| 2159 | Infrastructure | Task    | Closed   | Normal   | remove assertRelation method from d1_common_java interface                           | Rob Nahf       | 2012-01-03 18:37 | d1_common_java      |
| 2144 | Infrastructure | Task    | Closed   | Normal   | exception service does not return VersionMismatch                                    | Roger Dahl     | 2012-01-10 05:26 | d1_common_python    |
| 2132 | Infrastructure | Task    | Rejected | Normal   | create CNCNReplicationIT                                                             |                | 2011-12-12 21:14 |                     |
| 2129 | Infrastructure | Task    | Closed   | Normal   | modify ExceptionHandler to handle HEAD exceptions                                    | Rob Nahf       | 2011-12-09 19:32 | d1_common_java      |
| 2127 | Infrastructure | Task    | Closed   | Normal   | correct bugs and inconsistencies                                                     | Rob Nahf       | 2011-12-12 17:07 | d1_libclient_java   |
| 2095 | Infrastructure | Task    | Closed   | Normal   | django echo service doesn't handle PUT files                                         | Dave Vieglais  | 2012-02-07 23:45 |                     |



| #    | Project        | Tracker | Status   | Priority | Subject                                                                                               | Assignee       | Updated          | Category          |
|------|----------------|---------|----------|----------|-------------------------------------------------------------------------------------------------------|----------------|------------------|-------------------|
| 2094 | Infrastructure | Task    | Closed   | Normal   | need ChecksumAlgorithmList datatype for getChecksumAlgorithms() method                                | Chris Jones    | 2011-12-12 22:37 | d1_schemas        |
| 2085 | Infrastructure | Task    | Closed   | Normal   | test that number of documented api methods equals number of implemented methods                       | Rob Nahf       | 2011-12-05 00:19 |                   |
| 2074 | Infrastructure | Task    | Closed   | Normal   | test that number of parameters agree between documentation and implementation.                        | Rob Nahf       | 2011-12-06 17:10 |                   |
| 2073 | Infrastructure | Task    | Closed   | Normal   | create tests for exception handling                                                                   | Rob Nahf       | 2011-12-06 17:10 |                   |
| 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    |
| 2065 | Infrastructure | Task    | Closed   | Normal   | create parser for MethodCrossReference                                                                | Rob Nahf       | 2011-12-01 17:14 |                   |
| 2063 | Infrastructure | Task    | Closed   | Normal   | add expired certificate "testUser"                                                                    | Rob Nahf       | 2012-01-24 17:44 | d1_integration    |
| 2062 | Infrastructure | Task    | Closed   | Normal   | test access via group membership                                                                      | Rob Nahf       | 2012-01-31 17:53 |                   |
| 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        |
| 2024 | Infrastructure | Task    | Closed   | Normal   | consider renaming getChecksumAlgorithms to listChecksumAlgorithms                                     | Dave Vieglais  | 2011-12-13 00:27 | Documentation     |
| 2023 | Infrastructure | Task    | Closed   | Normal   | InsufficientResources usage                                                                           | Dave Vieglais  | 2011-12-13 00:19 | Documentation     |
| 2022 | Infrastructure | Task    | Closed   | Normal   | duplicate NotImplemented exception for listObjects methods                                            | Rob Nahf       | 2011-12-09 21:22 |                   |
| 2021 | Infrastructure | Task    | Closed   | Normal   | some methods take session object but don't throw InvalidToken                                         | Dave Vieglais  | 2011-12-12 23:59 | Documentation     |
| 2011 | Infrastructure | Task    | Closed   | Normal   | add version info to d1_libclient_java and d1_common_java                                              | Rob Nahf       | 2011-11-09 21:54 |                   |
| 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 |
| 2006 | Infrastructure | Task    | Closed   | Normal   | update MN service api wrt documentation updates                                                       | Rob Nahf       | 2011-11-07 17:35 | d1_common_java    |
| 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    |
| 1950 | Infrastructure | Task    | Rejected | Normal   | add method to get version & revision from selected webapp dependencies                                | Rob Nahf       | 2011-11-28 17:59 |                   |
| 1949 | Infrastructure | Task    | Closed   | Normal   | create "index" MNWebTester page for getting to multiple test versions                                 | Skye Roseboom  | 2011-11-15 19:58 | d1_integration    |
| 1948 | Infrastructure | Task    | Closed   | Normal   | manually deploy and new 1.0.0 MNWebTester                                                             | Rob Nahf       | 2011-10-28 16:43 |                   |
| 1935 | Infrastructure | Task    | Closed   | Normal   | URL query parameter names a mix of camelCase and all lowercase in docs                                | Dave Vieglais  | 2011-12-12 23:51 | Documentation     |
| 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         |
| 1904 | Infrastructure | Task    | Closed   | Normal   | mn.describe() should now return a header parameter called DataONE-formatid, instead of DataONE-fmtid. | Ben Leinfelder | 2011-11-23 19:38 | Metacat           |
| 1903 | Infrastructure | Task    | Closed   | Normal   | review CN api tests                                                                                   | Rob Nahf       | 2012-06-15 16:30 | d1_integration    |

| #    | Project        | Tracker | Status   | Priority | Subject                                                                        | Assignee   | Updated          | Category                      |
|------|----------------|---------|----------|----------|--------------------------------------------------------------------------------|------------|------------------|-------------------------------|
| 1897 | Infrastructure | Task    | Closed   | Normal   | change MMP parameter name from object_format to formatid                       | Roger Dahl | 2011-12-19 18:15 |                               |
| 1896 | Infrastructure | Task    | Closed   | Normal   | replace fmtid with formatid in common_python, libclient_python                 | Roger Dahl | 2011-11-04 15:18 | d1_common_python              |
| 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             |
| 1894 | Infrastructure | Task    | Closed   | Normal   | replace fmtid in methodCrossReference in the docs                              | Rob Nahf   | 2011-10-26 22:37 | Documentation                 |
| 1892 | Infrastructure | Task    | Rejected | Normal   | decide acceptable exceptions thrown by ping()                                  |            | 2011-10-24 22:16 |                               |
| 1891 | Infrastructure | Task    | Closed   | Normal   | update MethodCrossReference.xls in docs                                        | Rob Nahf   | 2011-10-24 22:08 |                               |
| 1887 | Infrastructure | Task    | Closed   | Normal   | update MethodCrossReferenc.xls in docs                                         | Rob Nahf   | 2011-10-25 16:32 |                               |
| 1886 | Infrastructure | Task    | Closed   | Normal   | update MNWebTester deployment with libclient changes                           |            | 2011-10-24 20:06 |                               |
| 1885 | Infrastructure | Task    | Closed   | Normal   | refactor d1_libclient_java to add version path segment to MN api calls.        |            | 2011-10-24 20:04 |                               |
| 1862 | Infrastructure | Task    | Closed   | Normal   | tie in solr search methods into the CN service API search method               | Rob Nahf   | 2011-10-17 17:10 |                               |
| 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             |
| 1699 | Infrastructure | Task    | Rejected | Normal   | elaborate d1_certificate_manager package for creating self-signed certificates | Rob Nahf   | 2012-02-08 22:34 | Authentication, Authorization |
| 1670 | Infrastructure | Task    | Closed   | Normal   | update python implementations related to missing InvalidToken exceptions       | Roger Dahl | 2012-02-13 18:11 | d1_common_python              |

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