

## Issues

| #    | Project        | Tracker | Status      | Priority | Subject   | Assignee       | Updated          | Category                      |
|------|----------------|---------|-------------|----------|---|----------------|------------------|-------------------------------|
| 7528 | DataONE API    | Bug     | New         | Normal   | Incorrect argument name documented for CNCORE.reserveldentifier                               |                | 2015-12-08 19:51 | api_documentation             |
| 7127 | DataONE API    | Task    | New         | Normal   | Finalize CNAuthentication interface   | Dave Vieglaiss | 2015-05-21 19:31 | api_documentation             |
| 7578 | DataONE API    | Bug     | New         | Normal   | Fix 404 link to d1_instance_generator folder in documentation                                 |                | 2016-01-08 22:01 | api_documentation             |
| 7839 | DataONE API    | Task    | New         | Normal   | Online documentation places synchronize in CNRead api   | Dave Vieglaiss | 2016-12-21 09:04 | api_documentation             |
| 7559 | Infrastructure | Story   | New         | Normal   | Develop plan for securing application passwords in the CN stack                               | Dave Vieglaiss | 2018-01-17 19:34 | Architecture Design           |
| 7807 | Infrastructure | Story   | New         | Low      | cn.synchronize should support synchronization failure corrections.                            |                | 2018-01-17 19:15 | Architecture Design           |
| 6754 | Infrastructure | Task    | New         | Normal   | Architecture API loose ends   | Dave Vieglaiss | 2015-01-13 18:54 | Architecture Design           |
| 7224 | Infrastructure | Story   | New         | Normal   | push synchronization request status indicator: synchronizeStatus method option                |                | 2018-01-17 19:38 | Architecture Design           |
| 8107 | Infrastructure | Feature | New         | Normal   | Improved Node Synchronization Feedback - Leveraging MNRRead.synchronizationFailed()           |                | 2017-06-27 16:46 | Architecture Design           |
| 8046 | Infrastructure | Bug     | New         | Normal   | Mutable Member Nodes orphan unhosted objects  |                | 2017-03-15 17:40 | Architecture Design           |
| 8061 | Infrastructure | Story   | New         | Normal   | develop queue-based processing system for the CN  | Rob Nahf       | 2018-01-17 19:00 | Architecture Design           |
| 6499 | Infrastructure | Feature | New         | Normal   | define and implement addFormat() method   | Rob Nahf       | 2016-06-22 16:51 | 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           |
| 7967 | Infrastructure | Bug     | In Progress | Normal   | The CN is not following the xml schema definition when creating dataone exceptions            | Dave Vieglaiss | 2018-05-23 18:13 | Architecture Design           |
| 8237 | Infrastructure | Task    | New         | Normal   | Configure production environment to use new API key under KU ORCID membership                 | Dave Vieglaiss | 2018-01-09 02:21 | 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 |
| 2281 | Infrastructure | Task    | New         | Low      | Possibly update the Identity Management and Authenticated Session Management doc              | Matthew Jones  | 2014-10-01 20:47 | Authentication, Authorization |
| 8234 | Infrastructure | Story   | New         | Normal   | Use University of Kansas ORCID membership to support authentication in production environment | Dave Vieglaiss | 2018-01-09 19:10 | Authentication, Authorization |
| 2549 | Infrastructure | Task    | New         | Normal   | document the decision   | Matthew Jones  | 2012-03-27 22:03 | Authentication, Authorization |
| 8109 | Infrastructure | Story   | New         | Normal   | Does authentication token need to include group information?                                  | Dave Vieglaiss | 2018-01-17 18:45 | Authentication, Authorization |
| 3891 | Infrastructure | Task    | New         | Normal   | review vulnerability to BREACH attacks  | Dave Vieglaiss | 2013-08-07 15:01 | Authentication, Authorization |
| 8238 | Infrastructure | Task    | New         | Normal   | Document contacts and procedure for using KU ORCID membership API key                         | Dave Vieglaiss | 2018-01-09 02:22 | Authentication, Authorization |
| 2548 | Infrastructure | Story   | New         | Normal   | recasting untrusted certs to public poses accessibility inconsistency to users                |                | 2018-01-17 20:36 | Authentication, Authorization |

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| 7358 | Infrastructure | Story   | In Progress | Normal   | ContactSubject on NodeList must be valid D1 ldap entry   | Dave Vieglais | 2016-12-21 09:05 | Authentication, Authorization |
| 7918 | CN REST        | Bug     | New         | Normal   | SEAD object only partially synchronized - missing autogen.2016092916012224122 document from /var/metacat/documents   | Dave Vieglais | 2016-10-21 18:00 | cn_metacat                    |
| 8740 | CN REST        | Bug     | New         | Normal   | CN resolve service returning 404 for some pids   |               | 2019-01-22 18:41 | cn_metacat                    |
| 3768 | Infrastructure | Task    | New         | Normal   | Add canonical DataONE description paper to citing DataONE web-page   | Amber Budden  | 2013-05-16 22:20 | Community Engagement          |
| 6034 | Infrastructure | Task    | In Progress | Normal   | d1_client_cli CCI 2.0 support  | Roger Dahl    | 2014-08-11 16:23 | d1_client_cli                 |
| 925  | Infrastructure | Task    | New         | Normal   | Test for correct response to invalid input: CCI.ITK.FUSE-client  |               | 2011-10-31 20:32 | d1_client_ONEDrive            |
| 8855 | Infrastructure | Story   | New         | Normal   | Put the system metadata part ahead of the object part when d1_client_r constructs the multipart                      | Matthew Jones | 2019-11-22 18:29 | d1_client_r                   |
| 5582 | Infrastructure | Bug     | New         | Normal   | xinetd not supported via debian install  | Robert Waltz  | 2014-10-02 19:27 | d1_cn_buildout                |
| 6882 | Infrastructure | Bug     | New         | Normal   | after CN upgrade togglePortsAndReplication.sh missing  | Robert Waltz  | 2016-01-05 17:54 | d1_cn_buildout                |
| 2791 | Infrastructure | Task    | New         | Normal   | verify on dev machines   | Dave Vieglais | 2012-05-21 17:41 | d1_cn_buildout                |
| 7713 | Infrastructure | Story   | New         | Normal   | d1DebConfig.xml should be versioned in dataone-cn-os-core  | Rob Nahf      | 2018-01-17 19:24 | d1_cn_buildout                |
| 5137 | Infrastructure | Task    | New         | Normal   | Fix DataONE CA chain file location in cn-buildout  | Chris Jones   | 2014-04-25 15:06 | d1_cn_buildout                |
| 1226 | Infrastructure | Task    | New         | Normal   | Verify that cn buildout is using the hudson generated Metacat war  |               | 2011-01-13 14:57 | d1_cn_buildout                |
| 2896 | Infrastructure | Task    | New         | Normal   | Modify the admin DN in createObjectformat script per environment   | Chris Jones   | 2012-10-05 14:23 | d1_cn_buildout                |
| 3869 | Infrastructure | Bug     | New         | Normal   | wrong key set in portal/WEB-INF/client.xml   | Robert Waltz  | 2016-08-10 20:58 | d1_cn_buildout                |
| 6060 | Infrastructure | Bug     | New         | Normal   | dataone-cn-index install should fail if subtasks fail  | Robert Waltz  | 2016-08-10 20:58 | d1_cn_buildout                |
| 4129 | Infrastructure | Bug     | New         | Normal   | Only configure ufw ports for machines in xml configuration file  | Robert Waltz  | 2016-08-10 20:47 | d1_cn_buildout                |
| 4142 | Infrastructure | Bug     | New         | Normal   | dataone-cn-processdaemon prerm needs to be reconfiguration friendly  | Robert Waltz  | 2016-08-10 20:58 | d1_cn_buildout                |
| 6044 | Infrastructure | Bug     | New         | Normal   | Indexer needs port 5432 open to localhost during postinst  | Robert Waltz  | 2015-01-06 18:17 | d1_cn_buildout                |
| 8376 | Infrastructure | Feature | New         | Normal   | Make the script file - insertOrUpdateObjectFormatList.sh (in metacat cn buildout) change the user name automatically | Jing Tao      | 2018-02-21 22:48 | d1_cn_buildout                |
| 7920 | Infrastructure | Story   | In Progress | Normal   | migrate apache2 authorization rules from 2.2 conforming to 2.4   | Dave Vieglais | 2018-01-17 18:59 | d1_cn_buildout                |
| 4650 | Infrastructure | Story   | New         | Normal   | Allow MN to bias resolve to the authoritative MN   | Rob Nahf      | 2018-01-17 20:00 | d1_cn_common                  |
| 7650 | Infrastructure | Story   | New         | Normal   | DAO for SystemMetadata changes the SystemMetadata.replicationPolicy  | Rob Nahf      | 2018-01-17 19:31 | d1_cn_common                  |
| 8733 | CN REST        | Bug     | New         | Normal   | Exception handling in ForesiteResourceMap needs improvement  | Jing Tao      | 2018-10-12 20:09 | d1_cn_index_processor         |
| 7746 | CN REST        | Bug     | In Progress | Normal   | Node registration update fails when <contactSubject> spans multiple lines  | Rob Nahf      | 2016-04-26 17:30 | d1_cn_noderegistry            |

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| 8307 | Infrastructure | Story       | New         | Normal   | Check node subject on node registration and subsequent calls   | Jing Tao       | 2018-02-06 20:06 | d1_cn_node_registry   |
| 3572 | Infrastructure | Bug         | New         | Normal   | LDAP not updated for Node when synchronized set to true  | Robert Waltz   | 2014-10-01 22:56 | d1_cn_node_registry   |
| 7489 | CN REST        | Bug         | New         | Normal   | processing daemon common-logging misconfigured   | Robert Waltz   | 2016-01-21 17:18 | d1_cn_process_daemon  |
| 8867 | CN REST        | Bug         | New         | High     | CNCore.listChecksumAlgorithms() returns incorrect list   | Jing Tao       | 2020-08-06 00:06 | d1_cn_rest            |
| 8698 | CN REST        | Bug         | New         | Normal   | CN Performance degradation   |                | 2018-09-13 21:05 | d1_cn_rest            |
| 8770 | CN REST        | Story       | New         | Normal   | Issue with CN handling of encoded identifiers in object/ meta/ node/, others?  | Jing Tao       | 2019-03-05 19:37 | d1_cn_rest            |
| 7903 | CN REST        | Task        | New         | Normal   | Need to implement/support the default http methods - HEAD and GET on all DataONE API (both cn and mn)                        | Jing Tao       | 2016-10-10 16:53 | d1_cn_rest            |
| 8771 | CN REST        | Story       | New         | Normal   | Issue with LDAP when updating `nodeReplicationPolicy`  | Dave Vieglais  | 2019-03-05 19:43 | d1_cn_rest            |
| 592  | Requirements   | Requirement | New         | High     | DataONE needs to synchronize metadata between MNs and CNs  | Robert Waltz   | 2010-09-06 02:28 | d1_cn_service         |
| 4674 | Infrastructure | Bug         | New         | Urgent   | Ask Judith, Mike and Virginia Perez.2.1 to obsolete those pids which contain the white spaces.                               | Jing Tao       | 2017-05-04 18:01 | d1_cn_service         |
| 6168 | Infrastructure | Task        | New         | Normal   | CNAuthorization.setRightsHolder() returns 500 ServiceFailure   | Chris Jones    | 2014-08-29 16:01 | d1_cn_service         |
| 7940 | Infrastructure | Story       | New         | Normal   | Retrieval of system metadata is too slow   | Robert Waltz   | 2018-01-09 19:10 | d1_cn_service         |
| 8058 | Infrastructure | Feature     | New         | Normal   | Allow "upcoming" nodes to appear in the node list  | Robert Waltz   | 2017-04-03 18:33 | d1_cn_service         |
| 6250 | Infrastructure | Task        | New         | Normal   | CN methods return 500 ServiceFailure when called with bogus test data and without certificates                               | Chris Jones    | 2014-08-29 18:59 | d1_cn_service         |
| 4211 | Infrastructure | Bug         | New         | Normal   | Potential race condition between archive and replication   | Chris Jones    | 2014-09-25 17:19 | d1_cn_service         |
| 1236 | Infrastructure | Task        | New         | Normal   | Highly variable response times from cn.dataone.org   |                | 2011-01-17 16:34 | d1_cn_service         |
| 5145 | Infrastructure | Feature     | New         | Normal   | Consider including cert subject(s) in NotAuthorized exceptions   | Chris Jones    | 2014-09-25 17:44 | d1_cn_service         |
| 7371 | Infrastructure | Bug         | New         | Normal   | A systemMetadata update that changes the formatID from DATA to METADATA or RESOURCE_MAP will not upload the object to the CN | Robert Waltz   | 2015-09-22 21:47 | d1_cn_service         |
| 6166 | Infrastructure | Task        | New         | Normal   | CNRead.getChecksum() returns Content-Type of text/csv while it should be an xml type   | Chris Jones    | 2014-08-29 15:04 | d1_cn_service         |
| 4067 | Infrastructure | Bug         | New         | Normal   | Validate Node stream in MultipartHttpServletRequest in register and updateNodeCapabilities.                                  | Robert Waltz   | 2016-08-10 21:01 | d1_cn_service         |
| 7047 | Infrastructure | Task        | New         | Normal   | Set user-agent in http request header for CN requests to member nodes  | Robert Waltz   | 2015-04-15 22:41 | d1_cn_service         |
| 8103 | Infrastructure | Task        | New         | Normal   | Upgrade the postgresql jdbc jar file on the cn context   | Jing Tao       | 2017-06-02 20:56 | d1_cn_service         |
| 8766 | Infrastructure | Feature     | In Progress | Normal   | support server-side link checking for the 303 redirect url in the resolve call   | Rob Nahf       | 2019-05-31 15:16 | d1_cn_service         |
| 7698 | Infrastructure | Bug         | New         | Low      | Exclude SLF4J jars in d1_solr_extensions.jar   |                | 2016-03-28 16:22 | d1_cn_solr_extensions |
| 4147 | Infrastructure | Task        | In Progress | Normal   | Modify d1_spatial_reporter.py to produce custom JSON output  | Chris Brumgard | 2014-03-31 17:41 | d1_cn_tools           |

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| 822  | Requirements     | Requirement | New         | High     | (Requirement) Object access and manipulation should be responsive   | Dave Vieglaiss | 2010-09-06 20:27 | d1_common_java      |
| 411  | Requirements     | Requirement | New         | High     | (Requirement) The infrastructure must survive destruction of one or more data storage nodes                           | Dave Vieglaiss | 2010-09-06 03:10 | d1_common_java      |
| 821  | Requirements     | Requirement | New         | High     | (Requirement) Sponsor required functionality  | Dave Vieglaiss | 2010-09-06 03:28 | d1_common_java      |
| 318  | Requirements     | Requirement | New         | High     | (Requirement) Sponsor required Y1 functionality   | Dave Vieglaiss | 2010-09-06 03:24 | d1_common_java      |
| 384  | Requirements     | Requirement | New         | High     | (Requirement) Enable efficient mechanisms for users to discover content   | Dave Vieglaiss | 2010-09-06 03:58 | d1_common_java      |
| 1647 | Java Client      | Task        | New         | Normal   | Update d1_common_java ObjectFormatServiceImpl to include addFormat()  |                | 2016-06-22 16:51 | d1_common_java      |
| 1554 | Java Client      | Task        | New         | Normal   | Create MockHttpClient for testing in d1_common_java   | Rob Nahf       | 2015-02-11 19:49 | d1_common_java      |
| 4660 | Java Client      | Task        | New         | Normal   | src/main/java has XML files   | Robert Waltz   | 2015-02-11 20:08 | d1_common_java      |
| 6511 | Java Client      | Task        | New         | Normal   | remove the deprecated MultipartRequestHandler class from d1_common_java   | Rob Nahf       | 2015-02-11 20:04 | d1_common_java      |
| 1555 | Java Client      | Task        | New         | Normal   | Modify TestSimpleMultipartEntity for use with MockHttpClient  | Rob Nahf       | 2015-02-11 19:49 | d1_common_java      |
| 7910 | Infrastructure   | Task        | New         | Normal   | schema validation behavior  | Rob Nahf       | 2018-01-18 02:41 | d1_common_java      |
| 7370 | Infrastructure   | Bug         | New         | Normal   | TypeFactory.convertTypeFromType does not use xmlValue comparisons for Enum conversions                                | Rob Nahf       | 2015-09-21 16:07 | d1_common_java      |
| 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      |
| 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      |
| 7425 | Python Libraries | Task        | New         | Normal   | Replace httplib low level use in RestClient with the requests library   | Dave Vieglaiss | 2016-03-25 02:03 | d1_common_python    |
| 2147 | Infrastructure   | Task        | New         | Low      | The Python stack does not support Unicode supplementary characters (above 0xffff)                                     | Roger Dahl     | 2012-04-16 03:50 | d1_common_python    |
| 6026 | Infrastructure   | Task        | In Progress | Normal   | d1_common CCI 2.0 support   | Roger Dahl     | 2014-08-01 15:49 | d1_common_python    |
| 3763 | Infrastructure   | Task        | New         | Low      | Visualize PyPI download statistics for Python components  | Roger Dahl     | 2014-10-01 21:32 | d1_dashboard        |
| 4125 | Infrastructure   | Task        | New         | Normal   | Mock up an informational section of the Member Node detail view   | Chris Jones    | 2014-03-31 17:41 | d1_dashboard        |
| 3762 | Infrastructure   | Feature     | New         | Low      | DataONE software download statistics  | Roger Dahl     | 2014-10-01 21:32 | d1_dashboard        |
| 4120 | Infrastructure   | Task        | New         | Normal   | Display total data downloads in the SummaryView header  | Skye Roseboom  | 2014-03-31 17:41 | d1_dashboard        |
| 3978 | Infrastructure   | Task        | In Progress | Normal   | Add a CN reporting script that summarizes spatial data for the dashboard  | Chris Jones    | 2014-03-31 17:41 | d1_dashboard        |
| 4136 | Infrastructure   | Task        | In Progress | Normal   | Make cosmetic changes to the distribution map   | Chris Jones    | 2014-03-31 17:41 | d1_dashboard        |
| 1073 | Infrastructure   | Task        | New         | Normal   | Design client application authentication redirection approach   | Matthew Jones  | 2014-10-01 20:47 | d1_identity_manager |

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| 8630 | CN REST        | Bug     | New    | Normal   | equivalentIdentity values use uppercase letters when the same person subject values are lowercase |                 | 2018-06-26 14:15 | d1_identity_manager |
| 8043 | Infrastructure | Bug     | New    | Normal   | The origin field for EML documents isn't properly extracted when references are used              | Jing Tao        | 2019-02-12 18:45 | d1_indexer          |
| 8182 | Infrastructure | Bug     | New    | Normal   | relationships defined using SIDs in resource maps don't stay current                              | Rob Nahf        | 2017-09-12 00:13 | d1_indexer          |
| 3313 | Infrastructure | Task    | New    | Normal   | Configure indexer to handle inline eml data   | Skye Roseboom   | 2012-10-08 21:01 | d1_indexer          |
| 8869 | Infrastructure | Story   | New    | Normal   | Equivalent identities show owning different amount of packages.                                   | Jing Tao        | 2020-09-24 22:34 | d1_indexer          |
| 3675 | Infrastructure | Bug     | New    | High     | package relationships not available for archived objects  | Rob Nahf        | 2018-09-21 21:01 | d1_indexer          |
| 8363 | Infrastructure | Story   | New    | Normal   | indexer shutdown generates index tasks  | Rob Nahf        | 2018-09-24 15:25 | d1_indexer          |
| 8052 | Infrastructure | Bug     | New    | Normal   | Geohashed value is incorrect  | Peter Slaughter | 2017-04-07 22:06 | d1_indexer          |
| 8758 | Infrastructure | Story   | New    | Normal   | Index replicationStatus field   | Jing Tao        | 2019-01-14 18:00 | d1_indexer          |
| 7668 | Infrastructure | Story   | New    | Normal   | Determine how indexing of data packages should work   | Jing Tao        | 2018-01-17 19:28 | d1_indexer          |
| 8361 | Infrastructure | Bug     | New    | Normal   | index processor throws unhandled NPE if task systemMetadata is null                               | Rob Nahf        | 2018-03-22 16:54 | d1_indexer          |
| 8570 | Infrastructure | Bug     | New    | Normal   | index task not generated for a newly synchronized object  | Jing Tao        | 2018-04-20 20:51 | d1_indexer          |
| 8093 | Infrastructure | Bug     | New    | Normal   | resource map index processing is inefficient (2sec / referenced object)                           | Rob Nahf        | 2017-05-10 20:00 | d1_indexer          |
| 3156 | Infrastructure | Task    | New    | Low      | Design Review: resource map indexing strategy   | Skye Roseboom   | 2012-08-27 18:51 | d1_indexer          |
| 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          |
| 7933 | Infrastructure | Bug     | New    | Normal   | d1-index-task-processor stops processing task queue   | Jing Tao        | 2017-01-11 23:47 | d1_indexer          |
| 7936 | Infrastructure | Bug     | New    | Normal   | Same pid with different status exists in the index_task table                                     | Jing Tao        | 2017-02-27 18:07 | d1_indexer          |
| 8504 | Infrastructure | Story   | New    | Normal   | Support creation of data citation record from solr record   | Monica Ihli     | 2018-07-17 23:06 | d1_indexer          |
| 8078 | Infrastructure | Task    | New    | Normal   | standardize task serialization for language independence  | Rob Nahf        | 2017-04-25 22:39 | d1_indexer          |
| 8540 | Infrastructure | Story   | New    | Normal   | interesting 15 minute Hazelcast timeout in IndexProcessor   | Rob Nahf        | 2018-04-12 04:32 | d1_indexer          |
| 8731 | Infrastructure | Bug     | New    | Normal   | Indexing solr client method is building query with too many ORs, causing errors                   | Rob Nahf        | 2018-10-04 22:25 | d1_indexer          |
| 8173 | Infrastructure | Story   | New    | High     | add checks for retrograde systemMetadata changes  | Jing Tao        | 2018-01-17 18:38 | d1_indexer          |
| 8850 | Infrastructure | Bug     | New    | Normal   | v2.3.11 RdfXmlSubprocessor / HttpService.getDocumentBySeriesId can be wrong                       | Jing Tao        | 2019-11-06 18:32 | d1_indexer          |
| 4278 | Infrastructure | Story   | New    | Normal   | EML indexing - handle multiple temporalCoverage and spatialCoverage elements                      | Jing Tao        | 2018-01-17 20:04 | d1_indexer          |
| 8703 | Infrastructure | Task    | New    | Normal   | test the cleaned up indexer in DEV  | Rob Nahf        | 2018-09-24 18:05 | d1_indexer          |

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| 8702 | Infrastructure | Story   | New         | Normal   | Indexing Refactor Strategy  | Rob Nahf       | 2018-09-24 18:05 | d1_indexer |
| 8686 | Infrastructure | Bug     | New         | Normal   | d1-index-task-processor failed with NPE   | Rob Nahf       | 2018-08-24 01:35 | d1_indexer |
| 8541 | Infrastructure | Bug     | New         | Normal   | index shutdown threw exception  | Rob Nahf       | 2018-04-12 16:44 | d1_indexer |
| 8066 | Infrastructure | Task    | New         | Normal   | Verify completeness of unit test MetacatRdfXmlSubprocessorTest  | Dave Vieglaiss | 2017-04-11 23:47 | d1_indexer |
| 8841 | Infrastructure | Story   | New         | Normal   | Solr Index processor don't parse the attributes on the otherEntity on an EML object                                   | Jing Tao       | 2019-09-10 22:41 | d1_indexer |
| 8470 | Infrastructure | Story   | New         | Normal   | Make the spring context of the d1_index_processor daemon more configurable  | Jing Tao       | 2018-03-22 16:53 | d1_indexer |
| 8448 | Infrastructure | Bug     | New         | Normal   | d1_cn_index_tool doesn't reindex an pid from a given file   | Jing Tao       | 2018-03-02 22:06 | d1_indexer |
| 8084 | Infrastructure | Story   | New         | Normal   | determine the backup strategy for rabbitMQ  | Rob Nahf       | 2018-01-17 18:46 | d1_indexer |
| 8696 | Infrastructure | Bug     | New         | Urgent   | double indexing of a resource map and another not processed because of resource contention (lock) on member           | Rob Nahf       | 2018-09-12 00:22 | d1_indexer |
| 8837 | Infrastructure | Story   | New         | Normal   | Merge the changes from metacat's feature-project-indexing branch to d1_cn_index_processor                             | Jing Tao       | 2019-08-16 17:18 | d1_indexer |
| 8779 | Infrastructure | Story   | New         | Normal   | ForesiteResourceMap performance issue   | Rob Nahf       | 2019-03-25 18:48 | 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 |
| 8500 | Infrastructure | Bug     | New         | High     | Geohash not calculated properly   | Jing Tao       | 2018-03-14 17:06 | d1_indexer |
| 7858 | Infrastructure | Bug     | New         | Normal   | Obsoleting a resource map clears the resourceMap field for the obsoleted package                                      |                | 2017-03-28 16:20 | d1_indexer |
| 7935 | Infrastructure | Task    | New         | Normal   | Use a dedicated hazelcast queue as the listener to generate index task  | Jing Tao       | 2017-02-27 18:07 | d1_indexer |
| 8736 | Infrastructure | Story   | New         | Normal   | Decouple the index generator to the hazelcast system metadata map   |                | 2019-01-22 19:27 | d1_indexer |
| 8780 | Infrastructure | Feature | New         | Normal   | Develop support for DataCite 4.0 and 4.1 and 4.2  | Dave Vieglaiss | 2019-03-30 20:38 | 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 |
| 8172 | Infrastructure | Story   | In Progress | Normal   | investigate atomic updates for some solr updates  | Rob Nahf       | 2018-01-17 18:39 | d1_indexer |
| 6843 | Infrastructure | Task    | In Progress | Normal   | Update the prov instance of the RdfXmlSubprocessor to index renamed and inverse provenance properties                 | Chris Jones    | 2017-03-28 16:16 | d1_indexer |
| 7570 | Infrastructure | Bug     | In Progress | Normal   | Search UI requests cause Out of Memory Error  | Jing Tao       | 2017-04-26 21:01 | d1_indexer |
| 7407 | Infrastructure | Story   | In Progress | Normal   | object formats in the d1_common_java bootstrap list are inconsistent with production                                  | Dave Vieglaiss | 2016-03-15 16:49 | d1_indexer |
| 8081 | Infrastructure | Story   | In Progress | Normal   | develop federated broker configuration for indexing   | Rob Nahf       | 2018-01-17 18:46 | d1_indexer |
| 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 |

| #    | Project        | Tracker | Status      | Priority | Subject   | Assignee      | Updated          | Category          |
|------|----------------|---------|-------------|----------|---|---------------|------------------|-------------------|
| 8079 | Infrastructure | Task    | In Progress | Normal   | prototype durable task processing for d1_index_processor  | Rob Nahf      | 2017-04-26 05:45 | d1_indexer        |
| 8571 | Infrastructure | Bug     | In Progress | Normal   | IndexTool can't index a data object   | Jing Tao      | 2018-04-23 20:13 | d1_indexer        |
| 8738 | Infrastructure | Story   | In Progress | Normal   | HZEventFilter performance decline with increased task queue   | Rob Nahf      | 2018-10-30 04:10 | d1_indexer        |
| 8735 | Infrastructure | Bug     | In Progress | Normal   | NPE in IndexTask causes indexing job to fail  | Rob Nahf      | 2018-10-18 18:33 | d1_indexer        |
| 8536 | Infrastructure | Bug     | In Progress | Normal   | resource Map update when metadata SID is used is not indexed  | Rob Nahf      | 2018-04-12 20:55 | d1_indexer        |
| 3624 | Infrastructure | Task    | Testing     | Normal   | Update CN index processing to support ESRI FGDC metadata format                                       | Skye Roseboom | 2013-03-05 23:27 | d1_indexer        |
| 8228 | Infrastructure | Bug     | New         | Normal   | Excessive replicas requested by integration test  | Rob Nahf      | 2018-03-02 21:52 | d1_integration    |
| 2545 | Infrastructure | Task    | New         | Normal   | create d1_integration tests using for MN.generateIdentifier   | Rob Nahf      | 2014-10-02 17:54 | d1_integration    |
| 3757 | Infrastructure | Task    | New         | Normal   | Verify Log reporting in MN Tester   | Rob Nahf      | 2013-05-10 17:42 | d1_integration    |
| 3907 | Infrastructure | Task    | New         | Normal   | MN Integration Test - verify system metadata returned matches expected                                | Rob Nahf      | 2013-08-09 18:48 | d1_integration    |
| 6854 | Infrastructure | Feature | In Progress | Normal   | add testAssumptionFailure to run listener   | Rob Nahf      | 2016-01-26 22:30 | d1_integration    |
| 2956 | Infrastructure | Task    | In Progress | Normal   | content-checking tests for MNs entering an environment  | Rob Nahf      | 2014-10-01 22:04 | d1_integration    |
| 907  | Infrastructure | Task    | In Progress | Normal   | unify d1_integration for multiple environments and test languages                                     | Rob Nahf      | 2012-10-16 21:34 | d1_integration    |
| 7312 | Java Client    | Feature | New         | Normal   | Restart connection manager  |               | 2015-08-24 17:24 | d1_libclient_java |
| 1648 | Java Client    | Task    | New         | Normal   | Update d1_libclient_java ObjectFormatCache to include addFormat()                                     |               | 2016-06-22 16:51 | d1_libclient_java |
| 2968 | Java Client    | Bug     | New         | Normal   | cn.getFormat() doesn't use cn associated with the CNode object  | Rob Nahf      | 2015-02-11 20:56 | d1_libclient_java |
| 3165 | Java Client    | Bug     | New         | Low      | Libclient caching does not respect accessPolicies   | Rob Nahf      | 2015-02-11 18:37 | d1_libclient_java |
| 6850 | Java Client    | Story   | New         | Normal   | automate Java Client releases   | Rob Nahf      | 2018-01-17 19:42 | d1_libclient_java |
| 1559 | Java Client    | Task    | New         | Low      | Refactor d1_libclient_java echo tests   | Rob Nahf      | 2015-02-11 19:49 | d1_libclient_java |
| 8230 | Infrastructure | Task    | New         | Normal   | review bouncy castle version  | Rob Nahf      | 2018-03-02 21:48 | d1_libclient_java |
| 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 |
| 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 |
| 8854 | Infrastructure | Story   | New         | Normal   | Put the system metadata part ahead of the object part when d1_libclient_java constructs the multipart | Jing Tao      | 2019-11-22 18:25 | d1_libclient_java |
| 7538 | Infrastructure | Task    | New         | Normal   | look at nodeFactory in how it builds mock CNodes  | Rob Nahf      | 2015-12-10 17:03 | d1_libclient_java |
| 8045 | Infrastructure | Bug     | New         | Normal   | certificateLocation not seeming to be utilized  | Rob Nahf      | 2017-03-14 20:45 | d1_libclient_java |
| 7537 | Infrastructure | Task    | New         | Normal   | add nodelist refreshes to NodeLocator classes   | Rob Nahf      | 2015-12-10 16:59 | d1_libclient_java |
| 3057 | Java Client    | Task    | In Progress | Normal   | retest CLOSE_WAIT issue once the lib client is complete.  | Rob Nahf      | 2015-02-11 19:52 | d1_libclient_java |

| #    | Project          | Tracker | Status      | Priority | Subject  | Assignee       | Updated          | Category            |
|------|------------------|---------|-------------|----------|--|----------------|------------------|---------------------|
| 6369 | Java Client      | Feature | In Progress | Normal   | ResourceMapFactory.parseResourceMap does not return aggregated resources   | Rob Nahf       | 2015-02-11 20:56 | d1_libclient_java   |
| 7432 | Java Client      | Bug     | In Progress | Normal   | Java Client does not support idFilter for v2 release   | Rob Nahf       | 2019-06-14 18:47 | d1_libclient_java   |
| 3721 | Java Client      | Task    | In Progress | Normal   | add resource map validation routine to libclient_java  | Rob Nahf       | 2015-02-11 20:42 | d1_libclient_java   |
| 3666 | Java Client      | Story   | In Progress | Low      | D1Client.listUpdateHistory() needs to handle changing access policies  | Rob Nahf       | 2018-01-17 20:19 | d1_libclient_java   |
| 7523 | Infrastructure   | Bug     | In Progress | Normal   | D1Client no longer updates stale NodeList  | Rob Nahf       | 2016-04-19 22:27 | d1_libclient_java   |
| 7322 | Java Client      | Bug     | Testing     | Normal   | D1Object stores data in memory, causes out of memory errors  | Chris Jones    | 2015-08-28 00:15 | d1_libclient_java   |
| 7389 | Java Client      | Task    | Testing     | Normal   | V2 D1Object fails to download V1 content   | Chris Jones    | 2015-09-28 17:50 | d1_libclient_java   |
| 7120 | Java Client      | Task    | Testing     | Normal   | Fix DataPackage.insertRelationship() to handle any URI for external identifiers                                      | Chris Jones    | 2015-06-04 21:48 | d1_libclient_java   |
| 7821 | Python Libraries | Task    | New         | Low      | Verify Expect: 100-Continue header on POST or PUT requests   | Roger Dahl     | 2016-06-03 19:58 | d1_libclient_python |
| 7427 | Python Libraries | Task    | New         | Normal   | adjust API signatures in python libraries  | Dave Vieglaiss | 2016-03-25 01:11 | d1_libclient_python |
| 7299 | Python Libraries | Bug     | New         | Normal   | SolrConnection fails if persistent property is not set to True   | Roger Dahl     | 2016-04-20 19:45 | d1_libclient_python |
| 7298 | Python Libraries | Bug     | New         | Normal   | escapeQueryTerm should be a module method not a class method   | Dave Vieglaiss | 2015-08-18 15:06 | d1_libclient_python |
| 7123 | Python Libraries | Task    | New         | Normal   | Send Authorization header carrying authentication token  | Roger Dahl     | 2016-04-21 22:37 | d1_libclient_python |
| 7181 | Python Libraries | Task    | In Progress | Normal   | add d1_libclient_python implementation   | Dave Vieglaiss | 2016-04-21 22:37 | d1_libclient_python |
| 6033 | Infrastructure   | Task    | In Progress | Normal   | d1_libclient_python CCI 2.0 support  | Roger Dahl     | 2014-08-11 16:22 | d1_libclient_python |
| 7702 | Log Reporting    | Task    | New         | Normal   | abnormal strings in ipAddress field of solr  | Robert Waltz   | 2016-06-22 17:18 | d1_log_aggregation  |
| 7682 | Log Reporting    | Task    | New         | Normal   | Sluggish Purging Read Event Cache  |                | 2016-03-17 15:02 | d1_log_aggregation  |
| 8657 | Log Reporting    | Bug     | New         | Normal   | Log aggregation service not recording logs for the MNs - urn:node:TDAR and urn:node:OTS_NDC                          |                | 2018-07-16 21:36 | d1_log_aggregation  |
| 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  |
| 8604 | Infrastructure   | Task    | New         | Normal   | Update the static IP lists for robots etc  | Dave Vieglaiss | 2018-06-07 20:56 | d1_log_aggregation  |
| 8602 | Infrastructure   | Story   | New         | Normal   | Log aggregation and augmentation process mid 2018 updates  | Dave Vieglaiss | 2018-06-07 20:49 | d1_log_aggregation  |
| 7688 | Infrastructure   | Bug     | New         | Normal   | LogAggregation unable to change BaseURLs upon updateNodeCapabilities notification                                    | Dave Vieglaiss | 2018-01-02 12:02 | d1_log_aggregation  |
| 7868 | Infrastructure   | Bug     | New         | Normal   | potential gaps between log harvests  | Rob Nahf       | 2017-03-23 15:40 | d1_log_aggregation  |
| 6056 | Infrastructure   | Story   | New         | Normal   | remove log aggregation processing from d1-processing Linux service   | Dave Vieglaiss | 2018-01-17 19:55 | d1_log_aggregation  |
| 6513 | Infrastructure   | Story   | New         | Normal   | Create a Local Cache of all Membernode log records on the single master CN   | Dave Vieglaiss | 2018-01-17 19:49 | d1_log_aggregation  |
| 6514 | Infrastructure   | Task    | New         | Normal   | Reharvest all Records to build initial cache   | Robert Waltz   | 2015-01-13 15:56 | d1_log_aggregation  |
| 7104 | Infrastructure   | Task    | New         | Normal   | Event index reindexing shouldn't require re-harvest from MNs   |                | 2015-07-09 15:34 | d1_log_aggregation  |



| #    | Project        | Tracker  | Status      | Priority | Subject  | Assignee       | Updated          | Category           |
|------|----------------|----------|-------------|----------|--|----------------|------------------|--------------------|
| 8603 | Infrastructure | Bug      | New         | Normal   | log aggregation incorrectly assigning location information   | Dave Vieglaiss | 2018-06-07 20:52 | d1_log_aggregation |
| 1873 | Infrastructure | Feature  | New         | Normal   | Postprocessing tool for log reporting  |                | 2014-10-02 17:06 | d1_log_aggregation |
| 8105 | Infrastructure | Task     | New         | Normal   | Remove dataone-mercury from production CNs   | Jing Tao       | 2018-03-02 22:17 | d1_mercury         |
| 3099 | Infrastructure | Decision | New         | Normal   | ONE-Mercury display of data set citation   | Dave Vieglaiss | 2012-07-23 21:24 | d1_mercury         |
| 8791 | Infrastructure | Story    | New         | Normal   | Complete deprecation of ONEMercury interface   | Rob Nahf       | 2019-05-01 14:00 | d1_mercury         |
| 3328 | Infrastructure | Task     | New         | Normal   | Enable a data preview from the search results page   | Chris Jones    | 2012-10-23 19:34 | d1_mercury         |
| 1227 | Infrastructure | Task     | New         | Normal   | configure Hudson to build Mercury for deployment to a CN   | Dave Vieglaiss | 2011-01-13 15:16 | d1_mercury         |
| 3122 | Infrastructure | Bug      | In Progress | Normal   | asterisk in search term  | Skye Roseboom  | 2014-10-02 18:02 | d1_mercury         |
| 4303 | Infrastructure | Bug      | New         | Low      | Fix potential bug where an object could be created and accepted for replication simultaneously.      | Roger Dahl     | 2016-04-21 22:38 | d1_mn_GMN          |
| 4300 | Infrastructure | Bug      | New         | Low      | Create more appropriate "create" entry in the LogRecord for replicas                                 | Roger Dahl     | 2016-04-21 22:38 | d1_mn_GMN          |
| 8155 | Infrastructure | Story    | In Progress | Normal   | Ensure GMN fully supports the Package API  | Roger Dahl     | 2018-01-17 18:43 | d1_mn_GMN          |
| 2642 | Infrastructure | Task     | In Progress | Normal   | Try installing GMN according to the setup instructions   | Andrew Pippin  | 2012-07-06 16:25 | d1_mn_GMN          |
| 2492 | Infrastructure | Task     | New         | Normal   | Add status page for given {pid}  | Ben Leinfelder | 2012-03-15 02:02 | d1_monitor         |
| 2035 | Infrastructure | Task     | New         | Normal   | Design nagios system for monitoring CN locations   | Nick Outin     | 2014-09-24 18:29 | d1_monitor         |
| 2169 | Infrastructure | Task     | In Progress | Normal   | Design content and layout for status page  | Dave Vieglaiss | 2012-03-14 20:40 | d1_monitor         |
| 8724 | Infrastructure | Bug      | New         | Normal   | index out of bounds error in PortalCertificateManager  | Rob Nahf       | 2018-10-02 19:11 | d1_portal          |
| 8102 | Infrastructure | Task     | New         | Normal   | Upgrade postgresql jdbc jar file on Portal   | Jing Tao       | 2017-06-02 20:53 | d1_portal          |
| 8860 | CN REST        | Bug      | New         | Normal   | /token endpoint doesn't set a content-type and character encoding                                    |                | 2020-02-29 01:00 | d1_portal          |
| 7884 | Infrastructure | Task     | New         | Normal   | CN portal log is misconfigured   | Rob Nahf       | 2016-09-09 20:18 | d1_portal_servlet  |
| 8069 | Infrastructure | Bug      | New         | Normal   | Name from ORCID incorrectly parsed   | Ben Leinfelder | 2017-04-12 20:28 | d1_portal_servlet  |
| 8364 | CN REST        | Story    | In Progress | Normal   | Ensure portal uses correct X509 certificates   |                | 2019-05-21 12:57 | d1_portal_servlet  |
| 8469 | CN REST        | Task     | In Progress | Normal   | evaluate if ORCID API will continue to work after 1.2 is deprecated                                  | Jing Tao       | 2018-03-22 16:54 | d1_portal_servlet  |
| 8123 | Infrastructure | Bug      | Testing     | Normal   | portal hazelcast client should load config directly from xml   | Rob Nahf       | 2017-12-26 18:20 | d1_portal_servlet  |
| 8026 | Infrastructure | Task     | Testing     | High     | Portal reaches the maximum capacity in a pool  | Jing Tao       | 2017-03-14 00:36 | d1_portal_servlet  |
| 5321 | Infrastructure | Bug      | New         | Normal   | Multiple Hazelcast Client connections to same storage instance                                       | Robert Waltz   | 2016-08-10 20:58 | d1_process_daemon  |
| 8161 | Infrastructure | Bug      | New         | Normal   | d1-processing Out of Memory Error  | Dave Vieglaiss | 2018-02-20 16:19 | d1_process_daemon  |
| 8739 | Infrastructure | Task     | In Progress | Normal   | Attempting to set ulimit results in error on UCSB systems  | Jing Tao       | 2018-11-08 15:10 | d1_process_daemon  |
| 8856 | Infrastructure | Story    | New         | Normal   | Put the system metadata part ahead of the object part when d1_client_python constructs the multipart |                | 2019-11-22 18:31 | d1_python          |

| #    | Project        | Tracker | Status      | Priority | Subject  | Assignee       | Updated          | Category               |
|------|----------------|---------|-------------|----------|--|----------------|------------------|------------------------|
| 6376 | Infrastructure | Task    | New         | Normal   | test the new strategy against working ReplicationManager test  | Rob Nahf       | 2016-06-22 16:53 | d1_replication         |
| 8162 | Infrastructure | Story   | New         | Normal   | Replication tasks can contain stale potential target nodes   | Rob Nahf       | 2018-03-02 21:47 | d1_replication         |
| 4038 | Infrastructure | Feature | New         | Normal   | change default replication implementation  | Matthew Jones  | 2014-10-01 21:26 | d1_replication         |
| 8642 | Infrastructure | Bug     | New         | Normal   | Replication tasks apparently not deleted from backing store in a timely fashion  | Dave Vieglaiss | 2018-07-05 12:11 | d1_replication         |
| 8639 | Infrastructure | Story   | New         | Normal   | Replication performance is too slow to service demand  | Chris Jones    | 2018-07-04 11:18 | d1_replication         |
| 7178 | Infrastructure | Bug     | New         | Normal   | duplicate replica information on mn-demo-5   | Robert Waltz   | 2015-07-01 20:14 | d1_replication         |
| 8641 | Infrastructure | Bug     | New         | Normal   | Any change to SystemMetadata causes a new replication task to be generated without consideration of the object replicability | Chris Jones    | 2018-07-04 12:28 | d1_replication         |
| 8640 | Infrastructure | Bug     | New         | Normal   | Replication includes "down" nodes as replication targets   | Chris Jones    | 2018-07-04 11:29 | d1_replication         |
| 8196 | Infrastructure | Bug     | New         | Normal   | Duplicated replicas in the system metadata   | Jing Tao       | 2017-10-18 17:19 | d1_replication         |
| 6372 | Infrastructure | Task    | In Progress | Normal   | rehabilitate ReplicationManager "unit" tests   | Rob Nahf       | 2016-06-22 16:53 | d1_replication         |
| 6377 | Infrastructure | Story   | In Progress | Normal   | Review CNode initialization in ReplicationManager - it doesn't use local CN reference  | Rob Nahf       | 2018-01-17 19:52 | d1_replication         |
| 4463 | Infrastructure | Story   | In Progress | Normal   | Incorporate Node Replication Policy into replication processing  | Rob Nahf       | 2018-01-17 20:03 | d1_replication         |
| 6375 | Infrastructure | Task    | In Progress | Normal   | Refactor out dependency on a working CN  | Rob Nahf       | 2016-06-22 16:53 | d1_replication         |
| 2585 | Infrastructure | Task    | In Progress | Normal   | Update Use Case 09   | Skye Roseboom  | 2014-09-11 15:47 | d1_replication         |
| 6378 | Infrastructure | Task    | Testing     | Normal   | code up the new strategy   | Rob Nahf       | 2016-06-22 16:53 | d1_replication         |
| 8108 | Infrastructure | Support | New         | Normal   | Must determine the state of replication auditing for when replicas on non-functioning MNs are still reported as complete     | Dave Vieglaiss | 2017-06-06 17:56 | d1_replication_auditor |
| 8778 | CN REST        | Task    | New         | Normal   | Ensure SystemMetadata replica auditing updates are saved and broadcast   | Chris Jones    | 2019-03-12 16:54 | d1_replication_auditor |
| 8756 | CN REST        | Story   | New         | Normal   | Ensure replica auditor is effective  | Chris Jones    | 2019-01-15 21:00 | d1_replication_auditor |
| 8776 | CN REST        | Task    | New         | Normal   | Set valid replica status to completed  | Chris Jones    | 2019-03-12 15:57 | d1_replication_auditor |
| 8777 | CN REST        | Task    | New         | Normal   | Configure CN to audit objects greater than 1GB   | Chris Jones    | 2019-03-13 20:50 | d1_replication_auditor |
| 8757 | CN REST        | Story   | New         | Normal   | Fix getChecksum() in MNAuditTask to use dynamic checksum algorithms  | Chris Jones    | 2019-01-14 19:48 | d1_replication_auditor |
| 8582 | CN REST        | Story   | New         | Normal   | Replica Auditing service is throwing errors  | Jing Tao       | 2019-01-14 16:40 | d1_replication_auditor |
| 4188 | Infrastructure | Story   | In Progress | Normal   | dataone Exception definition and implementation requires clarification   | Dave Vieglaiss | 2018-01-17 20:05 | d1_schemas             |
| 4189 | Infrastructure | Task    | In Progress | Normal   | Update dataoneErrors.xsd to match the documentation  | Dave Vieglaiss | 2017-01-14 00:24 | d1_schemas             |
| 2827 | Infrastructure | Task    | In Progress | Normal   | nesting groups requires schema change*   | Dave Vieglaiss | 2015-06-25 22:00 | d1_schemas             |
| 2488 | Infrastructure | Story   | New         | Normal   | Changing the authoritativeMembernode will require all replica's systemMetadata be updated                                    | Dave Vieglaiss | 2018-01-17 20:39 | d1_synchronization     |
| 6070 | Infrastructure | Bug     | New         | Normal   | CNs missing GOA objects  | Robert Waltz   | 2016-08-10 20:56 | d1_synchronization     |

| #    | Project        | Tracker | Status      | Priority | Subject   | Assignee       | Updated          | Category           |
|------|----------------|---------|-------------|----------|---|----------------|------------------|--------------------|
| 8036 | Infrastructure | Story   | New         | Normal   | synchronization should respond to various MN down conditions to avoid syncFailures                                      | Rob Nahf       | 2018-01-17 18:55 | d1_synchronization |
| 8851 | Infrastructure | Story   | New         | Normal   | CN sends error doc with "pid" to v2 endpoint  | Jing Tao       | 2019-11-06 22:31 | d1_synchronization |
| 8783 | Infrastructure | Bug     | New         | Normal   | synchronization re-created 26k map entries in SyncQueueFacade.nodeIdRoundRobin  | Rob Nahf       | 2019-04-02 20:10 | d1_synchronization |
| 8514 | Infrastructure | Task    | New         | Normal   | deploy new Metacat / synchronization slows down because of increased cn.create times                                    | Rob Nahf       | 2018-03-22 17:07 | d1_synchronization |
| 8097 | Infrastructure | Story   | New         | Normal   | Metacat (storage) and d1-synchronize both have the code to compute the checksum   | Jing Tao       | 2018-01-09 19:10 | d1_synchronization |
| 7889 | Infrastructure | Story   | New         | Normal   | Synchronization not happening when authoritativeMN is not set correctly.  | Rob Nahf       | 2018-01-17 19:01 | d1_synchronization |
| 4098 | Infrastructure | Task    | New         | Normal   | Synchronization should allow valid replicas held by MNs to set obsoletedBy and archive flags                            | Dave Vieglaiss | 2014-07-31 22:23 | d1_synchronization |
| 8737 | Infrastructure | Story   | New         | Normal   | Submitters and rights-holders with group permissions can't be granted authorization when the sync process validates sid | Jing Tao       | 2018-11-28 17:12 | d1_synchronization |
| 6011 | Infrastructure | Bug     | New         | Normal   | Synchronization fails from max_syncobjectqueue_size   | Robert Waltz   | 2016-01-05 17:52 | d1_synchronization |
| 8827 | Infrastructure | Bug     | New         | Normal   | synchronization doesn't update dateSystemMetadataModified if that's the only field that changed                         | Rob Nahf       | 2019-07-11 21:26 | d1_synchronization |
| 7954 | Infrastructure | Bug     | New         | Normal   | SyncFailedTask:submitSynchronizationFailed does not provide cert when connecting to MN                                  | Roger Dahl     | 2017-04-19 18:55 | d1_synchronization |
| 8864 | CN REST        | Story   | New         | Normal   | Synchronization does not register authoritative replica entry correctly   | Jing Tao       | 2020-06-19 21:59 | d1_synchronization |
| 7687 | CN REST        | Bug     | New         | Normal   | Synchronization unable to change BaseURLs upon updateNodeCapabilities notification                                      | Rob Nahf       | 2016-07-22 19:22 | d1_synchronization |
| 7911 | CN REST        | Task    | New         | Normal   | Synchronization allows invalid checksums, preventing corrected sync   |                | 2016-10-17 15:58 | d1_synchronization |
| 7161 | CN REST        | Bug     | New         | Normal   | TERN object fails to be indexed by Solr, but successfully synchronized  |                | 2015-06-05 18:04 | d1_synchronization |
| 7716 | Infrastructure | Story   | In Progress | Normal   | How to facilitate resubmission of sync Failures?  | Dave Vieglaiss | 2018-01-17 19:22 | d1_synchronization |
| 8525 | Infrastructure | Story   | In Progress | High     | timeout exceptions thrown from Hazelcast disable synchronization  | Rob Nahf       | 2018-11-16 17:32 | d1_synchronization |
| 8573 | Infrastructure | Bug     | In Progress | Normal   | changing accessPolicies and rightHolders down the line of series can cause improper sync failures                       | Rob Nahf       | 2018-05-03 21:52 | d1_synchronization |
| 8038 | Infrastructure | Story   | In Progress | Normal   | connect logging output to a log analysis tool   | Dave Vieglaiss | 2018-01-17 18:52 | d1_synchronization |
| 7958 | Infrastructure | Task    | In Progress | Normal   | CN sometimes sends invalid submitSynchronizationFailed document to MN   | Rob Nahf       | 2017-01-04 17:23 | d1_synchronization |
| 8106 | Infrastructure | Bug     | Testing     | Normal   | Difficulty Distinguishing Between Different Kinds of Failed Sync "Not Found" Error Messages                             | Rob Nahf       | 2018-02-20 16:57 | d1_synchronization |

| #    | Project        | Tracker | Status      | Priority | Subject  | Assignee        | Updated          | Category                |
|------|----------------|---------|-------------|----------|--|-----------------|------------------|-------------------------|
| 8053 | Infrastructure | Feature | New         | Normal   | add funding award number to index  | Peter Slaughter | 2019-03-04 19:36 | dataone-cn-index        |
| 8167 | Infrastructure | Story   | New         | Normal   | Enable postgres replication between Coordinating Nodes                                     | Monica Ihli     | 2018-01-09 19:10 | dataone-cn-os-core      |
| 7699 | Infrastructure | Bug     | New         | Normal   | alter scripts that backup postgresql db  |                 | 2017-05-09 17:33 | dataone-cn-os-core      |
| 8804 | Infrastructure | Task    | New         | Normal   | Add ldap backup config to cn os-core   | Dave Vieglais   | 2019-05-21 12:32 | dataone-cn-os-core      |
| 8115 | Infrastructure | Bug     | New         | Normal   | LDAP logging is set to DEBUG on production CNs   | Rob Nahf        | 2017-12-26 18:29 | dataone-cn-os-core      |
| 8091 | Infrastructure | Task    | In Progress | Normal   | Mysterious sync failure of an eml object from the GOA node                                 | Jing Tao        | 2017-05-09 21:33 | dataone-cn-os-core      |
| 8051 | Infrastructure | Bug     | In Progress | Normal   | CORS-based CN calls fail using Internet Explorer on Windows                                | Chris Jones     | 2017-03-28 16:35 | dataone-cn-os-core      |
| 8857 | Infrastructure | Story   | New         | Normal   | D1Client.getCN() always get the production cn on the CN Tomcat context                     | Jing Tao        | 2019-12-13 00:34 | dataone-cn-rest-service |
| 8076 | Infrastructure | Bug     | New         | High     | sysmeta can not be retrieved for some objects  | Dave Vieglais   | 2017-04-22 01:54 | dataone-cn-rest-service |
| 3468 | Infrastructure | Task    | New         | Normal   | Explore how CN.listObject can effectively use auto-incremented key                         | Ben Leinfelder  | 2013-01-08 18:35 | Documentation           |
| 3438 | Infrastructure | Task    | New         | Normal   | Evaluate utility of schema.org   |                 | 2012-12-21 16:15 | Documentation           |
| 1983 | Infrastructure | Task    | New         | Normal   | UC04 describes MNCORE.ping() with discovery capability                                     | Dave Vieglais   | 2014-10-02 17:21 | Documentation           |
| 1961 | Infrastructure | Task    | New         | Normal   | Types.ErrorMessage - does not exist  | Dave Vieglais   | 2014-10-02 17:21 | Documentation           |
| 3720 | Infrastructure | Story   | New         | Normal   | resource maps should be validated  | Dave Vieglais   | 2018-01-17 20:17 | Documentation           |
| 3314 | Infrastructure | Task    | New         | Normal   | CNRead.getQueryEngineDescription() - REST URL  | Dave Vieglais   | 2014-10-02 17:21 | Documentation           |
| 6167 | Infrastructure | Task    | New         | Normal   | Docs for CNRead.search() say "SOLR" in capital but actual API expects "solr" in lower case | Dave Vieglais   | 2014-10-02 17:21 | Documentation           |
| 6069 | Infrastructure | Story   | New         | Normal   | open ask.dataone.org sign-in to community  | Dave Vieglais   | 2014-10-01 20:39 | Documentation           |
| 3315 | Infrastructure | Task    | New         | Normal   | CNRead.query() - POST in addition to GET   | Dave Vieglais   | 2014-10-02 17:21 | Documentation           |
| 1986 | Infrastructure | Task    | New         | Normal   | Update UC04 to use correct CN method for determining if a PID exists                       | Dave Vieglais   | 2014-10-02 17:21 | Documentation           |
| 3063 | Infrastructure | Task    | New         | Normal   | Change Mutability of Metadata documentation  | Dave Vieglais   | 2014-09-24 18:27 | Documentation           |
| 1502 | Infrastructure | Task    | New         | Normal   | Fix hierarchy of permission levels.  | Matthew Jones   | 2014-10-01 20:47 | Documentation           |
| 4190 | Infrastructure | Task    | New         | Normal   | Update architecture docs to import dataoneErrors.xsd                                       | Dave Vieglais   | 2014-09-24 18:28 | Documentation           |
| 2826 | Infrastructure | Task    | New         | Normal   | MNStorage.archive() - Permissions  | Dave Vieglais   | 2014-10-02 17:21 | Documentation           |
| 2810 | Infrastructure | Task    | New         | Normal   | setReplicationStatus() example rwt state transition is incorrect                           | Dave Vieglais   | 2014-10-02 17:21 | Documentation           |
| 4102 | Infrastructure | Task    | New         | Normal   | Add expiration policy for CNCore.reserveldentifier()                                       | Dave Vieglais   | 2014-10-02 17:21 | Documentation           |
| 2809 | Infrastructure | Task    | New         | Normal   | MNStorage.update() - Make behavior explicit  | Dave Vieglais   | 2014-10-02 17:21 | Documentation           |
| 2794 | Infrastructure | Task    | New         | Normal   | Exceptions: Remove unsupported exception serializations and add "header serialization"     | Dave Vieglais   | 2014-10-02 17:21 | Documentation           |
| 2793 | Infrastructure | Task    | New         | Normal   | MNRead.describe() - Document special requirement of returning D1 exceptions in header      | Dave Vieglais   | 2014-10-02 17:21 | Documentation           |

| #    | Project        | Tracker | Status | Priority | Subject   | Assignee      | Updated          | Category      |
|------|----------------|---------|--------|----------|---|---------------|------------------|---------------|
| 2688 | Infrastructure | Task    | New    | Normal   | Develop guidelines for how Subject entries are handled - creation, normalization, comparison            | Dave Vieglais | 2014-09-24 18:27 | Documentation |
| 2660 | Infrastructure | Task    | New    | Normal   | Deciding on a key size for D1 certs   | Dave Vieglais | 2014-10-02 17:21 | Documentation |
| 2646 | Infrastructure | Task    | New    | Normal   | MNReplication.getReplica() - Add information about CNReplication.isNodeAuthorized()                     | Dave Vieglais | 2014-10-02 17:21 | Documentation |
| 7279 | Infrastructure | Task    | New    | Normal   | MN implementation documentation - need document management solution                                     | Dave Vieglais | 2015-07-28 22:24 | Documentation |
| 3901 | Infrastructure | Task    | New    | Normal   | Review Mozilla Persona as an alternative for identity management  | Dave Vieglais | 2013-08-09 11:57 | Documentation |
| 3881 | Infrastructure | Task    | New    | Normal   | 4.2.1.4 Definition of Verified User Lacking   | Dave Vieglais | 2014-09-24 18:27 | Documentation |
| 2508 | Infrastructure | Task    | New    | Normal   | MNStorage.delete(), MNStorage.update() - Action must be denied for replicas.                            | Dave Vieglais | 2014-10-02 17:21 | Documentation |
| 7176 | Infrastructure | Task    | New    | Normal   | Develop textual documentation for certificate management  | Dave Vieglais | 2015-06-10 01:33 | Documentation |
| 7177 | Infrastructure | Task    | New    | Normal   | Develop video documentation for certificate management  | Dave Vieglais | 2015-06-10 01:33 | Documentation |
| 2475 | Infrastructure | Task    | New    | Normal   | CNReplication.setReplicationStatus() - How to represent null  | Dave Vieglais | 2014-10-02 17:21 | Documentation |
| 2466 | Infrastructure | Task    | New    | Normal   | Authentication - Remove references to Principal   | Dave Vieglais | 2014-10-02 17:21 | Documentation |
| 3807 | Infrastructure | Task    | New    | Normal   | Add documentation for Types.QueryEngineDescription  | Dave Vieglais | 2014-10-02 17:21 | Documentation |
| 2465 | Infrastructure | Task    | New    | Normal   | Authentication - Remove TODO about selecting format for principal name                                  | Dave Vieglais | 2014-10-02 17:21 | Documentation |
| 2464 | Infrastructure | Task    | New    | Normal   | Authentication - no space after comma in subjects   | Dave Vieglais | 2014-10-02 17:21 | Documentation |
| 3728 | Infrastructure | Task    | New    | Normal   | Update and augment architecture use cases to describe processes for property changes on system metadata | Dave Vieglais | 2014-09-24 18:27 | Documentation |
| 6624 | Infrastructure | Task    | New    | Normal   | link Node Identity arch. spec. to OperationDocs Node Reg page   |               | 2014-11-21 20:29 | Documentation |
| 2394 | Infrastructure | Task    | New    | Normal   | CNRead.search() - solr / SOLR   | Dave Vieglais | 2014-10-02 17:21 | Documentation |
| 2342 | Infrastructure | Task    | New    | Normal   | CNCore.reserveldentifier() - Update REST description  | Dave Vieglais | 2014-10-02 17:21 | Documentation |
| 2286 | Infrastructure | Task    | New    | Low      | Change Exceptions.InvalidToken to Exceptions.InvalidSession   | Dave Vieglais | 2014-10-02 17:21 | Documentation |
| 2227 | Infrastructure | Task    | New    | Normal   | Specify valid mimetypes for responses   | Dave Vieglais | 2014-10-02 17:21 | Documentation |
| 2172 | Infrastructure | Task    | New    | Normal   | Types.DateTime: Example serialization without TZ designator   | Dave Vieglais | 2014-10-02 17:21 | Documentation |
| 3598 | Infrastructure | Task    | New    | Normal   | Node document subject description is a bit unclear  | Dave Vieglais | 2014-10-02 17:21 | Documentation |
| 2142 | Infrastructure | Task    | New    | Normal   | MNReplication.getReplica() - include PID in signature   | Dave Vieglais | 2014-10-02 17:21 | Documentation |
| 2123 | Infrastructure | Task    | New    | Normal   | Description of serialVersion  | Dave Vieglais | 2014-10-02 17:21 | Documentation |
| 2083 | Infrastructure | Task    | New    | Normal   | Split the CN API into public and private sections   | Dave Vieglais | 2014-10-02 17:21 | Documentation |
| 2054 | Infrastructure | Task    | New    | Normal   | CNReplication.setReplicationPolicy(), updateReplicationMetadata()                                       | Dave Vieglais | 2014-10-02 17:21 | Documentation |
| 2051 | Infrastructure | Task    | New    | Normal   | Use subject instead of NodeRef  |               | 2011-11-23 18:11 | Documentation |

| #    | Project        | Tracker  | Status      | Priority | Subject   | Assignee          | Updated          | Category                |
|------|----------------|----------|-------------|----------|---|-------------------|------------------|-------------------------|
| 725  | Infrastructure | Story    | In Progress | Normal   | Create Authentication and Access control design specifications  | Dave Vieglais     | 2018-01-17 20:52 | Documentation           |
| 3332 | Infrastructure | Task     | In Progress | Normal   | Revise use cases and add sample code  | Dave Vieglais     | 2014-09-24 18:27 | Documentation           |
| 1035 | Infrastructure | Task     | In Progress | Normal   | Develop reference architecture documents  | Bruce Wilson      | 2011-03-03 19:26 | Documentation           |
| 6071 | Infrastructure | Story    | In Progress | Normal   | Release Notes and documentation   | Dave Vieglais     | 2018-01-17 19:53 | Documentation           |
| 5141 | Infrastructure | Story    | In Progress | Normal   | Describe the mn.updateSystemMetadata behavior in use case document  | Dave Vieglais     | 2018-01-17 19:58 | Documentation           |
| 1467 | Infrastructure | Task     | In Progress | Normal   | Complete d1_schema changes for Authz and Authn.   | Matthew Jones     | 2014-10-01 20:47 | Documentation           |
| 2540 | Infrastructure | Feature  | In Progress | Normal   | add generateIdentifier() method to MNStorage API  | Dave Vieglais     | 2014-10-02 17:54 | Documentation           |
| 5531 | Infrastructure | Task     | Testing     | Normal   | Provide overview of replication process for MN implementors   | Matthew Jones     | 2014-10-02 17:21 | Documentation           |
| 6542 | Infrastructure | Bug      | New         | Normal   | Unable to add metadata document on mndemo8  |                   | 2014-10-30 16:30 | Environment.Development |
| 6067 | Infrastructure | Decision | New         | Normal   | Should we configure Dependency Analyzer Plugin in Jenkins?  | Robert Waltz      | 2014-08-22 03:58 | Environment.Development |
| 6062 | Infrastructure | Bug      | In Progress | Normal   | Jenkins not cascading builds in trunk   | Robert Waltz      | 2016-08-10 20:56 | Environment.Development |
| 2411 | Infrastructure | Bug      | In Progress | Normal   | knb MNs and CNs allow self-signed certificates to connect   | Chris Jones       | 2014-10-01 22:22 | Environment.Development |
| 7605 | Infrastructure | Story    | New         | Normal   | MemberNodes not authorizing CN to harvest log records   | Dave Vieglais     | 2018-01-17 19:33 | Environment.Production  |
| 7712 | Infrastructure | Story    | New         | Normal   | Sanparks fails during LogAggregation  | Laura Moyers      | 2016-04-06 16:43 | Environment.Production  |
| 5498 | Infrastructure | Task     | New         | Normal   | Determine the cause of the Jun2014 cn-orc-1 out of memory issue   | Michael Campfield | 2014-10-31 19:11 | Environment.Production  |
| 5136 | Infrastructure | Task     | New         | Normal   | Change DNS settings on all DataONE VMs  | Chris Jones       | 2014-05-08 03:16 | Environment.Production  |
| 7611 | Infrastructure | Story    | New         | Normal   | ORNLDAAC fails during log aggregation   | Laura Moyers      | 2016-01-26 16:39 | Environment.Production  |
| 7640 | Infrastructure | Story    | New         | Normal   | ONEShare failing with ServiceFailure  | Laura Moyers      | 2016-02-12 16:39 | Environment.Production  |
| 7641 | Infrastructure | Task     | New         | Normal   | contact ONEShare  | Laura Moyers      | 2016-02-12 16:40 | Environment.Production  |
| 7607 | Infrastructure | Task     | New         | Normal   | LTER_EUROPE refuses the production CN from harvesting log records   | Laura Moyers      | 2016-06-09 16:34 | Environment.Production  |
| 4200 | Infrastructure | Task     | New         | Normal   | Update replication.properties with metacat database password after upgrade before starting process daemon | Chris Jones       | 2013-12-11 20:34 | Environment.Production  |
| 3880 | Infrastructure | Task     | New         | Normal   | 4.2.1.3 CILogon Extension Not Documented  |                   | 2014-09-24 18:27 | Environment.Production  |
| 3879 | Infrastructure | Task     | New         | Normal   | 4.2.1.2 Missing Policies and Expectations   |                   | 2014-09-24 18:27 | Environment.Production  |
| 3625 | Infrastructure | Task     | New         | Normal   | Update existing SANParks doctype="metadata" objects to new ESRI/FGDC objectFormatId                       | Ben Leinfelder    | 2013-02-27 23:44 | Environment.Production  |
| 3612 | Infrastructure | Task     | New         | Normal   | CN SystemMetadata has incomplete obsoletedBy information  | Ben Leinfelder    | 2013-03-08 17:43 | Environment.Production  |
| 3512 | Infrastructure | Task     | New         | Normal   | Issue production client certificates for mn-{ucsb orc unm}-2.dataone.org replica target nodes             | Dave Vieglais     | 2013-01-23 16:34 | Environment.Production  |
| 7606 | Infrastructure | Task     | In Progress | Normal   | NRDC does not trust the CN certificate for log harvesting   | Laura Moyers      | 2016-04-06 16:14 | Environment.Production  |
| 4719 | Infrastructure | Task     | In Progress | Normal   | Replace CN client certificate   | Chris Jones       | 2014-09-24 18:14 | Environment.Production  |

| #    | Project        | Tracker | Status      | Priority | Subject   | Assignee          | Updated          | Category               |
|------|----------------|---------|-------------|----------|---|-------------------|------------------|------------------------|
| 7612 | Infrastructure | Task    | In Progress | Normal   | Contact ORNLDAAC  | Laura Moyers      | 2016-02-11 18:02 | Environment.Production |
| 4716 | Infrastructure | Task    | In Progress | Normal   | refresh client certificate for urn:node:DRYAD                                   | Chris Jones       | 2014-09-24 18:14 | Environment.Production |
| 4714 | Infrastructure | Task    | In Progress | Normal   | Refresh client certificate for MN urn:node:TFRI                                 | Chris Jones       | 2014-09-24 18:14 | Environment.Production |
| 3864 | Infrastructure | Task    | In Progress | Normal   | Release CCI 1.2.1 Features  | Chris Jones       | 2013-09-12 20:04 | Environment.Production |
| 3610 | Infrastructure | Task    | In Progress | Normal   | Include ESRI-specific FGDC metadata schema in object format list                | Chris Jones       | 2013-07-03 00:23 | Environment.Production |
| 6706 | Infrastructure | Task    | New         | Normal   | CN-SANDBOX initiated synchronization with mnTestLTER before node was "approved" | Robert Waltz      | 2015-10-09 17:38 | Environment.Sandbox    |
| 7666 | Infrastructure | Bug     | New         | Normal   | mnTestMPC repeating attempts to set replica status to FAILED                    | Laura Moyers      | 2016-02-25 21:44 | Environment.Stage1     |
| 4246 | Infrastructure | Task    | In Progress | Normal   | Determine why cn-stage-ucsb-1 LDAP syncrepl is failing                          | Michael Campfield | 2014-10-31 17:42 | Environment.Stage1     |
| 6761 | Infrastructure | Task    | New         | Normal   | unregister extraneous nodes in STAGE-2  |                   | 2015-01-14 00:49 | Environment.Stage2     |
| 6543 | Infrastructure | Story   | New         | Normal   | Support RIF-CS metadata standard  | Dave Vieglais     | 2018-01-17 19:46 | Format ID              |
| 6876 | Infrastructure | Task    | New         | Normal   | Support for ISO 19139 metadata standard   |                   | 2015-03-10 17:27 | Format ID              |
| 6877 | Infrastructure | Task    | New         | Normal   | Support for ISO 19115 metadata standard   |                   | 2015-03-10 18:08 | Format ID              |
| 6883 | Infrastructure | Story   | New         | Normal   | support for ESRI Shapefile object format  |                   | 2018-01-17 19:40 | Format ID              |
| 2031 | Infrastructure | Task    | New         | Normal   | Document the structure and interconnections of VM host hardware at UCSB         | Nick Outin        | 2014-09-24 18:29 | Hardware               |
| 6367 | Infrastructure | Task    | New         | Normal   | Update drive firmware on P2-1 UCSB SAN Array                                    | Nick Outin        | 2014-09-08 20:19 | Hardware               |
| 5988 | Infrastructure | Task    | New         | Normal   | Determine cause of ldap "server not responding" errors between prod CNs         | Jing Tao          | 2014-07-22 23:18 | Hardware               |
| 2030 | Infrastructure | Task    | New         | Normal   | Document the structure and interconnections of VM host hardware at UNM          | Dave Vieglais     | 2014-09-24 18:29 | Hardware               |
| 2033 | Infrastructure | Task    | New         | Normal   | Document hardware / CN administrators and their contact info                    | Dave Vieglais     | 2014-09-24 18:29 | Management             |
| 2029 | Infrastructure | Task    | New         | Normal   | Document VM specifications for replication MNs                                  | Dave Vieglais     | 2014-09-24 18:29 | Management             |
| 2028 | Infrastructure | Task    | New         | Normal   | Document VM specifications for CNs  | Dave Vieglais     | 2014-09-24 18:29 | Management             |
| 4192 | Infrastructure | Task    | In Progress | Normal   | Notify MN implementations of the discrepancy in exception definition            | Dave Vieglais     | 2014-09-24 18:28 | Management             |
| 3467 | Infrastructure | Task    | New         | Normal   | MN.listObject should use auto-incremented key                                   | Ben Leinfelder    | 2013-01-08 18:31 | Metacat                |
| 3465 | Infrastructure | Task    | New         | Normal   | Improve Metacat listObject slicing  | Ben Leinfelder    | 2013-01-08 18:54 | Metacat                |
| 7825 | Infrastructure | Bug     | New         | Normal   | Hazelcast service stops working after a while                                   | Jing Tao          | 2016-06-07 18:53 | Metacat                |
| 8734 | Infrastructure | Story   | New         | Normal   | Hazelcast shutdown tied to out of memory exception!                             | Rob Nahf          | 2018-10-18 16:55 | Metacat                |
| 3246 | Infrastructure | Bug     | New         | Low      | Metacat returns 500 instead of 404 in some cases                                | Ben Leinfelder    | 2014-10-02 18:03 | Metacat                |
| 3357 | Infrastructure | Task    | New         | Normal   | Address ISet iterator bug that only iterates over a subset of the ISet          | Ben Leinfelder    | 2012-12-12 16:54 | Metacat                |

| #    | Project        | Tracker | Status      | Priority  | Subject  | Assignee        | Updated          | Category     |
|------|----------------|---------|-------------|-----------|--|-----------------|------------------|--------------|
| 7919 | Infrastructure | Bug     | New         | High      | unloadable system metadata in CNs by Hazelcast   |                 | 2016-11-01 19:30 | Metacat      |
| 8379 | Infrastructure | Bug     | New         | Normal    | remove or improve AuthLdap.getGroups logging statement   | Jing Tao        | 2018-02-27 16:51 | Metacat      |
| 3175 | Infrastructure | Task    | New         | Normal    | Include dataoneTypes.xsd in Metacat registered schemas   | Chris Jones     | 2012-10-05 14:23 | Metacat      |
| 8380 | Infrastructure | Bug     | New         | Normal    | MN.update method doesn't check if the authoritativeMN is null on the system metadata of the new object | Jing Tao        | 2018-03-02 21:53 | Metacat      |
| 8224 | Infrastructure | Task    | New         | Normal    | metacat not promoting node token privs for solr  | Jing Tao        | 2017-12-04 19:33 | Metacat      |
| 8184 | Infrastructure | Feature | New         | Normal    | a feature indicates to restart tomcat when hazelcast client died                                       | Jing Tao        | 2017-09-14 19:14 | Metacat      |
| 7876 | Infrastructure | Feature | New         | Normal    | Create a new admin page for Metacat admins to register schemas   | Jing Tao        | 2016-12-21 09:11 | Metacat      |
| 8104 | Infrastructure | Task    | New         | Normal    | Upgrade postgresql jdbc jar file on Metacat  | Jing Tao        | 2017-06-02 20:58 | Metacat      |
| 3700 | Infrastructure | Bug     | New         | Normal    | MNodeService.replicate will not request new object if existing on MN                                   | Chris Jones     | 2015-01-06 19:43 | Metacat      |
| 3626 | Infrastructure | Task    | New         | Normal    | Metacat should use correct object format for ESRI profile metadata                                     | Ben Leinfelder  | 2013-02-27 23:56 | Metacat      |
| 3616 | Infrastructure | Task    | New         | Normal    | Enable ServiceMethodRestriction support in Metacat   | Chris Jones     | 2013-02-27 16:28 | Metacat      |
| 1225 | Infrastructure | Task    | New         | Normal    | Configure Hudson Metacat build   |                 | 2011-01-13 14:41 | Metacat      |
| 3488 | Infrastructure | Task    | New         | Normal    | Create custom merge policy to support managing data/information inconsistency                          | Chris Jones     | 2014-03-14 17:27 | Metacat      |
| 7466 | Infrastructure | Task    | In Progress | Normal    | Some objects not accessible on the CN via REST API   | Chris Jones     | 2015-11-05 16:11 | Metacat      |
| 3419 | Infrastructure | Task    | In Progress | Normal    | CNRead.describe() does not return Content-Length header  | Chris Jones     | 2013-02-21 18:41 | Metacat      |
| 4210 | Infrastructure | Task    | Testing     | Immediate | Metacat does not set serialVersion correctly in CNodeService archive() or delete()                     | Chris Jones     | 2013-12-20 16:12 | Metacat      |
| 7754 | Search UI      | Story   | In Progress | Normal    | Support for XSL transform of various metadata formats  | Bryce Mecum     | 2018-05-17 14:18 | MetacatUI    |
| 7498 | Search UI      | Task    | In Progress | Normal    | Search UI deployments need to be automated   | Chris Jones     | 2015-11-21 00:36 | MetacatUI    |
| 4051 | Infrastructure | Feature | New         | Normal    | MN Stack supporting Fedora Commons   |                 | 2014-10-02 21:39 | mn.Fedora    |
| 3067 | Infrastructure | Task    | New         | Normal    | Old DAAC PIDs to archive   | Dave Vieglais   | 2013-01-02 14:14 | mn.Mercury   |
| 2594 | Infrastructure | Task    | New         | Normal    | Prepare a Mercury MN overview for the workshop   | Giri Palanisamy | 2012-04-09 22:59 | mn.Mercury   |
| 3596 | Infrastructure | Task    | New         | Normal    | Fix Merritt Repository resource map typing of triple objects   | John Kunze      | 2013-02-19 02:27 | mn.Merritt   |
| 4053 | Infrastructure | Task    | In Progress | Normal    | Architect OPeNDAP MN   | Dave Vieglais   | 2013-10-06 20:11 | mn.OPeNDAP   |
| 4052 | Infrastructure | Story   | In Progress | Normal    | OPeNDAP MN Story   |                 | 2013-10-06 20:07 | mn.OPeNDAP   |
| 6478 | Infrastructure | Task    | New         | Normal    | move mncheck VM to a different VMhost  | Dave Vieglais   | 2014-10-01 20:34 | MNWebChecker |
| 6398 | Infrastructure | Task    | New         | Normal    | update MNWebTest operations docs   | Rob Nahf        | 2014-10-01 20:34 | MNWebChecker |
| 6399 | Infrastructure | Task    | New         | Normal    | set up release practice for the MNWebTester .war   | Rob Nahf        | 2014-10-01 20:34 | MNWebChecker |



| #    | Project        | Tracker     | Status      | Priority | Subject  | Assignee      | Updated          | Category     |
|------|----------------|-------------|-------------|----------|--|---------------|------------------|--------------|
| 3924 | Infrastructure | Task        | New         | Normal   | Pids in ObjectList should be the same as pids in the systemMetadata Map  | Rob Nahf      | 2014-10-01 22:04 | MNWebChecker |
| 3925 | Infrastructure | Task        | New         | Normal   | navigate through the ResourceMap confirm existence of identifiers on the MN  | Rob Nahf      | 2014-10-01 22:04 | MNWebChecker |
| 3577 | Infrastructure | Task        | New         | Normal   | Confusing message about "Ignored Tests present".   | Rob Nahf      | 2013-02-14 22:36 | MNWebChecker |
| 6397 | Infrastructure | Task        | New         | Normal   | test that it works from standalone .war  | Rob Nahf      | 2014-10-01 20:34 | MNWebChecker |
| 3591 | Infrastructure | Story       | In Progress | Normal   | Content consistency checks for new member nodes  | Rob Nahf      | 2018-01-17 20:23 | MNWebChecker |
| 6396 | Infrastructure | Task        | In Progress | Normal   | embed jetty server in d1_integration to run WebTests locally   | Rob Nahf      | 2014-10-01 20:34 | MNWebChecker |
| 6395 | Infrastructure | Story       | In Progress | Normal   | Member Node testers are stuck when the MNWebTester hangs / crashes   | Rob Nahf      | 2018-01-17 19:51 | MNWebChecker |
| 3082 | Infrastructure | Task        | New         | Normal   | Morpho should not rely on CN for any critical features   |               | 2013-03-02 05:26 | Morpho       |
| 3076 | Infrastructure | Task        | New         | Normal   | Allow user to specify Morpho storage directory   |               | 2013-03-02 05:29 | Morpho       |
| 390  | Requirements   | Requirement | New         | High     | (Requirement) Consistent mechanism for identifying users   | Dave Vieglais | 2010-09-06 20:50 | Requirement  |
| 391  | Requirements   | Requirement | New         | High     | (Requirement) Enable different classes of users commensurate with their roles.   | Dave Vieglais | 2010-09-06 20:51 | Requirement  |
| 820  | Requirements   | Requirement | New         | High     | (Requirement) Common API for authentication and authorization operations   | Dave Vieglais | 2010-09-06 21:23 | Requirement  |
| 795  | Requirements   | Requirement | New         | High     | (Requirement) System must support revocation of user permissions   | Dave Vieglais | 2010-08-29 20:45 | Requirement  |
| 777  | Requirements   | Requirement | New         | High     | (Requirement) Authorization rules should support common permission levels  | Dave Vieglais | 2010-09-06 20:49 | Requirement  |
| 772  | Requirements   | Requirement | New         | High     | (Requirement) Authentication services should be compatible with existing infrastructure and applications   | Dave Vieglais | 2010-08-11 07:54 | Requirement  |
| 771  | Requirements   | Requirement | New         | High     | (Requirement) User identities should have simple string serializations that express both the user identity and namespace from which it is drawn      | Dave Vieglais | 2010-09-06 03:12 | Requirement  |
| 770  | Requirements   | Requirement | New         | High     | (Requirement) Authorization system should be able to express the pseudo-principal concepts like 'public'   | Dave Vieglais | 2010-08-11 00:41 | Requirement  |
| 769  | Requirements   | Requirement | New         | High     | (Requirement) Authorization should support critical roles, such as curators and system administrators  | Dave Vieglais | 2010-09-06 03:02 | Requirement  |
| 768  | Requirements   | Requirement | New         | High     | (Requirement) Need default authz policies that resolve problems associated with inaccessible principals  | Dave Vieglais | 2010-08-11 00:34 | Requirement  |
| 767  | Requirements   | Requirement | New         | High     | (Requirement) Users need to be able to express embargo rules for data  | Dave Vieglais | 2010-08-11 00:16 | Requirement  |
| 766  | Requirements   | Requirement | New         | High     | (Requirement) Users should be able to easily assign proxy privileges to other users and to systems acting on their behalf for limited time durations | Dave Vieglais | 2010-08-11 00:11 | Requirement  |
| 765  | Requirements   | Requirement | New         | High     | (Requirement) Tools can access an API for authn and authz  | Dave Vieglais | 2010-09-06 20:30 | Requirement  |

| #    | Project        | Tracker     | Status | Priority | Subject  | Assignee      | Updated          | Category           |
|------|----------------|-------------|--------|----------|--|---------------|------------------|--------------------|
| 764  | Requirements   | Requirement | New    | High     | (Requirement) Authentication and access control should be consistently available   | Dave Vieglais | 2010-09-06 20:32 | Requirement        |
| 763  | Requirements   | Requirement | New    | High     | (Requirement) Authentication and authorization services are geographically replicated  | Dave Vieglais | 2010-09-06 20:52 | Requirement        |
| 393  | Requirements   | Requirement | New    | High     | (Requirement) Access control rule evaluation must be highly scalable and responsive.   | Dave Vieglais | 2010-09-06 20:27 | Requirement        |
| 762  | Requirements   | Requirement | New    | High     | (Requirement) User identities can be derived from existing institutional directory services                                      | Dave Vieglais | 2010-09-06 03:01 | Requirement        |
| 392  | Requirements   | Requirement | New    | High     | (Requirement) Identity and access control should be interoperable across datanets  | Dave Vieglais | 2010-09-06 20:31 | Requirement        |
| 761  | Requirements   | Requirement | New    | High     | (Requirement) Users can specify authorization rules for data objects, science metadata objects, and process artifacts separately | Dave Vieglais | 2010-09-06 03:06 | Requirement        |
| 6392 | Infrastructure | Decision    | New    | Normal   | CN getChecksum REST API design review  | Dave Vieglais | 2014-09-18 17:09 | Requirement        |
| 2018 | Infrastructure | Task        | New    | Normal   | document DataONE CA operations procedures  | Matthew Jones | 2012-04-23 17:53 | Support Operations |
| 6394 | Infrastructure | Task        | New    | Normal   | Resolve SSL certificate connection errors for UNM Epscor Tier 4 MN in development  | Chris Jones   | 2014-09-18 18:39 | Support Operations |
| 3333 | Infrastructure | Task        | New    | Low      | Generalize mk_* scripts for host name  | Dave Vieglais | 2012-10-11 18:50 | Support Operations |
| 2944 | Infrastructure | Story       | New    | Normal   | Design and implement a MN kill switch mechanism  | Dave Vieglais | 2018-01-17 20:30 | Support Operations |
| 3308 | Infrastructure | Task        | New    | Normal   | Document the process for removing content contributed from a specific member node and/or the entire member node                  | Dave Vieglais | 2014-03-14 18:29 | Support Operations |
| 1671 | Infrastructure | Task        | New    | Normal   | Need folder for DUG, accessible by DUG members   | Matthew Jones | 2011-07-12 12:09 | Support Operations |
| 6791 | Infrastructure | Bug         | New    | Normal   | Building d1_log_aggregation doesn't trigger downstream builds  |               | 2015-01-31 00:32 | Support Operations |
| 2685 | Infrastructure | Task        | New    | Normal   | Where's the WIFFM on the DataONE web site for the researcher user?   |               | 2012-05-01 15:31 | Support Operations |
| 7183 | Infrastructure | Story       | New    | Normal   | Update wild card server certificate on all test.dataone.org systems  | Dave Vieglais | 2015-06-15 15:10 | Support Operations |
| 7184 | Infrastructure | Task        | New    | Normal   | Create an Ansible script that can replace a server certificate   | Nick Outin    | 2015-06-15 15:10 | Support Operations |
| 3811 | Infrastructure | Task        | New    | Normal   | Document the "non-standard" certificates being used for accessing content in DataONE and it's member nodes                       | Rob Nahf      | 2014-09-24 18:27 | Support Operations |
| 3810 | Infrastructure | Task        | New    | Normal   | Identify and setup location for user oriented operational docs   | Dave Vieglais | 2014-09-24 18:27 | Support Operations |
| 2344 | Infrastructure | Task        | New    | Normal   | Add category for Ben's style sheets in Redmine   | Dave Vieglais | 2012-02-15 17:45 | Support Operations |
| 8367 | Infrastructure | Story       | New    | Normal   | Duplicate jenkins jobs from UNM to UCSB  | Dave Vieglais | 2019-01-22 19:25 | Support Operations |
| 8368 | Infrastructure | Story       | New    | Normal   | Update backup strategy for jenkins job configurations to subversion  | Dave Vieglais | 2019-01-22 19:25 | Support Operations |
| 3510 | Infrastructure | Task        | New    | Normal   | Issue certificates from D1TestIntCA for sandbox environment nodes, and revoke certificates signed by D1TestCA                    | Chris Jones   | 2014-09-24 18:25 | Support Operations |

| #    | Project               | Tracker | Status      | Priority | Subject   | Assignee       | Updated          | Category           |
|------|-----------------------|---------|-------------|----------|---|----------------|------------------|--------------------|
| 3511 | Infrastructure        | Task    | New         | Normal   | Issue certificates from D1TestIntCA for stage environment nodes, and revoke certificates signed by D1TestCA | Chris Jones    | 2014-09-24 18:25 | Support Operations |
| 8366 | Infrastructure        | Story   | New         | Normal   | Migrate jenkins continuous integration from UNM to UCSB   | Dave Vieglaiss | 2019-01-22 19:26 | Support Operations |
| 3509 | Infrastructure        | Task    | New         | Normal   | Issue certificates from D1TestIntCA for dev environment nodes, and revoke certificates signed by D1TestCA   | Chris Jones    | 2014-09-24 18:25 | Support Operations |
| 3905 | Infrastructure        | Task    | In Progress | Normal   | Sort out shell logins for splunk system   | Bruce Wilson   | 2013-08-23 13:27 | Support Operations |
| 3492 | Infrastructure        | Bug     | In Progress | Urgent   | Invalid PIDs in production (whitespace)   | Jing Tao       | 2017-04-27 15:31 | Support Operations |
| 8518 | Testing MN Management | Task    | New         | Normal   | meow: Mutual Acceptance   |                | 2018-03-22 20:45 |                    |
| 8517 | Testing MN Management | Task    | New         | Normal   | meow: Register in Production  |                | 2018-03-22 20:45 |                    |
| 8516 | Testing MN Management | Task    | New         | Normal   | meow: Implement in Production   |                | 2018-03-22 20:45 |                    |
| 8519 | Testing MN Management | Task    | New         | Normal   | meow: Formal Announcement   |                | 2018-03-22 20:45 |                    |
| 8340 | Testing MN Management | Story   | New         | Normal   | Discovery   |                | 2018-02-08 15:28 |                    |
| 8515 | Testing MN Management | Story   | New         | Normal   | meow: Move to Production  |                | 2018-03-22 20:45 |                    |
| 8344 | Testing MN Management | Task    | New         | Normal   | MN Communications   |                | 2018-02-22 19:47 |                    |
| 8341 | Testing MN Management | Task    | New         | Normal   | Initial Communications  |                | 2018-02-22 19:14 |                    |
| 8356 | Testing MN Management | Task    | New         | Normal   | Formal Announcement   |                | 2018-02-23 19:06 |                    |
| 8353 | Testing MN Management | Task    | New         | Normal   | Implement in Production   |                | 2018-02-08 15:29 |                    |
| 8352 | Testing MN Management | Story   | New         | Normal   | Move to Production  |                | 2018-02-08 15:28 |                    |
| 8355 | Testing MN Management | Task    | New         | Normal   | Mutual Acceptance   |                | 2018-02-08 15:28 |                    |
| 8354 | Testing MN Management | Task    | New         | Normal   | Register in Production  |                | 2018-02-08 15:28 |                    |
| 8351 | Testing MN Management | Task    | New         | Normal   | Display as Upcoming   |                | 2018-02-08 15:28 |                    |
| 8350 | Testing MN Management | Task    | New         | Normal   | Test Registration   |                | 2018-02-08 15:28 |                    |
| 8349 | Testing MN Management | Task    | New         | Normal   | Develop or Implement MN Software  |                | 2018-02-08 15:28 |                    |

| #    | Project               | Tracker      | Status | Priority | Subject  | Assignee    | Updated          | Category |
|------|-----------------------|--------------|--------|----------|--|-------------|------------------|----------|
| 8383 | Testing MN Management | Task         | New    | Normal   | Feasibility Assessment   |             | 2018-02-27 17:32 |          |
| 8463 | Testing MN Management | Story        | New    | Normal   | test: Testing & Development  |             | 2018-03-01 21:04 |          |
| 8381 | Testing MN Management | Story        | New    | Normal   | Discovery  |             | 2018-02-27 17:32 |          |
| 8464 | Testing MN Management | Task         | New    | Normal   | test: Metadata Validation  |             | 2018-03-01 21:04 |          |
| 8382 | Testing MN Management | Task         | New    | Normal   | Initial Communications   |             | 2018-02-27 17:32 |          |
| 8342 | Testing MN Management | Task         | New    | Normal   | Feasibility Assessment   |             | 2018-02-22 19:19 |          |
| 8348 | Testing MN Management | Task         | New    | Normal   | Metadata Validation  |             | 2018-02-08 15:28 |          |
| 8347 | Testing MN Management | Story        | New    | Normal   | Testing & Development  |             | 2018-02-08 15:28 |          |
| 8346 | Testing MN Management | Task         | New    | Normal   | Training & Education   |             | 2018-02-08 15:28 |          |
| 8466 | Testing MN Management | Task         | New    | Normal   | test: Test Registration  |             | 2018-03-01 21:04 |          |
| 8461 | Testing MN Management | MNDeployment | New    | Normal   | MEOOW - Monitoring Ecosystems & Oceans in Wales                                  |             | 2018-03-22 20:45 |          |
| 8467 | Testing MN Management | Task         | New    | Normal   | test: Display as Upcoming  |             | 2018-03-01 21:04 |          |
| 8343 | Testing MN Management | Story        | New    | Normal   | Planning   |             | 2018-02-08 15:28 |          |
| 8462 | Testing MN Management | MNDeployment | New    | Normal   | Test MN ticket   |             | 2018-03-01 20:57 |          |
| 8345 | Testing MN Management | Task         | New    | Normal   | Technical Requirements   |             | 2018-02-08 15:28 |          |
| 8294 | Testing MN Management | MNDeployment | New    | Normal   | Test Node 2  |             | 2018-02-08 15:28 |          |
| 8465 | Testing MN Management | Task         | New    | Normal   | test: Develop or Implement MN Software   |             | 2018-03-01 21:04 |          |
| 8576 | Search UI             | Task         | New    | Normal   | Remove Code Changes Specific to Appearance of Data Citation for PANGAEA formatID | Monica Ihli | 2018-04-30 13:29 |          |
| 8574 | Search UI             | Story        | New    | Normal   | PANGAEA Temporary Fix: SID only in Data Citation                                 | Bryce Mecum | 2018-05-01 01:45 |          |
| 8077 | Search UI             | Task         | New    | Normal   | Use ORE PID for citation if DOI  |             | 2017-04-24 16:32 |          |

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