

Release Build B12.0 Test Plan

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Tools installation and configuration

Testing for Release Build B12.0 will be performed on Mac OS, Linux and Windows 10 Pro. PDS tools from previous build will be uninstalled, 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://nasa-pds.github.io/pds-doi-service/installation/index.html
Test Plan	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Verify/Install Required software. • Download current release • Follow config steps • Verify installation

Test ID	INT.3
Issue Description	Registry-API-SERVICE installation and configuration
Comments	Follow Installation manual page: https://github.com/NASA-PDS/registry-api-service#readme
Test Plan	<ul style="list-style-type: none"> • Verify/Install Required software. • Download current release: https://github.com/NASA-PDS/registry-api-service/releases/tag/v0.4.0-SNAPSHOT • Follow build steps • Verify installation

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	<ul style="list-style-type: none"> • Verify/Install Required software. • Install tool using pip • 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	<ul style="list-style-type: none"> • Verify/Install Requirements. • Download and unpack current version • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Verify/Install Requirements. • Download and unpack current version • Follow config steps • Verify installation

Software Changes

Pds Registry Harvest

Test ID	HAR.1
Issue ID	Harvest#60
Issue Type	Requirement
Issue Description	As a user, I want to ingest the PDS4 label as JSON in a binary blob form
Comments	Need documentation
Test Plan	Given an ingested PDS4 product When I perform an API query for that product using the endpoint /products/{lidvid} Then I expect the response to in json format

Test ID	HAR.2
Issue ID	Harvest#55
Issue Type	Enhancement
Issue Description	Quick fix to support date/time conversion to “ISO instant” format
Comments	
Test Plan	Test sample configuration in ../harvest-3.3.1/conf/examples/" folder.

Test ID	HAR.3
Issue ID	Harvest#58
Issue Type	Enhancement
Issue Description	Enable blob ingestion by default
Comments	
Test Plan	Inspect source code. Inpsect default configuration file of harvest

PDS-API

Test ID	API.1
Issue ID	Pds-api#67
Issue Type	Requirement
Issue Description	As an API user, I want to access supplemental metadata from Product Metadata Supplemental.
Comments	
Test Plan	Query API for product X, expect the response to include the metadata from the record in Product metadata supplemental.

Test ID	API.2
Issue ID	Pds-api#80
Issue Type	Requirement
Issue Description	As a developer, I never want the label blob to be returned.
Comments	
Test Plan	Query API for product X, expect to return the associated metadata product, but NOT the blob.

Test ID	API.3
Issue ID	Pds-api#91
Issue Type	Enhancement
Issue Description	Disable XML and HTML responses from current registry-api-service implementation
Comments	
Test Plan	Use Postman to send a Get from https://pds-gamma.jpl.nasa.gov/api/products Expect the result to be in json format.

Test ID	API.4
Issue ID	Pds-api#101
Issue Type	Requirement
Issue Description	As a user, I want to receive a JSON response that contains the PDS4 label metadata in JSON format (application/pds4+json)
Comments	
Test Plan	Use postmane to send a Get to https://pds-gamma.jpl.nasa.gov/api/products/urn:nasa:pds:insight_documents:document_mission::1.1 Expect the result to contain the PDS4 label in json format.

Test ID	API.5
Issue ID	Pds-api#105
Issue Type	Requirement
Issue Description	As an API user, I want to know how long a request took to complete.
Comments	
Test Plan	Response should have a new “took” key.

Test ID	API.6
Issue ID	Pds-api#56
Issue Type	Requirement
Issue Description	As an API user, I want to know the children and ancestors of bundle, collections, and products.
Comments	Parent issue.
Test Plan	

Test ID	API.7
Issue ID	Pds-api#59
Issue Type	Requirement
Issue Description	As an API user, I want to know the Product(s) that belong to a given Bundle..
Comments	
Test Plan	GET /bundles/{lidvid}/products The he API to return the primary product(s) AND any secondary product(s) for that bundle.

Test ID	API.8
Issue ID	Pds-api#60
Issue Type	Requirement
Issue Description	As an API user, I want to know the Bundle for a given Product.
Comments	
Test Plan	GET /products/{lidvid}/bundles.

Test ID	API.9
Issue ID	Pds-api#61
Issue Type	Requirement
Issue Description	As an API user, I want to know the Collection(s) for a given Product.
Comments	
Test Plan	GET /products/{lidvid}/collections. expect the API to return the primary collection (there should be only 1) AND any secondary collections (could be many) the product belongs to

Test ID	API.10
Issue ID	Pds-api#62
Issue Type	Requirement
Issue Description	As an API user, I want to know the Bundle for a given Collection.
Comments	
Test Plan	Given I have a Collection LID OR LIDVID When I perform an API query by that LIDVID for its parent bundle(s) Then I expect the API to return the primary bundle (there should be only 1) AND any secondary bundle(s) (could be many) the Collection belongs to.

Test ID	API.11
Issue ID	Pds-api#83
Issue Type	Requirement
Issue Description	As an API user, I want to search using URL parameters.
Comments	
Test Plan	Given a deployed API with data ingested When I perform a query against an API endpoint with <endpoint>?lidvid eq *my_lid* Then I expect the API to query the Registry for a lidvid that matches *my_lid*.

Test ID	API.12
Issue ID	Pds-api#99
Issue Type	Requirement
Issue Description	As an API user, I want to be able to use the API for free text search.
Comments	read documentation.
Test Plan	https://pds-gamma.jpl.nasa.gov/api/products?start=0&limit=100&q=mars

Test ID	API.13
Issue ID	Pds-api#73
Issue Type	Defect
Issue Description	As a n00b paginator, there might be an off-by-1 error in the limit parameter.
Comments	Need documentation.
Test Plan	Run curl --silent --header 'Accept: application/json' 'https://pds-gamma.jpl.nasa.gov/api/collections/urn%3Anasa%3Apds%3Ainsight_documents%3Adocument_hp3rad%3A%3A8.0/products?start=0&limit=0&fields=ops%3AData_File_Info.ops%3Amd5_checksum&only-summary=false' json_pp

Test ID	API.14
Issue ID	Pds-api#68
Issue Type	Requirement
Issue Description	As an API user, I want to know in the response how many hits are returned for an API query.
Comments	
Test Plan	Same as pds-api#105

Test ID	API.15
Issue ID	Pds-api#95

Issue Type	Requirement
Issue Description	As a user, I want to query for all versions of a product.
Comments	
Test Plan	<p>Using the API server:</p> <p>Given a registry populated with multiple versions of a product When I perform a query to the products/{lid} endpoint by LID Then I expect to have the latest version of the product returned, only</p> <p>Given a registry populated with multiple versions of a collection When I perform a query to the collections/{lid} endpoint by LID Then I expect to have the latest version of the collection returned, only</p> <p>Given a registry populated with multiple versions of a bundle When I perform a query to the bundles/{lid} endpoint by LID Then I expect to have the latest version of the bundle returned, only</p> <p>Title calls for query for all version, but acceptance criteria says latest version only?</p>

Test ID	API.16
Issue ID	Pds-api#96
Issue Type	Requirement
Issue Description	As an API user, I want to get the latest version of a product, by default
Comments	<p>Acceptance Criteria</p> <p>Given a registry populated with multiple versions of a product When I perform a query to the products/{lid} endpoint by LID Then I expect to have the latest version of the product returned, only</p> <p>Given a registry populated with multiple versions of a collection When I perform a query to the collections/{lid} endpoint by LID Then I expect to have the latest version of the collection returned, only</p> <p>Given a registry populated with multiple versions of a bundle When I perform a query to the bundles/{lid} endpoint by LID Then I expect to have the latest version of the bundle returned, only</p>
Test Plan	<p>query to the products/{lid}</p> <p>query to the collections/{lid}</p> <p>query to the bundles/{lid}</p>

Test ID	API.17
Issue ID	Pds-api#107
Issue Type	Requirement
Issue Description	As an API user, I want to explicitly request the latest version of a product.
Comments	Acceptance Criteria

	<p>Given a registry populated with multiple versions of a product When I perform a query to the products/{lid}/latest endpoint by LID Then I expect to have the latest version of the product returned, only</p> <p>Given a registry populated with multiple versions of a collection When I perform a query to the collections/{lid}/latest endpoint by LID Then I expect to have the latest version of the collection returned, only</p> <p>Given a registry populated with multiple versions of a bundle When I perform a query to the bundles/{lid}/latest endpoint by LID Then I expect to have the latest version of the bundle returned, only.</p>
Test Plan	<p>query to the products/{lid}/latest</p> <p>query to the collections/{lid}/latest</p> <p>query to the bundles/{lid}/latest</p>

Test ID	API.18
Issue ID	Pds-api-client#6
Issue Type	Defect
Issue Description	Stack trace when calling BundlesApi.bundle_by_lidvid.
Comments	
Test Plan	<pre>\$ python3 -m venv venv \$ cd venv \$ bin/pip install --quiet --upgrade setuptools wheel pip \$ bin/pip install pds.api_client==0.6.0</pre>

Pds Deep Archive

Test ID	DEEP.1
Issue ID	pds-deep-archive#7
Issue Type	Defect
Issue Description	As a user, I want to generate AIPs and SIPs using Registry
Comments	Need more information
Test Plan	use pds.api_client with https://pds-gamma.jpl.nasa.gov/api/

Pds Doi Service

Test ID	DOI.1
Issue ID	pds-doi-service_119
Issue Type	task
Issue Description	Dev beta testing with API
Comments	
Test Plan	Run general testing steps for doi-services from doi-ui.

Test ID	DOI.2
Issue ID	pds-doi-service#187
Issue Type	requirement

Issue Description	As a SA, I want the operational deployment of the service to be secure
Comments	
Test Plan	Check https://pds-gamma.jpl.nasa.gov/does/ For basic authentication and deployment documentation is on: https://osr.jpl.nasa.gov/wiki/pages/viewpage.action?pageId=152502275

Test ID	DOI.3
Issue ID	pds-doi-service#163
Issue Type	enhancement
Issue Description	Dockerize API Service
Comments	
Test Plan	show documentation – README file

Test ID	DOI.4
Issue ID	pds-doi-service#177
Issue Type	requirement
Issue Description	As an API user I want to filter on lidvids with wildcards
Comments	
Test Plan	Run query using the ‘*’ or ‘?’ characters. When I do a GET /does request with parameter lidvid containing * or ?, anywhere in the string (start, middle, end) Then: I receive the matching DOIs according to the traditional unix wildcard management

Test ID	DOI.5
Issue ID	pds-doi-service#180
Issue Type	requirement
Issue Description	As an API user I want to filter on PDS3 Data Set IDs with wildcards
Comments	
Test Plan	Same as pds-doi-service#177

Test ID	DOI.6
Issue ID	pds-doi-service#188
Issue Type	Defect
Issue Description	As a user, I want to make sure I can not override existing DOI with new LIDVID.
Comments	
Test Plan	Create drafts with the same doi xml file, the server shouldn’t allow this action.

Test ID	DOI.7
Issue ID	pds-doi-service#192
Issue Type	requirement
Issue Description	As a user, I want the application to support the history of PDS’s DOIs, especially the one created for PDS3 products

Comments	
Test Plan	perform a query for a DOI with PDS3 Data Set ID as an identifier http://localhost:8085/PDS_APIs/pds_doi_api/0.1/does/LRO-L-MRFLRO-4-CDR-V1.0 expect the DOI record to be returned from the database

Test ID	DOI.8
Issue ID	pds-doi-service#103
Issue Type	requirement
Issue Description	As the PDS, I want to mint DOIs through DataCite
Comments	For more information on how to populate this new feature request, see the PDS Wiki on User Story Development: https://github.com/NASA-PDS/nasa-pds.github.io/wiki/Issue-Tracking#user-story-development
Test Plan	There are seven child issues. #137; #236; #175; #174; #172; #171; #204

Test ID	DOI.9
Issue ID	pds-doi-service#137
Issue Type	requirement
Issue Description	As an Administrator, I want to toggle the DOI service provider via the INI config
Comments	
Test Plan	Change the doi config file “pds_doi_service.ini” to use OSTI [SERVICE] # Should be set to DataCite (case-insensitive) provider = osti [OSTI] url = https://www.osti.gov/iad2test/api/records user = NASA-PDS password = Ef0\$d@v3-Ef0\$d@v3 [OTHER] logging_level=DEBUG

Test ID	DOI.10
Issue ID	pds-doi-service#236
Issue Type	requirement
Issue Description	Create Validator class for DataCite JSON Labels
Comments	Parent Issue
Test Plan	Test with child issues.

Test ID	DOI.11
Issue ID	pds-doi-service#175
Issue Type	requirement
Issue Description	As an operator, I want to update DOI metadata through DataCite

Comments	
Test Plan	<p>Given a DOI in draft state</p> <p>When I perform an update of the DOI metadata, and a follow-on query to verify the results</p> <p>Then I expect to see the DOI metadata has been updated</p> <p>Given a DOI in registered state</p> <p>When I perform an update of the DOI metadata, and a follow-on query to verify the results</p> <p>Then I expect to see the DOI metadata has been updated</p> <p>Given a DOI in findable state</p> <p>When I perform an update of the DOI metadata, and a follow-on query to verify the results</p> <p>Then I expect to see the DOI metadata has been updated</p>

Test ID	DOI.12
Issue ID	pds-doi-service#174
Issue Type	requirement
Issue Description	As an operator, I want to release a DOI through DataCite
Comments	
Test Plan	<p>Test with pds-doi-api server</p> <p>Given DOI in a draft state</p> <p>When I perform The release action</p> <p>Then I expect The DOI to be published and available online, indicating the DOI has entered the DataCite <code>findable</code> state.</p>

Test ID	DOI.13
Issue ID	pds-doi-service#172
Issue Type	requirement
Issue Description	As an operator, I want query for one or more minted DOIs from DataCite
Comments	
Test Plan	<ol style="list-style-type: none"> 1. Install doi-service 2. Configure doi-service to use DataCite in the config file. 3. query with doi-service <ol style="list-style-type: none"> a. pds-doi-cmd list

Test ID	DOI.14
Issue ID	pds-doi-service#171

Issue Type	requirement
Issue Description	As an operator, I want to reserve a DOI through DataCite
Comments	
Test Plan	<ol style="list-style-type: none"> 1. Install doi-service 2. Configure doi-service to use DataCite in the config file. 3. Reserve with doi-service <ol style="list-style-type: none"> a. pds-doi-cmd reserve -n eng -i doi5.csv -s"gchen@jpl.nasa.gov"

Test ID	DOI.15
Issue ID	pds-doi-service#204
Issue Type	requirement
Issue Description	Refactoring to have OSTI as a "module"
Comments	
Test Plan	Change the doi config file to use OSTI [SERVICE] # Should be set to DataCite (case-insensitive) provider = osti [OSTI] url = https://www.osti.gov/iad2test/api/records user = NASA-PDS password = Ef0\$d@v3-Ef0\$d@v3 [OTHER] logging_level=DEBUG

Test ID	DOI.16
Issue ID	pds-doi-service#191
Issue Type	defect
Issue Description	API accepts Reserve submissions with invalid LIDVIDs
Comments	
Test Plan	<ol style="list-style-type: none"> 1. Fill in Excel template with reserve information 2. Connect to the API with <code>ssh -L 8085:localhost:8080 pds-dev3</code>, start local instance of DOI UI with <code>npm start</code> from root folder of https://github.com/NASA-PDS/pds-doi-ui/tree/search-metadata (currently not merged into master branch), and go to <code>localhost:3000</code> in your browser 3. Click on 'Reserve' in the top right 4. Upload file from step 1, fill in or select values for Submitter Email and Node, and click 'Reserve' button at bottom 5. If submission is successful (message with green background), click header 'DOI Reserve And Release' to see table of all items; your submitted item should be on top. OR go to http://localhost:8085/PDS_APIs/pds_doi_api/0.1/does for full list and use Cmd/Ctrl + F to find your entry.

Test ID	DOI.17
Issue ID	pds-doi-service#220
Issue Type	Enhancement
Issue Description	CI does not work on main branch for dev release
Comments	
Test Plan	See action https://github.com/NASA-PDS/pds-doi-service/runs/2955493255?check_suite_focus=true

Test ID	DOI.18
Issue ID	pds-doi-service#247
Issue Type	Enhancement
Issue Description	Fix test failure with flask_testing module
Comments	
Test Plan	See https://github.com/NASA-PDS/pds-doi-service/runs/3664070311?check_suite_focus=true#step:6:121

Test ID	DOI.19
Issue ID	pds-doi-service#165
Issue Type	Enhancement
Issue Description	Add service to API for update of the status of records with OSTI
Comments	<ul style="list-style-type: none"> • See command usage: https://nasa-pds.github.io/pds-doi-service/usage/index.html#check • This end point is documented on the API server (http://localhost:8080/PDS_APIs/pds_doi_api/0.1/ui/)
Test Plan	An API end-point enable to request the check command function which will update a newly released OSTI record from pending to released status pds-doi-cmd check [-h] [-e] [-a] [-r "my.email@node.gov"]

Test ID	DOI.20
Issue ID	pds-doi-service#167
Issue Type	Enhancement
Issue Description	As a user, I want to see the lidvid of my DOIs in the email report
Comments	
Test Plan	When a status update report is sent by email pds-doi-cmd check [-h] [-e] [-a] [-r "my.email@node.gov"] Then The received email contains the lidvid of the updated DOIs

Test ID	DOI.20
Issue ID	pds-doi-service#183
Issue Type	requirement
Issue Description	As a user of the API, I want to see the DOI's title when I go GET /dois request
Comments	
Test Plan	perform GET /dois on the API

	expect to get the 'title' attribute for each doi is the result.
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Test ID	DOI.21
Issue ID	pds-doi-service#184
Issue Type	requirement
Issue Description	As an API user, I want to always have an update date for the DOIs
Comments	
Test Plan	perform GET /dois on the API expect to see a valid update date, the update date should be equal to the creation date in this case.

Test ID	DOI.22
Issue ID	pds-doi-service#198
Issue Type	requirement
Issue Description	As a user, I want to use the API with ids containing a slash (/)
Comments	pds-doi-ui client will encode all / characters as * and pass to DOI service
Test Plan	Given a PDS3 dataset with an Id containing a / When I perform get DOI description Then I expect to get the result Given a PDS3 dataset with an Id containing a / When I perform update the DOI description Then I expect the result is updated Given a PDS3 dataset with an Id containing a / When I perform release the DOI Then I expect the updated DOI is released

Test ID	DOI.23
Issue ID	pds-doi-service#228
Issue Type	requirement
Issue Description	As an administrator of the application, I want to restrict access to API by specific referrer
Comments	
Test Plan	Given a deployment where authorized referrer is XXXX When I perform a curl request on the api with option --referer XXXX Then I expect I can access the API Given a deployment where authorized referrer is XXXX When I perform a curl request on the api with option --referer YYYY Then I expect I can not access the AP

Test ID	DOI.24
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Issue ID	pds-doi-service#162
Issue Type	Enhancement
Issue Description	Implement Application Server to wrap Flask service
Comments	
Test Plan	When the API server is started in command line, no message says that the current implementation is not suitable for a production environment.

Test ID	DOI.25
Issue ID	pds-doi-service#227
Issue Type	Enhancement
Issue Description	Update DOI service for handling existing DOIs acceptance criteria
Comments	
Test Plan	perform an attempted update of that DOI metadata expect to receive an error message that DOI does not exist

Test ID	DOI.26
Issue ID	pds-doi-service#229
Issue Type	Enhancement
Issue Description	As a user, I want to see the PDS3 ids as they originally are
Comments	
Test Plan	perform a search request with PDS3 dois having / in them expect the results do show their id with the original /

pds-doi-ui

Test ID	DOI-UI.1
Issue ID	pds-doi-ui#22
Issue Type	enhancement
Issue Description	Reserve DOI UI forms.
Comments	
Test Plan	1. Reserve xls spreadsheet using the 'reserve' form 2. After successful submission, there should be away to go back to the reserve form.

Test ID	DOI-UI.2
Issue ID	pds-doi-ui#35
Issue Type	Defect
Issue Description	As a SA, I don't want security vulnerabilities in the public UI
Comments	
Test Plan	When run npm install, there shouldn't be any vulnerabilities found.

Test ID	DOI-UI.3
Issue ID	pds-doi-ui#70
Issue Type	Defect
Issue Description	navigation issue when using the app bar

Comments	
Test Plan	The doi ui page should work or display a specific error message with redirection to a working page. Follow user's step in the video attach to the issue page.

Test ID	DOI-UI.4
Issue ID	pds-doi-ui#25
Issue Type	requirement
Issue Description	As a user, I want to search for a DOI and associated metadata by LID/LIDVID.
Comments	
Test Plan	Navigate the doi-ui searching form.

Test ID	DOI-UI.5
Issue ID	pds-doi-ui#34
Issue Type	requirement
Issue Description	As a user, I want to see the error/warnings messages on the same page from where they were raised.
Comments	
Test Plan	Create an error on reserve, and release form.

Test ID	DOI-UI.6
Issue ID	pds-doi-ui#41
Issue Type	requirement
Issue Description	As a user, I want to acquire a DOI for a PDS4 product prior to it's public release of the data.
Comments	
Test Plan	Given a draft PDS4 product, I want to get a DOI for the product prior to peer review When I perform a request to get a DOI for data that is not yet publicly available Then I expect the interface to prompt the user to "reserve a DOI" Then I expect the interface to prompt the user to input the expected metadata to reserve a DOI Then I expect to submit the required metadata to the DOI service Then I expect to receive a prompt as to whether or not the submissions was successful Then I expect to receive a prompt with the newly acquired DOI or information on how I will receive that information

Test ID	DOI-UI.7
Issue ID	pds-doi-ui#42
Issue Type	requirement
Issue Description	As a user, I want to acquire a DOI for a PDS4 product that has been registered and is publicly accessible

Comments	
Test Plan	<p>Given an PDS4 product that has been registered, a landing page exists, and the data is available publicly online When I perform a request to get a new DOI Then I expect to be prompted to "release a new DOI" Then I expect to be prompted to input the expected metadata to release a DOI Then I expect to submit the required metadata to the DOI service Then I expect to receive a notification as to the status of the request Then I expect a DOI to be displayed, or information on how I will receive that DOI Then I expect the information I entered to be saved in a draft state until it is released</p> <p>Given an PDS4 product that has not been registered, a landing page does not exist, or the data is not publicly accessible When I perform a request to get a DOI Then I expect to be prompted to "release a new DOI" Then I expect to be prompted to input the expected metadata to release a DOI Then I expect to submit the required metadata to the DOI service Then I expect to receive a prompt that the DOI request has failed do to the lack of landing page / public accessibility of the data. Then I expect the information I entered to be saved in a draft state until it is released</p>

Test ID	DOI-UI.8
Issue ID	pds-doi-ui#65
Issue Type	enhancement
Issue Description	As a user, I want my search criteria to persist in the URL.
Comments	
Test Plan	<p>Given a deployed DOI service with data ingested When I perform a search for a DOI like *insight* Then I expect the URL to include the API query parameters</p>

Test ID	DOI-UI.9
Issue ID	pds-doi-ui#71
Issue Type	enhancement
Issue Description	As a user, I want to have a dedicated favicon for the service.
Comments	
Test Plan	<p>Given a DOI UI service deployment When I perform a request on it in the browser Then I expect to see an dedicated icon in my browser tab</p>

Test ID	DOI-UI.10
Issue ID	pds-doi-ui#1

Issue Type	enhancement
Issue Description	Reserve DOI UI forms.
Comments	
Test Plan	<ol style="list-style-type: none"> 1. Reserve xls spreadsheet using the 'reserve' form 2. Check reserve statuses 3. Use DOI metadata to draft the DOI.

Test ID	DOI-UI.11
Issue ID	pds-doi-ui#9
Issue Type	enhancement
Issue Description	Return API error message in UI.
Comments	
Test Plan	send the same reserve request multiple time.

Test ID	DOI-UI.12
Issue ID	pds-doi-ui#10
Issue Type	enhancement
Issue Description	Provide a mean to come back to release action when on reserve screen.
Comments	
Test Plan	Navigate the app bar.

Test ID	DOI-UI.13
Issue ID	pds-doi-ui#48
Issue Type	enhancement
Issue Description	Enhancements per initial implementation of mockups.
Comments	
Test Plan	<p>Check the following in the UI:</p> <ul style="list-style-type: none"> • Change "Get URL" to "Upload Label" • Add "Upload Label" button next to text box • "Save" and "Submit for Review" buttons side-by-side • Add DOI(s) returned from Reserve step to output message • Update API requests per latest changes to https://miro.com/app/board/o9J_1F_ReJo= <ul style="list-style-type: none"> ○ Save button -> POST /dois with action=draft ○ Submit for Review button -> POST /dois with action=draft AND POST /dois/{lidvid}/submit to submit for review • Update "Nodes" dropdown to be "Node" (the dropdown contains all the nodes, but the user is inputting their Node)

Test ID	DOI-UI.14
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Issue ID	pds-doi-ui#49
Issue Type	enhancement
Issue Description	Add Feedback Widget to DOI UI.
Comments	
Test Plan	Check the UI.

Test ID	DOI-UI.15
Issue ID	pds-doi-ui#50
Issue Type	enhancement
Issue Description	Add additional help information throughout DOI UI.
Comments	
Test Plan	<p>Check the following in the UI:</p> <p>Add info (something like ⓘ) icons on following pages / sections with the following text:</p> <ul style="list-style-type: none"> • <i>Keywords text box - These keywords may be used to enable future discovery of these datasets. The auto-complete values are populated by the Unified Astronomy Thesaurus. Additional custom keywords may also be entered.</i> <ul style="list-style-type: none"> • while updating that, also update to have text completion lineup with the cursor in the text box • On <code>Create DOI</code> page, below "Ignore Warnings" checkbox, add text "Questions about process or information requested? See FAQs or contact the PDS Operator for assistance." For the FAQ page and email address, let's make sure we add the applicable icons to indicate they will be leaving the interface, and open in a new window.

Test ID	DOI-UI.16
Issue ID	pds-doi-ui#54
Issue Type	enhancement
Issue Description	Update Release and Update DOI pages to follow similar design as Create DOI page.
Comments	
Test Plan	Match the update DOI page and Update Release page to the screen shuts attached to the issue page.

Test ID	DOI-UI.17
Issue ID	pds-doi-ui#75
Issue Type	enhancement

Issue Description	Add link to landing page from <i>Identifier</i> column in search results.
Comments	
Test Plan	Check if there is a link in the Identifier column when the status = Registered.

Test ID	DOI-UI.18
Issue ID	pds-doi-ui#79
Issue Type	enhancement
Issue Description	Create javascript library for website integration.
Comments	??? Need more info
Test Plan	Skip

Test ID	DOI-UI.19
Issue ID	pds-doi-ui#82
Issue Type	enhancement
Issue Description	Create PDS React Component Library Process For NPM Packages.
Comments	??? Need more info.
Test Plan	Get the package and run Npm run build-library

Pds Registry App

Test ID	REG.1
Issue ID	pds-registry-app#153
Issue Type	requirement
Issue Description	As a developer, I want to extend the registry-mgr and harvest using the Java API
Comments	Documentation?
Test Plan	Check registry documentation

Test ID	REG.2
Issue ID	pds-registry-app#154
Issue Type	requirement
Issue Description	As a manager, I want the registry to have regression tests included in CI
Comments	? SKIP?
Test Plan	SKIP

Test ID	REG.3
Issue ID	pds-registry-app#163
Issue Type	defect
Issue Description	docker instructions in README.md are not working
Comments	Is this really a I&T task?
Test Plan	Follow build instructions in README.md

Test ID	REG.4
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Issue ID	pds-registry-app#12
Issue Type	requirement
Issue Description	As a registry user, I want to ingest supplemental metadata from Product Metadata Supplemental.
Comments	Parent Issue
Test Plan	User the API server to register the test files attached to the issue in github.

Test ID	REG.5
Issue ID	pds-registry-app#172
Issue Type	requirement
Issue Description	Create new app to load supplemental metadata into registry
Comments	Need documentation
Test Plan	SKIP

Test ID	REG.6
Issue ID	pds-registry-app#171
Issue Type	requirement
Issue Description	Change Harvest to store list of supplemental products in a file
Comments	
Test Plan	Check the harvest output file at <output directory>/supplemental.txt

Test ID	REG.7
Issue ID	pds-registry-app#130
Issue Type	requirement
Issue Description	As a node operator, I want to harvest and ingest a subset of a bundle based on existing registered data
Comments	see the PDS Wiki on User Story Development: https://github.com/NASA-PDS/nasa-pds.github.io/wiki/Issue-Tracking#user-story-development
Test Plan	Given a bundle that has previously been registered, but now has 1 or more new products to register When I perform harvest / registry manager Then I expect to only harvest and ingest those 1 or more new products

Test ID	REG.8
Issue ID	pds-registry-app#147
Issue Type	requirement
Issue Description	As a node operator, I want to be able to tag ingested data with the node it is ingested by.
Comments	
Test Plan	Given a product loaded in the registry When I perform I request the product in the registry Then I expect I can retrieve which node has loaded it.

Test ID	REG.9
Issue ID	pds-registry-app#185
Issue Type	requirement
Issue Description	As a user, I want to know the version of all registry app components via the command-line
Comments	
Test Plan	perform a -V or --version on the command-line for harvest and Reigstry-mgr. expect the component version information to be returned

Test ID	REG.10
Issue ID	pds-registry-app#122
Issue Type	enhancement
Issue Description	Initial deployment of API on AWS - ASG/ELB solution
Comments	NEED URL of deployed components.
Test Plan	test the URL SKIP

Test ID	REG.11
Issue ID	pds-registry-app#150
Issue Type	enhancement
Issue Description	Develop plan for instituting AWS ES Cross Cluster Search
Comments	
Test Plan	SKIP

Test ID	REG.12
Issue ID	pds-registry-app#165
Issue Type	enhancement
Issue Description	Initial deployment of API on AWS - Fargate solution
Comments	NEED URL of deployed components.
Test Plan	test the URL - url in comment

[pds-registry-mgr-elastic](#)

Test ID	REG-MGR.1
Issue ID	pds-registry-mgr-elastic#33
Issue Type	defect
Issue Description	registry-mgr cannot handle updated JSON files output from LDDTool.
Comments	
Test Plan	Run registry-mgr load schema with test data from https://github.com/NASA-PDS/pds4-information-model/issues/397

[PDS.nasa.gov-UX](#)

Test ID	WEB.1
Issue ID	PDS.nasa.gov-UX#80

Issue Type	Enhancement
Issue Description	Create new Training page
Comments	Need URL
Test Plan	Visit new training page

Test ID	WEB.2
Issue ID	PDS.nasa.gov-UX#81
Issue Type	Enhancement
Issue Description	incorporate new materials - misc videos and ancillary files for TBD video.
Comments	
Test Plan	<ul style="list-style-type: none"> • File Area: https://youtu.be/TF1ubd8_fiA • Display Settings: https://youtu.be/WZDr1QL3OnU • Array 2D: https://youtu.be/DhIKfBvgzsA

Test ID	WEB.3
Issue ID	PDS.nasa.gov-UX#86
Issue Type	defect
Issue Description	[Training] incorporate changes from June pow-wow.
Comments	
Test Plan	<p>VERIFY the following:</p> <p>remove FAQs</p> <p>remove sub-levels from Table of Contents</p> <p>Author Attribution: move from sidebar into section at bottom of page;</p> <p>retitle 'Contributors' and add sentence(s)</p> <p>retitle page to PDS4 Training, remove second sentence, and remove redundant mentions of 'PDS4'</p> <p>remove link for 'PDS4 Documentation'</p> <p>move all items from 'Where Can I Find' to 'PDS4 Conventions'</p> <p>move 'PDS4 Software' to 'PDS4 Tools' just before 'LDDTool' and reword to 'Key Tools'</p> <p>add sentence to end of 'PDS4 Tools' for Tool Registry</p> <p>move any high-level, clickable item that is a link to the top of its own list</p> <p>make caret the same blue as document links</p> <p>make sure all videos are left in the documentation</p>

Test ID	WEB.4
Issue ID	PDS.nasa.gov-UX#88
Issue Type	Enhancement
Issue Description	[Training] incorporate changes from first iteration of feedback
Comments	

Test Plan	Verify the following are added: add introduction add checklist to beginning of page revise Proposers' Guidelines' Detailed Archiving Checklist GEO's notes RMS' (?) notes misc notes updated documents and videos
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[pds4-information-model](#)

Test ID	IM.1
Issue ID	pds4-information-model#347
Issue Type	task
Issue Description	Create dLDD CCB
Comments	
Test Plan	Do not need to test.

Test ID	IM.2
Issue ID	pds4-information-model#348
Issue Type	task
Issue Description	Create dLDD Stewardship Teams
Comments	
Test Plan	Do not need to test.

Test ID	IM.3
Issue ID	pds4-information-model#240
Issue Type	task
Issue Description	Improve argument handling using argument parsing library
Comments	
Test Plan	Test out that all the arguments work and are backwards compatible with past versions of LDDTool.

Test ID	IM.4
Issue ID	pds4-information-model#330
Issue Type	requirement
Issue Description	As a user I want to know the output of the tool after it completes execution.
Comments	
Test Plan	Run the tool and expect the output includes something like: Input: PDS4 Flag: True LDD Flag: True IM Version: 1F00

	<p>Ingest LDD(s): /path/to/ldd- img/src/PDS4_IMG_IngestLDD.xml, /path/to/ldd- m2020/src/PDS4_M2020_IngestLDD.xml</p> <p>Output:</p> <p>PDS4_IMG_1F00_1830.JSON PDS4_IMG_1F00_1830.JSON PDS4_IMG_1F00_1830.csv PDS4_IMG_1F00_1830.sch etc.</p>
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Test ID	IM.5
Issue ID	pds4-information-model#338
Issue Type	requirement
Issue Description	As a developer, I want to know the dLDD version from the output JSON data
Comments	
Test Plan	<p>Expected output json:</p> <pre>{ "dataDictionary": { "Title": "PDS4 Data Dictionary" , "IM Version": "1.15.0.0" , "LDD Version": "1.1.0.0" , "Date": "Tue Jan 12 00:56:39 UTC 2021" , "Description": "This document is a dump of the contents of the PDS4 Data Dictionary" , "classDictionary": [</pre>

Test ID	IM.6
Issue ID	pds4-information-model#324
Issue Type	requirement
Issue Description	An LDD developer desires to inherit a class/attribute defined using DD_Associate_External_Class
Comments	
Test Plan	<p>Test LDD tools with the data file attached to the issue. https://github.com/NASA-PDS/pds4-information-model/files/6616524/GeomPart.zip</p>

Test ID	IM.7
Issue ID	pds4-information-model#369
Issue Type	enhancement
Issue Description	Evolution of CCB-256: Need method for providing permissible value definitions for external namespaces in Ingest_LDD.

Comments	
Test Plan	Create test file according to CCB-256 Run LDD tools with test file.

Test ID	IM.8
Issue ID	pds4-information-model#391
Issue Type	defect
Issue Description	Issue with DD_Associate_External_Class when trying to reference pds:Internal_Reference and pds:Local_Internal_Reference
Comments	
Test Plan	Run LDD Tools using data file attached to this issue.

Test ID	IM.9
Issue ID	pds4-information-model#397
Issue Type	defect
Issue Description	Different formatting of JSON output between 1F00 and 1G00 generation
Comments	
Test Plan	Run LDD Tools using data file attached to this issue. The output should be the same for 1F00 and 1G00.

Test ID	IM.10
Issue ID	pds4-information-model#403
Issue Type	defect
Issue Description	CCB-329 - Broaden Definition of Attribute aperture
Comments	NEED help with data file.
Test Plan	Create test file according to CCB-329 Run LDD tools with test file. Look at schema

pds4-jparser

Test ID	JP.1
Issue ID	pds4-jparser#40
Issue Type	defect
Issue Description	SNAPSHOT dependencies in 2.0.0 release
Comments	NEED help with instructions.
Test Plan	SKIP this test

registry-api-service

Test ID	REG-API.1
Issue ID	registry-api-service#16
Issue Type	defect
Issue Description	API server crashes with OutOfMemoryError if invalid query is used
Comments	
Test Plan	<ul style="list-style-type: none"> Go to Swagger UI (http://localhost:8080)

	<ul style="list-style-type: none"> • Click on 'collections' link. • Enter invalid query title=Kaguya in 'q' parameter • Hit 'Try it out!' button.
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Test ID	REG-API.2
Issue ID	registry-api-service#17
Issue Type	defect
Issue Description	error 500 on GET /collections/:lidvid:/products
Comments	
Test Plan	<p>Run request:</p> <pre>curl --location --request GET 'https://pds-gamma.jpl.nasa.gov/api/collections/urn:nasa:pds:insight_documents:document_mission::1.1/products?start=0&limit=10&fields=ops:Data_File_Info.ops:md5_checksum&only-summary=false'</pre>

Test ID	REG-API.3
Issue ID	registry-api-service#27
Issue Type	defect
Issue Description	XML and PDS4+XML Response Formats are invalid
Comments	
Test Plan	application/xml and application/pds4+xml disabled.

Test ID	REG-API.4
Issue ID	registry-api-service#36
Issue Type	defect
Issue Description	The end point /bundles/{lidvid}/products does not fully work
Comments	
Test Plan	Request the end points /bndles/{lidvid}/products when there is more than 500 products per collection for at least one collection.

Test ID	REG-API.5
Issue ID	registry-api-service#43
Issue Type	defect
Issue Description	As an API caller, I expect MD5s and file reference URLs to have real values and not the string "null"
Comments	
Test Plan	<pre>curl \ --silent \ --request GET \ --header 'Accept: application/json' \ 'https://pds-gamma.jpl.nasa.gov/api/bundles/urn%3Anasa%3Apds%3Ainsight_documents%3A%3A2.0/collections?start=0&limit=49&fields=ops%3AData_File_Info.ops'</pre>

	<pre>%3Afile_ref&fields=ops%3AData_File_Info.ops%3Amd5_checksum&fields=ops%3ALabel_File_Info.ops%3Afile_ref&fields=ops%3ALabel_File_Info.ops%3Amd5_checksum&only-summary=false'\ json_pp and look at all the nulls and values</pre>
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Test ID	REG-API.6
Issue ID	registry-api-service#51
Issue Type	defect
Issue Description	blob is returned in product results if fields to return are not specified
Comments	
Test Plan	<p>This is easiest to reproduce using the Swagger UI:</p> <ol style="list-style-type: none"> 1. go to GET products 2. for simplicity, set the limit to 1 3. leave fields blank 4. click "Try it out!" 5. "ops.Label_File_Info.ops.blob" is one of the returned "property" values

Test ID	REG-API.7
Issue ID	registry-api-service#53
Issue Type	defect
Issue Description	If Elasticsearch is down on API server startup, it starts, but doesn't accept connections
Comments	
Test Plan	<ol style="list-style-type: none"> 1. Start API server without starting Elasticsearch 2. API server starts and prints some Elasticsearch RestClient errors. 3. API server keeps running, but doesn't accept any connections, even if you start Elasticsearch later.

Test ID	REG-API.8
Issue ID	registry-api-service#62
Issue Type	defect
Issue Description	API unable to handle products with multiple file areas
Comments	
Test Plan	<p>Ingest product with multiple files:</p> <pre><Product_XML_Schema <File_Area_XML_Schema> <File> <file_name>PDS4_SPECLIB_1B00_1000.xsd</file_name></pre>

	<pre> <creation_date_time>2019-11- 22T13:12:14</creation_date_time> <file_size unit="byte">43384</file_size> <records>925</records> </File> <XML_Schema> <name>PDS4_SPECLIB_1B00_1000.xsd</name> <offset unit="byte">0</offset> <parsing_standard_id>XML Schema Version 1.1</parsing_standard_id> <description>This is a PDS4 XML Schema file for the declared namespace.</description> </XML_Schema> </File_Area_XML_Schema> <File_Area_XML_Schema> <File> <file_name>PDS4_SPECLIB_1B00_1000.sch</file_name> <creation_date_time>2019-11- 22T13:12:14</creation_date_time> <file_size unit="byte">16227</file_size> <records>234</records> </File> <XML_Schema> <name>PDS4_SPECLIB_1B00_1000.sch</name> <offset unit="byte">0</offset> <parsing_standard_id>Schematron ISO/IEC 19757- 3:2006</parsing_standard_id> <description>This is the PDS4 Schematron file for the declared namespace. Schematron provides rule-based validation for XML Schema.</description> </XML_Schema> </File_Area_XML_Schema> </Product_XML_Schema> </pre>
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Test ID	REG-API.9
Issue ID	registry-api-service#69
Issue Type	requirement
Issue Description	As a paginator, I want endpoints to consistently return no results when I page to the end of results
Comments	

Test Plan	<ol style="list-style-type: none"> 1. <code>curl --header 'Accept: application/json' 'https://pds-gamma.jpl.nasa.gov/api/bundles/urn%3Anasa%3Apds%3Ainsight_documents%3A%3A2.0/collections?start=0&limit=20&fields=product_class&only-summary=false' json_pp</code>. Note the data parameter has 5 entries. 2. Now bump the start to 5 and do <code>curl --header 'Accept: application/json' 'https://pds-gamma.jpl.nasa.gov/api/bundles/urn%3Anasa%3Apds%3Ainsight_documents%3A%3A2.0/collections?start=5&limit=20&fields=product_class&only-summary=false' json_pp</code>. Now you get this:
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Test ID	REG-API.10
Issue ID	registry-api-service#10
Issue Type	requirement
Issue Description	As a SA, I want to deploy the API behind a proxy
Comments	Test deployment? What is the expected result?
Test Plan	Check document at: https://medium.com/@codebyamir/using-apache-as-a-reverse-proxy-for-spring-boot-embedded-tomcat-f704da73e7c8

Test ID	REG-API.11
Issue ID	registry-api-service#13
Issue Type	requirement
Issue Description	As a developer, I want to utilize Elasticsearch performance robustness for API response time requirements.
Comments	How do I&T measure performance?
Test Plan	Check performance matrix

Test ID	REG-API.12
Issue ID	registry-api-service#14
Issue Type	requirement
Issue Description	As a node operators, I want to deploy the Registry API Service with the PDS Registry.
Comments	Check deployment documents??
Test Plan	check registry documentation

Test ID	REG-API.13
Issue ID	registry-api-service#33
Issue Type	requirement
Issue Description	As a user, I want to get a 404 error when I attempt to request a resource which does not exists
Comments	
Test Plan	Given a lidvid of a product not in the registry (e.g. foobar When I perform a query for the collections for that bundle's collections, e.g. /bundles/foobar/collections Then I expect a 404 error

Test ID	REG-API.14
Issue ID	registry-api-service#47
Issue Type	requirement
Issue Description	As a user, I want to have a complete default fields (for now at least)
Comments	
Test Plan	perform request curl --location --request GET 'http://localhost:8080/products? limit=10&fields=title,ops:Label_File_Info.ops:md5_checksum' expect a complete result in the default fields and properties fields containing only title and md5_sum

Validate

Test ID	VAL.1
Issue ID	validate#69
Issue Type	requirement
Issue Description	As a user, I want to validate that all context objects specified in observational products are referenced in the parent bundle/collection Reference_List
Comments	<p>Given a bundle with target identified as X When I perform validation of the bundle (-R pds4.bundle) with products that have targets X and Y Then I expect validate to throw a WARNING that all targets are not specified in the parent bundle</p> <p>Given a collection J with target identified as X When I perform validation of the bundle containing collection J (-R pds4.bundle) with products that have targets X and Y Then I expect validate to throw a WARNING that all targets are not specified in the parent collection</p> <p>Given a collection J with target identified as X When I perform validation of the bundle containing collection J (-R pds4.bundle) with products that have targets X and Y with --skip-context-reference-check flag Then I expect validate to NOT throw a WARNING</p>
Test Plan	Get test file from https://github.com/NASA-PDS/validate/tree/main/src/test/resources/github69 Run validate against test file

Test ID	VAL.2
Issue ID	validate#308
Issue Type	requirement

Issue Description	As a user, I want to check that all Internal References are valid references to other PDS4 products within the current validating bundle
Comments	
Test Plan	Get test file from https://github.com/NASA-PDS/validate/tree/main/src/test/resources/github308 Run validate against test file

Test ID	VAL.3
Issue ID	validate#358
Issue Type	Enhancement
Issue Description	Improve validate performance by removing unnecessary file IO
Comments	
Test Plan	Compare the difference with a previous version of validate: validate -R pds4.bundle --skip-context-validation --skip-content-validation -r report_github358_bundle_valid.json -s json -t src/test/resources/github240/valid/bundle_kaguya_derived.xml >& t1

Test ID	VAL.4
Issue ID	validate#368
Issue Type	Defect
Issue Description	Product referential integrity check throws invalid WARNINGS
Comments	<ul style="list-style-type: none"> Validate should ignore these references for the time being. We can throw an INFO or DEBUG message here if we want, and then eventually replace with some registry integration, but not now. This will definitely dramatically inflate the number of warning messages coming across (especially for context products). For WARNINGS that should exist, the problem type is incorrect. Current problem type: info.validation.general. Replace with new problem type: warning.integrity.reference_not_found
Test Plan	<pre>\$ validate-2.1.0-SNAPSHOT/bin/validate -t /data/pds4/test-data/registry/urn-nasa-pds-insight_documents/bundle_insight_documents.xml -R pds4.bundle ... PASS: file:/data/pds4/test-data/registry/urn-nasa-pds-insight_documents/document_hp3rad/release_notes.xml WARNING [info.validation.general] A LID reference urn:nasa:pds:context:instrument:hp3.insight is referencing a logical identifier for a product not found in this bundle ...</pre>

Test ID	VAL.5
Issue ID	validate#372
Issue Type	Defect

Issue Description	Issues with logic for reading latest version of collections, and file read logging lost with v2.* of validate.
Comments	
Test Plan	<p>Download the data file and its label from https://pds-geosciences.wustl.edu/messenger/mess-h-rss_mla-5-sdp-v1/messrs_1001/data/shbdr/jgmess_160av01_shb.dat and https://pds-geosciences.wustl.edu/messenger/mess-h-rss_mla-5-sdp-v1/messrs_1001/data/shbdr/jgmess_160av01_shb.xml.</p> <p>Run validate jgmess_160av01_shb.xml -R pds4.label -v2 -r validate_output.txt</p> <p>Expected behavior expected the contents of file to be valid</p>

Test ID	VAL.6
Issue ID	validate#318
Issue Type	Defect
Issue Description	B12.0 Content Validation Improvements
Comments	Parent Issure of #314; #164; #303; #57
Test Plan	

Test ID	VAL.7
Issue ID	validate#314
Issue Type	Defect
Issue Description	Revert #9: Do not throw ERROR message when ASCII Numeric field consists of only white space
Comments	per DDWG, this ticket will be closed as wontfix. #9 solution will remain as-is
Test Plan	SKIP

Test ID	VAL.8
Issue ID	validate#164
Issue Type	Defect
Issue Description	As a user, I want to validate PDF files are PDF/A
Comments	
Test Plan	<p>Get test file from https://github.com/NASA-PDS/validate/tree/main/src/test/resources/github164</p> <p>Run validate against test file</p>

Test ID	VAL.9
Issue ID	validate#303
Issue Type	Defect
Issue Description	As a user, I want to the raise a WARNING if the object-defined size in the label does not match the file_size value.

Comments	
Test Plan	Get test file from https://github.com/NASA-PDS/validate/tree/main/src/test/resources/github303 Run validate against test file Expect a warning message

Test ID	VAL.10
Issue ID	validate#57
Issue Type	Defect
Issue Description	As a user, I want to be warned when there are alphanumeric characters between fields in Table Character
Comments	
Test Plan	Get test file from https://github.com/NASA-PDS/validate/tree/main/src/test/resources/github57 Run validate against test file Expect a warning message

Test ID	VAL.11
Issue ID	validate#310
Issue Type	Defect
Issue Description	Validate missing collections in bundle after CCB-282 updates
Comments	
Test Plan	<ol style="list-style-type: none"> 1. get test bundle from https://github.com/NASA-PDS/validate/tree/main/src/test/resources/github310 2. using validate v2.1.0-SNAPSHOT 3. % validate -R pds4.bundle -t github310/valid 4. % validate -R pds4.bundle -t github310/invalid <p>step 3 should pass event collection file name doesn't follow by ' _' step 4 should fail before collection name is collectioX.</p>

Test ID	VAL.12
Issue ID	validate#325
Issue Type	Defect
Issue Description	Validate Incorrectly Throws Error When Embedded Field_Character Contains <CR><LF>.
Comments	
Test Plan	<ol style="list-style-type: none"> 1. Get test data from https://github.com/NASA-PDS/validate/tree/main/src/test/resources/github325 2. using validate v2.1.0-SNAPSHOT 3. validate crs009x.xml <p>crs009x. {tab, xml} should pass.</p>

Test ID	VAL.13
Issue ID	validate#326
Issue Type	Defect
Issue Description	File-size check fails for large data files.
Comments	
Test Plan	<p>Since we need to test for data file size > 4gb, we can use the data files in pds-dev3 to avoid downloading such files to our laptop.</p> <ol style="list-style-type: none"> 1. ssh pds-dev3 2. set up validate v2.1.0-SNAPSHOT 3. validate -R pds4.label --skip-content-validation --skip-context-validation -r report_github326_label_valid.json -s json -t /data/home/pds4/qchau/test_artifacts/github326/spectra_data_collection_inventor y.xml >& t1 <p>step 3. should pass.</p>

Test ID	VAL.14
Issue ID	validate#327
Issue Type	Defect
Issue Description	validate fails to process large data file
Comments	
Test Plan	Same test procedures as Test Validate#326.

Test ID	VAL.15
Issue ID	validate#357
Issue Type	Defect
Issue Description	Validate allows CRLF within a Table Delimited field.
Comments	
Test Plan	<ol style="list-style-type: none"> 1. get test data files from https://github.com/NASA-PDS/validate/tree/main/src/test/resources/github357 2. using validate v2.1.0-SNAPSHOT 3. validate -R pds4.label github357/whypointsremovedfromdata.xml <p>Step 3. Validate should check if there is a CR or LF within a Table Delimited field, and raise an error if it exists.</p>

Test ID	VAL.16
Issue ID	validate#360
Issue Type	Defect
Issue Description	validate does not parse colon in Windows path.
Comments	
Test Plan	<ol style="list-style-type: none"> 1. Setup validate v2.1.0-SNAPSHOT on Windows system. 2. re-use test data file in attachment.

	<ol style="list-style-type: none"> 3. validate SuperCam_Bundle_SIS.xml -R pds4.labe 4. compare result with user provide result file in attachment. <p>Step 3 should pass.</p>
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Test ID	VAL.17
Issue ID	validate#361
Issue Type	Defect
Issue Description	validate does not check Header of a File_Area_Ancillary nor does not provide a meaningful error message for an incorrect Table_Character offset.
Comments	
Test Plan	<ol style="list-style-type: none"> 1. get test file from https://github.com/NASA-PDS/validate/tree/main/src/test/resources/github361 2. validate -t github361/maven_orb_rec_210101_210401_v1.offset.xml <p>expect message: egrep "label message" report_github361_label_invalid_mini_offset.json head "ruleType": "pds4.label", "label": "file: github361/maven_orb_rec_210101_210401_v1.minimal.offset.xml", "messages": [], "messages": ["message": "The Header object_length 267 plus the Header offset 0 should be the same as the the table offset 333"</p>

Test ID	VAL.18
Issue ID	validate#364
Issue Type	Defect
Issue Description	validate does not allow ".XML" as an extension for a label file.
Comments	
Test Plan	<ol style="list-style-type: none"> 1. get test data files from https://github.com/NASA-PDS/validate/tree/main/src/test/resources/github364. 2. using validate v2.1.0-SNAPSHOT. 3. validate --skip-context-validation --skip-content-validation --target github364/MIS000XXX_2021001T000000_DEV0_2021001T0000_RAW010.XML <p>Step 3 should pass with all CAP file name.</p>

Test ID	VAL.19
Issue ID	validate#366
Issue Type	Defect
Issue Description	validate should not check if file is PDF/A if --skip-content-validation is enabled.
Comments	
Test Plan	<ol style="list-style-type: none"> Using data file from Validate-360 Using validate v2.1.0-SNAPSHOT validate -t SuperCam_Bundle_SIS.xml --skip-content-validation <p>Step 3 should not see WARNING messages in this section:</p> <p>Product Level Validation Results</p> <p>PASS: file:/Users/jpadams/test/validate-2.0.6-error-report/SuperCam_Bundle_SIS.xml WARNING [warning.pdf.file.not_pdfa_compliant] file:/Users/jpadams/test/validate-2.0.6-error-report/SuperCam_Bundle_SIS.pdf is not valid PDF/A file or does not exist 1 product validation(s) completed</p>

Test ID	VAL.20
Issue ID	validate#375
Issue Type	Defect
Issue Description	unclear error message for field count matching.
Comments	
Test Plan	<ol style="list-style-type: none"> set up validate v2.0.7 download testing data from attachment validate -R pds4.bundle --skip-context-reference-check -r report_github375_bundle.json -s json -t "PATH TO YOUR DATA FILE"/bundle_gbo.ast.primass-l.spectra.xml > & t1 <p>Expected behavior Validate should not fail. egrep "label status" report_github375_bundle.json "allowUnlabeledFiles": "false", "status": "PASS", "label": ...</p>

Test ID	VAL.21
Issue ID	validate#379
Issue Type	Defect

Issue Description	FileService:printStackTraceToFile:ERROR when validating a product with overlapping fields
Comments	
Test Plan	<ol style="list-style-type: none"> 1. set up testing environment for (either version 2.0.7 or 2.1.0-SNAPSHOT) 2. download test data from attachment. 3. validate --target /test data folder/mix_cal_hk_fpac_report_20181204.xml <p>Validate runs and reports the product is not valid because it defines overlapping fields. It should not created a stack trace report.</p> <p>Should not see this: FileService:printStackTraceToFile:ERROR: This function can only write to file that ends with .txt or .log</p>

Test ID	VAL.22
Issue ID	validate#380
Issue Type	Defect
Issue Description	stack trace being created during successful validate execution
Comments	
Test Plan	<ol style="list-style-type: none"> 1. download validate v2.07 from https://github.com/NASA-PDS/validate/releases/tag/v2.0.7 2. set validate soft-link to v2.0.7 3. download test data from attachment. 4. validate -t uranus_occ_u36_maunakea_380cm <p>Should not see a stack stack trace log after validate report. stack trace only outputs when a fatal error occurs or uncaught exception.</p>

Test ID	VAL.23
Issue ID	validate#381
Issue Type	Defect
Issue Description	validate does not work correctly when the path name contains a space
Comments	
Test Plan	<ol style="list-style-type: none"> 1. set up testing environment with validate 2.0.7 2. duplicate testing folder for validate#375 from h to "h test" 3. Run validate from within this directory <p>Validate should not fail.</p>

Test ID	VAL.24
Issue ID	validate#392
Issue Type	Defect

Issue Description	Validate throws incorrect overlap error when first Field_Bit has length 1
Comments	
Test Plan	<ol style="list-style-type: none"> 1. Download test file from https://github.com/NASA-PDS/validate/tree/main/src/test/resources/github392 2. validate github392/test1.xml <p>Validate should not fail</p>

Test ID	VAL.25
Issue ID	validate#367
Issue Type	Requirement
Issue Description	As a user, I want to validate all files referenced by a Product_Document
Comments	
Test Plan	<ol style="list-style-type: none"> 1. download test files: https://github.com/NASA-PDS/validate/tree/main/src/test/resources/github367 2. validate github367/bundle_kaguya_derived.xml

Test ID	VAL.26
Issue ID	validate#373
Issue Type	Improvements
Issue Description	Update pds4 version mismatch warning message and problem type.
Comments	
Test Plan	<ol style="list-style-type: none"> 1. download test file https://github.com/NASA-PDS/validate/tree/main/src/test/resources/github373 2. validate empty_file.txt <p>expected result: warning.integrity.pds4_version_mismatch</p>

Test ID	VAL.27
Issue ID	validate#374
Issue Type	Improvements
Issue Description	Refactor PDF/A check handling to match with similar product checks
Comments	
Test Plan	Same test as validate#164