Release Build B12.1 Test Plan

Table of Contents

Tools installation and configuration	
Software Changes	3
Cloud-tasks	Error! Bookmark not defined.
Pds Deep Archive	3
PDS doi-service	4
PDS doi-ui	8
feedback-widget	10
Pds Registry Harvest	10
PDS mi-label	11
PDS-API	12
PDS-api-client	17
PDS registry-app	18
pds-wds-react	22
pds4-information-model	26
PLAID	34
registry-api/ registry-api-service	36
Registry-common	38
Registry-mgr	38
software-issues-repo	39
template-repo-java	39
Validate	40

Tools installation and configuration

Testing for Release Build B12.1 will be performed on Mac OS, Linux and Windows 10 Pro. PDS tools from previous build will be uninstall, a clean install will be performed following installation and configuration steps in each tool's installation page. General testing using historical test bundles will be performed for each tool after installation.

Test ID	INT.1
Issue Description	pds-doi-service installation and configuration

Comments	Follow Installation manual page:
	https://github.com/NASA-PDS/doi-service/releases/tag/v2.1.4-dev
Test Plan	Verify/Install Required software.
	 Install pds-doi-service using pip install
	 Follow config steps
	Run pds-doi-cmd –help
	Test upgrade command

Test ID	INT.2
Issue Description	pds-registry-app/harvest installation and configuration
Comments	Follow Installation manual page:
	https://nasa-pds.github.io/pds-registry-app/install/tools.html
Test Plan	 Verify/Install Required software.
	 Download current release
	 https://github.com/NASA-PDS/pds-registry-
	app/releases/tag/v1.1.0-SNAPSHOT
	 Follow config steps
	Verify installation

INT.3
PDS-Registry-APP installation and configuration
Follow Installation manual page:
https://nasa-pds.github.io/pds-registry-app/install/index.html
Verify/Install Required software.
 Download current release: https://github.com/NASA-PDS/pds-registry-app/releases/tag/v1.1.0-SNAPSHOT Follow build steps Verify installation
P

Test ID	INT.4
Issue Description	pds-deep-archive installation and configuration
Comments	Follow Installation manual page:
	https://nasa-pds.github.io/pds-deep-archive/installation/index.html
Test Plan	Verify/Install Required software.
	• Download release from https://github.com/NASA-PDS/deep-archive/releases/tag/v1.1.0-dev
	Follow config steps
	Verify installation
	Test upgrade command

Test ID	INT.5
Issue Description	validate installation and configuration
Comments	Follow Installation manual page:
	https://nasa-pds.github.io/validate/install/index.html
Test Plan	Verify/Install Requirements.
	 Download and unpack current version
	https://github.com/NASA-PDS/validate/releases/tag/v2.1.5-
	SNAPSHOT
	 Follow config steps
	Verify installation

Test ID	INT.6
Issue Description	Pds-doi-ui installation and configuration
Comments	Follow Installation manual page:
	https://github.com/NASA-PDS/pds-doi-ui#readme
Test Plan	Verify/Install Requirements.
	 Download and unpack current version
	Follow config steps
	Verify installation

Test ID	INT.7
Issue Description	Pds-API installation and configuration
Comments	Follow Installation manual page:
	https://github.com/NASA-PDS/pds-api
Test Plan	Verify/Install Requirements.
	 Download and unpack current version
	Follow config steps
	Verify installation

Software Changes

PDS Deep Archive

Test ID	DEEP.1
Issue ID	pds-deep-archive#124
Issue Type	Bug
Issue Description	Unexpected fatal error when running pds-deep-archive against bundle
Comments	Test Data: pds-
	dev3:\$TEST_DATA_HOME/registry/lab.hydrocarbon_spectra
Test Plan	pds-deep-archive -s PDS_ATM -b https://pds-
	atmospheres.nmsu.edu/PDS/data/PDS4/ \
	/PDS/data/anonymous/PDS/data/PDS4/\
	lab.hydrocarbon_spectra/bundle.lab.hydrocarbon_spectra.xml

PDS doi-service

Test ID	DOI.1
Issue ID	doi-service#201
Issue Type	requirement
Issue Description	Improve DOI Service Documentation
	As an operator, I want to know how to deploy and use the API from
	the Sphinx documentation
Comments	Improve DOI Service Documentation #203
Test Plan	Check https://nasa-pds.github.io/doi-service/usage/index.html

Test ID	DOI.2
Issue ID	doi-service#202
Issue Type	requirement
Issue Description	Improve DOI Service Documentation
_	As an operator, I want one place to go for all DOI Service / API / UI
	documentation
Comments	Improve DOI Service Documentation #203
Test Plan	Check https://nasa-pds.github.io/doi-service/usage/index.html

Test ID	DOI.3
Issue ID	doi-service#256
Issue Type	task
Issue Description	Improve DOI Service Documentation
	Develop DOI documentation for PDS Operator
Comments	Improve DOI Service Documentation #203
Test Plan	Check https://nasa-pds.github.io/doi-service/usage/index.html find
	sections for Reserve, Release, Review, and submit

Test ID	DOI.4
Issue ID	doi-service#303
Issue Type	Bug
Issue Description	identifiers vs alternateIdentifiers appear disconnected from current
	DataCite schema
Comments	doi-service#251 B12.1 Enhancements to PDS DOI Metadata
Test Plan	Update all past DOIs for consistent metadata #294
	spot checked a few DOIs

Test ID	DOI.5
Issue ID	doi-service#257
Issue Type	requirement
Issue Description	As a PDS Operator, I want to perform a bulk update of a specific field
	across many DOI records
Comments	Given a proposed update to DOI metadata for all PDS DOI records,
	e.g. change all license information to X, in a CSV

	When I perform I can find in the doc an example notebook that I can
	adapt and run
	Then I expect all PDS records will update with this new metadata
	value(s)
Test Plan	1. Find document and example at
	https://github.com/NASA-PDS/doi-
	service/blob/main/src/pds_doi_service/notebooks/\
	Bulk%20Record%20Update.ipynb.
	2. Follow example
	3. Run Jupyter notebook

Test ID	DOI.6
Issue ID	doi-service#278
Issue Type	requirement
Issue Description	As a user, I want to update the LIDVID associated with a DOI
Comments	See test case in testrail:
	https://cae-
	testrail.jpl.nasa.gov/testrail/index.php?/cases/view/1019534\
	&group_by=cases:section_id&group_order=asc&group_id=79376
Test Plan	1. run Test Doi-Service #233
	2. create an updated xlsx file with a column including the DOI to
	update, also update the meta data and LIDVID
	3. gchen@Johns-MacBook-Pro venv % ./bin/pds-doi-cmd update -s
	gxchen@jpl.nasa.gov -n eng -i/system-i-n-t/12/DOI278/doi5-
	update.xlsx >/system-i-n-t/12/DOI278/doi5-update.json
	4. check for updated fields in doi5-update.json

Test ID	DOI.7
Issue ID	doi-service#299
Issue Type	Bug
Issue Description	DOI Service does not assign adequate permissions to transaction
	database/history
Comments	When doi.db or transaction_history is created or written to, the
	resultant files/directories have group-write permission bits set.
Test Plan	Install a fresh instance of the DOI service
	2. Submit a reserve request using any valid label or input spreadsheet
	3. If the submission is successful, observe the permissions on the doi.db file created, as well as the permissions of the transaction_history directory and any subdirectories. None of which should have group-write permissions enabled by default.

Test ID	DOI.8
Issue ID	doi-service#305

Issue Type	Bug
Issue Description	no-review argument has potential to be confused with -n (node ID)
	argument
Comments	usage: pds_doi_cmd.py [-h] {reserve,update,release,check,list}
	pds_doi_cmd.py: error: unrecognized arguments: -no-review
Test Plan	1. Using any installation of the DOI service, attempt release of a
	record, providing the incorrect -no-review flag
	2. The submission should result in an exception being thrown
	with this error message:

Test ID	DOI.9
Issue ID	doi-service#258
Issue Type	Bug
Issue Description	Spreadsheet parser does not validate parsed contents of rows
Comments	Input spreadsheet should be rejected by service with explanation of issues to be fixed
Test Plan	 Create a reserve spreadsheet with one or more invalid rows (empty fields, improper format) Submit the erroneous spreadsheet as input to the reserve action Verify Doi records are created for erroneous rows

Test ID	DOI.10
Issue ID	doi-service#310
Issue Type	Bug
Issue Description	Test DOIs are showing up in pds-gamma DOI search now linked from operations Citing PDS Data page
Comments	
Test Plan	 Go to https://pds-gamma.jpl.nasa.gov/tools/doi/#/search/MSL Review the results
	Since the pds-gamma deployment is now linked from Citing PDS Data webpage, the user expects to only see DOIs with 10.17189 prefix.

Test ID	DOI.11
Issue ID	doi-service#273
Issue Type	Bug
Issue Description	Default keywords/subjects are not always added to DOI records
Comments	See test case in https://cae-
	testrail.jpl.nasa.gov/testrail/index.php?/cases/view/1019532\
	&group by=cases:section id&group order=asc&group id=79376
Test Plan	1. create test doi xlxs file
	2. gchen@Johns-MacBook-Pro venv % bin/pip installupgrade pds-

doi-service
3. check pds_doi_service.ini for global_keyword_values
4, gchen@Johns-MacBook-Pro venv % ./bin/pds-doi-cmd reserve -s
gxchen@jpl.nasa.gov -n eng -i/system-i-n-t/12/DOI273/doi5.xlsx >
doi5out.json
5. Check doi5.out.json for default values

Test ID	DOI.12
Issue ID	doi-service#279
Issue Type	Requirement
Issue Description	As a user, I want to update the bundle/collection metadata associated
	with a DOI for accumulating data sets
Comments	
Test Plan	Test with doi-service#278

Test ID	DOI.13
Issue ID	doi-service#231
Issue Type	Enhancement
Issue Description	Improve upon application security for write access
Comments	Request string are post in https://github.com/NASA-PDS/doi-
	service/issues/231
Test Plan	1. Post a request without username and password.
	2. Verify request is forbidden.
	3. Post a request with username and password.
	4. Verify request is authorized.

Test ID	DOI.14
Issue ID	doi-service#260
Issue Type	Enhancement
Issue Description	Improve spreadsheet parser error handling
Comments	
Test Plan	Given a DOI system and a DOI reserve spreadsheet of new data sets to reserve DOIs, with invalid metadata in one of the records When I perform the reserve step with the spreadsheet Then I expect the error response given to tell me why the DOI submission failed and one what row of the spreadsheet Test Data Example of spreadsheet with some invalid data: TC-2 DOI reserve VG1 Sat PLS-CUP multi3 invalid date.xlsx

Test ID	DOI.15
Issue ID	doi-service#289
Issue Type	Enhancement

Issue Description	As a user, I want to obtain json label format from a list command
	query
Comments	See test case in teatrail:
	https://cae-
	testrail.jpl.nasa.gov/testrail/index.php?/cases/view/1019535\
	&group_by=cases:section_id&group_order=asc&group_id=79376
Test Plan	1. gchen@Johns-MacBook-Pro venv % ./bin/pds-doi-cmd list -f
	record >/system-i-n-t/12/DOI289/record-out.txt
	2. gchen@Johns-MacBook-Pro venv % ./bin/pds-doi-cmd list -f label
	>/system-i-n-t/12/DOI289/label-out.json

PDS doi-ui

Test ID	DOI-UI.1
Issue ID	doi-ui#106
Issue Type	Enhancement
Issue Description	Update DOI UI app to use NPM package
Comments	
Test Plan	Verify build instructions at
	https://github.com/NASA-PDS/doi-ui

Test ID	DOI-UI.2
Issue ID	doi-ui#87
Issue Type	Bug
Issue Description	When I try to reload a reserve which has been updated, the web page
	does not update
Comments	
Test Plan	Tested with doi-ui#67

Test ID	DOI-UI.3
Issue ID	doi-ui#88
Issue Type	Bug
Issue Description	Pre-existing keyword show in a weird way in the UI
Comments	
Test Plan	 search for doi 10.17189/22185 click update click published: yes edit keywords
	Expected behavior: The keywords should be in different subject tags

Test ID	DOI-UI.4
Issue ID	doi-ui#117
Issue Type	Bug
Issue Description	Fix DOI Search And DOI UI Integration Bugs

Comments	
Test Plan	 Verify the following bugs have been fixed: Hovering over status value will crash the app. A popover is supposed to show but something must be causing an error. Going to the search page will cause the app bar to become white
	and jumbled. There must be some sort of styling issue.Searching needs to click or enter twice before running.

Test ID	DOI-UI.5
Issue ID	doi-ui#67
Issue Type	Bug
Issue Description	Issue with displaying the content of an uploaded file after multiple
	selections
Comments	
Test Plan	1. Go to http://localhost:3000/create
	Click on Has the data been registered and made publicly available? NO
	3. choose a file and load it in the form (see compressed test dataset)
	4. update locally the chosen file
	5. choose a file again
	The displayed content of the file is not updated.
	The content displayed in the form should be updated as well as the content sent to the API back-end.

Test ID	DOI-UI.6
Issue ID	doi-ui#68
Issue Type	Enhancement
Issue Description	Improve Search UI behavior to only show results when search button
	is selected
Comments	
Test Plan	Verify the following:
	Search page is not supposed to display any results until the search
	button (or enter from the search bar) is entered.
	clicking the 'X' in the search bar to clear the search - should clear the
	results as well as the text in the search bar.

Test ID	DOI-UI.7
Issue ID	doi-ui#102
Issue Type	Enhancement
Issue Description	Have a single entry for the backend API url configuration
Comments	

Test Plan	Verify changes @
	https://github.com/NASA-PDS/doi-
	ui/pull/103/files/bedd9903c8d21cfcb5469b56bec27f45593753c8

feedback-widget

Test ID	FEEDBACK.1
Issue ID	Feedback-widget#17
Issue Type	Bug
Issue Description	Feedback does not let submissions through for SBN
Comments	Expected behavior
	The message should be something like, "Thank you for making the
	PDS a better site. If you provided an email address, a PDS
	representative will get back to you as soon as possible."
Test Plan	Steps to reproduce the behavior:
	 Go to https://pds-smallbodies.astro.umd.edu/ https://pdssbn.astro.umd.edu/ https://sbn.psi.edu/pds/ https://arcnav.psi.edu/ Open the Feedback form by clicking the blue tab on the right side of the screen which says "Need Help?" Fill in some comment and click the button to "Send Feedback" See message

Pds Registry Harvest

Test ID	HAR.1
Issue ID	Harvest#70
Issue Type	Bugs
Issue Description	Harvest fails on <i>yyyyZ</i> date time
Comments	Expected behavior
	Ingest successfully and convert to the expected ISO format.
Test Plan	ingest this collection product: https://pds-
	geosciences.wustl.edu/lab/urn-nasa-pds-
	<pre>lab_shocked_feldspars/data/collection_data_inventory.xml</pre>

Test ID	HAR.2
Issue ID	Harvest#75
Issue Type	Bug
Issue Description	harvest stops rather than skips a file with bad permissions
Comments	Tested in system-i-n#20, see testrail test case
Test Plan	Restrict permissions on a product

2. Attempt to have harvest index it3. Note that the process stops when it cannot handle this file
*

olean field
oundle/\
m-prod-
th.cfg -
.m

PDS mi-label

r D3 IIII-label	
Test ID	MI.1
Issue ID	mi-label#21
Issue Type	Bug
Issue Description	Product-Tools parsing mode cannot parse units
Comments	
Test Plan	Steps to reproduce the behavior:
	1. Create a file problem_illustration.lbl with these contents:
	PDS_VERSION_ID = PDS3
	PROPERTY_WITH_UNIT = 29.7245241213 <degree></degree>
	1. Create a file template.vm with these contents:
	The property with a unit: The unit: \$label.getUnits('PROPERTY_WITH_UNIT') The value: \$label.get('PROPERTY_WITH_UNIT')
	1. Switch MILabel to Product-Tools mode via the instructions at "Advanced Usage"/"Changing the Underlying Parser" of this document.

 Run MILabel with the above files with pds-generate -t template.vm -p problem_illustration.lbl Observe the following output in the file problem_illustration.xml:
The property with a unit: The unit: none The value: 29.7245241213

PDS-API

Test ID	API.1
Issue ID	Pds-api#139
Issue Type	Requirement
Issue Description	As a user, I want to see API stable release specifications
Comments	
Test Plan	https://nasa-pds.github.io/pds-api/specifications/search-v1.0.0- SNAPSHOT-redoc.html https://nasa-pds.github.io/pds-api/specifications.html

Test ID	API.2
Issue ID	Pds-api#142
Issue Type	Requirement
Issue Description	flesh out the registry repository.
Comments	
Test Plan	Test docker image at https://github.com/NASA-PDS/registry-api

Test ID	API.3
Issue ID	Pds-api#66
Issue Type	Requirement
Issue Description	As an API user, I want to get an XML response
Comments	Tested in system-i-n-t#20
Test Plan	See test case in testrail, system-i-n-t#20

Test ID	API.4
Issue ID	Pds-api#125
Issue Type	Requirement
Issue Description	As a user, I want to get the metadata in a pds4+xml response
Comments	Given a valid lidvid in the registry When I perform curl -X GET http://{base_url}/products/{lidvid} header Accept: application/pds+xml Then I expect to get the original PDS4 XML label for the lidvid

	When I perform curl -X GET http://{base_url}/productsheader Accept: application/pds+xml Then I expect to get the search result with original PDS4 XML labels
Test Plan	Already tested. Follow the steps of system-i-n-t#20 test cases in testrail.

Test ID	API.5
Issue ID	Pds-api#127
Issue Type	Requirement
Issue Description	As a user, I want to clearly see which formats are accepted by the API
	when a 406 error is raised.
Comments	Resolved by API#153
Test Plan	See test case in testrail for system-i-n-t#20.

Test ID	API.6
Issue ID	Pds-api#152
Issue Type	Requirement
Issue Description	As a user, I want the API response media types to be compliant with RFC 6838.
Comments	
Test Plan	 perform a request on any end-point using header Accept:application/vnd.nasa.pds.pds4+xml expect to get a result in format pds4+xml

Test ID	API.7
Issue ID	Pds-api#153
Issue Type	Requirement
Issue Description	As a user, I want to receive error messages when an invalid request is
	submitted to the API
Comments	
Test Plan	Already tested. Follow the steps of system-i-n-t#20 test cases in
	testrail.

Test ID	API.8
Issue ID	Pds-api#154
Issue Type	Enhancement
Issue Description	Refactor <i>meta</i> section of pds4+json and pds4+xml to use ops
	namespace
Comments	
Test Plan	Go to http://localhost:8080/swagger-ui.html#!/bundles/getBundles
	Check response for ops namespace.

Test ID	API.9
Issue ID	Pds-api#133
Issue Type	Enhancement

Issue Description	clarify what keyword parameter is for.
Comments	
Test Plan	Verify the API documentation is improved to make sense of what the
	keyword parameter actually means. https://nasa-pds.github.io/pds-api/specifications/search-v1.0.0-
	SNAPSHOT-redoc.html

Test ID	API.10
Issue ID	Pds-api#136
Issue Type	Enhancement
Issue Description	Revise the pds-api README so that it gives a perspective on non search api (e.g. doi) from pds
Comments	
Test Plan	Inspection: Verify pds-api README and API specification has
	descriptions of the API and how the various versions are deployed.

Test ID	API.11
Issue ID	Pds-api#137
Issue Type	Enhancement
Issue Description	As a user, I want to have a detailed description of the API q parameter
	syntax
Comments	The entry point to this documentation should be available from:
	https://pds-gamma.jpl.nasa.gov/api/swagger-
	ui.html#!/products/products or any end-point implementing the q
	parameter.
	as done for the /bundles end-point see
	results returned, for pagination
	q search query, complex query query string uses eq.ne,qt.qe,lt.le,
	(,),not,and,or. Properties are named as in 'properties'
	attributes, literals are strings
	between " or numbers. Detailed query specification is available
	at https://bit.ly/39391af
	harried
	That should also be available from there https://nasa-
	pds.github.io/pds-api/#tag/bundles
	pasigramas. 10/ pas upi mag ountres
	The description should be detailed enough so that the user knows
	when he/she should use quote or not (see issue #130)
Test Plan	Inspection - Verify the q parameter description in the Swagger spec
	makes sense from an external user perspective.

Test ID	API.12
Issue ID	Pds-api#121
Issue Type	Bug
Issue Description	Deployed API + Registry does not contain product metadata for
	pds4+json response
Comments	
Test Plan	<pre>\$ curl -X GETheader 'Accept: application/pds4+json' 'https://pds- gamma.jpl.nasa.gov/api/products?limit=100&only- summary=false'</pre>

Test ID	API.13
Issue ID	Pds-api#155
Issue Type	Bug
Issue Description	products/{identifier} missing properties object in application/json
	response
Comments	
Test Plan	Query http://pds-gamma.jpl.nasa.gov products/ products/urn:nasa:pds:orex.ovirs::10.0 properties block should be included in products/{identifier} response as well.

Test ID	API.14
Issue ID	Pds-api#72
Issue Type	Requirement
Issue Description	As an API user, I want to search by a temporal range as an ISO-8601
	time interval.
Comments	
Test Plan	Using postman,
	perform A request with time criteria
	curllocationrequest GET
	'http://localhost:8080/products?&q=
	((pds:Time_Coordinates.pds:start_date_time gt "2018-05-
	04T00:00:00Z") and
	<pre>(pds:Time_Coordinates.pds:start_date_time lt "2018-05-</pre>
	06T00:00:00Z"))'
	expect a result where the start_date_time property matches the criteria

Test ID	API.15
Issue ID	Pds-api#134
Issue Type	Requirement
Issue Description	As an API user, I want to get a key-value-pair JSON response
Comments	

Test Plan	Query registry-api with response format application/kvp+json
	Verify the result set has the value "key:value" paire.

Test ID	API.16
Issue ID	Pds-api#65
Issue Type	Requirement
Issue Description	As an API user, I want to get only the fields I explicitly requested
Comments	
Test Plan	Query the API with fields "pds:name, pds:data_type"
	Verify the result only return this two fields.

Test ID	API.17
Issue ID	Pds-api#74
Issue Type	Requirement
Issue Description	As an API user, I want to specify whether I get the latest or all
	versions of a product
Comments	See test case at
	https://cae-
	testrail.jpl.nasa.gov/testrail/index.php?/cases/view/1013929&\
	group_by=cases:section_id&group_order=asc&group_id=78293
Test Plan	1. testing at https://pds-gamma.jpl.nasa.gov/api/swagger-ui.html
	2. check API includes latest/all for all endpoints
	bundle_by_lidvid_all bundle_by_lidvid_latest collections_by_lidvid_all collections_by_lidvid_latest products_by_lidvid_all products_by_lidvid_latest
	get /bundles/{identifier}/collections/all
	get /bundles/{identifier}/collections/latest
	get /collections/{identifier}/products/all
	get /collections/{identifier}/products/latest

Test ID	API.18
Issue ID	Pds-api#106
Issue Type	Requirement
Issue Description	As a API manager, I want to restrict access to registered products that
_	should not be publicly accessible
Comments	
Test Plan	Check document on https://nasa-pds.github.io/registry

Given a registry populated with products with archive_status =
staged and archive_status = archived
perform a query of the products/ API endpoint
expect to only return those products where archive_status == archived

Test ID	API.19
Issue ID	Pds-api#120
Issue Type	Requirement
Issue Description	As an API user, I want a CSV response format option
Comments	
Test Plan	Query the API with response format as application/csv or text/csv
	Verify a valid CSV response is turned

Test ID	API.20
Issue ID	Pds-api#110
Issue Type	Enhancement
Issue Description	Extend application/pds4+json support to all endpoints
Comments	
Test Plan	Verify application/pds4+json response format supports all endpoints in pds-gamma.

Test ID	API.21
Issue ID	Pds-api#108
Issue Type	Enhancement
Issue Description	Update API endpoints to use <i>identifier</i> instead of <i>lidvid</i>
Comments	
Test Plan	Pds-gamma swagger UI, verify it displays identifier instead of lidvid

Test ID	API.22
Issue ID	Pds-api#145
Issue Type	Enhancement
Issue Description	Remove the x-total-count header from the API specification
Comments	
Test Plan	Verify API specification.

PDS-api-client

Test ID	API-CL.1
Issue ID	Pds-api-client#18
Issue Type	Bug
Issue Description	Links to client API details are broken on GitHub site
Comments	
Test Plan	new version of the doc is published https://nasa-pds.github.io/pds-api-
	<u>client/quickstart/index.html#request-one-end-point</u>

Test ID API-CL.2

Issue ID	Pds-api-client#17
Issue Type	Bug
Issue Description	Import failure for pds.api_client.CollectionsApi using PIP package
	0.8.0
Comments	
Test Plan	1. Install pip package, start python 3.8 on Linux ubuntu 20
	<pre>\$ pip3 install pds.api-client \$ python3.8</pre>
	2. Import the CollectionsApi
	>>> from pds.api_client.api.collections_api import CollectionsApi
	Should get no error

Test ID	API-CL.3
Issue ID	Pds-api-client#19
Issue Type	Bug
Issue Description	The demo provided on pds-api-client quickstart gives a 500 error
Comments	
Test Plan	Follow steps in https://github.com/NASA-PDS/pds-api-
	client/blob/main/docs/source/quickstart/index.rst

PDS registry-app

Test ID	REG-APP.1
Issue ID	pds-registry-app#179
Issue Type	requirement
Issue Description	As a user, I want the registry app components to be able to ingest data
	sets containing 1+ million products
Comments	
Test Plan	Read updated document for harvest
	Get test bundle from developer
	perform harvest + registry manager on the bundle using the scalable
	version, see doc
	expect to successfully ingest all product metadata

Test ID	REG-APP.2
Issue ID	pds-registry-app#200
Issue Type	requirement
Issue Description	As a user, I want big data ingestion tools packaged and dockerized
	together
Comments	deployment manual with docker,
Test Plan	Given the 'registry' documentation manual
	When I perform an installation of the scalable harvest

Then I expect I expect to have an option to deploy it from docker
container with docker compose.

Test ID	REG-APP.3
Issue ID	pds-registry-app#201
Issue Type	requirement
Issue Description	As a user, I want to be able to ingest a set of files specified in a file listing
Comments	
Test Plan	Given a registry and set of products I want to ingest When I perform a harvest client command with an input manifest Then I expect the products indicated in the file listing to be ingested Process a List of Files First, create a manifest file and list all files you want to process. One file path per line. /data/d1/CCF_0088_0674757853_190FDR_N0040048CACH00100_0A10LLJ05.xml /data/d1/CCF_0088_0674757853_190FDR_N0040048CACH00100_0A10LLJ07.xml /data/d1/CCF_0088_0674757853_190FDR_N0040048CACH00100_0A10LLJ09.xml Next, add the following section in Harvest configuration file: <harvest nodename="PDS_SBN"> <files></files></harvest>

Test ID	REG-APP.4
Issue ID	pds-registry-app #223
Issue Type	requirement
Issue Description	As a user, I want to change the archive status for a collection and it's
	associated products
Comments	
Test Plan	Given a collection with associated products loaded in the registry
	When I perform an registry-manager command set-archive-
	status on this lidvid to status {s}
	Then I expect this lidvid and all the associated product lidvid to have
	status {s} in the registry database (field :
	"ops:Tracking_Meta.ops:archive_status")
	The requirements applies to both the batch registry-manager and the
	new scalable harvest service.

Test ID	REG-APP.5
Issue ID	pds-registry-app#224
Issue Type	requirement
Issue Description	As a user, I want to switch a bundle and it's associated collections and
issue 2 escription	products from a protected status to operational.
Comments	https://github.com/NASA-
	PDS/registry/blob/docs/docs/source/user/update status.rst
Test Plan	Update local Registry / Elasticsearch (http://localhost:9200), no
	authentication.
	registry-manager set-archive-status \
	-status archived -lidvid
	"urn:nasa:pds:kaguya grs spectra:document::1.0"
	arn.masa.pas.magaja_gro_specera.aceamene
	Update remote Registry / Elasticsearch
	registry-manager set-archive-status \ -status archived -lidvid
	<pre>"urn:nasa:pds:kaguya_grs_spectra:document::1.0" \ -es https://my-host.my-domain:9999 \ -auth /my/path/auth.cfg</pre>
	harvest-client set-archive-status \ -status archived
	-lidvid "urn:nasa:pds:kaguya_grs_spectra:document::1.0"

Test ID	REG-APP.6
Issue ID	pds-registry-app#187
Issue Type	requirement
Issue Description	As a developer, I want to be able to access the registry related docker
	images from https://hub.docker.com/
Comments	
Test Plan	Clone each of the following image from github:
	• batch loader (https://github.com/NASA-PDS/registry-loader/tree/main/docker)
	• crawler service (https://github.com/NASA-PDS/registry-crawler-service/tree/main/docker)
	• harvest service (https://github.com/NASA-PDS/registry-harvest-service/tree/main/docker)

• harvest service cli (https://github.com/NASA-PDS/registry-harvest-cli/tree/main/docker)
• api (https://github.com/NASA-PDS/registry- api/tree/main/service/docker)
Follow readme to start each docker image, verify each image is accessible.

Test ID	REG-APP.7
Issue ID	pds-registry-app#208
Issue Type	requirement
Issue Description	As a developer I want to start the registry with a single command
Comments	
Test Plan	 clone the repository https://github.com/NASA-PDS/registry.git cd docker
	3. docker composeprofile=pds-core-registry up -d
	Should be able to launch registry-api http://localhost:8080/swagger-ui.html#!/

Test ID	REG-APP.8
Issue ID	pds-registry-app#220
Issue Type	Bug
Issue Description	harvest flags as mandatory a config elements the docs describe as optional
Comments	optional
Test Plan	If the cfg file doesn't include the <registry> field, harvest should still pass.</registry>
	Check documentation for update:
	https://nasa-pds.github.io/pds-registry-app/operate/harvest.html

Test ID	REG-APP.9
Issue ID	pds-registry-app#205
Issue Type	Bug
Issue Description	Harvest network I/O errors can cause corrupted JSON
Comments	See test case in testrail.
	https://cae-
	testrail.jpl.nasa.gov/testrail/index.php?/cases/view/1013928\
	&group_by=cases:section_id&group_order=asc&group_id=78293
Test Plan	• Create a directory for test data files, e.g., /tmp/test,

• Copy few valid PDS labels to this folder. You may also need to
copy corresponding data files or disable data file processing in harvest
config file.

- create an invalid XML file in the same directory, for example, x.xml with some invalid content like, kdfdfkdjf;'dkflkf.
- Run Harvest to process files from your test folder. harvest -c /my/test/harvest-cfg.xml

Test ID	REG-APP.10
Issue ID	pds-registry-app#186
Issue Type	requirement
Issue Description	As a developer, I want to deploy the registry with a single docker- compose command
Comments	
Test Plan	Check registry docker.

Test ID	REG-APP.11
Issue ID	pds-registry-app#257
Issue Type	Enhancement
Issue Description	Simple wrappers to call the pds-batch-loader and pds-service-loader
	docker compose services
Comments	Follow steps in https://github.com/NASA-
	PDS/registry/blob/main/docker/README.md
Test Plan	<pre>Run ./pds-batch-loader.sh <harvest_job_config_file_path> ./pds-service-loader.sh <harvest_job_config_file_path></harvest_job_config_file_path></harvest_job_config_file_path></pre>
	In docker directory

pds-wds-react

Test ID	WDS.1
Issue ID	pds-wds-react#5
Issue Type	bug
Issue Description	Some findable product do not have links in the search results
Comments	
Test Plan	Verify pds-wds-react search results has links like doi-ui

Test ID	WDS.2
Issue ID	pds-wds-react#9
Issue Type	requirement
Issue Description	As a developer, I want to update the DOISearch component backend
	url in an attribute.
Comments	https://github.com/nasa-pds/pds-wds-react#usage
Test Plan	When I perform usage of the DOISearch component, using the url
	attribute

Then I expect the results shown in the UI to match what is in the configured DOI API
As Embeddable JS Doi Search
In your project create a directory for example: pds-widgets/
Drop the contents of the /embedbuild directory into the newly created directory.
Add a div with the ID of the component set as DoiSearch. <div id="DoiSearch"></div>
Link the library into your project HTML using the script tag. Change the directory to the one that you created. <pre><script src="pds-widgets/index.js"></script></pre>
Parameters data-api Point this to your doi api. It is set to localhost 8080 by default.

Test ID	WDS.3
Issue ID	pds-wds-react#10
Issue Type	task
Issue Description	DOI Search updates per testing
Comments	
Test Plan	Verify pds-wds-react search:
	Hover/clickable info icon next to Status indicating what the various
	status-es mean.
	Add margin to right of table - status column gets covered a bit by
	the feedback widget.
	Only rows with Status = Findable should have links -
	Registered/Draft means they are not online
	Change page title from "PDS: Tools" to "PDS: DOI Search"
	searches need to be case insensitive

Test ID	WDS.4
Issue ID	pds-wds-react#12
Issue Type	requirement
Issue Description	As a DOI Search user, I want to be able to find a parent data set DOI
	from a product identifier
Comments	
Test Plan	perform a search with a product LIDVID (e.g.
	urn:nasa:pds:insight_cameras:data:\

	d01410122_607341680rus_g0103_0100m::8.0)
	Then I expect to get the parent collection DOI (e.g. the DOI for
	urn:nasa:pds:insight_cameras:data which is
	10.17189/1510488)
Test ID	WDS.5
Issue ID	pds-wds-react#26
Issue Type	bug
Issue Description	Fix Material UI Overriding Client App's Styling
Comments	N-4 1 C 10 T
Test Plan	Not ready for I&T
Test ID	WDS.6
Issue ID	pds-wds-react#27
Issue Type	bug
Issue Description	Hovering Over Status Value Will Crash A Client App
Comments	
Test Plan	Not ready for I&T
Test ID	WDS.7
Issue ID	pds-wds-react#28
Issue Type	bug
Issue Description	Hovering Over Status Value Will Crash A Client App
Comments	
Test Plan	Not ready for I&T
Test ID	WDS.8
Issue ID	pds-wds-react#29
Issue Type	bug
Issue Description	Fix Search Not Running On First Call For Client App
Comments	
Test Plan	Not ready for I&T
Tant ID	WDC 0
Test ID	WDS.9
Issue ID	pds-wds-react#14
Issue Type	requirement
Issue Description	As a PDS.nasa.gov user, I want to search for the DOI for a PDS4 data
Comments	product from a public facing website (pds.nasa.gov)
Test Plan	search nds nasa gay with the hundle LID
1 CSt Flall	search pds.nasa.gov with the bundle LID verify DOI is return from the interface
	verify DOI is feturif from the interface
Test ID	WDS.10
Issue ID	pds-wds-react#8
135UC 1D	pus-wus-reaciπο

Issue Type	Enhancement
Issue Description	Create a NPM package
Comments	
Test Plan	Follow Installation steps in https://github.com/NASA-PDS/pds-wds-
	react
Test ID	WDS.11
Issue ID	pds-wds-react#17
Issue Type	Enhancement
Issue Description	Combine NPM Package And Embeddable JS Script Toolchains
Comments	Removed from I&T test
Test Plan	Skip
Test ID	WDS.12
Issue ID	pds-wds-react#4
Issue Type	Enhancement

Test ID	WDS.12
Issue ID	pds-wds-react#4
Issue Type	Enhancement
Issue Description	Add Search DOI Component
Comments	
Test Plan	After installation, verify user can search for DOI

Test ID	WDS.13
Issue ID	pds-wds-react#18
Issue Type	Enhancement
Issue Description	Create PDS React Component Library Process For NPM Packages
Comments	
Test Plan	Test with pds-wds-react#8

Test ID	WDS.14
Issue ID	pds-wds-react#30
Issue Type	Enhancement
Issue Description	Update NPM Package Documentation
Comments	
Test Plan	Verify https://github.com/NASA-PDS/pds-wds-react/README has
	correct installation information

Test ID	WDS.15
Issue ID	pds-wds-react#19
Issue Type	Enhancement
Issue Description	Create javascript library for website integration
Comments	see documentation https://github.com/NASA-PDS/pds-wds-react#as-embeddable-js-doi-search
Test Plan	In your project create a directory for example: pds-widgets/

Drop the contents of the /embedbuild directory into the newly created directory.
Add a div with the ID of the component set as DoiSearch. <div id="DoiSearch"></div>
Link the library into your project HTML using the script tag. Change the directory to the one that you created. <script src="pds-widgets/index.js"></script>
Parameters data-api Point this to your doi api. It is set to localhost 8080 by default.

Test ID	WDS.16
Issue ID	pds-wds-react#15
Issue Type	Enhancement
Issue Description	Improve Search UI Behavior For DOI Search Widget
Comments	
Test Plan	Related to doi-ui#68

pds4-information-model

Test ID	IM.1
Issue ID	pds4-information-model#281
Issue Type	Enhancement
Issue Description	Tag ops classes/attributes in IM so they are easily identifiable by users
Comments	This is a one-time fix not suitable for regression placement. Check Data
	Dictionary doc files for conformance.
Test Plan	Open the following documents for comparison:
	https://pds.nasa.gov/datastandards/documents/dd/current/PDS4_PDS_DD
	<u>_1I00.pdf</u> (latest version)
	https://pds.nasa.gov/datastandards/documents/dd/current/PDS4_PDS_DD
	<u>1H00.pdf</u> (previous release)
	Examine the section "PDS3 catalog classes in the common namespace"
	Ensure that the section name is updated to "OPS catalog classes in the
	common namespace"
	Ensure that that the section is significantly longer and more detailed than
	the previous release.
	Ensure that the "OPS Catalog" section contains only "ops" classes and
	that no "ops" classes exist elsewhere.
	Compare all current versions to ensure they match: .pdf, .html
	and .webhelp by ensuring all current versions compare identically to the
	corresponding previous version (section name updated and significantly
	longer with more detailed description of classes and all "ops" classes).

Test ID	IM.2
Issue ID	pds4-information-model#428
Issue Type	Enhancement
Issue Description	IMTool Refactoring - Phase 2 - Move deprecated values to Protege
	ontology file
Comments	This is a one-time fix not suitable for regression placement. Phase 2, see
	pds4-information-model#306 for more information. These tests use:
	PDS4 Data Dictionary at
	https://pds.nasa.gov/datastandards/documents/dd/current/PDS4_PDS_DD 1100.html (latest)
	PDS4 Data Dictionary (JSON) at
	https://pds.nasa.gov/pds4/pds/v1/PDS4_PDS_1I00.JSON (latest)
	PDS4 Schematron at
	https://pds.nasa.gov/pds4/pds/v1/PDS4 PDS 1I00.sch (latest)
	PDS4 Information Model Specification at
	https://pds.jpl.nasa.gov/datastandards/documents/im/current/index 1I00.h
	tml (latest)
	PREVIOUS PDS4 Data Dictionary at
	https://pds.nasa.gov/datastandards/documents/dd/current/PDS4_PDS_DD
	1H00.html (previous)
	PREVIOUS PDS4 Data Dictionary (JSON) at
	https://pds.nasa.gov/pds4/pds/v1/PDS4_PDS_1H00.JSON (previous) PREVIOUS PDS4 Schematron at
	https://pds.nasa.gov/pds4/pds/v1/PDS4_PDS_1H00.sch (previous) PREVIOUS PDS4 Information Model Specification at
	https://pds.jpl.nasa.gov/datastandards/documents/im/current/index 1H00.
	html (previous)
Test Plan	Perform a diff between the latest JSON DD (I) and the previous JSON
	DD (H) to verify "isDeprecated" is included in the latest: diff -B8
	PDS4_PDS_1I00.JSON PDS4_PDS_1H00.JSON
	Perform a grep against the latest JSON DD (I) to collect deprecated
	values: grep '"isDeprecated": "true"' -B7 PDS4_PDS_1I00.JSON grep '"identifier"' cut -d':' -f2
	Perform a grep against the latest schematron (I) to collect deprecated
	values: grep -i 'is deprecated' PDS4_PDS_1I00.sch cut -d':' -f1
	Verify the 'isDeprecated' flag is part of the latest JSON DD only.
	Verify the JSON and schematron deprecated lists match.
	Verify the JSON search results contains the isDeprecated flag set 'true'
	for previously annotated deprecated items listed in previous the IM
	Spec/DD.

Test ID	IM.3
Issue ID	pds4-information-model#444
Issue Type	task

Issue Description	XML Schema files generated by LDDTool should not write the source
	file names in the header
Comments	Use test data at <a github.com="" href="https://github.com/pds-data-dictionaries/ldd-data-data-dictionaries/ldd-data-data-data-data-data-data-data-d</td></tr><tr><td></td><td>cart/blob/main/src/PDS4_CART_IngestLDD.xml,</td></tr><tr><td></td><td>and at <a href=" https:="" ldd-data-data-data-data-data-data-data-d<="" ldd-data-dictionaries="" pds-data-dictionaries="" td="">
	disp/blob/main/src/PDS4_DISP_IngestLDD.xml
Test Plan	1. Execute ./lddtool -lp PDS4_CART_IngestLDD.xml
	2. Execute ./lddtool -lp PDS4_DISP_IngestLDD.xml
	3. Examine the schemas generated.
	a. XSD file for former does not contain
	'file:PDS4_CART_IngestLDD.xml'
	b. XSD file for latter does not contain
	'file:PDS4_DISP_IngestLDD.xml'
	4. Pass: If above criteria are true.

Test ID	IM.4
Issue ID	pds4-information-model#269
Issue Type	bug
Issue Description	The PDS4 IM Specification Document is not consistent in the
	ordering of Permissible Values
Comments	This is a one-time fix not suitable for regression placement. Use data
	files at
	https://pds.jpl.nasa.gov/datastandards/documents/im/current/index_1I
	00.html (IM Spec latest) and at
	https://pds.nasa.gov/pds4/pds/v1/PDS4_PDS_1100.sch (Schema
	latest)
Test Plan	In a browser navigate to the PDS Internal Reference at
	https://pds.jpl.nasa.gov/datastandards/documents/im/current/index 1I
	00.html#attribute pds internal reference pds reference type to find
	the PDS Internal Reference Types.
	Verify that the values are in strict alphabetical order.
	At terminal execute: grep -iE
	'attribute to image class to image is facility package compiled fro
	m package ancillary to browse bundle to errata collection to spice
	kernel node to data archivist package has product document to in
	strument host data curated by node thumbnail to document'
	PDS4 PDS 1I00.sch grep 'must be set to one of the following'
	Verify that the resultant lines present value ordering in strict
	alphabetical order.
Ĺ	

Test ID	IM.5
Issue ID	pds4-information-model#341
Issue Type	requirement
Issue Description	As a user, I want to specify an IngestLDD using a relative path

Comments	Use test data at https://github.com/pds-data-dictionaries/ldd-cart/blob/main/src/PDS4_CART_IngestLDD.xml, and at https://github.com/pds-data-dictionaries/ldd-disp/blob/main/src/PDS4 DISP IngestLDD.xml (same test data as
	pds4-information-model#444)
Test Plan	Run 'lddtool -lpJ ' Run 'lddtool -lpJ ' Pass: Verify that outputs are identical, irrespective of paths.

Test ID	IM.6
Issue ID	pds4-information-model#418
Issue Type	bug
Issue Description	Inconsistent naming of JSON schema files
Comments	This is a one-time fix not suitable for regression placement.
Test Plan	 Go to https://pds.nasa.gov/datastandards/dictionaries/index-1.18.0.0.shtml Check PDS schema files: pds_1g00.xsd and pds_1g00.xsd and pds_1g00.xsd and pds_1g00.xsd and

Test ID	IM.7
Issue ID	pds4-information-model#375
Issue Type	bug
Issue Description	LDDTool documentation inconsistency
Comments	Use data available at

Test ID	IM.8
Issue ID	pds4-information-model#351
Issue Type	bug
Issue	Contradictory DISP rule assertions exist in the PDS4 IM from legacy
Description	ingestion

Comments	This is a one-time fix not suitable for regression placement.
Test Plan	In a browser navigate to the PDS Internal Reference at https://pds.jpl.nasa.gov/datastandards/documents/im/current/index_1100.html Browse to the Common Dictionary. Verify the following: 1. Display Dictionary: In the pds:Local_Internal_Reference class, the value of the pds:local_identifier_reference must match the value of the pds:local_identifier of an Array class or sub-class within the File_Area. 2. Display_Dictionary: In the pds:Local_Internal_Reference class, the value of the pds:local_reference_type must be 'display_settings_to_array'. 3. Display Dictionary: If the Display_Direction class is in the label, it must be contained in a Display_Settings class.

Test ID	IM.9
Issue ID	pds4-information-model#443
Issue Type	Requirement
Issue Description	CCB-339: add Units_of_Power with SI watts as option
Comments	Utilize test data at https://github.com/NASA-PDS/pds4-information-
	model/files/8308709/Archive.zip
Test Plan	Retrieve latest SNAPSHOT archive of the validate tool:
	Execute the following:
	1. validate -t badtype.xml
	2. validate -t shouldpass.xml
	The former file should fail. The latter file should pass.
	This passes if both conditions are met.

Test ID	IM.10
Issue ID	pds4-information-model#453
Issue Type	Requirement
Issue	CCB-335: Inventory Specification Allows Too Many Delimiters
Descriptio	
n	
Comments	This is a one-time fix not suitable for regression placement.
	Use test data available at:
	https://pds.nasa.gov/pds4/pds/v1/PDS4_PDS_1I00.sch (latest)
	and
	https://pds.nasa.gov/pds4/pds/v1/PDS4_PDS_1H00.sch (previous)
Test Plan	1. Execute 'diff -Bb PDS4_PDS_1H00.sch PDS4_PDS_1I00.sch'
	2. Verify:
	a. Limit Inventory.field_delimiter to one and only one value
	"Comma"

b.	Require XML attribute unit="byte" in both instances of
	Inventory.Record_Delimited.Field_Delimited.maximum_field_le
	ngth
c.	Expand permissible value list to "LID", "LIDVID", and
	"LIDVID_LID" in
	Inventory.Record_Delimited.Field_Delimited.name
d.	Prohibit inclusion of Inventory. Uniformly Sampled (for example,
	by setting its cardinality to 00)

Test ID	IM.11
Issue ID	pds4-information-model#448
Issue Type	Requirement
Issue Description	CCB-343: Revise Product_Metadata_Supplemental
Comments	These tests use:
	PDS4 Information Model Specification at
	https://pds.jpl.nasa.gov/datastandards/documents/im/current/index_1I
	<u>00.html</u> (latest)
	https://pds.jpl.nasa.gov/datastandards/documents/im/current/index_1H
	<u>00.html</u> (previous)
Test Plan	1. Open
	https://pds.jpl.nasa.gov/datastandards/documents/im/current/in
	dex_1I00.html#attribute_pds_internal_reference_pds_referenc
	e_type
	and
	https://pds.jpl.nasa.gov/datastandards/documents/im/current/in
	dex_1H00.html#attribute_pds_internal_reference_pds_referen
	ce_type
	2. For the 'Extended Values for:
	pds:Product_Observational/pds:Reference_List/pds:Internal_R
	eference':
	a. Verify that 'data_to_partially_processed_product' is in
	the 1I00 version
	b. Verify that 'data_to_partially_processed_product' is
	NOT in the 1H00 version

Test ID	IM.12
Issue ID	pds4-information-model#446
Issue Type	Requirement
Issue Description	CCB-344: Add data_to_partially_processed_product to reference
	types for Internal_Reference
Comments	Use data files tagged ccb-344 on PDS-INT.
Test Plan	1. diff ccb344a.xml ccb344b.xml
	86c86

```
<reference type>data to partially processed product</ref
erence type>
     <reference type>data to xxxxxxx</reference type>
validate -x PDS4 PDS 1I00.xsd -S PDS4 PDS 1I00.sch -
t ccb344a.xml
RESULT: PASS
validate -x PDS4 PDS 1I00.xsd -S PDS4 PDS 1I00.sch -
t ccb344b.xml
RESULT: FAIL
PDS Validate Tool Report
Configuration:
 Version
                       2.1.5-SNAPSHOT
 Date
                     2022-03-20T07:30:13Z
Parameters:
 Targets
[file:/Users/rchen/Desktop/test/ccb344b.xml]
 User Specified Schemas
[file:/Users/rchen/Desktop/test/PDS4 PDS 1I00.xsd]
 User Specified Schematrons
[file:/Users/rchen/Desktop/test/PDS4 PDS 1I00.sch]
 Severity Level
                         WARNING
 Recurse Directories
                           true
 File Filters Used
                         [*.xml, *.XML]
 Data Content Validation
                             on
 Product Level Validation
                             on
                        100000
 Max Errors
 Registered Contexts File
/Users/rchen/PDS4tools/validate/resources/registered cont
ext products.json
Product Level Validation Results
 FAIL: file:/Users/rchen/Desktop/test/ccb344b.xml
   ERROR [error.label.schematron] line 84, 25: The
attribute reference type must be set to one of the following
values 'data to associate', 'data to resource',
'data to calibration document',
'data to calibration product', 'data to raw product',
'data to calibrated product', 'data to derived product',
'data to geometry', 'data to spice kernel',
'data to thumbnail', 'data to document',
'data curated by node', 'data to browse',
'data to ancillary data',
'data to partially processed product'.
    1 product validation(s) completed
Summary:
```

2.

3.

Product Validation Summary: 0 product(s) passed 1 product(s) failed 0 product(s) skipped Referential Integrity Check Summary: 0 check(s) passed 0 check(s) failed 0 check(s) skipped
÷ ` ' '
1 \ / 11
0 check(s) passed
0 check(s) failed
0 check(s) skipped
Message Types:
1 error.label.schematron
End of Report
Completed execution in 3576 ms

Test ID	IM.13
Issue ID	pds4-information-model#450
Issue Type	Requirement
Issue Description	CCB-340 : <local internal="" reference="">.<local identifier="" reference=""></local></local>
_	cardinality
Comments	These tests use:
	PDS4 Information Model Specification at
	https://pds.jpl.nasa.gov/datastandards/documents/im/current/index_1I
	<u>00.html</u> (latest)
	https://pds.jpl.nasa.gov/datastandards/documents/im/current/index_1H
	<u>00.html</u> (previous)
	PDS4 Information Model Specification at
	https://pds.nasa.gov/datastandards/documents/dph/current/PDS4_Data
	ProvidersHandbook_1.18.0.pdf (latest)
	and
	https://pds.nasa.gov/datastandards/documents/dph/current/PDS4_Data
	ProvidersHandbook 1.17.0.pdf (previous)
Test Plan	1. Open
	https://pds.jpl.nasa.gov/datastandards/documents/im/current/in
	dex_1I00.html#10.26%C2%A0%C2%A0class_pds_local_inte
	rnal_reference
	and
	https://pds.jpl.nasa.gov/datastandards/documents/im/current/index_1H
	00.html#10.26%C2%A0%C2%A0class_pds_local_internal_reference
	2. For the 'local_identifier_reference':
	a. Verify that 'card' column reflects a cardinality of '1*' in the
	1I00 version
	b. Verify that 'card' column reflects a cardinality of '1' in the
	1I00 version

3.	Open
	https://pds.nasa.gov/datastandards/documents/dph/current/PDS
	4 DataProvidersHandbook 1.18.0.pdf
4.	Verify that 'Appendix F' contains the following text: 'In
	Local_Internal_Reference the required attribute,
	local_identifier_reference, has a cardinality of [1,*]. This
	means that an instance of Local_Internal_Reference may refer
	to multiple objects within the label, providing that the
	association specified by the required local_reference_type is
	the same for each of those objects.'

Test ID	IM.14
Issue ID	pds4-information-model#455
Issue Type	Bug
Issue Description	PDS4_PDS_1I00.sch has two bugs regarding CCB-339
Comments	
Test Plan	TBD

Test ID	IM.15
Issue ID	pds4-information-model#434
Issue Type	Bug
Issue Description	ASCII_Date_Time_* do not sufficiently check valid days of a month or second
Comments	
Test Plan	TBD

PLAID

Test ID	PLAID.1
Issue ID	PLAID#32
Issue Type	bug
Issue Description	Base image used by APPS PLAID is not supported
Comments	
Test Plan	build the application as described in the README
	https://github.com/NASA-PDS/PLAID/blob/main/deployment-
	docs/development.md
	And check that there is no vulnerability in the build docker image

Test ID	PLAID.2
Issue ID	PLAID#30
Issue Type	Requirement
Issue Description	Revise Docker and deployment docs for open source access

Comments	
Test Plan	Validate document for spining up docker containers for dev and ops.

Test ID	PLAID.3
Issue ID	Portal-tasks#16
Issue Type	Enhancement
Issue Description	Document processes for deploying PLAID
Comments	Same test as PLAID#30
Test Plan	Validate document

Portal-tasks

1 Ortal tasks	
Test ID	PORTAL.1
Issue ID	Portal-tasks #10
Issue Type	bug
Issue Description	DD Search and Tool Registry not working on pdscloud-gamma
Comments	
Test Plan	Check DD Search and Tool Registry @
	https://pds-gamma.jpl.nasa.gov/
	DD search
	https://pds-gamma.jpl.nasa.gov/tools/dd-search/
	Tool Registry
	https://pds-gamma.jpl.nasa.gov/tools/tool-registry/

Test ID	PORTAL.2
Issue ID	Portal-tasks #6
Issue Type	bug
Issue Description	links not working on data dictionary pages
Comments	
Test Plan	Check data dictionary links in
	https://pds.nasa.gov/datastandards/dictionaries/index-
	1.17.0.0.shtml#ml

Test ID	PORTAL.3
Issue ID	Portal-tasks #19
Issue Type	bug
Issue	viewBundle not working properly for DOI search logic
Description	
Comments	
Test Plan	Searching
	https://pds.nasa.gov/tools/doi/#/search/urn:nasa:pds:insight_cameras::1.0
	Should return https://pds.nasa.gov/ds-
	<u>view/pds/viewBundle.jsp?identifier=urn:nasa:pds:insight_cameras&version=1.0</u>

Test ID	PORTAL.4
Issue ID	Portal-tasks #3
Issue Type	Enhancement
Issue Description	improvement on citing page
Comments	
Test Plan	Check https://pds-gamma.jpl.nasa.gov/datastandards/citing/

registry-api/ registry-api-service

	·
Test ID	REG-API.1
Issue ID	registry-api#73
Issue Type	bug
Issue Description	blob/json_blob should not be included in default response
Comments	
Test Plan	Test with this request for example:
	curllocationrequest GET 'http://localhost:8080/bundles'header 'Accept: application/kvp+json'
	Expected behavior: The blob should not be available in default responses so to improve the performance and not to confuse the users.

Test ID	REG-API.2
Issue ID	registry-api #102
Issue Type	bug
Issue Description	add ops:Tracking_Meta/ops:node_name and
	ops:Tracking_Meta/ops:harvest_date_time to meta section of API
	response
Comments	
Test Plan	Check api response with
	"meta": {
	"ops:Tracking_Meta":
	{
	"ops:node_name": "PSA",
	"ops:harvest_date_time": "1999-01-01T00:00:00Z"
	}

Test ID	REG-API.3
Issue ID	registry-api-service#102
Issue Type	bug
Issue Description	when fields are selected in the 'application/kvp+json' format some extra fields are found
Comments	

Query api with selected fields, choose application/kvp+json' as respond format.
Only selected fileds should be return in the response.

Test ID	REG-API.4
Issue ID	registry-api-service#97
Issue Type	bug
Issue Description	Revert ES High Level Java API version 7.13.3
Comments	not to be tested, this development is obsolete.
Test Plan	Skip

Test ID	REG-API.5
Issue ID	registry-api-service#87
Issue Type	bug
Issue Description	service is not handling value of ES login correctly
Comments	
Test Plan	Follow instructions https://github.com/NASA- PDS/registry/tree/main/docker on using profile `int-registry-batch-loader`
	, , , , , , , , , , , , , , , , , , , ,

Test ID	REG-API.6
Issue ID	registry-api-service#88
Issue Type	bug
Issue Description	api should handle request with no Accept header
Comments	
Test Plan	curllocationrequest GET 'http://localhost:8080/products?only-
	summary=True' -v
	should use the default format proposed (application/json)

T. ID	DEC ADIS
Test ID	REG-API.7
Issue ID	registry-api-service#85
Issue Type	bug
Issue Description	AWS target groups created in terraform do not have intended targets
Comments	
Test Plan	 Run the ecs.tf in terraform (through the standard terraform init/apply). Open the AWS Console, go to EC2 -> Target Groups Select the new target group, opening the 'Target' tab Notice there are no Targets.

Test ID	REG-API.8
Issue ID	registry-api-service#103
Issue Type	bug
Issue Description	All the supported format don't show in the swagger-ui

Comments	
Test Plan	Check Response Content type in swagger-ui

Test ID	REG-API.9
Issue ID	registry-api-service#79
Issue Type	bug
Issue Description	simple url requested in a browser generate a 500 error
Comments	
Test Plan	https://pds-gamma.jpl.nasa.gov/api/products?limit=100&only-
	summary=false
	in chrome should return valid json format response.

Registry-common

11-01-17	
Test ID	REG-COM.1
Issue ID	registry-common#20
Issue Type	bug
Issue Description	Missing support for datetime conversion for
	ASCII_Date_Time_DOY_UTC.
Comments	https://cae-testrail.jpl.nasa.gov/testrail/index.php?/cases/view/1057653
Test Plan	1. download test data from https://atmos.nmsu.edu/
	 2. create config file pointing path to data_calibrated_env 3. rm -rf /tmp/harvest 4. harvest -c reg-comm20.cfg > reg-comm20.log
	5. ll /tmp/harvest/out
	6. registry-manager load-data -dir /tmp/harvest/out
	Expected behavior:
	Registry manager runs successfully without warning message

Registry-mgr

Test ID	REG-MGR.1
Issue ID	registry-mgr#43
Issue Type	bug
Issue Description	Improve error message for corrupted registry_docs.json
Comments	
Test Plan	Take any valid registry_docs.json, make it invalid JSON, and try to ingest with registry manager More clear error message that the JSON is invalid, most likely due to a file system issue. Either direct the user to documentation for debugging (if it exists?), or just not they should re-run harvest.

Test ID	REG-MGR.2
Issue ID	registry-mgr#31
Issue Type	Enhancement
Issue Description	Update registy-mgr to use schema from schemaLocation in file
Comments	
Test Plan	Registry-mgr should find schema defined in the schemaLoation field:
	<pre><product_bundle <="" pre="" xmlns="http://pds.nasa.gov/pds4/pds/v1"></product_bundle></pre>
	xmlns:pds="http://pds.nasa.gov/pds4/pds/v1"
	xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
	xsi:schemaLocation="http://pds.nasa.gov/pds4/pds/v1
	https://pds.nasa.gov/pds4/pds/v1/PDS4_PDS_1B10.xsd">

software-issues-repo

Test ID	SOFTWARE.1
Issue ID	software-issues-repo#15
Issue Type	task
Issue Description	Generate Draft B12.0 RDD
Comments	
Test Plan	https://nasa-pds.github.io/releases/12.0/rdd.html

Test ID	SOFTWARE.2
Issue ID	software-issues-repo#16
Issue Type	task
Issue Description	Final testing and delivery to I&T
Comments	
Test Plan	SKIP

Test ID	SOFTWARE.3
Issue ID	software-issues-repo#19
Issue Type	bug
Issue Description	viewHostProfile.jsp never returns useful information
Comments	
Test Plan	Check https://pds.nasa.gov/ds-
	view/pds/viewHostProfile.jsp?INSTRUMENT_HOST_ID=CO

template-repo-java

Test ID	JAVA.4
Issue ID	template-repo-java#9
Issue Type	bug
Issue Description	Update README to include more details similar to python template
	repo
Comments	
Test Plan	Check README in https://github.com/NASA-PDS/template-repo-
	java

Validate

Test ID	VAL.1
Issue ID	validate#388
Issue Type	requirement
Issue Description	Improve PDF/A validation to include more robust reporting on
	failures
Comments	Test data needs to be retrieved and uploaded from
	/home/qchau/sandbox/validate
Test Plan	1. Download test data from https://github.com/NASA-
	PDS/validate/tree/main/src/test/resources/github388
	2. Execute 'validate -R pds4.label -r
	report_github388_label_invalid.json -s json -t
	src/test/resources/github388/pixl_edr_sis_bad.xml'
	3. Perform grep to ensure that a message on the
	'pixl_edr_sis_bad.pdf' does not contain "messageType":
	"warning.pdf.file.not_pdfa_compliant" and does not contain
	pixl_edr_sis_bad.pdf is not valid PDF/A file.

Test ID	VAL.2
Issue ID	validate#412
Issue Type	Task
Issue Description	Update PDF validation to check against flavor specified in PDF
	metadata
Comments	Need test PDFs: (1) PDF/A (1a); (2) PDF/A (2a); (3) PDF/A (3a)
	[should fail]; (4) PDF/X (any) [should fail]
	NOTE: Can be combined with validate#388
Test Plan	1. Download test data from https://github.com/NASA-
	PDS/validate/tree/main/src/test/resources/github412
	2. Testing options:
	a. Four tests:
	validate -t (1), (2)
	validate -t (3), (4)
	b. Write custom labels and run against a single file to
	validate all four test PDFs.
	3. For (1) and (2) verify there are no errors. For (3) and (4)
	Verify that there are errors.

Test ID	VAL.3
Issue ID	validate#423
Issue Type	bug
Issue Description	Validate does not allow a single-character subdirectory
Comments	NOTE: This test has been completed and is now a regression.

	Unpack test data from https://github.com/NASA-PDS/validate/files/7393508/gbo.ast.alcdef-database-v1.0-20211021.zip
Test Plan	 Unpack provided test data Execute validate -t gbo.ast.alcdef-database_v1.0_20211021_aip_v1.0.xml,gbo.ast.alcdef-database_v1.0_20211021_sip_v1.0.xml Verify that the following error is no longer in output: 'The directory spec '/data/1/' does not match the pattern '/?([A-Za-z0-9][A-Za-z0-9]-]*[A-Za-z0-9]/?)*'

Test ID	VAL.4
Issue ID	validate#424
Issue Type	bug
Issue Description	Validate does not allow SIP tab file to have lines of differing lengths
Comments	NOTE: This test has been completed and is now a regression.
	Utilize data previously unpacked into https://github.com/NASA-
	PDS/validate/tree/main/src/test/resources/github424
Test Plan	Run the following command:
	validate -t
	asurpif_photos_amboycrater_v1.0_20211021_aip_v1.0.xml,asurpif_p
	hotos_amboycrater_v1.0_20211021_sip_v1.0.xml
	The ERROR should no longer exist in output: ERROR
	[error.table.record_length_mismatch] table 1: File that ends with .tab
	should have same record length.

Test ID	VAL.5
Issue ID	validate#447
Issue Type	bug
Issue Description	Validate does not correctly pass PDF/A files that are in a subdirectory
Comments	Utilize data previously unpacked into https://github.com/NASA-
	PDS/validate/tree/main/src/test/resources/github447
Test Plan	Run 'validate -r report_github447_valid_3.json -s json -t
	src/test/resources/github447/document'. # directory, not target
	Pass: Examine results to ensure that '"status": "PASS"' for individual
	files in the directory.

Test ID	VAL.6
Issue ID	validate#390
Issue Type	Bug
Issue Description	validate does not flag *.tab files with variable length records
Comments	Utilize data previously unpacked into https://github.com/NASA-
	PDS/validate/tree/main/src/test/resources/github390
Test Plan	Run 'validate -t collection_calib_freq.xml'

Pass: Ensure that an error is reported that *.tab files must have fixed-
length fields.

Test ID	VAL.7
Issue ID	validate#461
Issue Type	Bug
Issue Description	[SECURITY] Patch log4j library
Comments	This is a one-time fix not suitable for regression placement.
Test Plan	Clone the validate repo at https://github.com/NASA-PDS/validate
	Examine the pom.xml file to ensire log4j2 version is greater than or
	equal to 2.17.1.
	Verify you are using Java 11 with java -version and that the Maven
	subsystem is configured properly with the PDS settings.xml file.
	Run 'mvn clean install'

Test ID	VAL.8
Issue ID	validate#376
Issue Type	Bug
Issue Description	Checksums output lowercase and do not accept uppercase checksums
Comments	Utilize data previously unpacked into https://github.com/NASA-
	PDS/validate/tree/main/src/test/resources/github376
Test Plan	Execute 'validate -t readme.txt -M d41d8cd98f00b204e9800998ecf8427e -r report.txt -R pds4.bundle' Pass: The string 'ERROR [error.label.checksum_mismatch] Generated checksum' does not appear in output.

Test ID	VAL.9
Issue ID	validate#439
Issue Type	Bug
Issue Description	Incorrect Warning for Missing document_standard_id is Stream_Text.
Comments	Use test data bundle at https://github.com/NASA-
	PDS/validate/files/7499249/stream_text.tar.gz
Test Plan	Run 'validate -R pds4.label -r report_github439_label_valid.json -s
	json -t src/test/resources/github439/stream_text.xml'
	On examining outputs, there should be no warnings.
	Pass: The results show "PASS" and no "WARNING" messages.

Test ID	VAL.10
Issue ID	validate#419
Issue Type	Bug
Issue Description	validate 2.2.0-SNAPSHOT warns about a pretty benign bundle +
	readme.txt
Comments	NOTE: This test has been completed and is now a regression.

	Utilize data previously unpacked into https://github.com/NASA-PDS/validate/tree/main/src/test/resources/github419
Test Plan	Run the following command: validate -t bug/bundle_astromat_chem.xml The WARNING [warning.file.not_text_mimetype] no longer exists in output.

Test ID	VAL.11
Issue ID	validate#408
Issue	Bug
Type	
Issue	Validate 2.1.0-SNAPSHOT skips a collection XML label
Descripti	
on	
Commen	Utilize data previously unpacked into https://github.com/NASA-
ts	PDS/validate/tree/main/src/test/resources/github408
Test Plan	Execute 'validate -R pds4.bundle -r report_github408_bundle_valid.json -s json -t
	src/test/resources/github408/valid/bundle_insight_seis.xml'
	Verify that ' <version_id>10.0</version_id> ' is in the output, the output passes and
	version 9 is skipped with the message "Skipping
	file:/home/qchau/sandbox/validate/src/test/resources/github408/valid/data/collectio
	n_data_seed_2.xml due to collection not latest or does not sharing the same
	logical identifier as the bundle target".

Test ID	VAL.12
Issue ID	validate#411
Issue	Bug
Type	
Issue	Validate repo cannot be checked out on Windows without errors
Descripti	
on	
Commen	Use test data bundle at https://github.com/NASA-
ts	PDS/validate/files/7226301/validate.zip which is part of https://pds-
	geosciences.wustl.edu/insight/urn-nasa-pds-insight seis/data/.
Test	Execute 'validate -R pds4.bundle -r report_github408_bundle_valid.json -s json -t
Plan	src/test/resources/github408/valid/bundle_insight_seis.xml'
	Verify that
	'file:/home/qchau/sandbox/validate/src/test/resources/github408/valid/data/collecti
	on_data_seed_2.xml' is not reported as "status": "SKIP"'

Test ID	VAL.13
Issue ID	validate#435
Issue Type	Bug
Issue	Array Content Validator is not accepting values at the min/max due to false
Description	precision

Comments	Utilize data previously unpacked into https://github.com/NASA-PDS/validate/tree/main/src/test/resources/github435
Test Plan	Run the following command: 'validate -R pds4.label -r
	report_github435_label_valid.json -s json -t
	src/test/resources/github435/flat_w.xml'
	Check results for a status of 'PASS' for the label
	'file:/home/qchau/sandbox/validate/src/test/resources/github435/flat_w.xml'

Test ID	VAL.14
Issue ID	validate#441
Issue Type	Bug
Issue Description	Validate is reporting a 'String index out of range' error for a text file
Comments	Utilize test data at https://github.com/NASA-
	PDS/validate/files/7507136/validate_bug.zip
Test Plan	Run 'validate -t bundle_insight_rise_raw.xml -r validate_report_3.txt'
	Run 'validate -R pds4.label -t bundle_insight_rise_raw.xml -r
	validate_report_2.txt'
	Verify that the both executions pass with the 'PASS: file:' and '0
	error(s)' in the output.

Test ID	VAL.15
Issue ID	validate#349
Issue Type	Bug
Issue Description	validate allows absolute path in directory_path_name but shouldn't
Comments	NOTE: This test has been completed and is now a regression.
	Utilize data previously unpacked into https://github.com/NASA-
	PDS/validate/tree/main/src/test/resources/github349
Test Plan	SETUP: ensure test data directory named 01 is directly above test data
	dirs.
	- cd valid and verify ls/01 produces results
	- Execute validate -t datasetgood.xml
	- cd invalid
	For valid there should be no error.
	For invalid, an error should complain about the absolute dir path
	which is unallowed.

Test ID	VAL.16
Issue ID	validate#470
Issue Type	Bug
Issue Description	Fix validate compilation issues due to removal of veraPDF artifacts
	from maven central
Comments	This is a one-time fix not suitable for regression placement.
Test Plan	Clone the validate repo at https://github.com/NASA-PDS/validate
	Verify you are using Java 11 with java -version and that the Maven
	subsystem is configured properly with the PDS settings.xml file.
	Run 'mvn clean install'

There should be no errors related to
'org.verapdf.pdfbox:pdfbox:jar:2.0.44' missing and a successful build
message should be displayed.

Test ID	VAL.17
Issue ID	validate#469
Issue Type	Bug
Issue Description	Validate content validation does not properly handlespecial_constants
	and field_statistics when they both appear
Comments	Utilize test data at https://github.com/NASA-
	PDS/validate/files/8016970/201401031400_rdr.xml.txt and
	https://github.com/NASA-
	PDS/validate/files/8016971/201401031400_rdr.zip.
Test Plan	Run 'validatestrict-field-checks -t 201401031400_rdr.xml,
	201401031400_rdr.tab'
	There should be no errors related to field statistics.

Test ID	VAL.18
Issue ID	validate#421
Issue Type	Enhancement
Issue Description	Improve warning message
Comments	https://github.com/NASA-
	PDS/validate/tree/main/src/test/resources/github421
Test Plan	Unpack test data
	Run 'validate -R bundle_moon_lro_lroc_boulderdata_watkins_2018.xml
	-t <bundle_dir>'</bundle_dir>
	Note that the warning reads as follows: 'WARNING
	[warning.integrity.missing_context_reference] This file should reference
	'urn:nasa:pds:context:investigation:mission.lunar_reconnaissance_orbiter'
	because its child product with LIDVID
	':document:watkins_2018_boulderdata_archive_description::1.0'
	references it.'