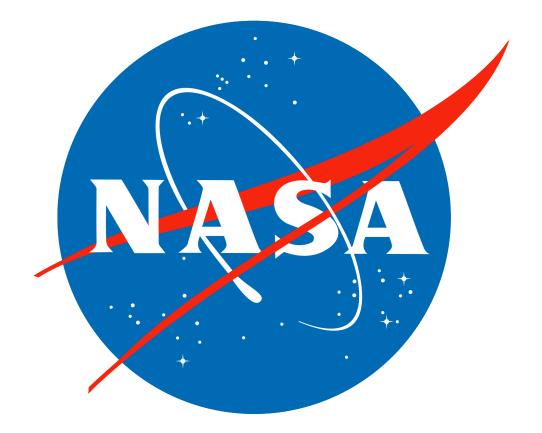
Plan Document

NASA Planetary Data System PDS4 System Build 3b Node Testing Procedures & Report



Change Log

Revision	Date	Description	Author
Draft		Initial draft release.	
1	Sept 14, 2013	Initial release	Richard Chen, Emily Law

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1 Introduction

1.1 Purpose and Scope

This document includes specific test procedures and reports test steps and results of tests that demonstrate the PDS4 Build 3b system deployed at the PDS Discipline Nodes by EN. It verifies that PDS4 system Build 3b has no critical defects and as planned in the PDS4 Build 3b Node Testing Plan (posted on http://pds.nasa.gov/pds4/orr0913/build3bTestPlanNodes.pdf), in which the Test Traceability Matrix can be found in its Section 3.

For PDS4 Build 3b, the following software have been deployed at the Discipline Nodes:

- Ingest: Harvest
- Preparation: Design, Validate
- Registry
- Search: Service

Detailed release description documents facilitate and detail the deployment activities.

1.2 Document Revision

Revisions of this document will be held in the PDS Engineering Node website through the use of its document history functionality. Previous versions of this document can be accessed through the use of that tool.

1.3 Applicable Documents

1.3.1 Controlling Documents

[1] Planetary Data System Strategic Roadmap 2006 - 2016, February 2006.

[2] Planetary Data System Level 1, 2 and 3 Requirements, August 2006.

1.3.2 Referenced Documents

- [3] PDS4 Project Plan, July 2013.
- [4] PDS4 Operations Concept, September 2013.
- [4] System Architecture Specification, September 2013.
- [5] General System Requirements, September 2013.
- [6] Software Requirements and Design, 2013
- [7] PDS4 Standards Documents, 2013

2 Executive Summary

2.1 Assessment

The tools and services tested here work with the versions specified.

2.2 Major Findings

All tested tools and services worked as described in the Service Software Requirements and Design documents.

2.3 Success

Tools and services performed as documented.

2.4 Metrics

This section provides a summary of the test metrics

# of tests	# of tests	# of tests	# of high priority
performed	passed	failed	anomalies
4	4	0	0

3 Test Procedures

The following section lists procedures and results for the test cases identified in Section 3 of the PDS4 System Build 3b Node Testing Plan Section 3. These tests will be run as necessary to re-test the system after software changes.

Section 3.2 below contains a sequence of tests that demonstrates how a bundle of products passes through the PDS4 software. The tests were performed using analogous MAVEN and LADEE data products

3.1 Setup

The tests in section 3.2 require the installation of the following PDS4 software:

- Harvest, http://pds-engineering.jpl.nasa.gov/pds2010/development/3.1.1/ingest/harvest
- Validate, <u>http://pds-engineering.jpl.nasa.gov/pds2010/development/3.1.1/preparation/validate</u>
- an XML editor, e.g. Oxygen. This can be skipped, though not recommended.
- an XML-friendly web **browser**, e.g. firefox

The tester might install and configure a registry if 1) no registry is available for testing, or 2) the tester wants more control over the registry, e.g. after a test step fails, the tester may wish to reset the registry. However, installation and configuration of that software and of the required Apache Tomcat server might be difficult. If so desired, install:

- Registry, http://pds-engineering.jpl.nasa.gov/pds2010/development/3.1.1/registry/registry-service
- Registry UI, http://pds-engineering.jpl.nasa.gov/pds2010/development/3.1.1/registry/registry-ui

Please follow the installation instructions carefully. For more help, the file NOTES.txt, included in PDS4test.build3b.tgz (see SETUP below), details one tester's configuration experience, particularly regarding the registry.

testDir	directory where input files are extracted
binDir	directory where the PDS4 software are installed
Harvest	If the registry is uncontrolled (a choice made during installation), do not replace. Else:
	harvest –u <i>username –ppassword</i>
	Also add "-k <i>keystorePassword</i> " depending on the registry configuration, especially if Harvest gives error "Keystore password must be specified"
http://localhost:8080	the URL of the registry
http://pdsbeta.jpl.nasa.gov	the URL of the search service working off the EN's registry

In the tests in the rest of this document, replace

Note that the tests are written for Unix, but running on other platforms requires simple changes.

Test Case ID	SETUP
Description	This is not a test. This sets up test data.
Test Steps	 mkdir <i>testDir</i> cd <i>testDir</i> In browser: http://pds-engineering.jpl.nasa.gov/index.cfm?pid=145&cid=187 Download "Test Data (.tgz)" tar xzf PDS4test.build3b.tgz PDS4test.build3b/harvest-policy-master.xml mv PDS4test.build3b/harvest-policy-master.xml . The ATMOS node provides this sample bundle, with context products: In browser: http://atmos.nmsu.edu/pub/PDS4/Version_1.0.0.0 Download "met_bundle_1000.tar.gz" tar xzf met_bundle_1000.tar.gz mv met_bundle_1000 <i>testDir</i> The Data Provider's Handbook provides sample products that utilize the types needed for LADEE and MAVEN: In browser: http://pds-engineering.jpl.nasa.gov/index.cfm?pid=145&cid=187 Download "PDS4 Example Products - (.zip)" unzip dph_example_products.zip mv dph_example_products <i>testDir</i>

The tests require this:

Many test sequences in this document assume a local registry, which may get corrupted during testing. The following step resets the registry:

Test Case ID	RESETREGISTRY
Description	This is not a test. This wipes the database and the search indices clean. <i>dbDir</i> is the directory for the database, set during the initialization of Tomcat.
Test Steps	<pre>\$CATALINA_HOME/bin/shutdown.sh rm -f -r dbDir mkdir dbDir cd binDir/registry-service-1.4.1 java -Djava.ext.dirs=lib/ org.apache.derby.tools.ij connect 'jdbc:derby:registry;create=true;user=registry'; run 'conf/derby-registry-schema.ddl'; exit; mv registry dbDir/registry rm derby.log \$CATALINA_HOME/bin/startup.sh # usually a pause is needed here cd binDir/registry-service-1.4.1/bin; ./registry-config</pre>
Test Results	startup.sh: Using CATALINA_BASE: /Library/apache-tomcat-7.0.30 Using CATALINA_HOME: /Library/apache-tomcat-7.0.30 Using CATALINA_TMPDIR: /Library/apache-tomcat-7.0.30/temp

F	
	Using JRE_HOME: /Library/Java/Home
	Using CLASSPATH: :/PDS4tools/search-service/lib/saxon-9.jar:/Library/apache-tomcat-
	7.0.30/bin/bootstrap.jar:/Library/apache-tomcat-7.0.30/bin/tomcat-juli.jar
	registry-config:
	* About to connect() to localhost port 8080 (#0)
	* Trying ::1
	* connected
	* Connected to localhost (::1) port 8080 (#0)
	> POST
	/registry/configure?name=Core+Objects&description=This+configures+the+core+set+of+registry+object
	s HTTP/1.1
	> User-Agent: curl/7.24.0 (x86_64-apple-darwin12.0) libcurl/7.24.0 OpenSSL/0.9.8r zlib/1.2.5
	> Host: localhost:8080
	> Accept: */*
	1 '
	> Content-type:application/xml
	> Content-Length: 6201
	> Expect: 100-continue
	< HTTP/1.1 100 Continue
	< HTTP/1.1 201 Created
	< Server: Apache-Coyote/1.1
	< Location: http://localhost:8080/registry/packages/urn:uuid:bffd4b92-e45e-4a48-8455-683bc9585d20
	< Content-Type: text/plain
	< Transfer-Encoding: chunked
	< Date: Sat, 14 Sep 2013 03:39:46 GMT
	<
	* Connection #0 to host localhost left intact
	urn:uuid:bffd4b92-e45e-4a48-8455-683bc9585d20* Closing connection #0
	* About to connect() to localhost port 8080 (#0)
	* Trying ::1
	* connected
	* Connected to localhost (::1) port 8080 (#0)
	> POST /registry/configure?name=PDS+Objects&description=This+configures+PDS+object+types
	HTTP/1.1
	> User-Agent: curl/7.24.0 (x86_64-apple-darwin12.0) libcurl/7.24.0 OpenSSL/0.9.8r zlib/1.2.5
	> Host: localhost:8080
	> Accept: */*
	> Content-type:application/xml
	> Content-Length: 13063
	> Expect: 100-continue
	>
	< HTTP/1.1 100 Continue
	< HTTP/1.1 201 Created
	< Server: Apache-Coyote/1.1
	< Server: Apache-Coyote/1.1 < Location: http://localhost:8080/registry/packages/urn:uuid:c4300e02-57db-4a18-8092-6858566f8a06
	< Content-Type: text/ plain < Transfer-Encoding: chunked
	< Date: Sat, 14 Sep 2013 03:39:46 GMT
	<
	* Connection #0 to host localhost left intact
	urn:uuid:c4300e02-57db-4a18-8092-6858566f8a06* Closing connection #0
	* About to connect() to localhost port 8080 (#0)
	* Trying ::1
	* connected
	* Connected to localhost (::1) port 8080 (#0)
	> POST
	/registry/configure?name=Core+Associations&description=This+configures+the+core+set+of+associatio
	ns HTTP/1.1
	> User-Agent: curl/7.24.0 (x86_64-apple-darwin12.0) libcurl/7.24.0 OpenSSL/0.9.8r zlib/1.2.5
	> Host: localhost:8080
	> Accept: */*
	> Content-type:application/xml
	> Content-Length: 544
	>
	* upload completely sent off: 544 out of 544 bytes
	< HTTP/1.1 201 Created
	< Server: Apache-Coyote/1.1
	< Location: http://localhost:8080/registry/packages/urn:uuid:2559a22a-4797-40c5-aeb2-3584edf7c04a
	< Content-Type: text/plain
	< Transfer-Encoding: chunked
	< Date: Sat, 14 Sep 2013 03:39:46 GMT
	<

1	
	* Connection #0 to host localhost left intact
	urn:uuid:2559a22a-4797-40c5-aeb2-3584edf7c04a* Closing connection #0
	* About to connect() to localhost port 8080 (#0)
	* Trying ::1
	* connected
	* Connected to localhost (::1) port 8080 (#0)
	> POST
	/registry/configure?name=PDS+Associations&description=This+configures+PDS+association+types HTTP/1.1
	> User-Agent: curl/7.24.0 (x86_64-apple-darwin12.0) libcurl/7.24.0 OpenSSL/0.9.8r zlib/1.2.5 > Host: localhost:8080
	> Accept: */*
	> Content-type:application/xml
	> Content-Length: 7952
	> Expect: 100-continue
	>
	< HTTP/1.1 100 Continue
	<hr/>
	< Server: Apache-Covote/1.1
	< Location: http://localhost:8080/registry/packages/urn:uuid:c332c48e-060f-40b2-8a51-14f537619b77
	< Content-Type: text/plain
	< Transfer-Encoding: chunked
	< Date: Sat, 14 Sep 2013 03:39:46 GMT
	<
	* Connection #0 to host localhost left intact
	urn:uuid:c332c48e-060f-40b2-8a51-14f537619b77* Closing connection #0

3.2 Testing of Bundle Processing

The NODESTEST sequence was performed to test the PDS4 software's handling of LADEE and MAVEN representative products from creation to registration to retrieval. Two set of data were used for this testing including

- 1. A PDS4 PHX product bundle (Table_character) created by ATMOS node as representative for LADEE , refer to as PHX bundle from here on.
- 2. A PDS4 MAVEN and LADEE analogous product bundle (Table_character, Table_Binary, Array_1D and Array_2D etc), created by EN, refer to as EN bundle from here on.

Test Case ID	NODESTEST.1
Description	Use a design tool to create PDS4 labels for products, and associated context (including bundle, collection, investigation archive webpage, investigations, resources) based on PDS's schema.
Test Steps	In general, consult Appendix D of the Data Providers' Handbook (DPH), Version 1.0.0
Test Results	Creation of one PDS4 label per product and delivery to EN test staff.
Comments	Results met test successful criteria
Date of Testing	2013.09.13
Test Personnel	Richard Chen

Test Case ID	NODESTEST.2
Description	Validate PDS4 product labels generated in NODESTEST.1 using the PDS4 Validate Tool.
Test Steps	In general: • validate <i>directoryOrFile</i> –e "*.xml" To test the PHX bundle (see step SETUP above)

	1 ad tost Din
	1. cd testDir
	2. curl
	http://pds.nasa.gov/pds4/schema/released/pds/v1/PDS4_PDS_1000.xsd >
	PDS4_PDS_1000.xsd
	3. curl
	http://pds.nasa.gov/pds4/schema/released/pds/v1/PDS4_PDS_1000.sch >
	PDS4_PDS_1000.sch
	4. validate met_bundle_1000 -x PDS4_PDS_1000.xsd -S PDS4_PDS_1000.sch -x
	met_bundle_1000/xml_schema/PHXMD_1000.xsd -e "*.xml" > v.out
	5. grep -v "PASS: file" v.out uniq
	To test the EN bundle (see step SETUP above)
	1. cd <i>testDir</i> /dph_example_products
	The EN products were created using various schema and schematron files.
	2. validate ingest_dd product_array_2d_image product_delimited_table
	product_document product_header_and_tableChar product_table_binary
	product_table_binary_packed product_table_character_grouped -e "*.xml" -x
	xml_schema/dph_example_dict_0100.xsd
	3. curl
	http://pds.nasa.gov/repository/pds4/examples/dph_examples_1100/dph_e
	xample_products/xml_schema/PDS4_PDS_1100.sch >/PDS4_PDS_1100.sch
	4. validate xml_schema product_array_1d -e "*.xml" -x
	xml_schema/PDS4_PDS_1100.xsd -x xml_schema/dph_example_dict_0100.xsd
	-S/PDS4_PDS_1100.sch
	5. validate product_array_3d_image product_table_character_grouped -e "*.xml"
	-x xml_schema/dph_example_dict_0100.xsd -x
	product_array_3d_image/PDS4_SP_1001.xsd -S
	product_array_3d_image/PDS4_SP_1001.sch
Test Results	
Test Results	PHX bundle test step 4: v.out has 1732 lines, mostly "PASS: file:" followed by a
	blank line.
	PHX bundle test step 5:
	PDS Validate Tool Report Configuration:
	Version 1.3.1
	Time Fri, Sep 13 2013 at 08:56:31 PM
	Parameters: Target(s) [met_bundle_1000]
	Target(s) [met_bundle_1000] User-Specified Schemas [PDS4_PDS_1000.xsd, met_bundle_1000/xml_schema/PHXMD_1000.xsd]
	User-Specified Schematrons [PDS4_PDS_1000.sch]
	Severity Level Warnings
	Recurse Directories true File Filter(s) Used [*.xml]
	Validation Details:
	Summary:
	855 of 855 file(s) processed, 0 skipped 855 of 855 file(s) passed validation
	End of Report
	EN bundle test step 2:
	PDS Validate Tool Report
1	Configuration:
	Version 1.3.1
	Version1.3.1TimeFri, Sep 13 2013 at 11:31:15 PMCore Schematrons[PDS4_PDS_1000.sch]Model Version1000
	Version1.3.1TimeFri, Sep 13 2013 at 11:31:15 PMCore Schematrons[PDS4_PDS_1000.sch]Model Version1000Parameters:
	Version1.3.1TimeFri, Sep 13 2013 at 11:31:15 PMCore Schematrons[PDS4_PDS_1000.sch]Model Version1000
	Version 1.3.1 Time Fri, Sep 13 2013 at 11:31:15 PM Core Schematrons [PDS4_PDS_1000.sch] Model Version 1000 Parameters: Target(s) [ingest_dd, product_array_2d_image, product_delimited_table, product_document, product_header_and_tableChar, product_table_binary, product_table_binary_packed, product_table_character]
	Version 1.3.1 Time Fri, Sep 13 2013 at 11:31:15 PM Core Schematrons [PDS4_PDS_1000.sch] Model Version 1000 Parameters: Target(s) [ingest_dd, product_array_2d_image, product_delimited_table, product_document, product_header_and_tableChar, product_table_binary, product_table_binary_packed, product_table_character] User-Specified Schemas [xml_schema/dph_example_dict_0100.xsd]
	Version 1.3.1 Time Fri, Sep 13 2013 at 11:31:15 PM Core Schematrons [PDS4_PDS_1000.sch] Model Version 1000 Parameters: Target(s) [ingest_dd, product_array_2d_image, product_delimited_table, product_document, product_header_and_tableChar, product_table_binary, product_table_binary_packed, product_table_character]

Test Case ID	NODESTEST.3						
Description	Use Harvest Tool to register PDS4 product labels, bundles, and collections generated in NODESTEST.1. Context products will be registered by EN.						
Test Steps	 In general: In browser, http://localhost:8080/registry-ui/ to see no registrations harvest directoryOrFile -e "*.xml" -c testDir/harvest-policy-master.xml In browser, http://localhost:8080/registry-ui/. You may enter one product's LID (wildcards accepted) to verify the registration and hit "Refresh" To test the PHX bundle: cd testDir In browser, http://localhost:8080/registry-ui/. You may enter one product's LID (wildcards accepted) to verify the registration and hit "Refresh" To test the PHX bundle: cd testDir In browser, http://localhost:8080/registry-ui/ to see no registrations harvest met_bundle_1000 -e "*.xml" -c harvest-policy-master.xml -l h.out grep -v "SUCCESS:\ INFO:" h.out In browser, http://localhost:8080/registry-ui/ to see no registrations harvest the EN products: cd testDir In browser, http://localhost:8080/registry-ui/ to see no registrations harvest dph_example_products -e "*.xml" -c harvest-policy-master.xml -l h.out grep -v "SUCCESS:\ INFO:" h.out In browser, http://localhost:8080/registry-ui/ to see no registrations 						
Test Results	Merge the two sequences above, i.e. the bundle to harvest is test LADEE PHX bundle test step 2: <pre> Registry Service Registry Service Registry Service Planetary Data System Registry Service Planetary Data System Registry Service Services Services</pre>						
	Any Object Type Any Status Refresh Clear Status Delete						
	Product Registry Image: Name LID Version Name Object Type Status There is no data to display Name LID Version Name Object Type Status PHX bundle test step 3: h.out has 27393 lines, mostly "SUCCESS:" or "INFO:" PHX bundle test step 4: PDS Harvest Tool Log Version 14.1 Time Fri, Sep 13 2013 at 09:10:03 PM Target(s) [met_bundle_1000] File Inclusions [*.xml] Severity Level INFO Registry Location http://localhost:8080/registry Registry 264Age Name The standard harvest policy file, I think Registry Dackage GUID urn:uuid:7b44a2dd-f2e4-4b5f-9017-f355cb8e80bb WARNING: [met_bundle_1000/xml_schema/collection_xml_schema.:1.0. LIDVID will be used as the target reference for the association. WARNING: [met_bundle_1000/context/collection_met_context.xml] Product not found in registry for reference: urn:nasa:pds:context:investigation:mission.phoenix::1.0. LIDVID will be used as the target reference for the association. WARNING: [met_bundle_1000/context/collection_met_context.xml] Product not found in registry for reference: urn:nasa:pds:context:instrument_host:instrument_host.phx::1.0. LIDVID will be used as the target reference for the association. WARNING: [met_bundle_1000/context/collection_met_context.xml] Product not found in registry for reference: urn:nasa:pds:context:instrument_host:instrument_hos						

PHX	reference: urn:nasa reference for the a Summary: 855 of 855 file(s) p 0 error(s), 5 warnin 855 of 855 product	rocessed, 0 other file(s) skipped ng(s) s registered. ary products registered. gistered: ent rvational chema fon _Repository iations registered.			
	alhost:8080/registry-ui/	☆ ₹ C	<mark>8</mark> ▼ Go	oogle (
2	Registry Service +				
Produ	ct Registry				
	Name	LID		Object Type	Status
	PHOENIX MARS MET Experiment	um:nasa:pds:phx_met:reduced:MS091RML_00904284716_1AB3M1	1.0	Product_Observational	Submitted
	MS037RML_00899504104_142AM1	um:nasa:pds:phx_met:reduced:MS037RML_00899504104_142AM1:MS037F		Product_File_Repository	Submitted Submitted
	MS112RMH_00906151614_1D10M1 MS128RML_00907573532_1EC0M1	urr:nasa:pds:phx_met:reduced:MS112RMH_00906151614_1D10M1:MS112 urr:nasa:pds:phx_met:reduced:MS128RML_00907573532_1EC0M1:MS128		Product_File_Repository Product_File_Repository	Submitted
	PHOENIX MARS MET Experiment		1.0	Product_Observational	Submitted
	PHOENIX MARS MET Experiment	urr:nasa:pds:phx_met:reduced:MS061RMH_00901626574_16E1M1	1.0	Product_Observational	Submitted
	MS081EMH_00903433418_1966M1	urn:nasa:pds:phx_met:raw:MS081EMH_00903433418_1966M1:MS081EMH	1.0	Product_File_Repository	Submitted
	MS118RMC_00906684420_1DBEM1	urn:nasa:pds:phx_met:reduced:MS118RMC_00906684420_1DBEM1:MS118	1.0	Product_File_Repository	Submitted
	MS070RMA_00902428899_17FFM1	um:nasa:pds:phx_met:reduced:MS070RMA_009024288999_17FFM1:MS070F	1.0	Product_File_Repository	Submitted
	MS056RMA_00901165576_1644M1	urn:nasa:pds:phx_met:reduced:MS056RMA_00901165576_1644M1:MS056F	1.0	Product_File_Repository	Submitted
	PHOENIX MARS MET Experiment	urn:nasa:pds:phx_met:reduced:MS111RMH_00906060844_1CF4M1	1.0	Product_Observational	Submitted
	MS012EMH_00897273738_11D0M1	um:nasa:pds:phx_met:raw:MS012EMH_00897273738_11D0M1:MS012EMH	1.0	Product_File_Repository	Submitted
	MS016RMC_00897627887_1232M1	um:nasa:pds:phx_met:reduced:MS016RMC_00897627887_1232M1:MS016F	1.0	Product_File_Repository	Submitted
	MS127EML_00907484403_1E97M1	urn:nasa:pds:phx_met:raw:MS127EML_00907484403_1E97M1:MS127EML_		Product_File_Repository	Submitted
	PHOENIX MARS MET Experiment	urn:nasa:pds:phx_met:reduced:MS142RML_00908818109_1FD5M1	1.0	Product_Observational	Submitted
	MS045RMH_00900200855_1508M1	um:nasa:pds:phx_met:reduced:MS045RMH_00900200855_1508M1:MS045F		Product_File_Repository	Submitted
	MS017RML_00897715428_124CM1	um:nasa:pds:phx_met:reduced:MS017RML_00897715428_124CM1:MS017F	1.0	Product_File_Repository	Submitted
	PHOENIX MARS MET Experiment MS026EMH_00898516776_1327M1	urr:nasa:pds:phx_met:reduced:MS070RML_00902428899_17FFM1 urr:nasa:pds:phx_met:raw:MS026EMH_00898516776_1327M1:MS026EMH_	1.0	Product_Observational Product_File_Repository	Submitted Submitted
	PHXMD_1000	um:nasa:pds:pds/pds/metram.web2ec/mi_bbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbb		Product_File_Repository	Submitted
					oubilitiou
	Name 1 of 130 Total Records		Version	Object Type	Status
EN b		s the same as PHX bundle test step 2 nout has 510 lines, mostly "SUCCES Version 1.4.1 Sat, Sep 14 2013 at 12:36:11 AM [dph_example_products] [*.xml] INFO http://localhost:8080/registry		." or "INFO:	"
	Registry Package l Registration Packa SKIP: [dph_example_pro product_class elem	Name The standard harvest policy file, I think age GUID urn:uuid:65911659-7dad-4d55-9331-58 oducts/product_table_character_grouped/PDS4	3bd6 _AFN _1001	1_D_HEADER_T	t_class elen

	EN	0 error(s), 0 12 of 12 proc 49 of 49 anci Product Typ 1 Product_D 9 Product_C 2 Product_X 49 Product_1	ducts registered llary products bes Registered Document Deservational ML_Schema File_Repositor beiations regis	ed. s registered. :	skipped Registry Service			
		calhost:8080/registry-ui/				ि र ८ (▼ Google	Q. I. A
			+				labogic	
	CUID	Registry Service				01-1		
	GUID	LID	Nan	ne	Object Type Any Object Type	Status Any St	atus 🗘 Refres Clea	Update Status Delet
	Produ	uct Registry						
		Name		LID		Version N	ame Object Type	Status
		Clementine UVVIS Digital Image	a Model UI24S003	urn:nasa:pds:mo	on_clem_uvvis:data:ui24s003	1.0	Product_Observational	Submitted
		PDS4_ATM_TABLE_CHAR		urn:nasa:pds:ex	mple.dph.sampleproducts:exam	npleprodu 1.0	Product_File_Repository	Submitted
		PHOENIX Mars Wind Experime	nt	urn:nasa:pds:ex	mple.dph.sampleproducts:exam	npleprodu 1.0	Product_Observational	Submitted
		Product_Table_Binary_packed		urn:nasa:pds:ex	mple.dph.sampleproducts:exam	npleprodu 1.0	Product_File_Repository	Submitted
		image020		urn:nasa:pds:ex	mple.dph.sampleproducts:exam	npleprodu 1.0	Product_File_Repository	Submitted
		meca_rdr_sis			mple.dph.sampleproducts:exan		Product_File_Repository	Submitted
		image019					Product_File_Repository	Submitted
					ample.dph.sampleproducts:exan			
		image012			ample.dph.sampleproducts:exan		Product_File_Repository	Submitted
		PDS4 Spectra XML Schema V0	.2	urn:nasa:pds:sys	tem_bundle:xml_schema:pds-sp	pectra 1.0	Product_XML_Schema	Submitted
		PDS4_PDS_1100		urn:nasa:pds:sys	tem_bundle:xml_schema:pds-xr	ml_schem 1.0	Product_File_Repository	Submitted
		image022		urn:nasa:pds:ex	mple.dph.sampleproducts:exam	npleprodu 1.0	Product_File_Repository	Submitted
		PDS4_SP_1001		urn:nasa:pds:sys	tem_bundle:xml_schema:pds-sp	pectra:PD 1.0	Product_File_Repository	Submitted
		PDS4 XML Schema V1100 pds	:	urn:nasa:pds:sys	tem_bundle:xml_schema:pds-xr	ml_schem 1.0	Product_XML_Schema	Submitted
		C1050125		urn:nasa:pds:ex	mple.dph.sampleproducts:exam	npleprodu 1.0	Product_File_Repository	Submitted
		PDS4_PDS_1100			tem_bundle:xml_schema:pds-xr		Product_File_Repository	Submitted
		image008			ample.dph.sampleproducts:exam		Product_File_Repository	Submitted
		image001			ample.dph.sampleproducts:exam		Product_File_Repository	Submitted
		PHOENIX Mars Wind Experime	nt	urn:nasa:pds:ex	ample.dph.sampleproducts:exam	npleprodu 1.0	Product_Observational	Submitted
		image018		urn:nasa:pds:ex	mple.dph.sampleproducts:exam	npleprodu 1.0	Product_File_Repository	Submitted
		PDS4_PDS_1100		urn:nasa:pds:sys	tem_bundle:xml_schema:pds-xr	ml_schem 1.0	Product_File_Repository	Submitted
	•	1 of 4 Total Rec		LID		Version N	ame Object Type	Status
Comments	PHD mer proo targ they EN The	ults met test suc X bundle test ste nbers that are r ducts (the scher get mars, and th 7 are not issues. bundle test step y are, in order,	ccessful cr ep 4: the 5 not yet reg ma for pds e instrum o 4: the 3 s a file to be	iteria. warnings istered as s, the miss ent phoen skipped fil e merged,	primary mem ion phoenix, ti ix/met) would es are .xml file	bers. Tha he instru d be prim es but are	t is correct, for nent host phoe ary elsewhere. not labels for j	those enix, the Therefore products.
Date of Testing		refore, they are 3.09.13	1101 15500	3.				
Test Personnel		nard Chen						

Upon completition of NODETEST.3 above, wait for EN to register context products (including investigation archive webpage), synchronize registries, and rebuild search indices before proceeding to next Node test step below.

Separate testing of these EN activites is documented in the PDS4 Build 3b Test Procedures and Report http://pds.nasa.gov/pds4/orr0913/build3bProceduresReportEN.pdf.

Test Case ID	NODESTEST.4					
Description	Find registered products using PDS Home Page Data Search and download products from the Node.					
Test Steps	 In general: In browser, http://pdsbeta.jpl.nasa.gov Click "DATA" tab. In the main text box, search for archive pages for investigations, other information (including instrument, instrument_host, target, investigation), and/or any bundles or collections registered in NODESTEST.3 Click a search result to get more information. Downloading of To test the PHX bundle: same as above In the main text box: investigation:phoenix and instrument:met Click the first Data Set, PHOENIX MARS METEOROLOGICAL PRESSURE / TEMPERATURE EDR V1.0 					
Test Results	PHX bundle test step 3:					

	PDS: Search Results
Og pdsbeta/tools/data-sea	arch/search.jsp?q=investigation%3A 🏫 🔻 C 🛛 🚷 Google 🔍 🗣 🍙 🕼
Registry Service	× PDS: Search Results × +
HOME ABOUT PDS DATA	TOOLS & DOCUMENTS RELATED SITES CONTACT US CITING PDS DATA
Data Search Form Search H	ow to Search Data Set Status Data Release Summary
Refine Your Search	Search Results
Type	
Collection (4)	investigation:phoenix and instrument:met Search New Search
Data Set (4)	1–10 of 10 results (0.002 seconds)
Bundle (1)	
Search Tool (1)	Search Tools
Investigation	These tools let you search for data products matching your query. This is usually the best way to access the data. If no tool looks appropriate, you can browse the matching data sets, below.
Phoenix (6)	Search Tool: Phoenix Analyst's Notebook
Met (4)	Information about Phoenix Analyst's Notebook
Model Version	
PDS4 (5)	Data Sets and Information
PDS3 (4)	Bundle: MET Bundle Information about MET Bundle
	Collection: PDS4 Phoenix MET reduced data Collection
	Information about PDS4 Phoenix MET reduced data Collection
	Collection: PDS4 Phoenix MET context Collection Information about PDS4 Phoenix MET context Collection
	Collection: PDS4 Phoenix MET raw data Collection Information about PDS4 Phoenix MET raw data Collection
	Collection: PDS4 Phoenix MET Document Collection Information about PDS4 Phoenix MET Document Collection
	Data Set: PHOENIX MARS METEOROLOGICAL PRESSURE / TEMPERATURE EDR V1.0 Information about PHX-M-MET-2-PT-EDR-V1.0 PHOENIX - PHX-M-MET-2-PT-EDR-V1.0 - starting 2008-05-26T00:08:36.308Z
	Data Set: PHOENIX MARS MET LIDAR ATMOSPHERIC PROFILES RDR V1.0 Information about PHX-M-MET-3-L-RDR-V1.0 PHOENIX - PHX-M-MET-3-L-RDR-V1.0 - starting 2008-05-28T20:35:58.613Z
	Data Set: PHOENIX MARS METEOROLOGICAL PRESSURE / TEMPERATURE RDR V1.0 Information about PHX-M-MET-3-PT-RDR-V1.0 PHOENIX - PHX-M-MET-3-PT-RDR-V1.0 - starting 2008-05-26T00:08:36.308Z
	Data Set: PHOENIX MARS MET LIDAR ATMOSPHERIC PROFILES EDR V1.0 Information about PHX-M-MET-2-L-EDR-V1.0 PHOENIX - PHX-M-MET-2-L-EDR-V1.0 - starting 2008-05-28T20:35:58.613Z
PHX bundle test step 4	-
ł	

	O O PDS: Data Set Information	K						
	 ✓ Ø pdsbeta.jpl.nasa.gov/ds-view/pds/viewDataset.jsp?dsid=P ☆ マ C ✓ Google Q Q M M M 							
	Registry Service × PDS: Data Set Information × +							
	NASA Portal Search for:							
	PDS: The Planetary Data System • Site Help • Feedback • Phone Book in PDS data Go							
	HOME ABOUT PDS DATA TOOLS & DOCUMENTS RELATED SITES CONTACT US CITING PDS DATA							
	Data Search Form Search How to Search Data Set Status Data Release Summary							
	PHX MET pre-processed Pressure and Temperature Data.							
	Citation Dickinson, C. D., PHX METEOROLOGICAL DATA V1.0, NASA Planetary Data System, 2008.							
	Data Set The PHX METEOROLOGICAL DATA product contains pre-processed (Digital Numbers) temperature and pressure data. The temperature data was collected at 250, 500 and 1000mm above the Phoenix Lander deck, and the pressure data was collected at (nearly) the beinh							
	Abstract the Lander deck. Nominally the data was collected at 2 sec resolution, but is also provided at 512 sec averages (with distribution statisti							
	Additional Information							
	Mission PHOENIX							
	Data Set Information PHX-M-MET-2-PT-EDR-V1.0							
	Instrument Host PHX Information							
	Instrument Information							
	Target MARS							
	Atmospheres Mars Archive Resources Phoenix Analyst Notebook PHX MET EDR Volume PHMT_0XXX							
		I						
Comments	Results met test successful criteria							
Date of Testing	2013.09.13							
Test Personnel	Richard Chen							

4 Anomalies

The JIRA tracking system (http://www.atlassian.com/software/jira) is being used to capture discrepancies found during testing.

No JIRA issue was created for this test.

For the full JIRA list, http://oodt.jpl.nasa.gov/jira/browse/PDS

4.1 Major Issues

None

4.2 Open anomalies None

5 Test Data

Test data used can be downloaded from: http://pds.nasa.gov/pds4/orr0913/nodeTestData.tgz

Appendix A: Acronyms

CM - Configuration Management DN - PDS Discipline or Data Node GUI - Graphical User Interface EN - PDS Engineering Node I&T - Integration and Test NASA - National Aeronautics and Space Administration OS - Operating System PDS - Planetary Data System PDS3 - Version 3.8 of the PDS Data Standards PDS4 - Version 4.0 of the PDS Data Standards PDS4 - PDS4 Project PDS MC - PDS Management Council SDD - Software Design Document SRD - Software Requirements Document