

## Issues

| #    | Project | Tracker | Status      | Priority | Subject   | Assignee       | Updated          | Category               |
|------|---------|---------|-------------|----------|---|----------------|------------------|------------------------|
| 2168 | CN REST | Task    | New         | Normal   | Design UI for identity validation   | Ben Leinfelder | 2015-01-19 22:59 |                        |
| 1479 | CN REST | Task    | In Progress | Normal   | Design web UI for validating newly created identities   | Ben Leinfelder | 2015-01-19 22:59 |                        |
| 8777 | CN REST | Task    | New         | Normal   | Configure CN to audit objects greater than 1GB  | Chris Jones    | 2019-03-13 20:50 | d1_replication_auditor |
| 8756 | CN REST | Story   | New         | Normal   | Ensure replica auditor is effective   | Chris Jones    | 2019-01-15 21:00 | 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 |
| 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 |
| 8776 | CN REST | Task    | New         | Normal   | Set valid replica status to completed   | Chris Jones    | 2019-03-12 15:57 | d1_replication_auditor |
| 8749 | CN REST | Story   | New         | Normal   | Fix log aggregation events from the CN without associated CN IPs  | Dave Vieglais  | 2019-05-01 22:25 |                        |
| 8771 | CN REST | Story   | New         | Normal   | Issue with LDAP when updating `nodeReplicationPolicy`   | Dave Vieglais  | 2019-03-05 19:43 | d1_cn_rest             |
| 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             |
| 7096 | CN REST | Task    | New         | Normal   | Unexpectedly closed streams / disconnects on UNM network  | Dave Vieglais  | 2015-05-12 17:49 |                        |
| 8010 | CN REST | Bug     | New         | Normal   | CN.archive fails with 401 Unauthorized when using either MN or CN client certificate for PID with authoritative MN as urn:node:LTER | Jing Tao       | 2017-03-21 17:10 |                        |
| 8867 | CN REST | Bug     | New         | High     | CNCore.listChecksumAlgorithms() returns incorrect list  | Jing Tao       | 2020-08-06 00:06 | d1_cn_rest             |
| 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      |
| 8733 | CN REST | Bug     | New         | Normal   | Exception handling in ForesiteResourceMap needs improvement   | Jing Tao       | 2018-10-12 20:09 | d1_cn_index_processor  |
| 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             |
| 8582 | CN REST | Story   | New         | Normal   | Replica Auditing service is throwing errors   | Jing Tao       | 2019-01-14 16:40 | d1_replication_auditor |
| 8864 | CN REST | Story   | New         | Normal   | Synchronization does not register authoritative replica entry correctly   | Jing Tao       | 2020-06-19 21:59 | d1_synchronization     |
| 7849 | CN REST | Task    | New         | Normal   | Improve exception messages when cascading SSL derived exceptions  | Rob Nahf       | 2016-07-19 17:23 |                        |
| 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     |
| 7687 | CN REST | Bug     | New         | Normal   | Synchronization unable to change BaseURLs upon updateNodeCapabilities notification  | Rob Nahf       | 2016-07-22 19:22 | d1_synchronization     |
| 2487 | CN REST | Task    | New         | Normal   | How does a CN handle the failure of MN replica to receive MNStorage.sytemMetadadataChanged()  | Robert Waltz   | 2016-08-10 20:51 |                        |
| 2415 | CN REST | Task    | New         | Normal   | Implement exceptions for log endpoint   | Robert Waltz   | 2015-01-19 22:49 |                        |
| 5739 | CN REST | Bug     | New         | Normal   | LDAP upgrades fail with purge of dataone-cn-os-core   | Robert Waltz   | 2015-01-19 23:05 |                        |
| 1412 | CN REST | Task    | New         | Normal   | MN health check performed by CN   | Robert Waltz   | 2015-01-19 23:06 |                        |

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| 7489 | CN REST     | Bug     | New         | Normal   | processing daemon common-logging misconfigured   | Robert Waltz  | 2016-01-21 17:18 | d1_cn_process_daemon |
| 2414 | CN REST     | Task    | New         | Normal   | Implement exceptions for search/solr endpoint  | Skye Roseboom | 2015-01-19 22:49 |                      |
| 8809 | CN REST     | Task    | New         | Normal   | Adjust portal.properties for certificate configuration   |               | 2019-05-21 12:57 |                      |
| 7750 | CN REST     | Task    | New         | Normal   | apply business rules on the CN that Subject strings will be stripped of leading and trailing whitespace                        |               | 2016-04-26 17:30 |                      |
| 8698 | CN REST     | Bug     | New         | Normal   | CN Performance degradation   |               | 2018-09-13 21:05 | d1_cn_rest           |
| 8740 | CN REST     | Bug     | New         | Normal   | CN resolve service returning 404 for some pids   |               | 2019-01-22 18:41 | cn_metacat           |
| 7301 | CN REST     | Bug     | New         | Normal   | CN-stage allows connections to a MN that is operating a self-signed SSL server certificate                                     |               | 2015-08-19 03:46 |                      |
| 7571 | CN REST     | Task    | New         | Normal   | Description for error code 401, detail code 4957 is misleading in some cases   |               | 2016-01-05 16:25 |                      |
| 8364 | CN REST     | Story   | In Progress | Normal   | Ensure portal uses correct X509 certificates   |               | 2019-05-21 12:57 | d1_portal_servlet    |
| 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  |
| 7440 | CN REST     | Bug     | New         | Normal   | Non-discernable error during synchronization affecting (mostly) urn:node:mnTestAEKOS - "Client is shutdown."                   |               | 2015-10-20 14:46 |                      |
| 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   |
| 8860 | CN REST     | Bug     | New         | Normal   | /token endpoint doesn't set a content-type and character encoding  |               | 2020-02-29 01:00 | d1_portal            |
| 8810 | CN REST     | Task    | New         | Normal   | Verify configuration of portal certificates  |               | 2019-05-21 13:00 |                      |
| 3658 | DataONE API | Bug     | New         | Normal   | Deleting objects breaks obsoletes chain traversal  | Chris Jones   | 2015-01-19 22:29 |                      |
| 7127 | DataONE API | Task    | New         | Normal   | Finalize CNAAuthentication interface   | Dave Vieglais | 2015-05-21 19:31 | api_documentation    |
| 1442 | DataONE API | Task    | New         | Normal   | Identify monitoring and logging use cases and requirements   | Dave Vieglais | 2015-01-19 23:06 |                      |
| 1443 | DataONE API | Task    | New         | Normal   | Identify operational requirements for monitoring and logging   | Dave Vieglais | 2015-01-19 23:06 |                      |
| 7838 | DataONE API | Task    | New         | Normal   | Modify the obsolescence chain process to accommodate the use case where both old and new PIDs are present on the CN for v1 MNs | Dave Vieglais | 2016-06-29 02:20 |                      |
| 6759 | DataONE API | Story   | New         | Normal   | ObjectFormat Management  | Dave Vieglais | 2015-01-19 23:17 |                      |
| 7839 | DataONE API | Task    | New         | Normal   | Online documentation places synchronize in CNRead api  | Dave Vieglais | 2016-12-21 09:04 | api_documentation    |
| 8583 | DataONE API | Feature | New         | Normal   | Provide some mechanism for diagnosing correctness of MN certificates   | Dave Vieglais | 2018-05-02 03:18 |                      |
| 8529 | DataONE API | Task    | New         | Normal   | Add field to Solr index that includes the obsolescence chain   |               | 2018-04-10 05:21 |                      |
| 8528 | DataONE API | Task    | New         | Normal   | Add MNRead.getVersions, CNRead.getVersions   |               | 2018-04-03 19:26 |                      |
| 7684 | DataONE API | Bug     | New         | Low      | Call to MNStorage.update() via REST API returns java.lang.StackOverflowError   |               | 2016-03-21 23:07 |                      |
| 1644 | DataONE API | Story   | New         | Normal   | Develop an object format creation policy   |               | 2018-01-17 20:46 |                      |
| 7578 | DataONE API | Bug     | New         | Normal   | Fix 404 link to d1_instance_generator folder in documentation  |               | 2016-01-08 22:01 | api_documentation    |

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| 7528 | DataONE API    | Bug     | New         | Normal   | Incorrect argument name documented for CNCORE.reserveldentier   |                | 2015-12-08 19:51 | api_documentation    |
| 6945 | DataONE API    | Feature | New         | Normal   | MNRead.get uses the pid for the download filename, which provides a less than optimal user experience when the pid is an opaque identifier such as DOIs, uuids, etc.  |                | 2015-03-23 23:37 |                      |
| 7800 | DUG            | Task    | New         | Normal   | abstract reviews<br>( <a href="https://docs.google.com/document/d/1iZXCN4AWqYi5Z7wqMKb2o33QnQ_JAcV0KVO4TeahHVA/edit">https://docs.google.com/document/d/1iZXCN4AWqYi5Z7wqMKb2o33QnQ_JAcV0KVO4TeahHVA/edit</a> ) |                | 2016-05-10 15:18 |                      |
| 7525 | DUG            | Task    | New         | Normal   | assessment effort update  |                | 2015-12-07 22:25 |                      |
| 7926 | DUG            | Task    | New         | Normal   | Certification and standards for data repositories (e.g. ISO 17421:2012, Data Seal of Approval)  |                | 2016-11-08 22:00 |                      |
| 7533 | DUG            | Task    | New         | Normal   | Create DUG 2016 Meeting page  |                | 2015-12-08 21:44 |                      |
| 7925 | DUG            | Task    | New         | Normal   | Data Center certification   |                | 2016-11-08 21:33 |                      |
| 7862 | DUG            | Task    | New         | Normal   | DataONE DUG page may need updating<br>( <a href="https://www.dataone.org/dataone-users-group">https://www.dataone.org/dataone-users-group</a> )   |                | 2016-08-08 15:00 |                      |
| 7909 | DUG            | Task    | New         | Normal   | DataONE update audio/visual equipment for remote link   |                | 2016-10-11 20:49 |                      |
| 7864 | DUG            | Task    | New         | Normal   | DOI Services for Members  |                | 2016-08-09 20:40 |                      |
| 7907 | DUG            | Task    | New         | Normal   | Doodle poll on the time/date for monthly meeting  |                | 2016-10-11 20:35 |                      |
| 7476 | DUG            | Task    | New         | Normal   | Do we need an event management system to better organize the DUG?   |                | 2015-11-09 22:43 |                      |
| 7473 | DUG            | Task    | New         | Normal   | Draft 2016 DUG annual meeting brochure  |                | 2015-11-09 22:38 |                      |
| 7474 | DUG            | Task    | New         | Normal   | Draft generic letter of invitation that DUG SC can carry and distribute widely.   |                | 2015-11-09 22:38 |                      |
| 7484 | DUG            | Task    | New         | Normal   | DUG Agenda  |                | 2015-11-10 21:39 |                      |
| 7524 | DUG            | Task    | New         | Normal   | Explore crowd sourcing for future DUG marketing effort  |                | 2015-12-07 22:25 |                      |
| 7863 | DUG            | Task    | New         | Normal   | Link to the recordings  |                | 2016-08-09 20:40 |                      |
| 7531 | DUG            | Task    | New         | Normal   | Quote request for EAB meeting   |                | 2015-12-08 20:13 |                      |
| 7532 | DUG            | Task    | New         | Normal   | Registration Form for 2016.   |                | 2015-12-08 21:30 |                      |
| 7908 | DUG            | Task    | New         | Normal   | Start a lesson learned document   |                | 2016-10-11 20:35 |                      |
| 7475 | DUG            | Task    | New         | Normal   | Work with Erin/ESIP to distribute the brochure widely to students/faculty from UNC  |                | 2015-11-09 22:38 |                      |
| 3768 | Infrastructure | Task    | New         | Normal   | Add canonical DataONE description paper to citing DataONE web-page  | Amber Budden   | 2013-05-16 22:20 | Community Engagement |
| 3115 | Infrastructure | Task    | New         | Normal   | Get R client into working state.  | Andrew Pippin  | 2012-08-02 17:32 |                      |
| 3114 | Infrastructure | Task    | In Progress | Normal   | Release D1_CLIENT_CLI and prepare for version 2   | Andrew Pippin  | 2012-08-02 17:27 |                      |
| 2642 | Infrastructure | Task    | In Progress | Normal   | Try installing GMN according to the setup instructions  | Andrew Pippin  | 2012-07-06 16:25 | d1_mn_GMN            |
| 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              |
| 2492 | Infrastructure | Task    | New         | Normal   | Add status page for given {pid}   | Ben Leinfelder | 2012-03-15 02:02 | d1_monitor           |

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| 3466 | Infrastructure | Task     | New         | Normal   | Add synthetic key to systemMetadata table  | Ben Leinfelder | 2013-01-08 18:30 |                        |
| 3612 | Infrastructure | Task     | New         | Normal   | CN SystemMetadata has incomplete obsoletedBy information   | Ben Leinfelder | 2013-03-08 17:43 | Environment.Production |
| 2343 | Infrastructure | Task     | New         | Normal   | Convert style sheets to separate product   | Ben Leinfelder | 2012-02-15 17:43 |                        |
| 3046 | Infrastructure | Task     | In Progress | Normal   | Create utility to update ORE maps with invalid date formats  | Ben Leinfelder | 2012-08-14 23:41 |                        |
| 3468 | Infrastructure | Task     | New         | Normal   | Explore how CN.listObject can effectively use auto-incremented key   | Ben Leinfelder | 2013-01-08 18:35 | Documentation          |
| 3465 | Infrastructure | Task     | New         | Normal   | Improve Metacat listObject slicing   | Ben Leinfelder | 2013-01-08 18:54 | Metacat                |
| 3047 | Infrastructure | Bug      | In Progress | Normal   | Metacat allows whitespace in Identifiers   | Ben Leinfelder | 2018-11-13 21:44 |                        |
| 3246 | Infrastructure | Bug      | New         | Low      | Metacat returns 500 instead of 404 in some cases   | Ben Leinfelder | 2014-10-02 18:03 | Metacat                |
| 3626 | Infrastructure | Task     | New         | Normal   | Metacat should use correct object format for ESRI profile metadata   | Ben Leinfelder | 2013-02-27 23:56 | Metacat                |
| 3467 | Infrastructure | Task     | New         | Normal   | MN.listObject should use auto-incremented key  | Ben Leinfelder | 2013-01-08 18:31 | Metacat                |
| 8069 | Infrastructure | Bug      | New         | Normal   | Name from ORCID incorrectly parsed   | Ben Leinfelder | 2017-04-12 20:28 | d1_portal_servlet      |
| 3635 | Infrastructure | Task     | New         | Normal   | Phase two Morpho implementation  | Ben Leinfelder | 2013-03-25 22:49 |                        |
| 3109 | Infrastructure | Task     | In Progress | Normal   | PISCO/LTER revision history with SBC documents   | Ben Leinfelder | 2012-07-31 01:34 |                        |
| 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 |
| 1035 | Infrastructure | Task     | In Progress | Normal   | Develop reference architecture documents   | Bruce Wilson   | 2011-03-03 19:26 | Documentation          |
| 3905 | Infrastructure | Task     | In Progress | Normal   | Sort out shell logins for splunk system  | Bruce Wilson   | 2013-08-23 13:27 | Support Operations     |
| 8754 | Infrastructure | Task     | New         | Normal   | Add EML 2.2 to CN formats list   | Bryce Mecum    | 2018-12-19 00:54 |                        |
| 8753 | Infrastructure | Task     | New         | Normal   | Add support for EML 2.2 (indexing, view)   | Bryce Mecum    | 2018-12-19 00:54 |                        |
| 8755 | Infrastructure | Task     | New         | Normal   | Expand EML indexing support for EML 2.2  | Bryce Mecum    | 2019-08-15 01:50 |                        |
| 8775 | Infrastructure | Task     | In Progress | Normal   | Make taxonomic rank fields in Solr index non-case-sensitive  | Bryce Mecum    | 2019-03-11 23:35 |                        |
| 8189 | Infrastructure | Decision | New         | Normal   | Proposal to change the roles mapped to the origin Solr field for ISO docs  | Bryce Mecum    | 2017-12-20 01:28 |                        |
| 8858 | Infrastructure | Task     | New         | Normal   | Update CN Apache configs in version control with directives to support sitemaps  | Bryce Mecum    | 2020-02-24 19:26 |                        |
| 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            |
| 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           |
| 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         |
| 5136 | Infrastructure | Task     | New         | Normal   | Change DNS settings on all DataONE VMs   | Chris Jones    | 2014-05-08 03:16 | Environment.Production |

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| 6168 | Infrastructure | Task    | New         | Normal    | CNAuthorization.setRightsHolder() returns 500 ServiceFailure  | Chris Jones | 2014-08-29 16:01 | 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           |
| 3419 | Infrastructure | Task    | In Progress | Normal    | CNRead.describe() does not return Content-Length header   | Chris Jones | 2013-02-21 18:41 | Metacat                 |
| 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           |
| 5145 | Infrastructure | Feature | New         | Normal    | Consider including cert subject(s) in NotAuthorized exceptions  | Chris Jones | 2014-09-25 17:44 | d1_cn_service           |
| 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      |
| 3488 | Infrastructure | Task    | New         | Normal    | Create custom merge policy to support managing data/information inconsistency                                 | Chris Jones | 2014-03-14 17:27 | Metacat                 |
| 3328 | Infrastructure | Task    | New         | Normal    | Enable a data preview from the search results page  | Chris Jones | 2012-10-23 19:34 | d1_mercury              |
| 3616 | Infrastructure | Task    | New         | Normal    | Enable ServiceMethodRestriction support in Metacat  | Chris Jones | 2013-02-27 16:28 | Metacat                 |
| 5137 | Infrastructure | Task    | New         | Normal    | Fix DataONE CA chain file location in cn-buildout   | Chris Jones | 2014-04-25 15:06 | d1_cn_buildout          |
| 3175 | Infrastructure | Task    | New         | Normal    | Include dataoneTypes.xsd in Metacat registered schemas  | Chris Jones | 2012-10-05 14:23 | Metacat                 |
| 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  |
| 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      |
| 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      |
| 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      |
| 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 |
| 4136 | Infrastructure | Task    | In Progress | Normal    | Make cosmetic changes to the distribution map   | Chris Jones | 2014-03-31 17:41 | d1_dashboard            |
| 4210 | Infrastructure | Task    | Testing     | Immediate | Metacat does not set serialVersion correctly in CNodeService archive() or delete()                            | Chris Jones | 2013-12-20 16:12 | 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                 |
| 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            |
| 2896 | Infrastructure | Task    | New         | Normal    | Modify the admin DN in createObjectformat script per environment  | Chris Jones | 2012-10-05 14:23 | d1_cn_buildout          |
| 4211 | Infrastructure | Bug     | New         | Normal    | Potential race condition between archive and replication  | Chris Jones | 2014-09-25 17:19 | d1_cn_service           |
| 4714 | Infrastructure | Task    | In Progress | Normal    | Refresh client certificate for MN urn:node:TFRI   | Chris Jones | 2014-09-24 18:14 | Environment.Production  |
| 4715 | Infrastructure | Task    | In Progress | Normal    | Refresh client certificate for urn:node:CLOAKN  | Chris Jones | 2014-09-24 18:14 |                         |
| 4716 | Infrastructure | Task    | In Progress | Normal    | refresh client certificate for urn:node:DRYAD   | Chris Jones | 2014-09-24 18:14 | Environment.Production  |

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| 3864 | Infrastructure | Task    | In Progress | Normal   | Release CCI 1.2.1 Features  | Chris Jones   | 2013-09-12 20:04 | Environment.Production |
| 4719 | Infrastructure | Task    | In Progress | Normal   | Replace CN client certificate   | Chris Jones   | 2014-09-24 18:14 | Environment.Production |
| 8640 | Infrastructure | Bug     | New         | Normal   | Replication includes "down" nodes as replication targets  | Chris Jones   | 2018-07-04 11:29 | d1_replication         |
| 8639 | Infrastructure | Story   | New         | Normal   | Replication performance is too slow to service demand   | Chris Jones   | 2018-07-04 11:18 | d1_replication         |
| 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     |
| 7466 | Infrastructure | Task    | In Progress | Normal   | Some objects not accessible on the CN via REST API  | Chris Jones   | 2015-11-05 16:11 | Metacat                |
| 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 |
| 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             |
| 3878 | Infrastructure | Task    | New         | Normal   | 4.2.1.1 Missing and Out-of-Date Documentation   | Dave Vieglais | 2014-09-24 18:27 |                        |
| 3881 | Infrastructure | Task    | New         | Normal   | 4.2.1.4 Definition of Verified User Lacking   | Dave Vieglais | 2014-09-24 18:27 | Documentation          |
| 8236 | Infrastructure | Task    | New         | Normal   | Acquire ORCID API key under KU membership   | Dave Vieglais | 2018-01-09 02:21 |                        |
| 2344 | Infrastructure | Task    | New         | Normal   | Add category for Ben's style sheets in Redmine  | Dave Vieglais | 2012-02-15 17:45 | Support Operations     |
| 3807 | Infrastructure | Task    | New         | Normal   | Add documentation for Types.QueryEngineDescription  | 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          |
| 7859 | Infrastructure | Story   | New         | Normal   | Add formatID for the STL 3d model file format   | Dave Vieglais | 2018-01-17 19:04 |                        |
| 2540 | Infrastructure | Feature | In Progress | Normal   | add generateIdentifier() method to MNStorage API  | Dave Vieglais | 2014-10-02 17:54 | Documentation          |
| 8804 | Infrastructure | Task    | New         | Normal   | Add ldap backup config to cn os-core  | Dave Vieglais | 2019-05-21 12:32 | dataone-cn-os-core     |
| 8747 | Infrastructure | Task    | New         | Normal   | Adjust package configuration to persist changes between updates   | Dave Vieglais | 2018-11-16 17:32 |                        |
| 4053 | Infrastructure | Task    | In Progress | Normal   | Architect OPeNDAP MN  | Dave Vieglais | 2013-10-06 20:11 | mn.OPeNDAP             |
| 6754 | Infrastructure | Task    | New         | Normal   | Architecture API loose ends   | Dave Vieglais | 2015-01-13 18:54 | Architecture Design    |
| 8235 | Infrastructure | Task    | New         | Normal   | Arrange with KU library to make use of ORCID membership to support DataONE authentication                 | Dave Vieglais | 2018-01-09 02:01 |                        |
| 2464 | Infrastructure | Task    | New         | Normal   | Authentication - no space after comma in subjects   | 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          |
| 2465 | Infrastructure | Task    | New         | Normal   | Authentication - Remove TODO about selecting format for principal name                                    | 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          |
| 3063 | Infrastructure | Task    | New         | Normal   | Change Mutability of Metadata documentation   | Dave Vieglais | 2014-09-24 18:27 | Documentation          |

| #    | Project        | Tracker  | Status      | Priority | Subject  | Assignee      | Updated          | Category                      |
|------|----------------|----------|-------------|----------|--|---------------|------------------|-------------------------------|
| 2488 | Infrastructure | Story    | New         | Normal   | Changing the authoritativeMembernode will require all replica's systemMetadata be updated    | Dave Vieglais | 2018-01-17 20:39 | d1_synchronization            |
| 4722 | Infrastructure | Task     | New         | Normal   | Clarify permissions for CN   | Dave Vieglais | 2014-10-02 17:21 |                               |
| 7601 | Infrastructure | Bug      | New         | High     | CN checksum inconsistencies  | Dave Vieglais | 2016-01-26 19:29 |                               |
| 2342 | Infrastructure | Task     | New         | Normal   | CNCore.reserveldentifier() - Update REST description   | Dave Vieglais | 2014-10-02 17:21 | Documentation                 |
| 6392 | Infrastructure | Decision | New         | Normal   | CN getChecksum REST API design review  | Dave Vieglais | 2014-09-18 17:09 | Requirement                   |
| 3314 | Infrastructure | Task     | New         | Normal   | CNRead.getQueryEngineDescription() - REST URL  | Dave Vieglais | 2014-10-02 17:21 | Documentation                 |
| 3315 | Infrastructure | Task     | New         | Normal   | CNRead.query() - POST in addition to GET   | Dave Vieglais | 2014-10-02 17:21 | Documentation                 |
| 2394 | Infrastructure | Task     | New         | Normal   | CNRead.search() - solr / SOLR  | Dave Vieglais | 2014-10-02 17:21 | Documentation                 |
| 2131 | Infrastructure | Task     | New         | Normal   | CNRegister.updateNodeCapabilities() - nodeid -> nodeld                                       | Dave Vieglais | 2014-10-02 17:21 |                               |
| 2054 | Infrastructure | Task     | New         | Normal   | CNReplication.setReplicationPolicy(), updateReplicationMetadata()                            | Dave Vieglais | 2014-10-02 17:21 | Documentation                 |
| 2475 | Infrastructure | Task     | New         | Normal   | CNReplication.setReplicationStatus() - How to represent null                                 | Dave Vieglais | 2014-10-02 17:21 | Documentation                 |
| 3974 | Infrastructure | Task     | New         | Normal   | Complete agenda for meeting  | Dave Vieglais | 2013-09-11 20:59 |                               |
| 1227 | Infrastructure | Task     | New         | Normal   | configure Hudson to build Mercury for deployment to a CN                                     | Dave Vieglais | 2011-01-13 15:16 | d1_mercury                    |
| 8237 | Infrastructure | Task     | New         | Normal   | Configure production environment to use new API key under KU ORCID membership                | Dave Vieglais | 2018-01-09 02:21 | Authentication, Authorization |
| 8038 | Infrastructure | Story    | In Progress | Normal   | connect logging output to a log analysis tool  | Dave Vieglais | 2018-01-17 18:52 | d1_synchronization            |
| 7358 | Infrastructure | Story    | In Progress | Normal   | ContactSubject on NodeList must be valid D1 ldap entry                                       | Dave Vieglais | 2016-12-21 09:05 | Authentication, Authorization |
| 6513 | Infrastructure | Story    | New         | Normal   | Create a Local Cache of all Membernode log records on the single master CN                   | Dave Vieglais | 2018-01-17 19:49 | d1_log_aggregation            |
| 725  | Infrastructure | Story    | In Progress | Normal   | Create Authentication and Access control design specifications                               | Dave Vieglais | 2018-01-17 20:52 | Documentation                 |
| 4704 | Infrastructure | Task     | New         | Normal   | Create a view of MN holdings from a CN perspective   | Dave Vieglais | 2014-04-09 15:33 |                               |
| 8161 | Infrastructure | Bug      | New         | Normal   | d1-processing Out of Memory Error  | Dave Vieglais | 2018-02-20 16:19 | d1_process_daemon             |
| 4188 | Infrastructure | Story    | In Progress | Normal   | dataone Exception definition and implementation requires clarification                       | Dave Vieglais | 2018-01-17 20:05 | d1_schemas                    |
| 2660 | Infrastructure | Task     | New         | Normal   | Deciding on a key size for D1 certs  | Dave Vieglais | 2014-10-02 17:21 | Documentation                 |
| 5141 | Infrastructure | Story    | In Progress | Normal   | Describe the mn.updateSystemMetadata behavior in use case document                           | Dave Vieglais | 2018-01-17 19:58 | Documentation                 |
| 2123 | Infrastructure | Task     | New         | Normal   | Description of serialVersion   | Dave Vieglais | 2014-10-02 17:21 | Documentation                 |
| 2944 | Infrastructure | Story    | New         | Normal   | Design and implement a MN kill switch mechanism  | Dave Vieglais | 2018-01-17 20:30 | Support Operations            |
| 2169 | Infrastructure | Task     | In Progress | Normal   | Design content and layout for status page  | Dave Vieglais | 2012-03-14 20:40 | d1_monitor                    |
| 2688 | Infrastructure | Task     | New         | Normal   | Develop guidelines for how Subject entries are handled - creation, normalization, comparison | Dave Vieglais | 2014-09-24 18:27 | Documentation                 |

| #    | Project        | Tracker | Status      | Priority | Subject   | Assignee      | Updated          | Category                      |
|------|----------------|---------|-------------|----------|---|---------------|------------------|-------------------------------|
| 7559 | Infrastructure | Story   | New         | Normal   | Develop plan for securing application passwords in the CN stack   | Dave Vieglais | 2018-01-17 19:34 | Architecture Design           |
| 8780 | Infrastructure | Feature | New         | Normal   | Develop support for DataCite 4.0 and 4.1 and 4.2  | Dave Vieglais | 2019-03-30 20:38 | d1_indexer                    |
| 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                 |
| 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                 |
| 8238 | Infrastructure | Task    | New         | Normal   | Document contacts and procedure for using KU ORCID membership API key   | Dave Vieglais | 2018-01-09 02:22 | Authentication, Authorization |
| 2033 | Infrastructure | Task    | New         | Normal   | Document hardware / CN administrators and their contact info  | Dave Vieglais | 2014-09-24 18:29 | Management                    |
| 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            |
| 2030 | Infrastructure | Task    | New         | Normal   | Document the structure and interconnections of VM host hardware at UNM  | Dave Vieglais | 2014-09-24 18:29 | Hardware                      |
| 2028 | Infrastructure | Task    | New         | Normal   | Document VM specifications for CNs  | 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                    |
| 8109 | Infrastructure | Story   | New         | Normal   | Does authentication token need to include group information?  | Dave Vieglais | 2018-01-17 18:45 | Authentication, Authorization |
| 8367 | Infrastructure | Story   | New         | Normal   | Duplicate jenkins jobs from UNM to UCSB   | Dave Vieglais | 2019-01-22 19:25 | Support Operations            |
| 2794 | Infrastructure | Task    | New         | Normal   | Exceptions: Remove unsupported exception serializations and add "header serialization"                          | Dave Vieglais | 2014-10-02 17:21 | Documentation                 |
| 3333 | Infrastructure | Task    | New         | Low      | Generalize mk_* scripts for host name   | Dave Vieglais | 2012-10-11 18:50 | Support Operations            |
| 7716 | Infrastructure | Story   | In Progress | Normal   | How to facilitate resubmission of sync Failures?  | Dave Vieglais | 2018-01-17 19:22 | d1_synchronization            |
| 3810 | Infrastructure | Task    | New         | Normal   | Identify and setup location for user oriented operational docs  | Dave Vieglais | 2014-09-24 18:27 | Support Operations            |
| 7767 | Infrastructure | Task    | New         | Normal   | In DataONE search results, move map display to map extent   | Dave Vieglais | 2016-05-04 18:31 |                               |
| 8824 | Infrastructure | Task    | In Progress | High     | Install Apache 2.4.39 and disable TLSv1.3 on CNs  | Dave Vieglais | 2019-06-19 12:11 |                               |
| 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        |
| 3108 | Infrastructure | Task    | New         | Normal   | lastHarvested date is always equal to the current time.   | Dave Vieglais | 2012-07-30 22:11 |                               |
| 8602 | Infrastructure | Story   | New         | Normal   | Log aggregation and augmentation process mid 2018 updates   | Dave Vieglais | 2018-06-07 20:49 | d1_log_aggregation            |
| 8603 | Infrastructure | Bug     | New         | Normal   | log aggregation incorrectly assigning location information  | Dave Vieglais | 2018-06-07 20:52 | d1_log_aggregation            |
| 7688 | Infrastructure | Bug     | New         | Normal   | LogAggregation unable to change BaseURLs upon updateNodeCapabilities notification                               | Dave Vieglais | 2018-01-02 12:02 | d1_log_aggregation            |
| 7605 | Infrastructure | Story   | New         | Normal   | MemberNodes not authorizing CN to harvest log records   | Dave Vieglais | 2018-01-17 19:33 | Environment.Production        |
| 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                |



| #    | Project        | Tracker  | Status      | Priority | Subject  | Assignee      | Updated          | Category               |
|------|----------------|----------|-------------|----------|--|---------------|------------------|------------------------|
| 8366 | Infrastructure | Story    | New         | Normal   | Migrate jenkins continuous integration from UNM to UCSB  | Dave Vieglais | 2019-01-22 19:26 | Support Operations     |
| 7279 | Infrastructure | Task     | New         | Normal   | MN implementation documentation - need document management solution  | Dave Vieglais | 2015-07-28 22:24 | 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          |
| 4723 | Infrastructure | Task     | New         | Normal   | MN recognition of CN   | Dave Vieglais | 2014-10-02 17:21 |                        |
| 2646 | Infrastructure | Task     | New         | Normal   | MNReplication.getReplica() - Add information about CNReplication.isNodeAuthorized()                                      | 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          |
| 2826 | Infrastructure | Task     | New         | Normal   | MNStorage.archive() - Permissions  | Dave Vieglais | 2014-10-02 17:21 | Documentation          |
| 2508 | Infrastructure | Task     | New         | Normal   | MNStorage.delete(), MNStorage.update() - Action must be denied for replicas.   | 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          |
| 6478 | Infrastructure | Task     | New         | Normal   | move mncheck VM to a different VMhost  | Dave Vieglais | 2014-10-01 20:34 | MNWebChecker           |
| 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 Vieglais | 2017-06-06 17:56 | d1_replication_auditor |
| 2827 | Infrastructure | Task     | In Progress | Normal   | nesting groups requires schema change*   | Dave Vieglais | 2015-06-25 22:00 | d1_schemas             |
| 3598 | Infrastructure | Task     | New         | Normal   | Node document subject description is a bit unclear   | Dave Vieglais | 2014-10-02 17:21 | Documentation          |
| 4192 | Infrastructure | Task     | In Progress | Normal   | Notify MN implementations of the discrepancy in exception definition   | Dave Vieglais | 2014-09-24 18:28 | Management             |
| 7407 | Infrastructure | Story    | In Progress | Normal   | object formats in the d1_common_java bootstrap list are inconsistent with production                                     | Dave Vieglais | 2016-03-15 16:49 | d1_indexer             |
| 3067 | Infrastructure | Task     | New         | Normal   | Old DAAC PIDs to archive   | Dave Vieglais | 2013-01-02 14:14 | mn.Mercury             |
| 3099 | Infrastructure | Decision | New         | Normal   | ONE-Mercury display of data set citation   | Dave Vieglais | 2012-07-23 21:24 | d1_mercury             |
| 6069 | Infrastructure | Story    | New         | Normal   | open ask.dataone.org sign-in to community  | Dave Vieglais | 2014-10-01 20:39 | Documentation          |
| 7850 | Infrastructure | Task     | New         | Normal   | Passing SID to MNRead.systemMetadataChanged()  | Dave Vieglais | 2016-07-20 20:00 |                        |
| 2593 | Infrastructure | Task     | New         | Normal   | Prepare science data and metadata content for the workshop   | Dave Vieglais | 2012-04-09 22:52 |                        |
| 8823 | Infrastructure | Story    | New         | High     | Recent Apache and OpenSSL combinations break connectivity on Ubuntu 18.04  | Dave Vieglais | 2019-06-19 02:43 |                        |
| 8222 | Infrastructure | Task     | New         | Normal   | reindex all isotc211 content in production to reflect final decisions from origin field mapping                          | Dave Vieglais | 2018-03-22 16:56 | d1_indexer             |
| 6071 | Infrastructure | Story    | In Progress | Normal   | Release Notes and documentation  | Dave Vieglais | 2018-01-17 19:53 | Documentation          |
| 6056 | Infrastructure | Story    | New         | Normal   | remove log aggregation processing from d1-processing Linux service   | Dave Vieglais | 2018-01-17 19:55 | d1_log_aggregation     |
| 8642 | Infrastructure | Bug      | New         | Normal   | Replication tasks apparently not deleted from backing store in a timely fashion  | Dave Vieglais | 2018-07-05 12:11 | d1_replication         |
| 3720 | Infrastructure | Story    | New         | Normal   | resource maps should be validated  | Dave Vieglais | 2018-01-17 20:17 | Documentation          |
| 3901 | Infrastructure | Task     | New         | Normal   | Review Mozilla Persona as an alternative for identity management   | Dave Vieglais | 2013-08-09 11:57 | Documentation          |

| #    | Project        | Tracker | Status      | Priority | Subject   | Assignee      | Updated          | Category                      |
|------|----------------|---------|-------------|----------|---|---------------|------------------|-------------------------------|
| 3891 | Infrastructure | Task    | New         | Normal   | review vulnerability to BREACH attacks  | Dave Vieglais | 2013-08-07 15:01 | Authentication, Authorization |
| 3332 | Infrastructure | Task    | In Progress | Normal   | Revise use cases and add sample code  | Dave Vieglais | 2014-09-24 18:27 | Documentation                 |
| 2810 | Infrastructure | Task    | New         | Normal   | setReplicationStatus() example rwt state transition is incorrect  | Dave Vieglais | 2014-10-02 17:21 | Documentation                 |
| 1762 | Infrastructure | Task    | New         | Normal   | Sketch CN components and associations   | Dave Vieglais | 2014-10-02 17:40 |                               |
| 2227 | Infrastructure | Task    | New         | Normal   | Specify valid mimetypes for responses   | 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                 |
| 6543 | Infrastructure | Story   | New         | Normal   | Support RIF-CS metadata standard  | Dave Vieglais | 2018-01-17 19:46 | Format ID                     |
| 4098 | Infrastructure | Task    | New         | Normal   | Synchronization should allow valid replicas held by MNs to set obsoletedBy and archive flags            | Dave Vieglais | 2014-07-31 22:23 | d1_synchronization            |
| 8076 | Infrastructure | Bug     | New         | High     | sysmeta can not be retrieved for some objects   | Dave Vieglais | 2017-04-22 01:54 | dataone-cn-rest-service       |
| 7967 | Infrastructure | Bug     | In Progress | Normal   | The CN is not following the xml schema definition when creating dataone exceptions                      | Dave Vieglais | 2018-05-23 18:13 | Architecture Design           |
| 8195 | Infrastructure | Bug     | In Progress | High     | Tomcat out of memory error  | Dave Vieglais | 2017-12-26 20:01 |                               |
| 7882 | Infrastructure | Story   | In Progress | Normal   | Tune CN logfile management  | Dave Vieglais | 2018-01-17 19:03 |                               |
| 2172 | Infrastructure | Task    | New         | Normal   | Types.DateTime: Example serialization without TZ designator   | 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                 |
| 1983 | Infrastructure | Task    | New         | Normal   | UC04 describes MNCORE.ping() with discovery capability  | 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                 |
| 4190 | Infrastructure | Task    | New         | Normal   | Update architecture docs to import dataoneErrors.xsd  | Dave Vieglais | 2014-09-24 18:28 | Documentation                 |
| 8368 | Infrastructure | Story   | New         | Normal   | Update backup strategy for jenkins job configurations to subversion                                     | Dave Vieglais | 2019-01-22 19:25 | Support Operations            |
| 4189 | Infrastructure | Task    | In Progress | Normal   | Update dataoneErrors.xsd to match the documentation   | Dave Vieglais | 2017-01-14 00:24 | d1_schemas                    |
| 8604 | Infrastructure | Task    | New         | Normal   | Update the static IP lists for robots etc   | Dave Vieglais | 2018-06-07 20:56 | d1_log_aggregation            |
| 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                 |
| 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            |
| 3380 | Infrastructure | Task    | New         | Normal   | Upgrade d1_client_hzpeek to Hazelcast 2.x   | Dave Vieglais | 2012-12-12 16:50 |                               |
| 8234 | Infrastructure | Story   | New         | Normal   | Use University of Kansas ORCID membership to support authentication in production environment           | Dave Vieglais | 2018-01-09 19:10 | Authentication, Authorization |
| 8066 | Infrastructure | Task    | New         | Normal   | Verify completeness of unit test MetacatRdfXmlSubprocessorTest  | Dave Vieglais | 2017-04-11 23:47 | d1_indexer                    |
| 2791 | Infrastructure | Task    | New         | Normal   | verify on dev machines  | Dave Vieglais | 2012-05-21 17:41 | d1_cn_buildout                |
| 8369 | Infrastructure | Task    | New         | Normal   | Verify operation and transfer DNS   | Dave Vieglais | 2018-02-15 17:40 |                               |

| #    | Project        | Tracker | Status      | Priority | Subject  | Assignee        | Updated          | Category                |
|------|----------------|---------|-------------|----------|--|-----------------|------------------|-------------------------|
| 2594 | Infrastructure | Task    | New         | Normal   | Prepare a Mercury MN overview for the workshop   | Giri Palanisamy | 2012-04-09 22:59 | mn.Mercury              |
| 7922 | Infrastructure | Task    | New         | Normal   | DataONE Accessibility  | Isis Serna      | 2016-10-31 23:05 |                         |
| 8173 | Infrastructure | Story   | New         | High     | add checks for retrograde systemMetadata changes   | Jing Tao        | 2018-01-17 18:38 | d1_indexer              |
| 8184 | Infrastructure | Feature | New         | Normal   | a feature indicates to restart tomcat when hazelcast client died   | Jing Tao        | 2017-09-14 19:14 | Metacat                 |
| 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           |
| 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       |
| 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     |
| 8851 | Infrastructure | Story   | New         | Normal   | CN sends error doc with "pid" to v2 endpoint   | Jing Tao        | 2019-11-06 22:31 | d1_synchronization      |
| 8151 | Infrastructure | Task    | New         | Normal   | CNs should verify that the authoritativeMN listed in SystemMetadata is a valid MN                          | Jing Tao        | 2017-07-19 21:32 |                         |
| 8817 | Infrastructure | Task    | New         | Normal   | Configure sitemaps on the CN   | Jing Tao        | 2020-03-12 18:30 |                         |
| 8070 | Infrastructure | Task    | New         | Normal   | Consolidate the index application-context files  | Jing Tao        | 2017-04-13 12:51 |                         |
| 7876 | Infrastructure | Feature | New         | Normal   | Create a new admin page for Metacat admins to register schemas   | Jing Tao        | 2016-12-21 09:11 | Metacat                 |
| 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 |
| 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              |
| 7933 | Infrastructure | Bug     | New         | Normal   | d1-index-task-processor stops processing task queue  | Jing Tao        | 2017-01-11 23:47 | d1_indexer              |
| 8862 | Infrastructure | Story   | New         | Normal   | Deploy a new dataone-cn-rest release   | Jing Tao        | 2020-04-23 16:24 |                         |
| 5988 | Infrastructure | Task    | New         | Normal   | Determine cause of ldap "server not responding" errors between prod CNs                                    | Jing Tao        | 2014-07-22 23:18 | Hardware                |
| 7668 | Infrastructure | Story   | New         | Normal   | Determine how indexing of data packages should work  | Jing Tao        | 2018-01-17 19:28 | d1_indexer              |
| 8196 | Infrastructure | Bug     | New         | Normal   | Duplicated replicas in the system metadata   | Jing Tao        | 2017-10-18 17:19 | d1_replication          |
| 8849 | Infrastructure | Story   | New         | Normal   | During sync, the CN does not detect error returned from getChecksum()                                      | Jing Tao        | 2019-11-06 22:07 |                         |
| 4278 | Infrastructure | Story   | New         | Normal   | EML indexing - handle multiple temporalCoverage and spatialCoverage elements                               | Jing Tao        | 2018-01-17 20:04 | d1_indexer              |
| 8150 | Infrastructure | Task    | New         | Normal   | Enable CN certificate to alter authoritativeMN property in SystemMetadata                                  | Jing Tao        | 2017-07-19 21:27 |                         |
| 7949 | Infrastructure | Task    | New         | Normal   | Ensure that there's no race condition where an entry can be added to "IN PROCESS" if it is already present | Jing Tao        | 2017-02-27 17:55 |                         |
| 8869 | Infrastructure | Story   | New         | Normal   | Equivalent identities show owning different amount of packages.  | Jing Tao        | 2020-09-24 22:34 | d1_indexer              |
| 8500 | Infrastructure | Bug     | New         | High     | Geohash not calculated properly  | Jing Tao        | 2018-03-14 17:06 | d1_indexer              |
| 7825 | Infrastructure | Bug     | New         | Normal   | Hazelcast service stops working after a while  | Jing Tao        | 2016-06-07 18:53 | Metacat                 |
| 8758 | Infrastructure | Story   | New         | Normal   | Index replicationStatus field  | Jing Tao        | 2019-01-14 18:00 | 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              |
| 8571 | Infrastructure | Bug     | In Progress | Normal   | IndexTool can't index a data object  | Jing Tao        | 2018-04-23 20:13 | d1_indexer              |

| #    | Project        | Tracker | Status      | Priority | Subject   | Assignee | Updated          | Category           |
|------|----------------|---------|-------------|----------|---|----------|------------------|--------------------|
| 3492 | Infrastructure | Bug     | In Progress | Urgent   | Invalid PIDs in production (whitespace)   | Jing Tao | 2017-04-27 15:31 | Support Operations |
| 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     |
| 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         |
| 8811 | Infrastructure | Task    | New         | Normal   | Merge 2.3.9 changes to trunk  | Jing Tao | 2019-05-21 13:06 |                    |
| 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         |
| 8224 | Infrastructure | Task    | New         | Normal   | metacat not promoting node token privs for solr   | Jing Tao | 2017-12-04 19:33 | Metacat            |
| 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 |
| 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            |
| 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 |
| 8821 | Infrastructure | Bug     | New         | Normal   | Object doi:10.18739/A2610VR7Z fails to index on CN  | Jing Tao | 2019-06-19 00:06 |                    |
| 8722 | Infrastructure | Bug     | New         | High     | Object in search index but systemmetadata is not available.   | Jing Tao | 2018-10-03 17:48 |                    |
| 8026 | Infrastructure | Task    | Testing     | High     | Portal reaches the maximum capacity in a pool   | Jing Tao | 2017-03-14 00:36 | d1_portal_servlet  |
| 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  |
| 8105 | Infrastructure | Task    | New         | Normal   | Remove dataone-mercury from production CNs  | Jing Tao | 2018-03-02 22:17 | d1_mercury         |
| 8379 | Infrastructure | Bug     | New         | Normal   | remove or improve AuthLdap.getGroups logging statement  | Jing Tao | 2018-02-27 16:51 | Metacat            |
| 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         |
| 7570 | Infrastructure | Bug     | In Progress | Normal   | Search UI requests cause Out of Memory Error  | Jing Tao | 2017-04-26 21:01 | 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         |
| 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 |
| 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         |
| 8782 | Infrastructure | Story   | New         | Normal   | Upgrade OS to Ubuntu 18.04 on CNs   | Jing Tao | 2019-03-22 18:12 |                    |
| 8104 | Infrastructure | Task    | New         | Normal   | Upgrade postgresql jdbc jar file on Metacat   | Jing Tao | 2017-06-02 20:58 | Metacat            |
| 8102 | Infrastructure | Task    | New         | Normal   | Upgrade postgresql jdbc jar file on Portal  | Jing Tao | 2017-06-02 20:53 | d1_portal          |
| 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      |
| 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         |
| 8850 | Infrastructure | Bug     | New         | Normal   | v2.3.11 RdfXmlSubprocessor / HttpService.getDocumentBySeriesId can be wrong   | Jing Tao | 2019-11-06 18:32 | d1_indexer         |
| 8796 | Infrastructure | Story   | New         | Normal   | Various issues with service access after upgrade to 18.04   | Jing Tao | 2019-05-21 12:38 |                    |

| #    | Project        | Tracker | Status      | Priority | Subject  | Assignee      | Updated          | Category                      |
|------|----------------|---------|-------------|----------|--|---------------|------------------|-------------------------------|
| 3596 | Infrastructure | Task    | New         | Normal   | Fix Merritt Repository resource map typing of triple objects           | John Kunze    | 2013-02-19 02:27 | mn.Merritt                    |
| 7641 | Infrastructure | Task    | New         | Normal   | contact ONEShare   | Laura Moyers  | 2016-02-12 16:40 | Environment.Production        |
| 7612 | Infrastructure | Task    | In Progress | Normal   | Contact ORNLDAAC   | Laura Moyers  | 2016-02-11 18:02 | 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        |
| 7666 | Infrastructure | Bug     | New         | Normal   | mnTestMPC repeating attempts to set replica status to FAILED           | Laura Moyers  | 2016-02-25 21:44 | Environment.Stage1            |
| 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        |
| 7640 | Infrastructure | Story   | New         | Normal   | ONEShare failing with ServiceFailure                                   | Laura Moyers  | 2016-02-12 16:39 | Environment.Production        |
| 7611 | Infrastructure | Story   | New         | Normal   | ORNLDAAC fails during log aggregation                                  | Laura Moyers  | 2016-01-26 16:39 | Environment.Production        |
| 7712 | Infrastructure | Story   | New         | Normal   | Sanparks fails during LogAggregation                                   | Laura Moyers  | 2016-04-06 16:43 | Environment.Production        |
| 1159 | Infrastructure | Task    | In Progress | Normal   | Add description of Group creation and management to design specs.      | Matthew Jones | 2014-10-01 20:47 |                               |
| 1527 | Infrastructure | Task    | New         | Normal   | Allow AccessPolicy to be set for groups                                | Matthew Jones | 2014-10-01 20:47 |                               |
| 4038 | Infrastructure | Feature | New         | Normal   | change default replication implementation                              | Matthew Jones | 2014-10-01 21:26 | d1_replication                |
| 1481 | Infrastructure | Task    | New         | Normal   | Clarify spec that groups can own objects                               | Matthew Jones | 2014-10-01 20:47 |                               |
| 1485 | Infrastructure | Task    | New         | Normal   | Clean up authn requirements listing                                    | Matthew Jones | 2014-10-01 20:47 |                               |
| 1467 | Infrastructure | Task    | In Progress | Normal   | Complete d1_schema changes for Authz and Authn.                        | Matthew Jones | 2014-10-01 20:47 | Documentation                 |
| 1890 | Infrastructure | Task    | New         | Normal   | Comply with Maven Central requirements for publishing artifacts        | Matthew Jones | 2011-10-27 21:39 |                               |
| 2664 | Infrastructure | Task    | New         | Normal   | Create documentation for how transitivity is enacted for authorization | Matthew Jones | 2014-10-01 20:47 | Authentication, Authorization |
| 1494 | Infrastructure | Task    | New         | Normal   | Create sequence diagrams for Authentication services.                  | Matthew Jones | 2014-10-01 20:47 |                               |
| 1484 | Infrastructure | Task    | New         | Normal   | Decide on format for Principals  | Matthew Jones | 2014-10-01 20:47 |                               |
| 1471 | Infrastructure | Task    | New         | Normal   | Define implicit curator role at Member Nodes.                          | Matthew Jones | 2014-10-01 20:47 |                               |
| 1073 | Infrastructure | Task    | New         | Normal   | Design client application authentication redirection approach          | Matthew Jones | 2014-10-01 20:47 | d1_identity_manager           |
| 1482 | Infrastructure | Task    | New         | Normal   | Design mechanism to collapse two accounts into one                     | Matthew Jones | 2014-10-01 20:47 |                               |
| 1474 | Infrastructure | Task    | New         | Normal   | Design verification process for new accounts                           | Matthew Jones | 2014-10-01 20:47 |                               |

| #    | Project        | Tracker | Status      | Priority | Subject  | Assignee          | Updated          | Category                      |
|------|----------------|---------|-------------|----------|--|-------------------|------------------|-------------------------------|
| 2018 | Infrastructure | Task    | New         | Normal   | document DataONE CA operations procedures  | Matthew Jones     | 2012-04-23 17:53 | Support Operations            |
| 2549 | Infrastructure | Task    | New         | Normal   | document the decision  | Matthew Jones     | 2012-03-27 22:03 | Authentication, Authorization |
| 1472 | Infrastructure | Task    | New         | Normal   | Explain revocation policies via MN curator.  | Matthew Jones     | 2014-10-01 20:47 |                               |
| 1502 | Infrastructure | Task    | New         | Normal   | Fix hierarchy of permission levels.  | Matthew Jones     | 2014-10-01 20:47 | Documentation                 |
| 1061 | Infrastructure | Task    | In Progress | Normal   | Identify approach to IdentityMapping   | Matthew Jones     | 2014-10-01 20:47 |                               |
| 1473 | Infrastructure | Task    | New         | Normal   | Make default access policy explicit in Authz docs.   | Matthew Jones     | 2014-10-01 20:47 |                               |
| 1671 | Infrastructure | Task    | New         | Normal   | Need folder for DUG, accessible by DUG members   | Matthew Jones     | 2011-07-12 12:09 | Support Operations            |
| 2281 | Infrastructure | Task    | New         | Low      | Possibly update the Identity Management and Authenticated Session Management doc   | Matthew Jones     | 2014-10-01 20:47 | Authentication, Authorization |
| 5531 | Infrastructure | Task    | Testing     | Normal   | Provide overview of replication process for MN implementors  | Matthew Jones     | 2014-10-02 17:21 | Documentation                 |
| 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                   |
| 1047 | Infrastructure | Task    | In Progress | Normal   | Write Authentication system specification  | Matthew Jones     | 2014-10-01 20:47 |                               |
| 1048 | Infrastructure | Task    | In Progress | Normal   | Write authorization system specification   | Matthew Jones     | 2014-10-01 20:47 |                               |
| 6483 | Infrastructure | Task    | New         | Normal   | DataONE xsede VM at ORC  | Michael Campfield | 2014-10-24 10:54 |                               |
| 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        |
| 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            |
| 8171 | Infrastructure | Task    | New         | Normal   | Document hazelcast components to be moved to postgres storage  | Monica Ihli       | 2017-09-01 15:25 |                               |
| 8169 | Infrastructure | Task    | New         | Normal   | Document process for changing the postgres master  | Monica Ihli       | 2017-09-01 15:09 |                               |
| 8167 | Infrastructure | Story   | New         | Normal   | Enable postgres replication between Coordinating Nodes   | Monica Ihli       | 2018-01-09 19:10 | dataone-cn-os-core            |
| 8168 | Infrastructure | Task    | New         | Normal   | Evaluate options for postgres replication configuration  | Monica Ihli       | 2017-09-01 15:11 |                               |
| 8170 | Infrastructure | Task    | New         | Normal   | Identify the components that are currently managed in LDAP on the Coordinating Nodes and how these may be migrated to postgres | Monica Ihli       | 2017-09-01 15:20 |                               |
| 8505 | Infrastructure | Task    | New         | Normal   | Review solr terms for coverage of data citation elements   | Monica Ihli       | 2018-03-19 21:57 |                               |
| 8504 | Infrastructure | Story   | New         | Normal   | Support creation of data citation record from solr record  | Monica Ihli       | 2018-07-17 23:06 | d1_indexer                    |
| 7184 | Infrastructure | Task    | New         | Normal   | Create an Ansible script that can replace a server certificate   | Nick Outin        | 2015-06-15 15:10 | Support Operations            |

| #    | Project        | Tracker | Status      | Priority | Subject   | Assignee        | Updated          | Category           |
|------|----------------|---------|-------------|----------|---|-----------------|------------------|--------------------|
| 2035 | Infrastructure | Task    | New         | Normal   | Design nagios system for monitoring CN locations  | Nick Outin      | 2014-09-24 18:29 | d1_monitor         |
| 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           |
| 8053 | Infrastructure | Feature | New         | Normal   | add funding award number to index   | Peter Slaughter | 2019-03-04 19:36 | dataone-cn-index   |
| 8052 | Infrastructure | Bug     | New         | Normal   | Geohashed value is incorrect  | Peter Slaughter | 2017-04-07 22:06 | d1_indexer         |
| 1585 | Infrastructure | Task    | New         | Low      | add exec-maven-plugin to trigger python integration tests at verify phase.                        | Rob Nahf        | 2012-10-16 21:32 |                    |
| 7537 | Infrastructure | Task    | New         | Normal   | add nodelist refreshes to NodeLocator classes   | Rob Nahf        | 2015-12-10 16:59 | d1_libclient_java  |
| 6854 | Infrastructure | Feature | In Progress | Normal   | add testAssumptionFailure to run listener   | Rob Nahf        | 2016-01-26 22:30 | d1_integration     |
| 4059 | Infrastructure | Task    | New         | Normal   | Add test to verify node is reporting correct nodeId in log records                                | Rob Nahf        | 2013-10-07 19:10 |                    |
| 4650 | Infrastructure | Story   | New         | Normal   | Allow MN to bias resolve to the authoritative MN  | Rob Nahf        | 2018-01-17 20:00 | d1_cn_common       |
| 8045 | Infrastructure | Bug     | New         | Normal   | certificateLocation not seeming to be utilized  | Rob Nahf        | 2017-03-14 20:45 | d1_libclient_java  |
| 8044 | Infrastructure | Story   | New         | Normal   | certificate manager should check expiration of CAs it loads into the trust manager.               | Rob Nahf        | 2018-01-09 19:10 | d1_libclient_java  |
| 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 |
| 7884 | Infrastructure | Task    | New         | Normal   | CN portal log is misconfigured  | Rob Nahf        | 2016-09-09 20:18 | d1_portal_servlet  |
| 7958 | Infrastructure | Task    | In Progress | Normal   | CN sometimes sends invalid submitSynchronizationFailed document to MN                             | Rob Nahf        | 2017-01-04 17:23 | d1_synchronization |
| 6378 | Infrastructure | Task    | Testing     | Normal   | code up the new strategy  | Rob Nahf        | 2016-06-22 16:53 | d1_replication     |
| 8791 | Infrastructure | Story   | New         | Normal   | Complete deprecation of ONEMercury interface  | Rob Nahf        | 2019-05-01 14:00 | d1_mercury         |
| 6565 | Infrastructure | Task    | New         | Normal   | Configure Jenkins jobs for ezid (ezid-client)   | Rob Nahf        | 2014-12-15 18:36 |                    |
| 7890 | Infrastructure | Task    | In Progress | Normal   | configure jenkins-ucsb-1 apache server to host ubuntu repositories                                | Rob Nahf        | 2017-04-19 19:12 |                    |
| 6569 | Infrastructure | Task    | New         | Normal   | configure jobs for tag 1.0.1, 1.0.0 and 0.9.0   | Rob Nahf        | 2014-11-14 17:56 |                    |
| 3577 | Infrastructure | Task    | New         | Normal   | Confusing message about "Ignored Tests present".  | Rob Nahf        | 2013-02-14 22:36 | MNWebChecker       |
| 2956 | Infrastructure | Task    | In Progress | Normal   | content-checking tests for MNs entering an environment  | Rob Nahf        | 2014-10-01 22:04 | d1_integration     |
| 3591 | Infrastructure | Story   | In Progress | Normal   | Content consistency checks for new member nodes   | Rob Nahf        | 2018-01-17 20:23 | MNWebChecker       |
| 2545 | Infrastructure | Task    | New         | Normal   | create d1_integration tests using for MN.generateIdentifier                                       | Rob Nahf        | 2014-10-02 17:54 | d1_integration     |
| 7523 | Infrastructure | Bug     | In Progress | Normal   | D1Client no longer updates stale NodeList   | Rob Nahf        | 2016-04-19 22:27 | d1_libclient_java  |
| 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     |
| 8686 | Infrastructure | Bug     | New         | Normal   | d1-index-task-processor failed with NPE   | Rob Nahf        | 2018-08-24 01:35 | d1_indexer         |

| #    | Project        | Tracker | Status      | Priority | Subject   | Assignee | Updated          | Category            |
|------|----------------|---------|-------------|----------|---|----------|------------------|---------------------|
| 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  |
| 7650 | Infrastructure | Story   | New         | Normal   | DAO for SystemMetadata changes the SystemMetadata.replicationPolicy   | Rob Nahf | 2018-01-17 19:31 | d1_cn_common        |
| 6499 | Infrastructure | Feature | New         | Normal   | define and implement addFormat() method   | Rob Nahf | 2016-06-22 16:51 | Architecture Design |
| 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  |
| 8084 | Infrastructure | Story   | New         | Normal   | determine the backup strategy for rabbitMQ  | Rob Nahf | 2018-01-17 18:46 | d1_indexer          |
| 8081 | Infrastructure | Story   | In Progress | Normal   | develop federated broker configuration for indexing   | Rob Nahf | 2018-01-17 18:46 | d1_indexer          |
| 8061 | Infrastructure | Story   | New         | Normal   | develop queue-based processing system for the CN  | Rob Nahf | 2018-01-17 19:00 | Architecture Design |
| 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  |
| 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  |
| 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          |
| 6396 | Infrastructure | Task    | In Progress | Normal   | embed jetty server in d1_integration to run WebTests locally  | Rob Nahf | 2014-10-01 20:34 | MNWebChecker        |
| 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      |
| 8228 | Infrastructure | Bug     | New         | Normal   | Excessive replicas requested by integration test  | Rob Nahf | 2018-03-02 21:52 | d1_integration      |
| 8779 | Infrastructure | Story   | New         | Normal   | ForesiteResourceMap performance issue   | Rob Nahf | 2019-03-25 18:48 | d1_indexer          |
| 8734 | Infrastructure | Story   | New         | Normal   | Hazelcast shutdown tied to out of memory exception!   | Rob Nahf | 2018-10-18 16:55 | Metacat             |
| 8738 | Infrastructure | Story   | In Progress | Normal   | HZEventFilter performance decline with increased task queue   | Rob Nahf | 2018-10-30 04:10 | 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          |
| 4463 | Infrastructure | Story   | In Progress | Normal   | Incorporate Node Replication Policy into replication processing   | Rob Nahf | 2018-01-17 20:03 | d1_replication      |
| 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          |
| 8363 | Infrastructure | Story   | New         | Normal   | indexer shutdown generates index tasks  | Rob Nahf | 2018-09-24 15:25 | d1_indexer          |
| 8702 | Infrastructure | Story   | New         | Normal   | Indexing Refactor Strategy  | Rob Nahf | 2018-09-24 18:05 | 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          |
| 8724 | Infrastructure | Bug     | New         | Normal   | index out of bounds error in PortalCertificateManager   | Rob Nahf | 2018-10-02 19:11 | d1_portal           |
| 8361 | Infrastructure | Bug     | New         | Normal   | index processor throws unhandled NPE if task systemMetadata is null   | Rob Nahf | 2018-03-22 16:54 | d1_indexer          |
| 8541 | Infrastructure | Bug     | New         | Normal   | index shutdown threw exception  | Rob Nahf | 2018-04-12 16:44 | d1_indexer          |



| #    | Project        | Tracker | Status      | Priority | Subject   | Assignee | Updated          | Category           |
|------|----------------|---------|-------------|----------|---|----------|------------------|--------------------|
| 8540 | Infrastructure | Story   | New         | Normal   | interesting 15 minute Hazelcast timeout in IndexProcessor                             | Rob Nahf | 2018-04-12 04:32 | d1_indexer         |
| 8172 | Infrastructure | Story   | In Progress | Normal   | investigate atomic updates for some solr updates                                      | Rob Nahf | 2018-01-17 18:39 | 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         |
| 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 |
| 7538 | Infrastructure | Task    | New         | Normal   | look at nodeFactory in how it builds mock CNodes                                      | Rob Nahf | 2015-12-10 17:03 | d1_libclient_java  |
| 6395 | Infrastructure | Story   | In Progress | Normal   | Member Node testers are stuck when the MNWebTester hangs / crashes                    | Rob Nahf | 2018-01-17 19:51 | MNWebChecker       |
| 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     |
| 3907 | Infrastructure | Task    | New         | Normal   | MN Integration Test - verify system metadata returned matches expected                | Rob Nahf | 2013-08-09 18:48 | d1_integration     |
| 3925 | Infrastructure | Task    | New         | Normal   | navigate through the ResourceMap confirm existence of identifiers on the MN           | Rob Nahf | 2014-10-01 22:04 | MNWebChecker       |
| 7810 | Infrastructure | Story   | New         | Normal   | Need to avoid buffer overflow condition during HTTP client TLS renegotiation          | Rob Nahf | 2018-01-17 19:09 |                    |
| 8735 | Infrastructure | Bug     | In Progress | Normal   | NPE in IndexTask causes indexing job to fail  | Rob Nahf | 2018-10-18 18:33 | d1_indexer         |
| 3675 | Infrastructure | Bug     | New         | High     | package relationships not available for archived objects                              | Rob Nahf | 2018-09-21 21:01 | d1_indexer         |
| 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       |
| 8123 | Infrastructure | Bug     | Testing     | Normal   | portal hazelcast client should load config directly from xml                          | Rob Nahf | 2017-12-26 18:20 | d1_portal_servlet  |
| 7868 | Infrastructure | Bug     | New         | Normal   | potential gaps between log harvests   | Rob Nahf | 2017-03-23 15:40 | d1_log_aggregation |
| 8079 | Infrastructure | Task    | In Progress | Normal   | prototype durable task processing for d1_index_processor                              | Rob Nahf | 2017-04-26 05:45 | d1_indexer         |
| 6375 | Infrastructure | Task    | In Progress | Normal   | Refactor out dependency on a working CN   | Rob Nahf | 2016-06-22 16:53 | d1_replication     |
| 6372 | Infrastructure | Task    | In Progress | Normal   | rehabilitate ReplicationManager "unit" tests  | Rob Nahf | 2016-06-22 16:53 | d1_replication     |
| 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         |
| 8162 | Infrastructure | Story   | New         | Normal   | Replication tasks can contain stale potential target nodes                            | Rob Nahf | 2018-03-02 21:47 | d1_replication     |
| 8093 | Infrastructure | Bug     | New         | Normal   | resource map index processing is inefficient (2sec / referenced object)               | Rob Nahf | 2017-05-10 20:00 | 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         |
| 8230 | Infrastructure | Task    | New         | Normal   | review bouncy castle version  | Rob Nahf | 2018-03-02 21:48 | d1_libclient_java  |
| 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     |
| 7910 | Infrastructure | Task    | New         | Normal   | schema validation behavior  | Rob Nahf | 2018-01-18 02:41 | d1_common_java     |
| 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            |
|------|----------------|---------|-------------|----------|--|--------------|------------------|---------------------|
| 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   |
| 8078 | Infrastructure | Task    | New         | Normal   | standardize task serialization for language independence   | Rob Nahf     | 2017-04-25 22:39 | d1_indexer          |
| 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       |
| 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  |
| 7889 | Infrastructure | Story   | New         | Normal   | Synchronization not happening when authoritativeMN is not set correctly.   | Rob Nahf     | 2018-01-17 19:01 | d1_synchronization  |
| 8783 | Infrastructure | Bug     | New         | Normal   | synchronization re-created 26k map entries in SyncQueueFacade.nodeldRoundRobin   | Rob Nahf     | 2019-04-02 20:10 | d1_synchronization  |
| 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  |
| 6397 | Infrastructure | Task    | New         | Normal   | test that it works from standalone .war  | Rob Nahf     | 2014-10-01 20:34 | MNWebChecker        |
| 8703 | Infrastructure | Task    | New         | Normal   | test the cleaned up indexer in DEV   | Rob Nahf     | 2018-09-24 18:05 | d1_indexer          |
| 6376 | Infrastructure | Task    | New         | Normal   | test the new strategy against working ReplicationManager test  | Rob Nahf     | 2016-06-22 16:53 | d1_replication      |
| 8525 | Infrastructure | Story   | In Progress | High     | timeout exceptions thrown from Hazelcast disable synchronization   | Rob Nahf     | 2018-11-16 17:32 | d1_synchronization  |
| 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      |
| 907  | Infrastructure | Task    | In Progress | Normal   | unify d1_integration for multiple environments and test languages  | Rob Nahf     | 2012-10-16 21:34 | d1_integration      |
| 6398 | Infrastructure | Task    | New         | Normal   | update MNWebTest operations docs   | Rob Nahf     | 2014-10-01 20:34 | MNWebChecker        |
| 8086 | Infrastructure | Task    | In Progress | Normal   | upgrade Spring dependencies  | Rob Nahf     | 2019-07-25 20:32 | d1_indexer          |
| 7097 | Infrastructure | Bug     | New         | Normal   | v1 call to CN.search() yields a NoClassDef exception for boucncycastle   | Rob Nahf     | 2015-05-12 18:46 |                     |
| 3757 | Infrastructure | Task    | New         | Normal   | Verify Log reporting in MN Tester  | Rob Nahf     | 2013-05-10 17:42 | d1_integration      |
| 6882 | Infrastructure | Bug     | New         | Normal   | after CN upgrade togglePortsAndReplication.sh missing  | Robert Waltz | 2016-01-05 17:54 | d1_cn_buildout      |
| 8058 | Infrastructure | Feature | New         | Normal   | Allow "upcoming" nodes to appear in the node list  | Robert Waltz | 2017-04-03 18:33 | 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       |
| 6706 | Infrastructure | Task    | New         | Normal   | CN-SANDBOX initiated synchronization with mnTestLTER before node was "approved"  | Robert Waltz | 2015-10-09 17:38 | Environment.Sandbox |
| 6070 | Infrastructure | Bug     | New         | Normal   | CNs missing GOA objects  | Robert Waltz | 2016-08-10 20:56 | d1_synchronization  |
| 6060 | Infrastructure | Bug     | New         | Normal   | dataone-cn-index install should fail if subtasks fail  | Robert Waltz | 2016-08-10 20:58 | 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      |
| 3643 | Infrastructure | Task    | New         | Normal   | Decide on future of stage-2 environment  | Robert Waltz | 2015-01-14 00:41 |                     |
| 7178 | Infrastructure | Bug     | New         | Normal   | duplicate replica information on mn-demo-5   | Robert Waltz | 2015-07-01 20:14 | d1_replication      |

| #    | Project        | Tracker  | Status      | Priority | Subject   | Assignee     | Updated          | Category                |
|------|----------------|----------|-------------|----------|---|--------------|------------------|-------------------------|
| 6044 | Infrastructure | Bug      | New         | Normal   | Indexer needs port 5432 open to localhost during postinst                                       | Robert Waltz | 2015-01-06 18:17 | d1_cn_buildout          |
| 6062 | Infrastructure | Bug      | In Progress | Normal   | Jenkins not cascading builds in trunk   | Robert Waltz | 2016-08-10 20:56 | Environment.Development |
| 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     |
| 5321 | Infrastructure | Bug      | New         | Normal   | Multiple Hazelcast Client connections to same storage instance                                  | Robert Waltz | 2016-08-10 20:58 | d1_process_daemon       |
| 6041 | Infrastructure | Bug      | New         | Normal   | obsoletedBy field serialized with newline after pid   | Robert Waltz | 2014-09-25 17:36 |                         |
| 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          |
| 6514 | Infrastructure | Task     | New         | Normal   | Reharvest all Records to build initial cache  | Robert Waltz | 2015-01-13 15:56 | d1_log_aggregation      |
| 7940 | Infrastructure | Story    | New         | Normal   | Retrieval of system metadata is too slow  | Robert Waltz | 2018-01-09 19:10 | 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           |
| 6067 | Infrastructure | Decision | New         | Normal   | Should we configure Dependency Analyzer Plugin in Jenkins?                                      | Robert Waltz | 2014-08-22 03:58 | Environment.Development |
| 6011 | Infrastructure | Bug      | New         | Normal   | Synchronization fails from max_syncobjectqueue_size   | Robert Waltz | 2016-01-05 17:52 | d1_synchronization      |
| 4067 | Infrastructure | Bug      | New         | Normal   | Validate Node stream in MultipartHttpServletRequest in register and updateNodeCapabilities.     | Robert Waltz | 2016-08-10 21:01 | d1_cn_service           |
| 3869 | Infrastructure | Bug      | New         | Normal   | wrong key set in portal/WEB-INF/client.xml  | Robert Waltz | 2016-08-10 20:58 | d1_cn_buildout          |
| 5582 | Infrastructure | Bug      | New         | Normal   | xinetd not supported via debian install   | Robert Waltz | 2014-10-02 19:27 | d1_cn_buildout          |
| 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               |
| 6034 | Infrastructure | Task     | In Progress | Normal   | d1_client_cli CCI 2.0 support   | Roger Dahl   | 2014-08-11 16:23 | d1_client_cli           |
| 6026 | Infrastructure | Task     | In Progress | Normal   | d1_common CCI 2.0 support   | Roger Dahl   | 2014-08-01 15:49 | d1_common_python        |
| 6033 | Infrastructure | Task     | In Progress | Normal   | d1_libclient_python CCI 2.0 support   | Roger Dahl   | 2014-08-11 16:22 | d1_libclient_python     |
| 3762 | Infrastructure | Feature  | New         | Low      | DataONE software download statistics  | Roger Dahl   | 2014-10-01 21:32 | d1_dashboard            |
| 8155 | Infrastructure | Story    | In Progress | Normal   | Ensure GMN fully supports the Package API   | Roger Dahl   | 2018-01-17 18:43 | d1_mn_GMN               |
| 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               |
| 6025 | Infrastructure | Task     | In Progress | Normal   | Implement support for CCI v2.0 in Python stack  | Roger Dahl   | 2014-08-01 15:49 |                         |
| 817  | Infrastructure | Task     | New         | Low      | Integration testing: Make Java and Python stack return values equal for each function.          | Roger Dahl   | 2012-10-08 18:47 |                         |
| 3656 | Infrastructure | Story    | New         | Normal   | integration testing: what are acceptable pids for update?                                       | Roger Dahl   | 2018-01-17 20:22 |                         |
| 7954 | Infrastructure | Bug      | New         | Normal   | SyncFailedTask:submitSynchronizationFailed does not provide cert when connecting to MN          | Roger Dahl   | 2017-04-19 18:55 | d1_synchronization      |
| 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        |

| #    | Project        | Tracker | Status      | Priority | Subject  | Assignee      | Updated          | Category     |
|------|----------------|---------|-------------|----------|--|---------------|------------------|--------------|
| 3763 | Infrastructure | Task    | New         | Low      | Visualize PyPI download statistics for Python components | Roger Dahl    | 2014-10-01 21:32 | d1_dashboard |
| 3122 | Infrastructure | Bug     | In Progress | Normal   | asterisk in search term                                  | Skye Roseboom | 2014-10-02 18:02 | d1_mercury   |
| 3313 | Infrastructure | Task    | New         | Normal   | Configure indexer to handle inline eml data              | Skye Roseboom | 2012-10-08 21:01 | d1_indexer   |

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