

Release Build 11.1 Test Plan

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Tools installation and configuration

Testing for Release Build 11.1 will be performed on Mac OS, Linux and Windows 10 Pro. Will 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 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
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Test ID	INT.3
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.4
Issue Description	validate installation and configuration
Comments	Follow Installation manual page: https://nasa-pds.github.io/validate/1.24.0/install/index.html
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_41
Issue Type	Improvements
Issue Description	Update to use <code>directory_path_name</code> when trying to locate <code>//Document File/file_name</code>
Comments	
Test Plan	Test with using <code>directory_path_name</code> flag when trying to location <code>//Document File/file_name</code> not int current directory.

Test ID	HAR.2
Issue ID	Harvest_37
Issue Type	Requirement
Issue Description	As a user, I want a default configuration for harvest included in the tool package
Comments	

Test Plan	Test sample configuration in ../harvest-3.3.1/conf/examples/" folder.
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Test ID	HAR.3
Issue ID	Harvest_45
Issue Type	Improvements
Issue Description	As a user, I want to be able to ingest a directory of data that is not part of a bundle
Comments	
Test Plan	Create a harvest configuration file and add the directory in the following section: <pre><directories> <path>/tmp/dir1/</path> </directories></pre>

mi-label

Test ID	MI.1
Issue ID	Mi_label_10
Issue Type	Defect
Issue Description	Windows version will not run because of error in generate.bat
Comments	Test on Windows 10
Test Plan	Download the tool from https://github.com/NASA-PDS/mi-label/releases/download/v1.1.2/mi-label-1.1.2-bin.zip . Open an instance of Powershell and run the command <code>generate -v</code> . Verify it can display the version of the software.

Pds Deep Archive

Issue ID	pds-deep-archive#90
Issue Type	Defect
Issue Description	Small typo on package documentation
Comments	
Test Plan	Check document after installation, look for the following: include-latest-collection-only

Issue ID	pds-deep-archive#92
Issue Type	Defect
Issue Description	SIP manifest table erroneously includes secondary collections and their basic products
Comments	
Test Plan	Test with SIP manifest table which includes a secondary collection. Should see an exception error.

Issue ID	pds-deep-archive#99
Issue Type	Defect

Issue Description	aip_label_checksum is not for the correct file
Comments	
Test Plan	<ol style="list-style-type: none"> 1. Generate the AIP files. 2. Look at the value <aip_label_checksum> 3. Create an MD5 sum for all files: % md5sum *; 4. See which file in # 3 corresponds with in # 2 <p>Expected behavior Expected to see the value in <aip_label_checksum> to be that for *aip_v1.0.xml.</p>

Issue ID	pds-deep-archive#93
Issue Type	enhancement
Issue Description	add year to directory path in URL
Comments	
Test Plan	Verify the <manifest_url> base URL is https://pds.nasa.gov/data/pds4/manifests/<year> where <year> is the year the SIP was generated

Issue ID	pds-deep-archive#95
Issue Type	enhancement
Issue Description	Bash required for default installation description
Comments	
Test Plan	Verify installation document, should see the following: # Example assumes bash command shell. For others, consult shell documentation.

Issue ID	pds-deep-archive#102
Issue Type	requirment
Issue Description	As a user, I want the SIP manifest to include valid URLs
Comments	
Test Plan	Ping base_url + bundle path in SIP and make sure they are valid.

Pds Doi Service

Test ID	DOI.0
Issue ID	pds-doi-service 52, 91, 125, 116, 162
Issue Type	Basic test
Issue Description	Install, configure, launch doi services.
Comments	This is a general test for doi services, it covers API requirements.
Test Plan	<ol style="list-style-type: none"> 1. Follow instructions for doi installation, https://nasa-pds.github.io/pds-doi-service/installation/index.html 2. Configure doi-services. 3. Create/modify testing bundle 4. Test doi commands for reserve, draft, release, check and list.

Test ID	DOI.1
Issue ID	pds-doi-service_119
Issue Type	defect
Issue Description	Raise a specific exception when the OSTI server is not reachable
Comments	
Test Plan	Use the API server to release a DOI without network connection available. A message should clearly say that the OSTI server is not reachable.

Test ID	DOI.2
Issue ID	pds-doi-service#121
Issue Type	defect
Issue Description	GET /dois must support empty vid field
Comments	
Test Plan	insert a DOI with no vid and then request the /dois with GET method

Test ID	DOI.3
Issue ID	pds-doi-service#122
Issue Type	defect
Issue Description	the sql-lite database should be created at the same location, wherever the command are launched from
Comments	
Test Plan	Launch the same reserve of draft command from 2 different directories. verify that the DOI is available (list) from which the command is launched.

Test ID	DOI.4
Issue ID	pds-doi-service#126
Issue Type	defect
Issue Description	get /dois/{lidvid}
Comments	
Test Plan	Compare get DOIs response format https://app.swaggerhub.com/apis/PDS_APIs/pds_doi_api/0.1 with actual response of the server.

Test ID	DOI.5
Issue ID	pds-doi-service#128
Issue Type	defect
Issue Description	command pds-doi-cmd list returns update date in timestamp instead of iso8601
Comments	
Test Plan	command pds-doi-cmd list

	returns update date format must be iso8601
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Test ID	DOI.6
Issue ID	pds-doi-service#138
Issue Type	Defect
Issue Description	xlsx file extension for reserve not supported
Comments	
Test Plan	Test on a new environment Run unit test as described in README The reserve action should support xlsx inputs (https://nasa-pds.github.io/pds-doi-service/usage/index.html#reserve)

Test ID	DOI.7
Issue ID	pds-doi-service#141
Issue Type	Defect
Issue Description	api does not ignore '/' at the end of url
Comments	
Test Plan	request http://localhost:8085/PDS_APIs/pds_doi_api/0.1/does/ should give the same result as request http://localhost:8085/PDS_APIs/pds_doi_api/0.1/does

Test ID	DOI.8
Issue ID	pds-doi-service#143
Issue Type	Defect
Issue Description	when release command keywords are broken with encoded characters
Comments	
Test Plan	<ol style="list-style-type: none"> 1. Create a draft with command: pds-doi-cmd draft -i input/bundle_in_with_contributors.xml -s loubrieu@jpl.nasa.gov -n eng > /tmp/doi.xml 2. use result in stdout to release with following command: pds-doi-cmd release -i /tmp/doi.xml -s loubrieu@jpl.nasa.gov -n eng <p>Expected behavior The keyword should stay as they were in input.</p>

Test ID	DOI.9
Issue ID	pds-doi-service#150
Issue Type	defect
Issue Description	when doing draft with warnings (e.g. duplicated title) the -f option does not help
Comments	Changes the try/except management with return. Previously when a warning was raised, although forced, nothing was returned.
Test Plan	pds-doi-cmd draft -i input/bundle_in_with_contributors.xml -s loubrieu@jpl.nasa.gov -n eng -f

	<p>With attached file and doi.db test143.zip in https://github.com/NASA-PDS/pds-doi-service/pull/149</p> <p>Expected behavior: The command should work without error.</p>
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Test ID	DOI.10
Issue ID	pds-doi-service#154
Issue Type	defect
Issue Description	draft OSTI label
Comments	
Test Plan	<p>% pds-doi-cmd draft -i /tmp/toto.xml -s loubrieu@jpl.nasa.gov -n eng</p> <p>The toto.xml test file is attached in https://github.com/NASA-PDS/pds-doi-service/issues/154</p> <p>Expected behavior: The command should work without error.</p>

Test ID	DOI.11
Issue ID	pds-doi-service#159
Issue Type	defect
Issue Description	The url /dois/{lidvid} should still return XML in the record attribute
Comments	
Test Plan	<p>This is a "regression" from ticket #140 which breaks the UI.</p> <p>Acceptance criteria:</p> <ul style="list-style-type: none"> • One DOI must be released with a list of authors. • The DOI can be updated without authors. In this case the authors will be removed from the OSTI DOI.

Test ID	DOI.12
Issue ID	pds-doi-service#114
Issue Type	Enhancement
Issue Description	Draft action: read the doi from the pds4 label
Comments	When DOI is updated from a pds4 label the DOI can be found in the label.
Test Plan	<p>Run pds-doi-cmd draft</p> <p>On test bundle: https://pds.nasa.gov/data/pds4/test-bundles/urn-nasa-pds-insight_documents/bundle_insight_documents.xml</p> <p>Acceptance criteria: A DOI can be updated directly from its PDS4 label when the label contains the DOI identifier.</p>

Test ID	DOI.13
Issue ID	pds-doi-service#134

Issue Type	Enhancement
Issue Description	Update draft action with new option --lidvid to change from review to draft the status of a DOI
Comments	This will duplicate the record in the database so that we know that the records has been in status=review before
Test Plan	Check that the command line tool support the new option and that the option is documented

Test ID	DOI.14
Issue ID	pds-doi-service#135
Issue Type	Enhancement
Issue Description	Update API to deactivate 'release' end point, create a 'submit' end-point
Comments	Option not listed in the documentation yet.
Test Plan	'submit' end-point is available in the API, when used it change the status of the DOI to 'review'

Test ID	DOI.15
Issue ID	pds-doi-service#140
Issue Type	Enhancement
Issue Description	Update submission to OSTI to handle the removal of a field from the OSTI metadata
Comments	
Test Plan	Release DOI with a list of authors Update DOI without authors. In this case the authors will be removed from the OSTI DOI.

Test ID	DOI.16
Issue ID	pds-doi-service#144
Issue Type	Enhancement
Issue Description	enable filter by status in sub-action 'pds-doi-cmd list'
Comments	Document on how to use this option not updated yet.
Test Plan	Test with pds-doi-cmd list -stauts

Test ID	DOI.17
Issue ID	pds-doi-service#148
Issue Type	Enhancement
Issue Description	API POST /dois should accept DOI OSTI format in payload
Comments	
Test Plan	<ol style="list-style-type: none"> 1. A valid OSTI DOI XML can be posted to the API by using the end point POS /dois. 2. The new record is available in the GET /dois with a draft status.

Test ID	DOI.18
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Issue ID	pds-doi-service#157
Issue Type	Enhancement
Issue Description	When a pds4 label or osti can not be parsed generate error 400 in API
Comments	
Test Plan	http://localhost:8085/PDS_APIs/pds_doi_api/0.1/does?action=draft&submitter=&node=atm&url=https://pds-geosciences.wustl.edu/insight/urn-nasa-pds-insight_rad/data_calibrated/collection_data_rad_calibrated.xml The above request must return error 400

Test ID	DOI.19
Issue ID	pds-doi-service#165
Issue Type	Enhancement
Issue Description	When a pds4 label or osti can not be parsed generate error 400 in API
Comments	
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#177
Issue Type	Enhancement
Issue Description	As an API user I want to filter on lidvids with wildcards
Comments	
Test Plan	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

pds-doi-ui

Test ID	DOI-UI.0
Issue ID	pds-doi-ui 1,9,10,14,17,19,27,28,30,31

Issue Type	Basic test
Issue Description	Install, configure, doi-ui, perform doi services using doi-ui.
Comments	This is a general test for doi services using doi-ui.
Test Plan	<ol style="list-style-type: none"> 1. Follow instructions for doi-ui installation 2. Configure doi-services. 3. Create/modify testing bundle 4. Test doi commands for reserve, draft, release, check and list using doi-ui

Validate

Test ID	VAL.0
Issue ID	
Issue Type	Basic test
Issue Description	Install, configure, run validate.
Comments	This is a general test for validate service.
Test Plan	<ol style="list-style-type: none"> 1. Follow instructions for doi-ui installation: https://nasa-pds.github.io/validate/install/index.html 2. Verify installation. 3. Create/modify testing bundle 4. Verify validate operation.

Test ID	VAL.1
Issue ID	validate#5
Issue Type	Defect
Issue Description	Improve file base name check according to Standards Reference
Comments	<p>Validating file and directory names</p> <ul style="list-style-type: none"> - 'core' should not be valid - 'core.vmac' should be valid - 'lpt8' should not be valid - 'com4' should not be valid - 'file_aux_should_be_ok.tab' should be valid - 'lpt9.tab' should be valid - 'lpt9_should_be_ok.tab' should be valid - 'this_file_should_be_ok_core.tab' should be valid
Test Plan	Run validate with valid and invalid file names.

Test ID	VAL.2
Issue ID	validate#6
Issue Type	defect
Issue Description	Improve pds4.bundle unlabeled files check to handle files without a file suffix
Comments	After a quick test, it looks like Validate is only looking for files that have a file ending, e.g. it won't find 00DANGLINGFILE but it will find 00DANGLINGFILE.txt

Test Plan	Run validate to process a directory containing files with and without file extension.
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Test ID	VAL.3
Issue ID	validate#11
Issue Type	Defect
Issue Description	Update allowable field_format values per Standards Reference definition regarding [+ -] characters
Comments	Throw an error if the ASCII String containing the '+' symbol and ASCII number containing the '-' symbols
Test Plan	Test data file: https://github.com/NASA-PDS-Incubator/pds4-validate-tool/files/3322244/test_data.zip Test validate with test_data.zip from issues 11 in git hub.

Test ID	VAL.4
Issue ID	validate#153
Issue Type	Defect
Issue Description	Update validate to throw error when a file has a space in the filename
Comments	
Test Plan	Test data file: https://github.com/NASA-PDS-Incubator/validate/files/3844970/iue_asteroid_spectra.zip Run validate with iue_asteroid_spectra.zip attached to issue at github. Expected behavior Validate throws error

Test ID	VAL.5
Issue ID	validate#189
Issue Type	Defect
Issue Description	Validate error reading tables > 2GiB.
Comments	
Test Plan	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 . Run validate jgmess_160av01_shb.xml -R pds4.label -v2 -r validate_output.txt Expected behavior expected the contents of file to be valid

Test ID	VAL.6
Issue ID	validate#240
Issue Type	Defect

Issue Description	Unexpected error for data collection in a sub-directory.
Comments	Validate throws an error for unallowed directory name even though it is the base data collection.
Test Plan	Steps to reproduce the behavior: download bundle from pds-gamma:/data/local/starbase/data/pds4/test-bundles/pds4-compile-comet-v1.0/ run validate with the pds4.bundle rule enabled

Test ID	VAL.7
Issue ID	validate#256
Issue Type	Defect
Issue Description	validate should only do integrity checking on latest version of a collection when referenced by LID
Test Plan	Download camera bundle.xml, (/data/home/pds4/insight_cameras/bundle_6.0.xml), run validate with bundle validation: validate -R pds4.bundle -t insight_cameras/ --skip-content-validation --skip-product-validation -r run_20201020.txt Expected behavior The output from validate for the above run should only be performing integrity checks for version 6.0 of the collection. The software should read in all the collections matching by <code>logical_identifier</code> , and only perform integrity checking based upon the one that is the latest version (<code>greatest version id</code>).

Test ID	VAL.8
Issue ID	validate#257
Issue Type	Defect
Issue Description	Product with incorrect table binary definition pass validation.
Comments	
Test Plan	Steps to reproduce the behavior: download test bundle from issue page: https://github.com/NASA-PDS/validate/issues/257 run validate: validate -t /home/fvallejo/git/pds4-packager-clean/pds4-validate/src/test/resources/pds4/mer_raw_sc_tir_20181113_01.xml -add-context-products /home/fvallejo/git/pds4-packager-clean/pds4-validate/src/test/resources/pds4-validate-data/local_context_products.json Expected behavior validate should report the test product attached as invalid as the table field definition is not valid.

Test ID	VAL.9
Issue ID	validate#260
Issue Type	Defect
Issue Description	Missing documentation about deprecated flags.
Comments	
Test Plan	Verify document has deprecated flag information.

Test ID	VAL.10
Issue ID	validate#271
Issue Type	Defect
Issue Description	validate 1.25.0-SNAPSHOT raises an exception when validating a product
Comments	
Test Plan	Run validate against the test data attached to issue page. https://esabox.esa.int/owncloud/index.php/s/xLIWOJMSRVDWW2s

Test ID	VAL.11
Issue ID	validate#273
Issue Type	Defect
Issue Description	Bug performing bundle validation with nested directories.
Comments	
Test Plan	Run validate against the test data attached to issue page. https://github.com/NASA-PDS/validate/files/5670957/bad.zip .

Test ID	VAL.12
Issue ID	validate#278
Issue Type	Defect
Issue Description	Registered context products file does not retain older versions of context products.
Comments	
Test Plan	Run validate against the test data attached to issue page. https://pds-geosciences.wustl.edu/insight/urn-nasa-pds-insight_documents/document_rise/trk-2-34-revn-15_tnf.xml . Run Validate on this product, e.g. "validate trk-2-34-revn-15_tnf.xml -R pds4.label -v1" Expected behavior I expected registered_context_products.json to include all versions of context products

Test ID	VAL.13
Issue ID	validate#281
Issue Type	Defect
Issue Description	Validate fails to report error in File.file_size.

Comments	
Test Plan	Run validate against the test data attached to issue page. https://github.com/NASA-PDS/validate/files/5794084/testdata.tar.gz Run Validate on this product. Expected behavior It should not pass

Test ID	VAL.14
Issue ID	validate#291
Issue Type	Defect
Issue Description	When validating a product with a bad schematron definition, bundle validation also fails indicating the associated product does not exist.
Comments	
Test Plan	Download test data at: \$TEST_DATA_PATH/test-bundles/pds4- compil-comet-v1.0/ Run Validate on this product. bin/validate -R pds4.bundle -t \$TEST_DATA_PATH/test- bundles/pds4-compil-comet-v1.0/bundle.xml Expected behavior It should not pass

Test ID	VAL.15
Issue ID	validate#294
Issue Type	Defect
Issue Description	Content validation incorrectly reports error for floating-point values out of specified min/max range.
Comments	
Test Plan	Download test data at: https://github.com/NASA-PDS/validate/issues/294 Run Validate on this product. Expected behavior In cases like the example, where the actual value (0.12345) is within the expected min-max range, no error nor warning message should be issued.

Test ID	VAL.16
Issue ID	validate#297
Issue Type	Defect
Issue Description	Content validation of ASCII_Integer field does not accept value with leading zeroes.
Comments	

Test Plan	<p>Download test data at: https://github.com/NASA-PDS/validate/files/5996475/rimfax_rdr_0081_example.zip</p> <p>Run Validate on this product. <code>validate rimfax_rdr_0081_example.xml --skip-context-validation -r validate_rimfax_example.txt</code></p> <p>Expected behavior I expected the value 00081 to be valid.</p>
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Test ID	VAL.17
Issue ID	validate#298
Issue Type	Defect
Issue Description	validate misses double quotes within a delimited table.
Comments	
Test Plan	<p>Download test data at: https://github.com/NASA-PDS/validate/files/5998735/Archive.zip</p> <p>Run Validate on this product.</p> <p>Expected behavior "message": "The field value 'This line should be invalid because it has \"double quote inside double quote\" and some token' that starts with double quote should not contain double quote(s) " },</p>

Test ID	VAL.18
Issue ID	validate#299
Issue Type	Defect
Issue Description	Validate tool does not PASS a bundle with a single-character filename.
Comments	
Test Plan	<p>Download test data at: https://github.com/NASA-PDS/validate/files/6003561/gbo_ast_fieber-beyer_spectra_v2.0_20210211.zip</p> <p>Run Validate on this product. <code>% validate -R pds4.label -r report_github299_label_valid.json -s json -t src/test/resources/github299/valid/gbo_ast_fieber-beyer_spectra_v2.0_20210211_aip_v1.0.xml</code></p> <p>Expected behavior <pre>% egrep "status label" report_github299_label_valid.json "ruleType": "pds4.label", "status": "PASS", "label": "file:/home/qchau/sandbox/validate/src/test/resources/github299/valid/gbo_ast_fieber-beyer_spectra_v2.0_20210211_aip_v1.0.xml"</pre></p>

Test ID	VAL.19
Issue ID	validate#300
Issue Type	Defect
Issue Description	validate -u flag reports an error on Windows.
Comments	<p>Running validate with the '-u' flag to update the JSON file with a list of context LIDs throws an error.</p> <p>On linux/unix, the file separator is '/' whereas for Windows is the back slash. Currently, the Java code hard-coded the '/' as a file separator</p>
Test Plan	<p>Run validate -u on Windows system.</p> <p>Expected behavior No error message displayed.</p>

Test ID	VAL.20
Issue ID	validate#301
Issue Type	Defect
Issue Description	unclear error message for field count matching.
Comments	
Test Plan	<p>Download test data at: pds-gamma:/home/rchen/val301.tgz</p> <p>Run validate: validate -t u36_irtf_320cm_2200nm_counts-v-time_rings_ingress.xml</p> <p>Expected behavior <pre> validate -R pds4.label --skip-context-validation -r report_github301_label_valid.json -s json -t /data/home/pds4/qchau/test_artifacts/github301/ u36_irtf_320cm_2200nm_counts-v-time_rin gs_ingress.xml >& t1 {pds-dev3.jpl.nasa.gov}/home/qchau/sandbox/validate 171 % grep status report_github301_label_valid.json "status": "PASS",.</pre> </p>

Test ID	VAL.21
Issue ID	validate#310
Issue Type	Defect
Issue Description	Validate missing collections in bundle after CCB-282 updates.
Comments	
Test Plan	Tested with CCB-282.

Test ID	VAL.22
Issue ID	validate#24

Issue Type	Improvements
Issue Description	Update context check to retrieve and use latest context products from EN Registry.
Comments	
Test Plan	Test validate with -u flag, it should pull down the latest set of context products.

Test ID	VAL.23
Issue ID	validate#17
Issue Type	Improvements
Issue Description	Validate schematron references and throw fatal error if invalid URI specified.
Comments	href=" http://psa.esa.int/psa/bc/v1/PDS4_PSA_BC_1003.sch "schematypens=" http://purl.oclc.org/dsdl/schematron "?> a space missing before schematypens
Test Plan	Run validate with testing xml that contains the above href. Validate should display a warning message

Test ID	VAL.24
Issue ID	validate#51
Issue Type	Improvements
Issue Description	Provide the capability to specify multiple locations for pds4.bundle validation.
Comments	--alternate_file_paths This flag will allow for additional paths to be specified when attempting referential integrity validation (pds4.bundle or pds4.collection rules).
Test Plan	Test validate with -alternate file_paths flag, it should output a new WARNING log message that this data should be collocated with the other bundle data.

Test ID	VAL.25
Issue ID	validate#81
Issue Type	Improvements
Issue Description	Validate and throw error when duplicate LIDs are found in Bundle.
Comments	

Test Plan	<p>Tested in regression test</p> <p>The current code already check for duplicate identifier:</p> <pre>validate -R pds4.bundle --skip-context-validation --skip-content-validation -r report_github81_invalid.json -s json -t src/test/resources/github81/invalid/bundle _kaguya_derived.xml {pds-dev3.jpl.nasa.gov}/home/qchau/sandbox/validate 109 % egrep "status label" report_github81_invalid.json "label": "file:/home/qchau/sandbox/validate/src/test/resources/github81/invalid/data_spectra/ kgrs_calibrated_spectra_per1.xml", "status": "FAIL", "label": "file:/home/qchau/sandbox/validate/src/test/resources/github81/invalid/data_spectra/ kgrs_calibrated_spectra_per2.xml", "type": "error.label.duplicate identifier",</pre>
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Test ID	VAL.26
Issue ID	validate#230
Issue Type	Improvements
Issue Description	Update validate per SR requirements for collection inventories.
Comments	when validate comes across a collection product (Product_Collection), when it is validating the collection inventory, it must ensure that primary products (start with P,) are specified using LIDVIDs.
Test Plan	<p>Test data file: https://github.com/NASA-PDS/validate/files/4648191/cocirs_c2h4abund.tar.gz</p> <p>Validate cocirs_c2h4abund.tar.gz attached to issue in github</p>

Test ID	VAL.27
Issue ID	validate#238, 254
Issue Type	Improvements
Issue Description	<p>validate does not perform full bundle validation when using a specific bundle.xml</p> <p>validate does not perform expediently when doing bundle-level validation against large bundles</p>
Comments	there is a large test bundle out at pds-dev3:/data/home/pds4/insight_cameras. and the run report from my tests above on a subset of that data is at /home/jpadams/sandbox/run_20201020.txt.
Test Plan	<ul style="list-style-type: none"> Download the bundle located at: https://pds-imaging.jpl.nasa.gov/data/nsyt/insight_cameras/ Validate the bundle by specifying the bundle.xml: <code>validate -R pds4.bundle -t insight_cameras/bundle.xml</code>

	<ul style="list-style-type: none"> Expected output should be similar to when calling validate by pointing to the enclosing directory of the bundle (i.e. same as <code>validate -R pds4.bundle -t insight_cameras/</code>)
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Test ID	VAL.28
Issue ID	validate#246
Issue Type	Improvements
Issue Description	Add output directory flag to validate-bundle tool
Comments	the user now can specify -d or --dir-path for a top level output directory
Test Plan	Test Validate with the -d flag to output to a specific directory

Test ID	VAL.29
Issue ID	validate#249, 252
Issue Type	Improvements
Issue Description	Improvements for validating accumulating bundles / collections
Comments	No description provided.
Test Plan	Test with regression test.

Test ID	VAL.30
Issue ID	validation #264
Issue Type	Improvements
Issue Description	Update installation documentation to include 64-bit Java as system requirement
Comments	Documentation should be updated to explicitly call out 64-bit Java and to run <code>java -d64</code> to test to make sure that is the version being used.
Test Plan	Check document for system requirements.

Test ID	VAL.31
Issue ID	validate#188
Issue Type	Requirement
Issue Description	As a user, I want to validate a bundle that uses multiple versions of the Information Model / Discipline LDDs
Comments	When reading in LDDs that are incompatible with older versions of the IM, validate appears to be ignoring the schemaLocation versions.
Test Plan	Download test data: https://github.com/NASA-PDS/validate/issues/188 <code>% validate --skip-content-validation -r report_github188_label_valid_both.json -s json -t src/test/resources/github188/bundle cassini-huygens-coradar.xml</code>

	<pre>src/test/resources/github188/BILQH07S314_D065_T008S02_V02_without_Missing_Area_tag.xml</pre> <p>Expected Result:</p> <pre>% egrep "status label" report_github188_label_valid_both.json "status": "PASS", "label": "file:/home/qchau/sandbox/validate/src/test/resources/github188/bundle_cassini-huygens-coradar.xml", "status": "PASS", "label": "file:/home/qchau/sandbox/validate/src/test/resources/github188/BILQH07S314_D065_T008S02_V02_without_Missing_Area_tag.xml",</pre>
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Test ID	VAL.32
Issue ID	validate#210
Issue Type	Defect
Issue Description	The following flag: --prefer-all-labels-same-information-model-version will be added to allow the user to see a warning in the report if not all versions of the (IM) are the same.
Test Plan	<p>Create test xml with multiple im version:</p> <pre>src/test/resources/github210/BILQH07S314_D065_T008S02_V02_without_Missing_Area_tag.xml: <information_model_version>1.12.0.0</information_model_version> src/test/resources/github210/bundle_cassini-huygens-coradar.xml: <information_model_version>1.10.0.0</information_model_version></pre> <p>validate files</p> <p>expected output:</p> <pre>"status": "PASS", "label": "file:/home/qchau/sandbox/validate/src/test/resources/github210/bundle_cassini-huygens-coradar.xml", "messages": [{ "severity": "WARNING", "type": "info.validation.general", "message": "Multiple versions (2) of Information Model (IM) found in this run: 1.12.0.0 1.10.0.0" }], "fragments": [], "dataContents": []</pre>

Test ID	VAL.33
Issue ID	validate#210
Issue Type	Defect
Issue Description	CCB-264: Make the Line Feed (LF) character an allowed record delimiter
Test Plan	Download test data: https://github.com/NASA-PDS/validate/files/5884209/minimal_test_product_line_endings.zip Expected output: Validate should pass

Test ID	VAL.34
Issue ID	validate#322
Issue Type	Defect
Issue Description	Update installation documentation to require Java 1.9+
Test Plan	Check installation documentation for Java version requirement

Test ID	VAL.35
Issue ID	validate#323
Issue Type	Defect
Issue Description	Upgrade to Java 9+
Test Plan	Tested in VAL.0, install and config

[pds4-information-model](#)

Test ID	IM.1
Issue ID	pds4-information-model#170
Issue Type	defect
Issue Description	LDDTool: DocBook generation does not work from any file system location
Comments	
Test Plan	Run lddtool from this location – it should not give an exception \$ ~/Downloads/lddtool-11.2.2/bin/lddtool -p1D \$HOME/Downloads/Archive\ \ (1\)/ccb2681ddinputa.xml

Test ID	IM.2
Issue ID	pds4-information-model#188
Issue Type	defect
Issue Description	LDDTool: requires one class with (element_flag = true), even when no classes defined
Comments	
Test Plan	Data source: https://github.com/NASA-PDS/pds4-information-model/files/5648513/Ingest_PDS4_PSA_BC_1005.xml.txt Run LDDTool Expected outcome: No Error

Test ID	IM.3
Issue ID	pds4-information-model#266
Issue Type	defect
Issue Description	Throw WARNING message when enumeration_flag = false but enumerations are specified
Comments	<enumeration_flag>>false</enumeration_flag> but DD_Permissible_Values are specified.
Test Plan	This test file should generate a warning instead of a error message https://github.com/pds-data-dictionaries/ldd-geom/blob/808665c280eec296bc5fef57a0c3a4ca11870891/src/PDS4_GEOM_IngestLDD.xml

Test ID	IM.4
Issue ID	pds4-information-model#271
Issue Type	defect
Issue Description	LDDTool forces use of LDD versions based upon config
Comments	<enumeration_flag>>false</enumeration_flag> but DD_Permissible_Values are specified.
Test Plan	From clean install of LDDTool, verify versionId is not in the config.property file Run lddtool for ingest LDD

Test ID	IM.5
Issue ID	pds4-information-model#277
Issue Type	defect
Issue Description	LDD versionId list in the Data Dictionary Document introduction does not contain valid versionIds
Comments	LDDTool - The LDD versionId list in the Data Dictionary Document introduction does not contain valid versionIds. The versionIds were being set to 0.0.0.0.
Test Plan	Expected Generated from Information Model Version 1.15.0.0 on Mon Dec 28 16:39:10 EST 2020 Contains namespace ids: pds v1.15.0.0, cart v1.9.3.3, geom v1.7.0.0, img v1.6.1.0, img_surface v1.1.1.0, msn v1.1.0.0, msn_surface v1.1.0.0, proc v1.1.0.0, rings v1.8.0.0 Mon Dec 28 16:39:10 EST 2020

Test ID	IM.6
Issue ID	pds4-information-model#280
Issue Type	defect
Issue Description	CSV files fail to escape double quotes.

Comments	<p>Current Build Description: " The spacecraft_yaw_direction attribute provides the spacecraft yaw (look) mode. valids: "Forward", "Reverse" "</p> <p>Should Be: " The spacecraft_yaw_direction attribute provides the spacecraft yaw (look) mode. valids: ""Forward"", ""Reverse"" "</p>
Test Plan	<p>Data file: https://github.com/pds-data-dictionaries/ldd-chan1/blob/master/build/release/1.E.0.0_1.1.1.0/PDS4_CHAN1_1E00_1110.csv Run LDDTool</p>

Test ID	IM.7
Issue ID	pds4-information-model#283
Issue Type	defect
Issue Description	LDDTool generated LIDs for XML Schema Label Products do not contain IM or LDD Version Ids.
Comments	<p>Example original LID : urn:nasa:pds:system_bundle:xml_schema:orex-xml_schema Example requested LID : urn:nasa:pds:system_bundle:xml_schema:orex-xml_schema 1.15.0.0 1.1.0.0</p>
Test Plan	<p>Run LDDTool Verify generated LIDs for XML Schema Label products contains IM or LDD version id.</p>

Test ID	IM.8
Issue ID	pds4-information-model#301
Issue Type	defect
Issue Description	LDDTool does not generate the correct namespace for PSA dictionaries
Comments	
Test Plan	<p>lddtool -lp <PSA Ingest file> the dictionary generated he namespace should be: xmlns:psa=http://psa.esa.int/psa/v1"</p>

Test ID	IM.9
Issue ID	pds4-information-model#302
Issue Type	defect
Issue Description	LDDTool does not allow the bundle to be specified for generated dictionaries
Comments	
Test Plan	<p>Datafile: https://github.com/NASA-PDS/pds4-information-model/files/5874679/Ingest_PDS4_PSA.zip Run LDDTool Verify urn:psa:esa:system_bundle:</p>

	Is not system_bundle
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Test ID	IM.10
Issue ID	pds4-information-model#304
Issue Type	defect
Issue Description	LDDTool does include the PSA namespace
Comments	When the PSA Ingest_LDD files Ingest_PDS4_PSA_1201.xml and Ingest_PDS4_PSA_BC_1005.xml are processed by LDDTool the resulting XML Schema file does not contain the PSA namespace declaration. In addition, the BC namespace is written however it is not correct. It contains duplicate terms.
Test Plan	Data file: https://github.com/NASA-PDS/pds4-information-model/issues/304 Run LDDTool The PSA namespace and a correct BC namespace should be written to the XML Schema file.

Test ID	IM.11
Issue ID	pds4-information-model#312
Issue Type	Improvements
Issue Description	LDDTool does not generate the complete "All LDD" version of the WebHelp PDS4 Data Dictionary Document
Comments	Bug caused by prior bug fix
Test Plan	Run LDDTool and verify output document

Test ID	IM.12
Issue ID	pds4-information-model#316
Issue Type	defect
Issue Description	The 1F00 directory is missing from the Data directory for the 1G00 development release.
Comments	The 1F00 directory was missing from the Data directory for the 1G00 development release. The 1F00 directory is being uploaded.
Test Plan	\$ lddtool -lpd -V 1F00 Ingest_PDS4_PSA_1300.xml Expected behavior The error should not occur.

Test ID	IM.13
Issue ID	pds4-information-model#322
Issue Type	defect
Issue Description	LDDTool generates a 1C00 file when -V 1B00 is specified.
Comments	LDDTool generates a 1C00 file when -V 1B00 is specified on the command line..

Test Plan	\$ lddtool -lpd -V 1B00 Ingest_PDS4_PSA_1300.xml Expected behavior LDDTool should generate a 1B00 file when -V 1B00 is specified on the command line.
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Test ID	IM.14
Issue ID	pds4-information-model#327
Issue Type	defect
Issue Description	Repo tests fail when trying to run back-to-back maven steps.
Comments	Not an Int&T test case
Test Plan	TBD

Test ID	IM.15
Issue ID	pds4-information-model#328
Issue Type	defect
Issue Description	LDDTool outputs invalid schema with v13.0.0.
Comments	
Test Plan	Test file: https://raw.githubusercontent.com/pds-data-dictionaries/ldd-img/master/src/PDS4_IMG_IngestLDD.xml Verify Output XSD contains valid schema.

Test ID	IM.16
Issue ID	pds4-information-model#331
Issue Type	defect
Issue Description	Invalid output schema when trying to set an Internal_Reference reference_type value set
Comments	
Test Plan	Test file: M2020 LDD and IMG LDD <pre>lddtool-13.1.0-SNAPSHOT/bin/lddtool -lpJ -V 1F00 \ \$(pwd)/../ldd-img/src/PDS4_IMG_IngestLDD.xml \ \$(pwd)/../ldd- m2020/src/PDS4_MARS2020_IngestLDD.xml</pre> Verify Output schema.

Test ID	IM.17
Issue ID	pds4-information-model#167
Issue Type	enhancement
Issue Description	LDDTool: Use sch:value-of to display a variable in Schematron validation
Comments	
Test Plan	Create ingest file with the example in https://github.com/NASA-PDS/pds4-information-model/issues/167 Verify in validate/Schematron validation

Test ID	IM.18
Issue ID	pds4-information-model#238
Issue Type	enhancement
Issue Description	Continuing refactoring of IMTool / LDDTool
Comments	
Test Plan	Create ingest file with the example in https://github.com/NASA-PDS/pds4-information-model/issues/167 Verify in validate/Schematron validation

Test ID	IM.19
Issue ID	pds4-information-model#293
Issue Type	enhancement
Issue Description	Update JSON output to include dependencies in output
Comments	
Test Plan	Check output json file, verify it includes the following: "namespaces": ["pds:", "geom:", "cart:"]

Pds Registry App

Test ID	REG.1
Issue ID	pds-registry-app#108
Issue Type	defect
Issue Description	harvest and registry manager in pds-registry-app-0.2.2-bin.zip are missing batch scripts for windows
Comments	Windows 10
Test Plan	Build pds-registry-app project: mvn clean mvn package Extract pds-registry-app-0.2.2-bin.zip to a folder Check harvest-3.3.1/bin and registry-manager-4.0.2/bin folders. Expected behavior <ul style="list-style-type: none"> harvest-3.3.1/bin should contain harvest.bat file. registry-manager-4.0.2/bin should contain registry-manager.bat file.

Test ID	REG.2
Issue ID	pds-registry-app#109
Issue Type	defect
Issue Description	Test data in pds-registry-app-0.2.2-bin.zip contains invalid PDS4 labels
Comments	Windows 10
Test Plan	Build pds-registry-app project yourself or download 0.2.2 release ZIP.Extract the ZIP.

	<p>Check /test/dph_example_products/Product_Observational/ Table_Character_draft1.xml file.</p> <p>The file should not has empty lid and vid fields:</p>
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Test ID	REG.3
Issue ID	pds-registry-app#110
Issue Type	defect
Issue Description	Test data in pds-registry-app-0.2.2-bin.zip is missing data products.
Comments	Windows 10
Test Plan	<ol style="list-style-type: none"> 1. Build pds-registry-app project yourself or download 0.2.2 release ZIP. 2. Extract the ZIP. 3. Check /test/dph_example_products/Product_Document/ folder. It should include 2 files: <p>pancam_photometry_archive_description.xml pancam_photometry_archive_description.pdf</p>

Test ID	REG.4
Issue ID	pds-registry-app#112
Issue Type	defect
Issue Description	Make example harvest configuration more explicit
Comments	No description on what changes has been made, and what the expected outcome would look like.
Test Plan	TBD

Test ID	REG.5
Issue ID	pds-registry-app#135
Issue Type	defect
Issue Description	docker build is version locked
Comments	
Test Plan	DNA

Test ID	REG.6
Issue ID	pds-registry-app#102
Issue Type	enhancement
Issue Description	Add the API to the pds-registry-app package, with documentation
Comments	
Test Plan	Verify the documentation of the API has been added for this release.

Test ID	REG.7
Issue ID	pds-registry-app#103
Issue Type	enhancement
Issue Description	update registry-manager load-data to handle additional use cases

Comments	
Test Plan	Data File: https://github.com/NASA-PDS/pds-registry-app/files/5513774/regapp10.zip Registry-manage should accept the file.

Test ID	REG.8
Issue ID	pds-registry-app#123
Issue Type	Improvements
Issue Description	Update registry-mgr documentation as stated in #86
Comments	
Test Plan	Check registry-mgr document for AWS deployment

Pds-wds-web

Test ID	WDS.1
Issue ID	pds-wds-web_9
Issue Type	defect
Issue Description	App Bar causes usability issues on mobile
Comments	Screen width 375px (iPhone)
Test Plan	<ul style="list-style-type: none"> Go to https://sbn.psi.edu/pds on a mobile device, or using Chrome dev tools on iPhone X Scroll horizontally <p>Expected behavior Page should not be wider than its content, and users should not be able to scroll horizontally. Buttons should be approx. 48px wide</p>

Test ID	WDS.2
Issue ID	pds-wds-web_15
Issue Type	defect
Issue Description	App Bar breaks facet selection on Photojournal Beta
Comments	
Test Plan	<ul style="list-style-type: none"> Visit https://photojournal.jpl.nasa.gov/beta Change the value in one of the dropdowns at the top. The facet should change.

Test ID	WDS.3
Issue ID	pds-wds-web_15
Issue Type	enhancement
Issue Description	Show screenshot of app-bar in README
Comments	
Test Plan	Check README.md.

Test ID	WDS.4
Issue ID	pds-wds-web_15

Issue Type	enhancement
Issue Description	Show screenshot of app-bar in README
Comments	
Test Plan	Check README.md.

Test ID	WDS.5
Issue ID	pds-wds-web_17
Issue Type	enhancement
Issue Description	App Bar Node List Reordering
Comments	
Test Plan	Check https://sbn.psi.edu/pds/ Click on “Find a Node” drop down. Verify the nodes are in alphabetical order