Release Build 11.0.0 Test Plan

This addresses how EN plans to test every issue in the Release Description, available at  
<https://pds-engineering.jpl.nasa.gov/development/pds4/11.0.0/release/rdd-11.0.0.html>

# Software Changes

## Pds Registry App

### Improvements

|  |  |
| --- | --- |
| Issue ID | pds-registry-app#20 |
| Issue Type | Improvements |
| Issue Description | Update Schema Generator for handling special cases where ancestor classes are needed |
| Comments |  |
| Test Plan | In harvest config file, add elements belonging to parent of ambiguous element. Harvest. Verify new elements. |

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| --- | --- |
| Issue ID | pds-registry-app#16 |
| Issue Type | Improvements |
| Issue Description | Design and Implement capability to handle archive\_status |
| Comments |  |
| Test Plan | `registry-manager set-archive-status …` a few times with variations as described ~80% down in <https://nasa-pds.github.io/pds-registry-app/operate/reg-manager.html>. Verify the changes via solr. |

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| --- | --- |
| Issue ID | pds-registry-app#22 |
| Issue Type | Improvements |
| Issue Description | Enhance documentation for PDS4 Attribute Search deployment and customization |
| Comments |  |
| Test Plan | Find documentation about PDS4 attributes in registry and harvest documentation |

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| --- | --- |
| Issue ID | pds-registry-app#38 |
| Issue Type | Improvements |
| Issue Description | Complete revised trade study on Solr vs ElasticSearch |
| Comments |  |
| Test Plan | Every test will test this, as ElasticSearch seems to have won |

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| --- | --- |
| Issue ID | pds-registry-app#6 |
| Issue Type | Improvements |
| Issue Description | Develop PDS4 Attribute Search capability |
| Comments |  |
| Test Plan | Modify harvest config file as described in <https://nasa-pds.github.io/pds-registry-app/operate/harvest.html>, “Extract Metadata by Data Dictionary Class”, to extract an element’s attribute, then view in solr. |

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| --- | --- |
| Issue ID | pds-registry-app#7 |
| Issue Type | Improvements |
| Issue Description | Develop Customization capability for PDS4 Attribute Search |
| Comments |  |
| Test Plan | Testing #6 tests this |

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| --- | --- |
| Issue ID | pds-registry-app#8 |
| Issue Type | Improvements |
| Issue Description | Design and implement Multi-Node Deployment capability |
| Comments | Current documentation is for solr, which has been replaced |
| Test Plan | Ask SAs to install. |

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| --- | --- |
| Issue ID | pds-registry-app#9 |
| Issue Type | Improvements |
| Issue Description | Design and implement Security and Authorization component |
| Comments |  |
| Test Plan | Ask SAs to confirm that whatever package(s) in whatever configuration (there’s some brutal diagram I can’t find from the RDD page) is sufficient for security and authorization. Also, run an https command |

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| --- | --- |
| Issue ID | pds-registry-app#10 |
| Issue Type | Improvements |
| Issue Description | Develop capability for handling multiple product versions |
| Comments |  |
| Test Plan | Clean database. harvest v1.0 of something, then harvest 2.0 and see if solr shows both. Clean database and reverse the order. |

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| --- | --- |
| Issue ID | pds-registry-app#15 |
| Issue Type | Improvements |
| Issue Description | Develop cability to deploy Test vs Operations Registry environments |
| Comments |  |
| Test Plan | Run through commands on https://nasa-pds.github.io/pds-registry-app/operate/test-vs-prod.html |

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| --- | --- |
| Issue ID | pds-registry-app#11 |
| Issue Type | Improvements |
| Issue Description | Develop Registry reporting / visualization component |
| Comments | DUMP THIS |
| Test Plan | Play with banana as described in https://nasa-pds.github.io/pds-registry-app/reporting/index.html |

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| --- | --- |
| Issue ID | pds-registry-app#30 |
| Issue Type | Improvements |
| Issue Description | Design and document Registry cluster expansion approach |
| Comments |  |
| Test Plan | Tested with #8. Deploy with 1 node. Add another, and see if registry stays up. Test this last if at all. |

### Defects

|  |  |
| --- | --- |
| Issue ID | pds-registry-app#5 |
| Issue Type | Defect |
| Issue Description | registry installation's documentation may be insufficient |
| Comments |  |
| Test Plan | Verify following documents:   * <https://nasa-pds-incubator.github.io/pds-app-registry/install/solr.html> You could add an error section that says if the browser shows 404, check if SOLR\_HOME/server/logs/solr.log says it was unable to read /opt/solr/solr.xml, then cd SOLR\_HOME; ln -s server/solr/solr.xml; ln -s server/solr/zoo.cfg; chmod 000 example, though the last two may not be necessary. * <https://nasa-pds-incubator.github.io/pds-app-registry/install/initialize.html> Somewhere before registry-manager create-registry, add set REGISTRY\_MANAGER\_HOME theRightPlace   <https://nasa-pds-incubator.github.io/pds-app-registry/install/initialize.html> Probably don't mention this, but let me note that this is where uninstalling docker from my laptop got this to work, though maybe it was just the rebooting. |

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| --- | --- |
| Issue ID | pds-registry-app#3 |
| Issue Type | Defect |
| Issue Description | pds-app-registry doesn't build on Windows |
| Comments | DUMPED |
| Test Plan |  |

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| --- | --- |
| Issue ID | pds-registry-app#21 |
| Issue Type | Defect |
| Issue Description | Unable to build application due to file size limit |
| Comments | DUMPED |
| Test Plan |  |

### Requirements

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| --- | --- |
| Issue ID | pds-registry-app#57 |
| Issue Type | Requirements |
| Issue Description | The service shall accept artifact registrations. |
| Comments |  |
| Test Plan | Every harvest run tests this |

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| --- | --- |
| Issue ID | pds-registry-app#58 |
| Issue Type | Requirements |
| Issue Description | The service shall provide a means identifying relationships between artifact registrations |
| Comments |  |
| Test Plan | Harvest many things at one time, e.g. a bundle or N bundles or a bunch of context products. Get the package ID somehow (<https://nasa-pds.github.io/pds-registry-app/operate/harvest.html>), probably from solr Delete that package\_id as described in <https://nasa-pds.github.io/pds-registry-app/operate/common-ops.html> |
|  |  |

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| --- | --- |
| Issue ID | pds-registry-app#59 |
| Issue Type | Requirements |
| Issue Description | The service shall maintain configuration regarding the classes of artifacts to be registered. |
| Comments |  |
| Test Plan | Write a harvest config file that behaves like the EN harvest config files, where only Product\_Bundle and \_Collection are ingested, or only \_Observational and \_Document. Harvest. View. |

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| --- | --- |
| Issue ID | pds-registry-app#56 |
| Issue Type | Requirements |
| Issue Description | The service shall assign a global unique identifier to a registered artifact |
| Comments | I’ll assume this means LIDVID |
| Test Plan | Use registry-manager to muck via LIDVID |

|  |  |
| --- | --- |
| Issue ID | pds-registry-app#55 |
| Issue Type | Requirements |
| Issue Description | The service shall allow for queries for registered artifacts |
| Comments |  |
| Test Plan | Use the curl interface to Elasticsearch. |

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| --- | --- |
| Issue ID | pds-registry-app#65 |
| Issue Type | Requirements |
| Issue Description | The service shall provide a staging capability for artifacts staged for release |
| Comments |  |
| Test Plan | See pds-registry-app#16 above. Register something, check that it’s staged, set archive\_status to something else, check that it’s no longer staged. |

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| --- | --- |
| Issue ID | pds-registry-app#54 |
| Issue Type | Requirements |
| Issue Description | The service should be scalable to enable publishing and management of up to 100 million registrations |
| Comments |  |
| Test Plan | Create a bundle with 100,000,000 xml labels, probably all pointing to the same .png, and harvest it, query something from it. Measure time for harvest. |

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| --- | --- |
| Issue ID | pds-registry-app#75 |
| Issue Type | Requirements |
| Issue Description | The service shall accept metadata for a registered artifact in a defined format. |
| Comments |  |
| Test Plan | Any harvest tests this |

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| --- | --- |
| Issue ID | pds-registry-app#74 |
| Issue Type | Requirements |
| Issue Description | The service shall validate metadata for a registered artifact |
| Comments |  |
| Test Plan | Harvest an invalid xml file |

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| --- | --- |
| Issue ID | pds-registry-app#73 |
| Issue Type | Requirements |
| Issue Description | The service shall require a logical identifier and version be provided for all registered artifacts |
| Comments |  |
| Test Plan | Harvest an xml file that has no logical identifier |

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| --- | --- |
| Issue ID | pds-registry-app#72 |
| Issue Type | Requirements |
| Issue Description | The service shall store metadata for a registered artifact in an underlying metadata store |
| Comments |  |
| Test Plan | Harvest anything |

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| --- | --- |
| Issue ID | pds-registry-app#71 |
| Issue Type | Requirements |
| Issue Description | The service shall allow updates to registered artifacts |
| Comments |  |
| Test Plan | Harvest an xml file. Change something in it beside the LID or VID. Harvest it again. Check that only 1 record exists. |

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| --- | --- |
| Issue ID | pds-registry-app#70 |
| Issue Type | Requirements |
| Issue Description | The service shall allow deletion of registered artifacts |
| Comments |  |
| Test Plan | Harvest something, then registry-manager delete-data -lidvid <id> |

|  |  |
| --- | --- |
| Issue ID | pds-registry-app#69 |
| Issue Type | Requirements |
| Issue Description | The service shall enable replication of registry contents with another instance of the service |
| Comments |  |
| Test Plan | Registry-manager export-data; move output file to another machine with an empty db. Registry-manager load-data; check if sympatico (probably visually via solr) |

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| --- | --- |
| Issue ID | pds-registry-app#68 |
| Issue Type | Requirements |
| Issue Description | The service shall require checksums as metadata for registry artifact to enable system-wide integrity checking |
| Comments |  |
| Test Plan | Harvest. Set a checksum wrong and watch harvest fail |

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| --- | --- |
| Issue ID | pds-registry-app#67 |
| Issue Type | Requirements |
| Issue Description | The service shall require a subset of file system metadata in order to support data metrics generation |
| Comments |  |
| Test Plan | Harvest something. Check that solr shows: path, checksum, LID, VID, filesize, file timestamp, MIME type. If appropriate, label file name, associate product file name(s), product class, instrument reference LID, investigation reference LID, spacecraft reference LID, target reference LID |

|  |  |
| --- | --- |
| Issue ID | pds-registry-app#66 |
| Issue Type | Requirements |
| Issue Description | The service shall require user authorization for updating registry metadata |
| Comments |  |
| Test Plan | After getting security to work (pds-registry-app#9), harvest from a different machine, see if challenge (or rejection) happens. |

## Pds Registry Harvest

### Improvements

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| --- | --- |
| Issue ID | harvest#24 |
| Issue Type | Improvements |
| Issue Description | Implement date conversion from PDS4 date/time strings to Solr format |
| Comments |  |
| Test Plan | In harvest config file, add "dataType" attribute to some date and/or time field and see how solr views it. Remove that attribute and compare solr. |

### Defects

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| --- | --- |
| Issue ID | harvest#4 |
| Issue Type | Defect |
| Issue Description | Fix bug where ingested product start\_date\_time is off by 12 hours |
| Comments |  |
| Test Plan | Harvest an xml file with start\_date\_time; verify the value via solr |

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| --- | --- |
| Issue ID | harvest#29 |
| Issue Type | Defect |
| Issue Description | Could not parse date in yyyy-MM-ddZ format |
| Comments |  |
| Test Plan | Same as harvest#4, but make sure value is yyyy-mm-ddZ (no “Thh:mm:ss) |

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| --- | --- |
| Issue ID | harvest#30 |
| Issue Type | Defect |
| Issue Description | For multivalued fields only unique values are stored |
| Comments |  |
| Test Plan | Harvest an xml file with a field with multiple values; make sure N values are the same; verify via solr that that value shows up N times (same order?) |

## Pds Registry Mgr Elastic

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| --- | --- |
| Issue ID | pds-registry-mgr-elastic#3 |
| Issue Type | Improvements |
| Issue Description | Implement Authentication |
| Comments |  |
| Test Plan | Like pds-registry-app#66, after getting security to work (pds-registry-app#9) on two machines, `registry-manager delete-data [https://othermachine:8983/solr`](https://othermachine:8983/solr%60). Actually, this can be tested from the same machine. |

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| --- | --- |
| Issue ID | pds-registry-mgr-elastic#7 |
| Issue Type | Defects |
| Issue Description | update-schema command doesn't work |
| Comments |  |
| Test Plan | DUMP THIS |

## Pds Doi Service

### Improvements

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| --- | --- |
| Issue ID | pds-doi-service#46 |
| Issue Type | Improvements |
| Issue Description | Implement the command line and parser to release a doi |
| Comments |  |
| Test Plan | Run pds-doi-cmd. Software is configured to run with a test server |

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| --- | --- |
| Issue ID | pds-doi-service#4 |
| Issue Type | Improvements |
| Issue Description | Develop Status / Query API and component for OSTI status of a DOI. |
| Comments |  |
| Test Plan | This can only be tested with a real request, so pass |

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| --- | --- |
| Issue ID | pds-doi-service#18 |
| Issue Type | Improvements |
| Issue Description | Develop DOI metadata automated validation component |
| Comments | I believe the schema and schematron are hidden. Ask Thomas for them to test better. |
| Test Plan | Validate the doi xml file with schematron file attached to this issue. Deliberately insert bug to demonstrate effectiveness. |

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| --- | --- |
| Issue ID | pds-doi-service#29 |
| Issue Type | Improvements |
| Issue Description | Develop ability to maintain a transaction log database |
| Comments |  |
| Test Plan | Run pds-doi-cmd, then pds-doi-cmd list |

|  |  |
| --- | --- |
| Issue ID | pds-doi-service#31 |
| Issue Type | Improvements |
| Issue Description | Develop maintain internal database of DOI requests |
| Comments |  |
| Test Plan | Run pds-doi-cmd list -f |

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| --- | --- |
| Issue ID | pds-doi-service#32 |
| Issue Type | Improvements |
| Issue Description | Develop Status / Query capability for querying database and return JSON |
| Comments |  |
| Test Plan | JSON is the default output, and everything queries the database, so anything tests this |

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| --- | --- |
| Issue ID | pds-doi-service#33 |
| Issue Type | Improvements |
| Issue Description | Develop Pending DOI Handler component for iteratively querying OSTI for DOI status until status change |
| Comments |  |
| Test Plan | pds-doi-cmd check |

|  |  |
| --- | --- |
| Issue ID | pds-doi-service#41 |
| Issue Type | Improvements |
| Issue Description | Develop simple regression test suite for deployment |
| Comments |  |
| Test Plan | DUMP THIS. THIS WAS FOR SOME EARLY, SPECIFIC ISSUE SINCE RESOLVED |

|  |  |
| --- | --- |
| Issue ID | pds-doi-service#42 |
| Issue Type | Improvements |
| Issue Description | Update documentation for operational installation and usage |
| Comments |  |
| Test Plan | Check <https://nasa-pds.github.io/pds-doi-service/installation/index.html> and usage |

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| --- | --- |
| Issue ID | pds-doi-service#44 |
| Issue Type | Improvements |
| Issue Description | Perform benchmark tests between original prototype software and new system |
| Comments |  |
| Test Plan | DUMP THIS LIKE #41 |

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| --- | --- |
| Issue ID | pds-doi-service#56 |
| Issue Type | Improvements |
| Issue Description | validate the submitted OSTI record against a schema |
| Comments |  |
| Test Plan | Same as #18 but the error should fail against the .xsd not the .sch |

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| --- | --- |
| Issue ID | pds-doi-service#58 |
| Issue Type | Improvements |
| Issue Description | create full\_name when first/last name cannot be parsed |
| Comments |  |
| Test Plan | Feed appropriate input to pds-doi-cmd and check output |

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| --- | --- |
| Issue ID | pds-doi-service#60 |
| Issue Type | Improvements |
| Issue Description | Add configuration documentation |
| Comments |  |
| Test Plan | View https://nasa-pds.github.io/pds-doi-service/installation/index.html |

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| --- | --- |
| Issue ID | pds-doi-service#70 |
| Issue Type | Improvements |
| Issue Description | add check to ensure landing page is online prior to DOI release |
| Comments |  |
| Test Plan | Run pds-doi-cmd with a LID that has no landing page yet |

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| --- | --- |
| Issue ID | pds-doi-service#82 |
| Issue Type | Improvements |
| Issue Description | End to end behave test |
| Comments |  |
| Test Plan | DUMP THIS LIKE #41 |

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| --- | --- |
| Issue ID | pds-doi-service#19 |
| Issue Type | Improvements |
| Issue Description | Design REST API and JSON response |
| Comments | I think this API has not been specified yet. |
| Test Plan | Run an earlier command via curl + this API. Parse the returned JSON |

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| --- | --- |
| Issue ID | pds-doi-service#20 |
| Issue Type | Improvements |
| Issue Description | Develop draft PDS Policy for Assigning DOIs |
| Comments |  |
| Test Plan | DUMP THIS – too high level |

|  |  |
| --- | --- |
| Issue ID | pds-doi-service#28 |
| Issue Type | Improvements |
| Issue Description | Re-organize and clean-up code to meet coding standards |
| Comments |  |
| Test Plan | DUMP THIS – too high level |

|  |  |
| --- | --- |
| Issue ID | pds-doi-service#1 |
| Issue Type | Improvements |
| Issue Description | Develop initial requirements and design for DOI Service |
| Comments |  |
| Test Plan | DUMP THIS – too high level |

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| --- | --- |
| Issue ID | pds-doi-service#2 |
| Issue Type | Improvements |
| Issue Description | Create / Draft a DOI object capability |
| Comments |  |
| Test Plan | DUMP THIS – too high level |

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| --- | --- |
| Issue ID | pds-doi-service#21 |
| Issue Type | Improvements |
| Issue Description | Reserve a DOI capability |
| Comments |  |
| Test Plan | pds-doi-cmd reserve |

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| --- | --- |
| Issue ID | pds-doi-service#22 |
| Issue Type | Improvements |
| Issue Description | Release DOI capability |
| Comments |  |
| Test Plan | pds-doi-cmd release |

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| --- | --- |
| Issue ID | pds-doi-service#24 |
| Issue Type | Improvements |
| Issue Description | Update Released DOI capability |
| Comments |  |
| Test Plan | pds-doi-cmd release (of a previously released DOI) |

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| --- | --- |
| Issue ID | pds-doi-service#25 |
| Issue Type | Improvements |
| Issue Description | DOI Batch Processing capability |
| Comments |  |
| Test Plan | Run pds-doi-cmd draft|release|list with a list of values |

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| --- | --- |
| Issue ID | pds-doi-service#26 |
| Issue Type | Improvements |
| Issue Description | Implement initial DOI database and management |
| Comments |  |
| Test Plan | This is in the background of every test, right? |

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| --- | --- |
| Issue ID | pds-doi-service#27 |
| Issue Type | Improvements |
| Issue Description | Develop DOI Status / Query component |
| Comments |  |
| Test Plan | Tested by other steps |

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| --- | --- |
| Issue ID | pds-doi-service#40 |
| Issue Type | Improvements |
| Issue Description | Develop operational documentation and test suite |
| Comments |  |
| Test Plan | DUMP THIS – too high level |

|  |  |
| --- | --- |
| Issue ID | pds-doi-service#65 |
| Issue Type | Improvements |
| Issue Description | Revise DOI Service Requirements |
| Comments |  |
| Test Plan | DUMP THIS – too high level |

|  |  |
| --- | --- |
| Issue ID | pds-doi-service#71 |
| Issue Type | Improvements |
| Issue Description | initialize production deployment with pre-existing dois |
| Comments |  |
| Test Plan | DUMP THIS – too high level |

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| --- | --- |
| Issue ID | pds-doi-service#83 |
| Issue Type | Improvements |
| Issue Description | Write procedure documentation |
| Comments |  |
| Test Plan | DUMP THIS – too high level |

### Defects

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| --- | --- |
| Issue ID | pds-doi-service#72 |
| Issue Type | Defect |
| Issue Description | node is not provided as contributor in the reserve records |
| Comments |  |
| Test Plan | pds-doi-cmd reserve, then check if node is in the output |

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| --- | --- |
| Issue ID | pds-doi-service#55 |
| Issue Type | Defect |
| Issue Description | Update default DOI metadata according to changes in requirements |
| Comments |  |
| Test Plan | Check that pds-doi-cmd’s output has the appropriate values for elements identified in this issue, e.g. <title>, <product\_type>, … |

### Requirements

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| --- | --- |
| Issue ID | pds-doi-service#5 |
| Issue Type | Requirements |
| Issue Description | The software shall be capable of accepting a request to create a draft DOI. |
| Comments |  |
| Test Plan | DUMP THIS – too high level |

|  |  |
| --- | --- |
| Issue ID | pds-doi-service#6 |
| Issue Type | Requirements |
| Issue Description | The software shall be capable of accepting a request to reserve a DOI. |
| Comments |  |
| Test Plan | Tested elsewhere |

|  |  |
| --- | --- |
| Issue ID | pds-doi-service#7 |
| Issue Type | Requirements |
| Issue Description | The software shall be capable of accepting a request to release a DOI. |
| Comments |  |
| Test Plan | Tested elsewhere |

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| --- | --- |
| Issue ID | pds-doi-service#8 |
| Issue Type | Requirements |
| Issue Description | The software shall be capable of accepting a request to deactivate a DOI. |
| Comments |  |
| Test Plan | Tested elsewhere |

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| --- | --- |
| Issue ID | pds-doi-service#9 |
| Issue Type | Requirements |
| Issue Description | The software shall be capable of accepting a request to update DOI metadata. |
| Comments |  |
| Test Plan | Tested elsewhere |

|  |  |
| --- | --- |
| Issue ID | pds-doi-service#10 |
| Issue Type | Requirements |
| Issue Description | The software shall be capable of batch processing >1 DOI requests. |
| Comments |  |
| Test Plan | pds-doi-cmd reserve -I somespreadsheet |

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| --- | --- |
| Issue ID | pds-doi-service#11 |
| Issue Type | Requirements |
| Issue Description | The software shall be capable of autonomously generating the minimum set of DOI metadata from PDS4 Collection; Bundle; Document products. |
| Comments |  |
| Test Plan | Tested elsewhere |

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| --- | --- |
| Issue ID | pds-doi-service#12 |
| Issue Type | Requirements |
| Issue Description | The software shall validate a minimum set of metadata is provided when reserving; releasing; or updating a DOI. This minimum set of metadata will be defined by the PDS DOI Working Group. |
| Comments |  |
| Test Plan | Tested elsewhere |

|  |  |
| --- | --- |
| Issue ID | pds-doi-service#13 |
| Issue Type | Requirements |
| Issue Description | The software shall validate the DOI metadata when reserving; releasing; or updating a DOI. |
| Comments |  |
| Test Plan | Tested elsewhere |

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| --- | --- |
| Issue ID | pds-doi-service#14 |
| Issue Type | Requirements |
| Issue Description | The software shall maintain a database of PDS DOIs and their current state. |
| Comments |  |
| Test Plan | Tested elsewhere |

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| --- | --- |
| Issue ID | pds-doi-service#15 |
| Issue Type | Requirements |
| Issue Description | The software shall maintain the ability to manage DOIs through OSTI |
| Comments |  |
| Test Plan | Tested elsewhere |

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| --- | --- |
| Issue ID | pds-doi-service#16 |
| Issue Type | Requirements |
| Issue Description | The software shall maintain the ability to manage DOIs through DataCite. |
| Comments |  |
| Test Plan | Not ready yet |

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| --- | --- |
| Issue ID | pds-doi-service#30 |
| Issue Type | Requirements |
| Issue Description | The software shall provide a Status capability that will allow a user to query for the current status of a DOI |
| Comments |  |
| Test Plan | Tested elsewhere |

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| --- | --- |
| Issue ID | pds-doi-service#35 |
| Issue Type | Requirements |
| Issue Description | The software shall provide the capability of producing a DOI Status Report based upon a user-specified query |
| Comments |  |
| Test Plan | Not ready yet |

## Pds Deep Archive

### Improvements

|  |  |
| --- | --- |
| Issue ID | pds-deep-archive#21 |
| Issue Type | Improvements |
| Issue Description | Develop one script to run both AIP and SIP generator |
| Comments |  |
| Test Plan | Run pds-deep-archive normally to see both AIP And SIP generated |

|  |  |
| --- | --- |
| Issue ID | pds-deep-archive#24 |
| Issue Type | Improvements |
| Issue Description | Update software to only include latest collection in when bundle references LIDs |
| Comments |  |
| Test Plan | Run pds-deep-archive with the “—include-latest-collections-only” flag.  (pds-deep-archive) $ pds-deep-archive -s PDS\_ATM \  -b https://atmos.nmsu.edu/PDS/data/PDS4/LADEE/ \  test/data/ladee\_test/mission\_bundle/LADEE\_Bundle\_1101.xml  --include-latest-collection-only |

|  |  |
| --- | --- |
| Issue ID | pds-deep-archive#28 |
| Issue Type | Improvements |
| Issue Description | Update docs to include release instructions |
| Comments |  |
| Test Plan | Manually verify |

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| --- | --- |
| Issue ID | pds-deep-archive#55 |
| Issue Type | Improvements |
| Issue Description | Add READMEs to AIPs and SIPs |
| Comments |  |
| Test Plan | Look for the README file in the bundle. |

|  |  |
| --- | --- |
| Issue ID | pds-deep-archive#63 |
| Issue Type | Improvements |
| Issue Description | Add timestamp to SIP / AIP product LIDs and filenames |
| Comments |  |
| Test Plan | Generate product with aipgen and sipgen, and verify the filename has the timestamp in it, eg: insight\_cameras\_v1.0\_20200601\_aip\_v1.0.xml  And with a LID of : urn:nasa:pds:system\_bundle:product\_aip:insight\_cameras\_v1.0\_20200601 |

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| --- | --- |
| Issue ID | pds-deep-archive#65 |
| Issue Type | Improvements |
| Issue Description | Update software to handle Document\_File.directory\_path\_name |
| Comments |  |
| Test Plan | Create a XML that specifies the path of the document, run sipgen and then verify the document location. |

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| --- | --- |
| Issue ID | pds-deep-archive#8 |
| Issue Type | Improvements |
| Issue Description | Document SIP Gen component into Node Delivery procedures |
| Comments |  |
| Test Plan | DUMP THIS – too high level |

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| --- | --- |
| Issue ID | pds-deep-archive#13 |
| Issue Type | Improvements |
| Issue Description | Improve SIP Gen performance for very large data sets |
| Comments |  |
| Test Plan | For this go-around, benchmark performance |

|  |  |
| --- | --- |
| Issue ID | pds-deep-archive#29 |
| Issue Type | Defect |
| Issue Description | SIP and Transfer Manifest duplicate files and LIDVIDs |
| Comments | A specific bundle from LADEE caused this error |
| Test Plan | Run against that bundle then another LADEE bundle |

|  |  |
| --- | --- |
| Issue ID | pds-deep-archive#39 |
| Issue Type | Defect |
| Issue Description | SIP Generator not outputting correctly for spice example bundle |
| Comments | A specific bundle from NAIF caused this error |
| Test Plan | Run against that bundle then another NAIF bundle |

|  |  |
| --- | --- |
| Issue ID | pds-deep-archive#41 |
| Issue Type | Defect |
| Issue Description | AIP Generator not outputting correctly for spice example bundle |
| Comments |  |
| Test Plan | Test with #39 |

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| --- | --- |
| Issue ID | pds-deep-archive#44 |
| Issue Type | Defect |
| Issue Description | SIP label contains invalid manifest URL using file path |
| Comments | A specific label caused this error |
| Test Plan | Run against that label, then a similar one |

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| --- | --- |
| Issue ID | pds-deep-archive#64 |
| Issue Type | Defect |
| Issue Description | Software does not exit after running against large data set |
| Comments | A specific bundle caused this error |
| Test Plan | Run against that bundle, then a similarly large bundle |

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| --- | --- |
| Issue ID | pds-deep-archive#69 |
| Issue Type | Defect |
| Issue Description | Software appears to be excluding all the products associated with the collections |
| Comments | A specific EPOXI bundle caused this error |
| Test Plan | Run against that bundle, than another EPOXI bundle |

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| --- | --- |
| Issue ID | pds-deep-archive#71 |
| Issue Type | Defect |
| Issue Description | AIP Generator outputs duplicate records in the checksum / transfer manifest |
| Comments | A specific InSight documentation bundle caused this error. |
| Test Plan | Run against that bundle, then another one with multiple collection versions |

|  |  |
| --- | --- |
| Issue ID | pds-deep-archive#82 |
| Issue Type | Defect |
| Issue Description | Output SIP uses backslash in output URLs on Windows |
| Comments |  |
| Test Plan | Run on any bundle and look for backslashes (bad) in SIP and AIP files |

|  |  |
| --- | --- |
| Issue ID | pds-deep-archive#75 |
| Issue Type | Defect |
| Issue Description | Invalid filenames to match SIP / AIP LIDs |
| Comments |  |
| Test Plan | Run on any bundle. Output SIP and AIP filename should match their LIDs |

|  |  |
| --- | --- |
| Issue ID | pds-deep-archive#78 |
| Issue Type | Defect |
| Issue Description | Standalone AIP Generator Fails |
| Comments |  |
| Test Plan | Run aipgen by itself |

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| --- | --- |
| Issue ID | pds-deep-archive#59 |
| Issue Type | Defect |
| Issue Description | Update Usage instructions to more clearly define command-line arguments |
| Comments |  |
| Test Plan | Check that documentation says that for the bundle’s URL on the command line, the bundle needs to be downloaded |

|  |  |
| --- | --- |
| Issue ID | pds-deep-archive#77 |
| Issue Type | Defect |
| Issue Description | Deep Archive doesn't do Windows |
| Comments |  |
| Test Plan | Check that pds-deep-archive, sipgen, and aipgen work on Windows |

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| --- | --- |
| Issue ID | pds-deep-archive#45 |
| Issue Type | Requirements |
| Issue Description | The tool shall be capable of generating a valid Archive Information Package transfer manifest and PDS4 XML label in accordance with the PDS4 Information Model |
| Comments |  |
| Test Plan | Tested elsewhere |

|  |  |
| --- | --- |
| Issue ID | pds-deep-archive#46 |
| Issue Type | Requirements |
| Issue Description | The tool shall be capable of generating a valid AIP and SIP products and PDS4 XML label in accordance with the PDS4 Information Model |
| Comments |  |
| Test Plan | Tested elsewhere |

|  |  |
| --- | --- |
| Issue ID | pds-deep-archive#47 |
| Issue Type | Requirements |
| Issue Description | The tool shall be capable of generating product manifests from an online Registry Service |
| Comments |  |
| Test Plan | Tested elsewhere |

|  |  |
| --- | --- |
| Issue ID | pds-deep-archive#48 |
| Issue Type | Requirements |
| Issue Description | The tool shall be capable of generating product manifests by crawling a file system using the information contained within the specified bundle and collection products |
| Comments |  |
| Test Plan | Tested elsewhere |

|  |  |
| --- | --- |
| Issue ID | pds-deep-archive#49 |
| Issue Type | Requirements |
| Issue Description | The tool shall generate a product manifest based upon the specification of a bundle as input |
| Comments |  |
| Test Plan | Tested elsewhere |

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| --- | --- |
| Issue ID | pds-deep-archive#50 |
| Issue Type | Requirements |
| Issue Description | The tool shall include products in the manifests based upon the relationships described in the PDS4 bundle and collection metadata |
| Comments |  |
| Test Plan | Tested elsewhere |

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| --- | --- |
| Issue ID | pds-deep-archive#51 |
| Issue Type | Requirements |
| Issue Description | The tool shall be capable of accepting a checksum manifest as input to use in place of Registry or on-demand product checksum generation |
| Comments | Probably not implemented yet. The Usage page does not say how to specify a checksum manifest as input |
| Test Plan | Run with a checksum manifest specified on the command line |

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| --- | --- |
| Issue ID | pds-deep-archive#52 |
| Issue Type | Requirements |
| Issue Description | The tool shall generate a PDS4 label for the SIP and AIP using at least PDS4 Information Model v1.13.0.0 |
| Comments |  |
| Test Plan | Tested elsewhere |

|  |  |
| --- | --- |
| Issue ID | pds-deep-archive#53 |
| Issue Type | Requirements |
| Issue Description | The tool shall require AIP and SIP products contain only products with valid logical identifiers according to the PDS4 Standards Reference |
| Comments |  |
| Test Plan | Tested elsewhere |

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| --- | --- |
| \Issue ID | pds-deep-archive#54 |
| Issue Type | Requirements |
| Issue Description | The Submission Information Package manifest shall be a tab-delimited table with one record per product and four fields per record containing the following fields: checksum value; checksum type; resolvable URL to data product; unique product lidvid for the associated product. |
| Comments |  |
| Test Plan | Tested elsewhere |

|  |  |
| --- | --- |
| Issue ID | validate#215 |
| Issue Type | Improvements |
| Issue Description | Throw warning when data exists after number of records |
| Comments |  |
| Test Plan | Tested by existing val217/\*.xml |

|  |  |
| --- | --- |
| Issue ID | validate#222 |
| Issue Type | Improvements |
| Issue Description | Reduce error messages for overlapping fields |
| Comments |  |
| Test Plan | Tested by existing val56\*.xml |

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| --- | --- |
| Issue ID | validate#63 |
| Issue Type | Improvements |
| Issue Description | Validate Table\_Character groups and their specified lengths match the specified group\_length |
| Comments |  |
| Test Plan | Tested by existing val63.xml |

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| --- | --- |
| Issue ID | validate#209 |
| Issue Type | Improvements |
| Issue Description | Packed\_Data\_Fields and bit fields do not validate as expected |
| Comments |  |
| Test Plan | Validate test data attached to issue. The only Packed\_Data\_Fields I can find are more ODFs at <https://atmos.nmsu.edu/PDS/data/jnogrv_1001>, so test |

|  |  |
| --- | --- |
| Issue ID | validate#149 |
| Issue Type | Defect |
| Issue Description | Update software to check number of records specified in label matches the records in the table |
| Comments |  |
| Test Plan | Tested by existing val217/\*.xml |

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| --- | --- |
| Issue ID | validate#206 |
| Issue Type | Defect |
| Issue Description | Validate incorrectly fails ASCII\_Integer field that is space-padded (empty) in Table\_Character |
| Comments |  |
| Test Plan | Find Table\_Character with ASCII\_Integer. Set value to blank. Should pass |

|  |  |
| --- | --- |
| Issue ID | validate#219 |
| Issue Type | Defect |
| Issue Description | validate v1.22.3 has large performance degradation on products with many tables |
| Comments |  |
| Test Plan | Create a label with 1000s of tables. Watch performance |

|  |  |
| --- | --- |
| Issue ID | validate#220 |
| Issue Type | Defect |
| Issue Description | Incorrect validation of number of records |
| Comments |  |
| Test Plan | Mostly tested by existing val217/\*.xml, but also test the file attached to the issue by radiosci |

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| --- | --- |
| Issue ID | validate#233 |
| Issue Type | Defect |
| Issue Description | Product validation does not detect the number of table records correctly for Table + Array object |
| Comments |  |
| Test Plan | Test on the data attached to this issue, another variant of val217/val220. |

|  |  |
| --- | --- |
| Issue ID | validate#177 |
| Issue Type | Defect |
| Issue Description | Software raises a field\_value\_overlap error on Table\_Binary Packed data fields |
| Comments |  |
| Test Plan | Tested with validate#209? In any case, test on the data attached to this issue. |

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| --- | --- |
| Issue ID | validate#234 |
| Issue Type | Defect |
| Issue Description | Validate gives incorrect records mismatch WARNING for interleaved data objects |
| Comments |  |
| Test Plan | Oh my god, another variant of 217/220. Test on the data attached to this issue. |

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| --- | --- |
| Issue ID | validate#243 |
| Issue Type | Defect |
| Issue Description | validate 1.24.0-SNAPSHOT chokes on a probably good file |
| Comments |  |
| Test Plan | Test on attached data. Another variant of 217/220? Might not be fixed |

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| --- | --- |
| Issue ID | validate#203 |
| Issue Type | Defect |
| Issue Description | Assembly plugin non-fatal errors on Windows |
| Comments | DUMP THIS. Problem with build |
| Test Plan |  |

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| --- | --- |
| Issue ID | validate#214 |
| Issue Type | Defect |
| Issue Description | validate outputs an extra '.' |
| Comments | DUMP THIS. The behavior that prompted this issue is deliberate. |
| Test Plan |  |

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| --- | --- |
| Issue ID | validate#15 |
| Issue Type | Defect |
| Issue Description | Verify that all name/type attribute values correspond to names denoted context products |
| Comments | I don’t think this happens. I am not sure validate should do this. |
| Test Plan | Test on val15.xml. Validate should complain but doesn’t |

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| --- | --- |
| Issue ID | validate#24 |
| Issue Type | Defect |
| Issue Description | Update context check to retrieve and use latest context products from EN Registry |
| Comments |  |
| Test Plan | Back up and edit validate/resources/registered\_context\_products.json by removing a LID used in a lid\_reference by any successful test. Validate to see missing context product error. Validate -u to update that file. Validate same file to see success. |

|  |  |
| --- | --- |
| Issue ID | validate#45 |
| Issue Type | Defect |
| Issue Description | Check that referenced context products are valid |
| Comments | SKIP THIS. I doubt this happens, and to test it would require making an operational version of the context product invalid. |
| Test Plan |  |

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| --- | --- |
| Issue ID | validate#50 |
| Issue Type | Defect |
| Issue Description | Add new target-manifest flag for user to provide a manifest (file) of file/directory paths to validate |
| Comments |  |
| Test Plan | Run `validate –target-manifest` |

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| --- | --- |
| Issue ID | validate#196 |
| Issue Type | Defect |
| Issue Description | Add new functionality to validate TIFF products used as observational products are uncompressed TIFF |
| Comments |  |
| Test Plan | Download illegal files from attachment to this issue and test |

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| --- | --- |
| Issue ID | validate#239 |
| Issue Type | Defect |
| Issue Description | The tool shall verify bundle directories adhere directory naming standards |
| Comments |  |
| Test Plan | Create a bundle with bad directory names like fakedata/ and test |

|  |  |
| --- | --- |
| Issue ID | validate#247 |
| Issue Type | Requirements |
| Issue Description | The tool shall accept a pre-defined subset of inputs for specifying the associated schema file(s) as described in this issue |
| Comments | SKIP. Issue is not closed yet |
| Test Plan |  |

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| --- | --- |
| Issue ID | validate#248 |
| Issue Type | Requirements |
| Issue Description | The tool shall verify that a digital objects which comprise observational data may be used in one and only one product |
| Comments | SKIP. Issue is not closed yet |
| Test Plan | In a working bundle, duplicate a label and slightly change its LID and filename but the filename its referring to. Add the new LID to the collection, then validate and watch the error. |

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| --- | --- |
| Issue ID | pds4-information-model#172 |
| Issue Type | Improvements |
| Issue Description | LDDTool: Add PDS Namespace Registry information to Help output |
| Comments |  |
| Test Plan | `lddtool -h` (or another option?) to see configured namespaces |

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| --- | --- |
| Issue ID | pds4-information-model#176 |
| Issue Type | Improvements |
| Issue Description | LDDTool: Add error counter or flag to enable unsuccessful termination System.exit |
| Comments |  |
| Test Plan | Run lddtool with bad input, then `echo $?`, which should print not 0. |

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| --- | --- |
| Issue ID | pds4-information-model#178 |
| Issue Type | Improvements |
| Issue Description | LDDTool: Improve error messages to clearly designate between FATAL\_ERROR vs ERROR |
| Comments |  |
| Test Plan | Run lddtool with a nonexistent input file to see FATAL\_ERROR. Run lddtool with an input file with a mild syntax error to see ERROR. |

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| --- | --- |
| Issue ID | pds4-information-model#222 |
| Issue Type | Improvements |
| Issue Description | LDDTool: Revise the handling of supplying the IM version (alternate version) via command-line |
| Comments |  |
| Test Plan | Run lddtool normally. Save output files. Run `lddtool -V currentIMVersion` and compare output files. |

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| --- | --- |
| Issue ID | pds4-information-model#88 |
| Issue Type | Improvements |
| Issue Description | LDDTool: Add capability to generate LDDs based on user-specified IM version |
| Comments |  |
| Test Plan | Run lddtool -VsomeOldVersion and see output files named that way |

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| --- | --- |
| Issue ID | pds4-information-model#158 |
| Issue Type | Improvements |
| Issue Description | LDDTool: Setup and configure CI/CD and Nightly Builds |
| Comments | DUMP THIS. Issue about the build |
| Test Plan |  |

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| --- | --- |
| Issue ID | pds4-information-model#165 |
| Issue Type | Improvements |
| Issue Description | CCB-284: Streamline process for adding or removing standard values. |
| Comments | DUMP THIS. Issue about procedure for updating values |
| Test Plan |  |

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| --- | --- |
| Issue ID | pds4-information-model#166 |
| Issue Type | Improvements |
| Issue Description | CCB-285: GeoTIFF format as operational PDS4 image |
| Comments | Implemented? If so, what should we see? My guess: |
| Test Plan | Find “GeoTIFF” in PDS4\_PDS\_1F00.sch (and .xsd?) everywhere TIFF is. |

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| --- | --- |
| Issue ID | pds4-information-model#167 |
| Issue Type | Improvements |
| Issue Description | LDDTool: Use sch:value-of to display a variable in Schematron validation |
| Comments |  |
| Test Plan | Add sch:value-of to input to lddtool as described in issue. Maybe ask Mark Bentley for an example to save effort. |

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| --- | --- |
| Issue ID | pds4-information-model#193 |
| Issue Type | Improvements |
| Issue Description | CCB-308: IM schematron needs to be updated to handle SI unit prefixes |
| Comments |  |
| Test Plan | Tested in IM testing, SCMA.CCB308 |

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| --- | --- |
| Issue ID | pds4-information-model#87 |
| Issue Type | Improvements |
| Issue Description | LDDTool: Enhance software error handling and logging for improved usability |
| Comments |  |
| Test Plan | I dunno. This is so vague. Evaluate the consistency of the messages in the error log? |

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| --- | --- |
| Issue ID | pds4-information-model#143 |
| Issue Type | Improvements |
| Issue Description | CCB-268 how to test this |
| Comments |  |
| Test Plan | Tested in IM testing, SCMA.CCB268 |

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| --- | --- |
| Issue ID | pds4-information-model#203 |
| Issue Type | Improvements |
| Issue Description | CCB-290: Add value 'Field Campaign' to Investigation\_Area type enumerated value list |
| Comments |  |
| Test Plan | Tested in IM testing, SCMA.CCB290 |

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| --- | --- |
| Issue ID | pds4-information-model#207 |
| Issue Type | Improvements |
| Issue Description | CCB-289: Define new class Encoded\_Audio to describe supplementary audio data products |
| Comments |  |
| Test Plan | Tested in IM testing, SCMA.CCB289 |

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| --- | --- |
| Issue ID | pds4-information-model#214 |
| Issue Type | Improvements |
| Issue Description | CCB-292: New enumerated values for reference\_type. |
| Comments |  |
| Test Plan | Add such a test to IM testing. It’s straightforward |

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| --- | --- |
| Issue ID | pds4-information-model#216 |
| Issue Type | Improvements |
| Issue Description | CCB-296: Duplicated value in enumerated value list of Product\_Context /Internal\_Reference /reference\_type. |
| Comments |  |
| Test Plan | Check that that field in PDS4\_PDS\_xxxx.sch has no duplicated values; the offender was “investigation\_to\_facility” apparently. |

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| --- | --- |
| Issue ID | pds4-information-model#218 |
| Issue Type | Improvements |
| Issue Description | CCB-294: Add enumerated value to Units\_of\_Pixel\_Resolution\_Angular |
| Comments |  |
| Test Plan | Tested in IM testing, SCMA.CCB294 |

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| --- | --- |
| Issue ID | pds4-information-model#220 |
| Issue Type | Improvements |
| Issue Description | CCB-297: Inappropriate values in permissible values list for Product\_Observational/Observation\_Area/Target\_Identification/Internal\_Reference/reference\_type |
| Comments |  |
| Test Plan | Tested in IM testing, SCMA.CCB297 |

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| --- | --- |
| Issue ID | pds4-information-model#130 |
| Issue Type | Improvements |
| Issue Description | CCB-256: Need method for providing permissible value definitions for external namespaces in Ingest\_LDD |
| Comments |  |
| Test Plan | Tested in IM testing, SCMA.CCB256 |

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| --- | --- |
| Issue ID | pds4-information-model#188 |
| Issue Type | Defect |
| Issue Description | LDDTool: requires one class with (element\_flag = true) even when no classes defined |
| Comments |  |
| Test Plan | Create lddinput with no classes, only rules. Lddtool is supposed to allow this, I think. |

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| --- | --- |
| Issue ID | pds4-information-model#192 |
| Issue Type | Defect |
| Issue Description | LDDtool combining two consecutive choice blocks into one block |
| Comments |  |
| Test Plan | Download Ed’s two attachments to the issue and see if running lddtool on the input avoids the problem in the output. Maybe create a second test. |

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| --- | --- |
| Issue ID | pds4-information-model#227 |
| Issue Type | Defect |
| Issue Description | LDDTool: erroneously replaces TBD values with null in JSON output |
| Comments |  |
| Test Plan | Create an lddtool input with “TBD” in various fields of DD\_Attribute and see if the output preserves “TBD”, as lddtool should do. |

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| --- | --- |
| Issue ID | pds4-information-model#229 |
| Issue Type | Defect |
| Issue Description | LDDTool: uses wrong version of XSD when referencing IMG dictionary |
| Comments |  |
| Test Plan | Download the attachments, run lddtool, check if output ldd references the correct .xsd. |

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| --- | --- |
| Issue ID | pds4-information-model#168 |
| Issue Type | Defect |
| Issue Description | LDDTool: Version info bug introduced since v11.2.0 |
| Comments |  |
| Test Plan | `lddtool -version` gives the right version (was 0.0 in one build) |

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| --- | --- |
| Issue ID | pds4-information-model#230 |
| Issue Type | Defect |
| Issue Description | LDDTool: update LDD attribute checking to only check for "type" and "\_type" |
| Comments |  |
| Test Plan | Create an attribute xxxtype without permissible values. Lddtool should not complain. If changed to xxx\_type, lddtool should complain |

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| --- | --- |
| Issue ID | pds4-information-model#180 |
| Issue Type | Defect |
| Issue Description | LDDTool does not handle "unbounded" maximum cardinality in Choice blocks correctly |
| Comments |  |
| Test Plan | Tested in 10b, SCMA.3, which uses input file im180.xml |

The remaining issues do not need to be tested

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| --- | --- |
| Issue ID | pds-site-app#1 |
| Issue Type | Improvements |
| Issue Description | create mockup for training page |
| Comments | \*\*\*Is there anything more than a web page? |
| Test Plan | TBD |

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| --- | --- |
| Issue ID | pds-api#5 SI |
| Issue Type | Improvements |
| Issue Description | Define collection-level search parameters |
| Comments | \*\*\*Is anything installed specifically for PDS API? I.e. does the registry automatically serve these requests? Swagger.json points to pds.nasa.gov as well as others. Do I need to change those to my test machine? Where would I place the modified swagger.json? What does the URL look like – http://localhost/collections/q=???  \*\*\* The issues for Pds Api\* remind me of DOI – is it sufficient for the tests to verify the functionality of |
| Test Plan | TBD |

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| --- | --- |
| Issue ID | pds-api#6 |
| Issue Type | Improvements |
| Issue Description | Assign and iterate over applicable API spec sections with API WG |
| Comments |  |
| Test Plan | TBD |

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| --- | --- |
| \Issue ID | pds-api#8 |
| Issue Type | Improvements |
| Issue Description | Design and elicit requirements for PDS API Spec |
| Comments |  |
| Test Plan | TBD |

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| --- | --- |
| \Issue ID | pds-api#10 |
| Issue Type | Improvements |
| Issue Description | Propose an initial server stub based on swagger output |
| Comments |  |
| Test Plan | TBD |

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| --- | --- |
| Issue ID | pds-api#11 |
| Issue Type | Improvements |
| Issue Description | Identify a framework to generate python api client from a swagger file |
| Comments |  |
| Test Plan | TBD |

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| --- | --- |
| Issue ID | pds-api#1 |
| Issue Type | Improvements |
| Issue Description | Design initial collection-level search API |
| Comments |  |
| Test Plan | TBD |

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| --- | --- |
| Issue ID | pds-api#4 |
| Issue Type | Improvements |
| Issue Description | Convert PDS API Spec to Open API |
| Comments |  |
| Test Plan | TBD |

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| --- | --- |
| Issue ID | pds-api-service#1 |
| Issue Type | Improvements |
| Issue Description | Test the documentation generation from swaggerhub |
| Comments |  |
| Test Plan | TBD |

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| --- | --- |
| Issue ID | pds-wds#5 |
| Issue Type | Improvements |
| Issue Description | Select tertiary color palettes |
| Comments | \*\*\*what in the world is wds? |
| Test Plan | TBD |

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| --- | --- |
| Issue ID | pds-wds#13 |
| Issue Type | Improvements |
| Issue Description | Create color styles for PDS color swatches. |
| Comments |  |
| Test Plan | TBD |

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| --- | --- |
| Issue ID | pds-wds#15 |
| Issue Type | Improvements |
| Issue Description | Add bold heading typography styles |
| Comments |  |
| Test Plan | TBD |

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| --- | --- |
| Issue ID | pds-wds#3 |
| Issue Type | Improvements |
| Issue Description | Complete initial PDS App Bar widget for simple web deployment |
| Comments |  |
| Test Plan | TBD |

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| --- | --- |
| Issue ID | pds-wds-react#1 |
| Issue Type | Improvements |
| Issue Description | Add PDS Banner App Bar |
| Comments |  |
| Test Plan | TBD |

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| --- | --- |
| Issue ID | pds-wds-web#3 |
| Issue Type | Improvements |
| Issue Description | Rename bar-section to pds-app-bar-section |
| Comments |  |
| Test Plan | TBD |

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| --- | --- |
| Issue ID | pds-wds-web#7 |
| Issue Type | Improvements |
| Issue Description | Rotate caret for open dropdown |
| Comments |  |
| Test Plan | TBD |

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| --- | --- |
| Issue ID | pds-wds-web#4 |
| Issue Type | Requirements |
| Issue Description | WCAG compliant |
| Comments |  |
| Test Plan | TBD |