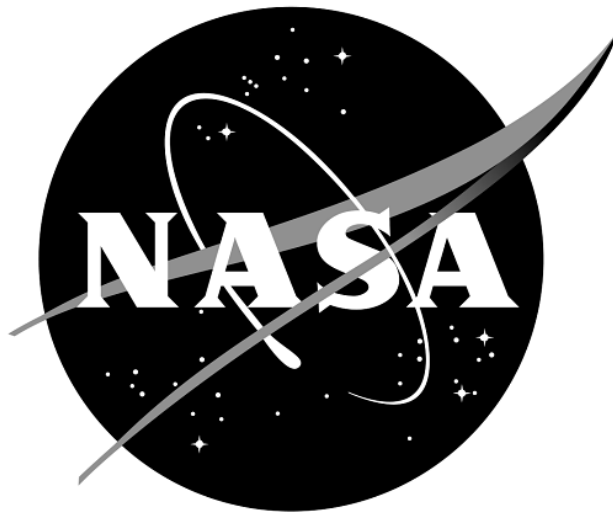

Plan Document

NASA Planetary Data System

PDS 2010 System

Build 2 Test Procedures & Report



No index entries found. Change Log

Revision	Date	Description	Author
Draft		Initial draft release.	
1c	May 16, 2011	Modified many tests to work with build 1c of Harvest and Registry. Other minor revisions.	Richard Chen
1d	Oct 24, 2011	Updated for build 1d	Richard Chen
2a	Nov 11, 2011	Updated for build 2a	Richard Chen
2b	Feb 28, 2012	Updated for build 2b	Richard Chen
2b.1	Mar 7, 2012	Re-added HVT.T3, expanded SCH.T5	Richard Chen
2c	Jul 17, 2012	Updated for build 2c	Richard Chen

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1 Introduction

1.1 Purpose and Scope

This software system test documents specific test procedures and reports test steps and results of the system level tests that demonstrate the PDS 2010 system deployed for Build 2b. It verifies that PDS 2010 system Build 2b is compliant with Build 2 requirements, and ensures that the beta system functions are without critical defects. Test Traceability Matrix can be found in the PDS 2010 Build 2b Test Plan Section 4.

For PDS 2010 Build 2c, the following Prototype Software will be deployed at the EN:

- PDS Ingest subsystem (Harvest, Registry, Inventory, Document, Dictionary services), Report and Security services
- Tools suite (Label design and validation, Label and Schema generation)
- Internal administrative portal

In future tests, the following Prototype Software will be deployed at one or two Discipline Nodes:

- Registry, Harvest services, and Report client

Detailed prototype release description document will be generated to facilitate and to detail the deployment activities.

Test resource will include EN developer to support unit testing, and Integration Team (which consists of EN and Node staff) to perform integration testing.

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] PDS 2010 Project Plan, March 2010.

[4] PDS 2010 Operations Concept, March 2010.

[4] System Architecture Specification, May 2010.

[5] General System Requirements, June 11, 2011.

[6] Service Software Requirements and Design, for the following:

- Registry Service, June 11, 2011
- Harvest Tool, June 12, 2011
- Security Service, June 11, 2011
- Report Service, June 12, 2011
- Preparation Tools, June 15, 2011
- Search Service, June 12, 2011

[7] PDS 2010 Build 2 Test Plan, July 2012.

2 Executive Summary

2.1 Assessment

The tools and services tested here work with the versions specified. However, changes to them and/or the information model broke tests that worked previously, and that is very likely to happen again.

2.2 Major Findings

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

2.3 Success

Tools and services performed as documented.

2.4 Metrics

This section provides a summary of the test metrics

# of tests performed	# of tests passed	# of tests failed	# of high priority anomalies
29	28	1	1

3 Test Procedures

The following section lists procedures and results for the test cases identified as the suite of “PDS 2010 Build 2 system tests” in the PDS 2010 Build 2 Test Plan Section 3. These tests will be run as necessary to re-test the system after any software changes.

The test procedures assume the following software are installed locally:

- an XML-friendly web **browser**, e.g. firefox
- **curl**, a command-line utility to access a URL, used here to manipulate a registry. The Registry Service Guide has more information. This is native to most versions of unix.
- an **XML editor**, e.g. eclipse. This can be skipped, though not recommended.
- **Harvest**, <http://pds-engineering.jpl.nasa.gov/pds2010/development/2.2.0/ingest/harvest>
- **Validate**, <http://pds-engineering.jpl.nasa.gov/pds2010/development/2.2.0/preparation/validate>
- **Generate**, <http://pds-engineering.jpl.nasa.gov/pds2010/development/2.2.0/preparation/generate>
- **Catalog**, <http://pds-engineering.jpl.nasa.gov/pds2010/development/2.2.0/ingest/catalog>

The **Registry**, <http://pds-engineering.jpl.nasa.gov/pds2010/development/2.2.0/registry/registry-service/>, can reside remotely or locally, controlled or uncontrolled. Local installation makes testing easier, but installation and configuration can be difficult.

Please follow the installation instructions. For example, the Harvest and harvest-ctrl commands usually require editing to use the correct registry, and those two and Validate also require editing to set environment variable JAVA_HOME.

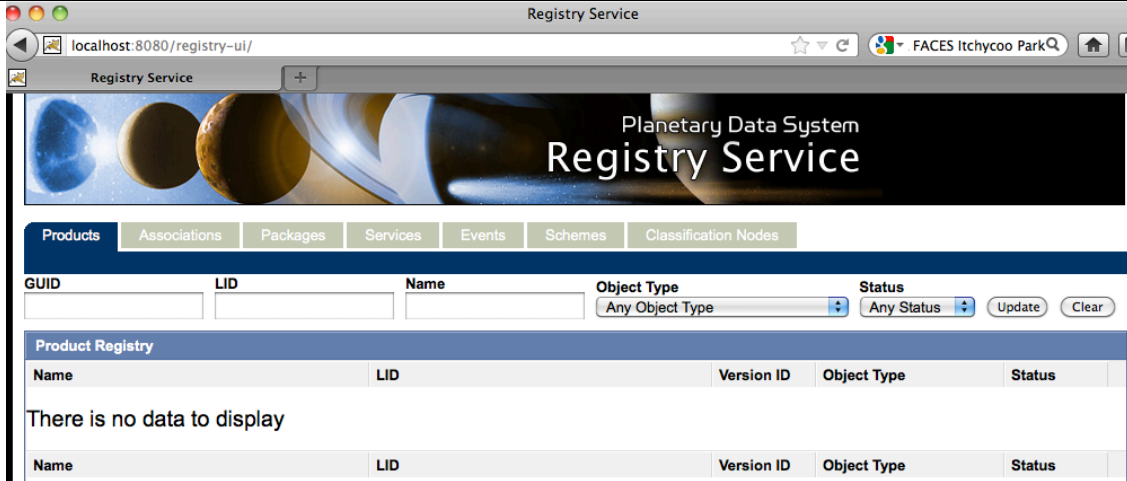
The tests are written for Unix, though running on Windows should require only simple changes.

In the test procedures below, globally replace:

<i>testDir</i>	directory where input files are extracted
<i>harvestOptions</i>	<ul style="list-style-type: none"> • If the registry is uncontrolled, nothing • Else “-uusername -ppassword” Add “-k keystorePassword” depending on the registry configuration, e.g. if Harvest gives error “Keystore password must be specified”
<i>curlOptions</i>	<ul style="list-style-type: none"> • If the registry is uncontrolled, nothing • Else “-uusername:password -k”
<i>registryURL</i>	Depends. <ul style="list-style-type: none"> • http://localhost:8080, local, uncontrolled. Requires installing and configuring Apache Tomcat and the Registry Others that may be available: <ul style="list-style-type: none"> • https://localhost:8080, local, controlled. Requires installing and configuring Apache Tomcat, the Registry, and Security

	<ul style="list-style-type: none"> • https://potato.jpl.nasa.gov, a remote, controlled server
--	--

Test Case ID	SETUP for all tests
Description	This is not really a test.
Test Steps	<p>Get PDS4test.build2c.zip from the "Test Procedures Input" link at http://pds-engineering.jpl.nasa.gov/index.cfm?pid=145&cid=183. Extract the input files:</p> <pre>mkdir testDir cd testDir unzip PDS4test.build2c.zip mkdir holdings</pre>
Test Results	
Comments	
Date of Testing	
Test Personnel	Richard Chen

Test Case ID	AATESTME.T1
Description	Query for a registered artifact
Test Steps	<p>Verify in browser: http://localhost:8080/registry-ui If "Product Registry" shows rows of data, type "TESTING*" in LID, then hit "Update". If registry-ui is not installed, http://localhost:8080/registry/extrinsics/logicals/TESTING:example.DPH.sampleProducts:exampleProducts:Array2D_Image.MPFL-M-IMP-2-EDR-V1.0</p>
Test Results	 <p>If registry-ui has data to display, delete the product from the registry via AATESTME.T5 and re-run this test.</p>
Comments	
Date of Testing	2012 Jul 09

Test Personnel	Richard Chen
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Test Case ID	AATESTME.T2
Description	Create a PDS Product Label using a design tool that initiates from an existing or a blank schema, accepts schema specification from a URL or a filename, facilitates editing of the label via standard editing features, validates, exports the schema, and generates the file for the product.
Test Steps	<p>Off-the-shelf XML editors, both free (e.g. eclipse) and commercial (oxygen), provide the functionality required. Verification of installation suffices. Thus,</p> <pre> mkdir holdings cp testAAtestme/minimallImage.xml holdings/minimallImage.xml </pre> <p>If manual verification of the XML editor's sufficiency as the design tool is desired, use the editor to create, validate, and export file holdings/minimallImage.xml (instead of copying above). Tutorials for all editors are widely available. The file's contents:</p> <pre> <?xml version="1.0" encoding="UTF-8"?> <?xml-model href="http://pds.jpl.nasa.gov/repository/pds4/examples/dph_examples_8k/dph_example_products/schemas/PDS4_PDS_0800k.sch"?> <?xml version="1.0" encoding="UTF-8"?> <?xml-model href="http://pds.jpl.nasa.gov/repository/pds4/examples/dph_examples_8k/dph_example_products/schemas/PDS4_PDS_0800k.sch"?> <Product_Observational xmlns="http://pds.nasa.gov/pds4/pds/v08" xmlns:pds="http://pds.nasa.gov/pds4/pds/v08" xmlns:dph="http://pds.nasa.gov/pds4/dph/v01" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://pds.nasa.gov/pds4/pds/v08 http://pds.jpl.nasa.gov/repository/pds4/examples/dph_examples_8k/dph_example_products/schema s/PDS4_PDS_0800k.xsd http://pds.nasa.gov/pds4/dph/v01 http://pds.jpl.nasa.gov/repository/pds4/examples/dph_examples_8k/dph_example_products/local_d ictionaries/dph_example_dict_0800k.xsd"> <Identification_Area> <logical_identifier>TESTING:example.DPH.sampleProducts:exampleProducts:Array2D_Image.MPFL-M IMP-2-EDR-V1.0</logical_identifier> <version_id>1.0</version_id> <title>MARS PATHFINDER LANDER Experiment</title> <information_model_version>0.8.0.0.k</information_model_version> <product_class>Product_Observational</product_class> <Modification_History> <Modification_Detail> <modification_date>2012-01-10</modification_date> <version_id>1.0</version_id> <description> extracted metadata from PDS3 catalog and modified to comply with PDS4 Information Model </description> </Modification_Detail> </Modification_History> </Identification_Area> <Observation_Area> <comment>Observational Intent</comment> <Time_Coordinates> <start_date_time>1997-07-07T23:48:33.442Z</start_date_time> <stop_date_time>1997-07-07T23:48:51.766Z</stop_date_time> <local_mean_solar_time>not applicable</local_mean_solar_time> <local_true_solar_time>not applicable</local_true_solar_time> </Time_Coordinates> <Investigation_Area> <name>MARS_PATHFINDER</name> <type>Mission</type> <Internal_Reference> <lidvid_reference>TESTING:investigation.MARS_PATHFINDER::1.0</lidvid_reference> <reference_type>data_to_investigation</reference_type> </pre>

```

</Internal_Reference>
</Investigation_Area>
<Observing_System>
  <name>Observing System for MPFL+IMP</name>
  <Observing_System_Component>
    <name>MPFL</name>
    <observing_system_component_type>Spacecraft</observing_system_component_type>
    <description>instrument_host MPFL</description>
    <Internal_Reference>
      <lid_reference>TESTING:instrument_host.MPFL</lid_reference>
      <reference_type>is_instrument_host</reference_type>
    </Internal_Reference>
  </Observing_System_Component>
  <Observing_System_Component>
    <name>TT</name>
    <observing_system_component_type>Instrument</observing_system_component_type>
    <description>instrument TT</description>
    <Internal_Reference>
      <lid_reference>TESTING:instrument.IMP__MPFL</lid_reference>
      <reference_type>is_instrument</reference_type>
    </Internal_Reference>
  </Observing_System_Component>
</Observing_System>
<Target_Identification>
  <name>MARS</name>
  <type>planet</type>
  <description>description of MARS goes here</description>
  <Internal_Reference>
    <lidvid_reference>TESTING:target.MARS::1.0</lidvid_reference>
    <reference_type>data_to_target</reference_type>
  </Internal_Reference>
</Target_Identification>
<!-- ===== -->
<!-- Reference the attributes that were imported from the -->
<!-- local dictionary (using the local namespace (dph) -->
<!-- ===== -->
<Mission_Area>
  <dph:spacecraft_clock_start_count>1246943630</dph:spacecraft_clock_start_count>
  <dph:spacecraft_clock_stop_count>unkown</dph:spacecraft_clock_stop_count>
</Mission_Area>
<Node_Area>
</Node_Area>
</Observation_Area>
<Reference_List>
  <Internal_Reference>
    <lidvid_reference>TESTING:investigation.MARS_PATHFINDER::1.0</lidvid_reference>
    <reference_type>data_to_document</reference_type>
  </Internal_Reference>
  <Internal_Reference>
    <lid_reference>TESTING:instrument_host.MPFL</lid_reference>
    <reference_type>data_to_document</reference_type>
  </Internal_Reference>
  <Internal_Reference>
    <lid_reference>TESTING:instrument.IMP__MPFL</lid_reference>
    <reference_type>data_to_document</reference_type>
  </Internal_Reference>
  <Internal_Reference>
    <lid_reference>TESTING:target.MARS</lid_reference>
    <reference_type>data_to_document</reference_type>
  </Internal_Reference>
  <Internal_Reference>
    <lid_reference>urn:nasa:pds:node.IMG</lid_reference>
    <reference_type>data_to_document</reference_type>
  </Internal_Reference>
</Reference_List>
<File_Area_Observational>
  <File>
    <file_name>i943630r.raw</file_name>
    <local_identifier>i943630r.raw</local_identifier>
    <creation_date_time>2009-05-04T13:46:30.1158Z</creation_date_time>
    <file_size>126976</file_size>
    <records>270</records>

```

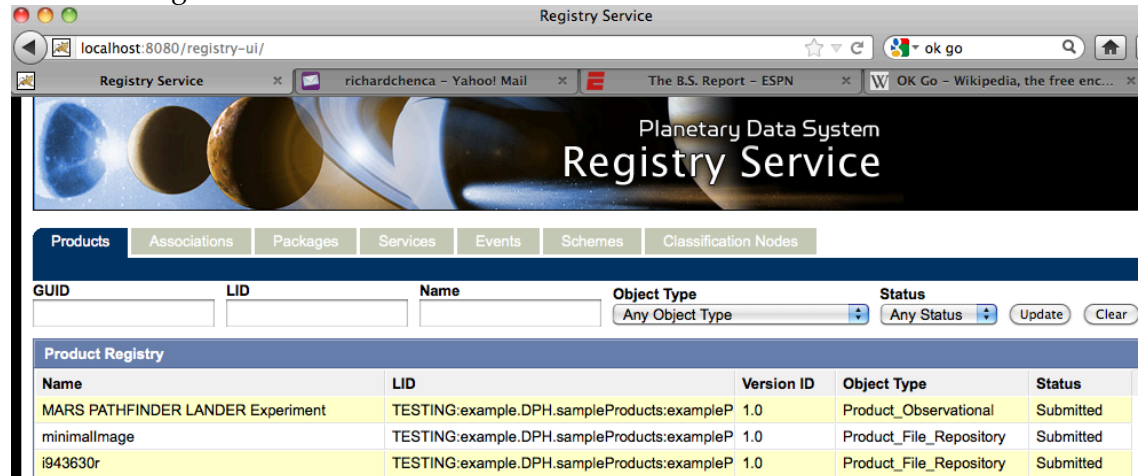
	<pre> <md5_checksum>d220dac0d1fe312f3f3b9c824f6ac294</md5_checksum> </File> <Array_2D_Image> <local_identifier>MPFL-M-IMP_IMG_GRAYSCALE</local_identifier> <offset unit="byte">0</offset> <axes>2</axes> <axis_index_order>Last_Index_Fastest</axis_index_order> <encoding_type>Binary</encoding_type> <Element_Array> <data_type>UnsignedMSB2</data_type> <unit>data number</unit> <scaling_factor>0</scaling_factor> <value_offset>0</value_offset> </Element_Array> <Axis_Array> <axis_name>Line</axis_name> <elements>248</elements> <unit>not applicable</unit> <sequence_number>1</sequence_number> </Axis_Array> <Axis_Array> <axis_name>Sample</axis_name> <elements>256</elements> <unit>not applicable</unit> <sequence_number>2</sequence_number> </Axis_Array> <Object_Statistics> <local_identifier>MPFL_M_IMP_STATISTICS</local_identifier> <maximum>4095</maximum> <minimum>145</minimum> <mean>1385.3000</mean> <standard_deviation>538.0290</standard_deviation> </Object_Statistics> <Display_2D_Image> <line_display_direction>Up</line_display_direction> <sample_display_direction>Right</sample_display_direction> </Display_2D_Image> </Array_2D_Image> </File_Area_Observational> </Product_Observational> </pre>
Test Results	File minimallImage.xml sits in directory holdings/.
Comments	
Date of Testing	2012 Jul 09
Test Personnel	Richard Chen

Test Case ID	AATESTME.T3
Description	For Harvest, provide a command-line interface, accept a configuration file, determine candidates for registration, capture metadata, submit metadata to the Registry Service. Registry accepts the artifact, assigns a global unique ID to the product. Registry relates artifacts via (LID-based) association.
Test Steps	<ol style="list-style-type: none"> 1. cp testAAtestme/harvestPolicy.xml . 2. Create the data file referred to in the label: touch holdings/i943630r.raw 3. harvest <i>harvestOptions testDir/holdings -c harvestPolicy.xml</i> 4. Verify the product registration: http://localhost:8080/registry-ui 5. Verify the registration of LID-based associations: http://localhost:8080/registry/extrinsics/logicals/TESTING:example.DPH.sampleProducts:exampleProducts:Array2D_Image.MPFL-M-IMP-2-EDR-V1.0
Test Results	Step 3 returns the following: PDS Harvest Tool Log Version Version 1.2.0

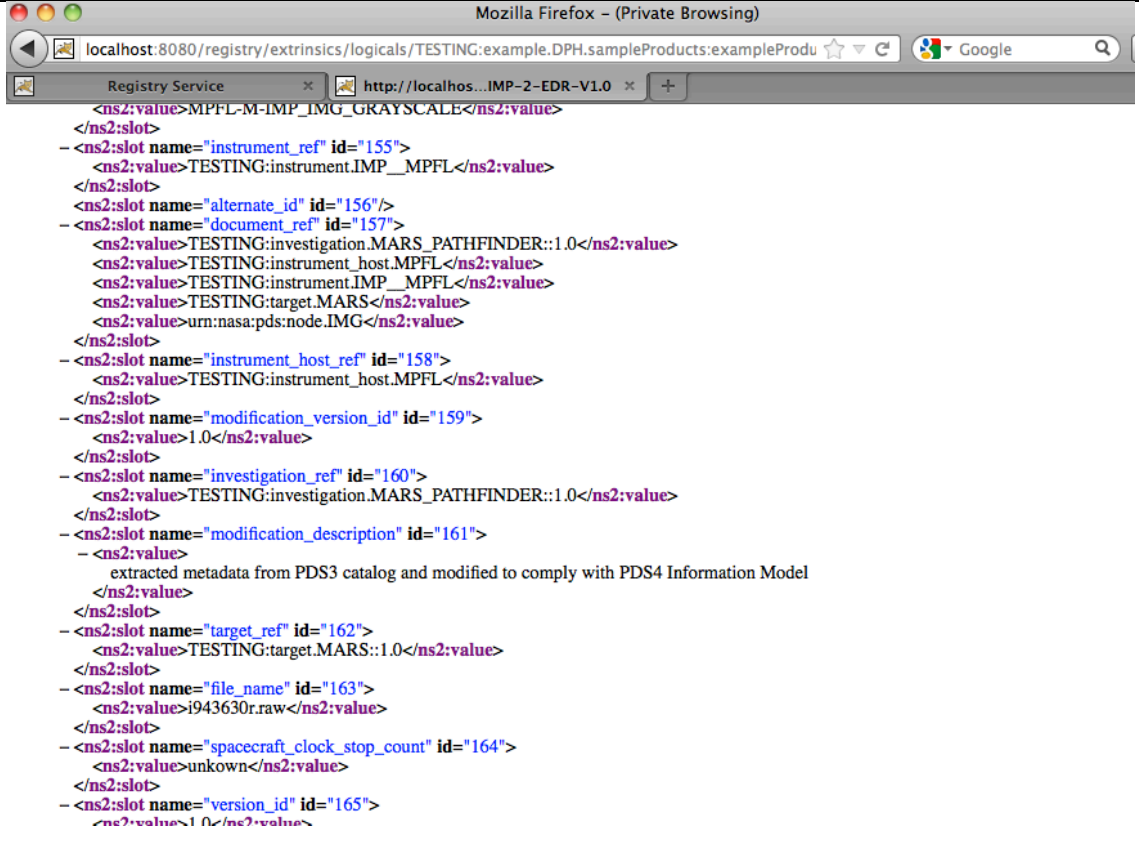
Time Tue, Jul 10 2012 at 09:16:34 AM
Severity Level INFO
Registry Location http://localhost:8080/registry
Registry Package Name Harvest Package Example
Registration Package GUID urn:uuid:c81a51bd-943d-41aa-a7e5-2a1d08ca2354
INFO: XML extractor set to the following default namespace: http://pds.nasa.gov/pds4/pds/v08
INFO: [holdings/i943630r.raw] Begin processing.
ERROR: [holdings/i943630r.raw] Premature end of file.
INFO: [holdings/minimalImage.xml] Begin processing.
INFO: [holdings/minimalImage.xml] line 41: Mapping reference type 'data_to_investigation' to 'investigation_ref'.
INFO: [holdings/minimalImage.xml] line 52: Mapping reference type 'is_instrument_host' to 'instrument_host_ref'.
INFO: [holdings/minimalImage.xml] line 61: Mapping reference type 'is_instrument' to 'instrument_ref'.
INFO: [holdings/minimalImage.xml] line 71: Mapping reference type 'data_to_target' to 'target_ref'.
INFO: [holdings/minimalImage.xml] line 88: Mapping reference type 'data_to_document' to 'document_ref'.
INFO: [holdings/minimalImage.xml] line 92: Mapping reference type 'data_to_document' to 'document_ref'.
INFO: [holdings/minimalImage.xml] line 96: Mapping reference type 'data_to_document' to 'document_ref'.
INFO: [holdings/minimalImage.xml] line 100: Mapping reference type 'data_to_document' to 'document_ref'.
INFO: [holdings/minimalImage.xml] line 104: Mapping reference type 'data_to_document' to 'document_ref'.
INFO: [holdings/minimalImage.xml] Setting LIDVID-based association, 'urn:nasa:pds:investigation.MARS_PATHFINDER:1.0', under slot name 'investigation_ref'.
INFO: [holdings/minimalImage.xml] Setting LID-based association, 'urn:nasa:pds:instrument_host.MPFL', under slot name 'instrument_host_ref'.
INFO: [holdings/minimalImage.xml] Setting LID-based association, 'urn:nasa:pds:instrument.IMP__MPFL', under slot name 'instrument_ref'.
INFO: [holdings/minimalImage.xml] Setting LIDVID-based association, 'urn:nasa:pds:target.MARS:1.0', under slot name 'target_ref'.
INFO: [holdings/minimalImage.xml] Setting LIDVID-based association, 'urn:nasa:pds:investigation.MPFL:1.0', under slot name 'document_ref'.
INFO: [holdings/minimalImage.xml] Setting LID-based association, 'urn:nasa:pds:instrument_host.MPFL', under slot name 'document_ref'.
INFO: [holdings/minimalImage.xml] Setting LID-based association, 'urn:nasa:pds:instrument.IMP__MPFL', under slot name 'document_ref'.
INFO: [holdings/minimalImage.xml] Setting LID-based association, 'urn:nasa:pds:target.MARS', under slot name 'document_ref'.
INFO: [holdings/minimalImage.xml] Setting LID-based association, 'urn:nasa:pds:node.IMG', under slot name 'document_ref'.
SUCCESS: [holdings/minimalImage.xml] Successfully registered product:
TESTING:example.DPH.sampleProducts:exampleProducts:Array2D_Image.MPFL-M-IMP-2-EDR-V1.0::1.0
INFO: [holdings/minimalImage.xml] Product has the following GUID: [urn:uuid:09c2245d-280c-4ca5-838d-c39fd2272e7c](#)
INFO: [holdings/minimalImage.xml] Capturing file information for minimalImage.xml
INFO: [holdings/minimalImage.xml] Capturing file object metadata for i943630r.raw
WARNING: [holdings/minimalImage.xml] Generated checksum 'd41d8cd98f00b204e9800998ecf8427e' does not match supplied checksum 'd220dac0d1fe312f3b9c824f6ac294' for file object 'i943630r.raw'.
SUCCESS: [holdings/minimalImage.xml] Successfully registered product:
TESTING:example.DPH.sampleProducts:exampleProducts:Array2D_Image.MPFL-M-IMP-2-EDR-V1.0:minimalImage.xml::1.0
INFO: [holdings/minimalImage.xml] Product has the following GUID: [urn:uuid:3041b230-5e02-4326-9e25-350d95bfd44b](#)
SUCCESS: [holdings/minimalImage.xml] Successfully registered product:
TESTING:example.DPH.sampleProducts:exampleProducts:Array2D_Image.MPFL-M-IMP-2-EDR-V1.0:i943630r.raw::1.0
INFO: [holdings/minimalImage.xml] Product has the following GUID: [urn:uuid:b2d55454-e019-43fd-a79b-cb66d9be806b](#)
SUCCESS: [holdings/minimalImage.xml] Successfully registered association to
TESTING:example.DPH.sampleProducts:exampleProducts:Array2D_Image.MPFL-M-IMP-2-EDR-V1.0:minimalImage.xml::1.0
INFO: [holdings/minimalImage.xml] Association has the following GUID: urn:uuid:84e671e1-5e78-4e85-9fee-4951f8e23029
SUCCESS: [holdings/minimalImage.xml] Successfully registered association to
TESTING:example.DPH.sampleProducts:exampleProducts:Array2D_Image.MPFL-M-IMP-2-EDR-V1.0:i943630r.raw::1.0
INFO: [holdings/minimalImage.xml] Association has the following GUID: urn:uuid:89b13a30-e89b-4a72-ac8a-a0cf9cfd24b3

Summary:
 1 of 3 file(s) processed, 0 other file(s) skipped
 1 error(s), 1 warning(s)
 1 of 1 products registered.
 2 of 2 ancillary products registered.
 Product Types Registered:
 1 Product_Observational
 2 Product_File_Repository
 0 of 1 generated checksums matched their supplied value, 1 generated value(s) not checked.
 2 of 2 associations registered.
 End of Log

Harvest registered product holdings/minimallImage.xml because it has a <product_class> that matches one of harvestPolicy.xml's objectType.
 Step 4 shows the registration of the product referred to in minimallImage.xml as well as two extra products associated with this product: the metadata file (i.e. the label) minimallImage.xml and the data file i943630r.raw.



Step 5 shows associations to products with LIDs TESTING:investigation.MARS_PATHFINDER::1.0, TESTING:target.MARS, TESTING:instrument_host.MPFL, TESTING:instrument.IMP__MPFL

	 <pre> <ns2:value>MPFL-M-IMP_IMG_GRAYSCALE</ns2:value> </ns2:slot> - <ns2:slot name="instrument_ref" id="155"> <ns2:value>TESTING:instrument.IMP__MPFL</ns2:value> </ns2:slot> <ns2:slot name="alternate_id" id="156"> - <ns2:slot name="document_ref" id="157"> <ns2:value>TESTING:investigation.MARS_PATHFINDER::1.0</ns2:value> <ns2:value>TESTING:instrument_host.MPFL</ns2:value> <ns2:value>TESTING:instrument.IMP__MPFL</ns2:value> <ns2:value>TESTING:target.MARS</ns2:value> <ns2:value>urn:nasa:pds:node.IMG</ns2:value> </ns2:slot> - <ns2:slot name="instrument_host_ref" id="158"> <ns2:value>TESTING:instrument_host.MPFL</ns2:value> </ns2:slot> - <ns2:slot name="modification_version_id" id="159"> <ns2:value>1.0</ns2:value> </ns2:slot> - <ns2:slot name="investigation_ref" id="160"> <ns2:value>TESTING:investigation.MARS_PATHFINDER::1.0</ns2:value> </ns2:slot> - <ns2:slot name="modification_description" id="161"> - <ns2:value> extracted metadata from PDS3 catalog and modified to comply with PDS4 Information Model </ns2:value> </ns2:slot> - <ns2:slot name="target_ref" id="162"> <ns2:value>TESTING:target.MARS::1.0</ns2:value> </ns2:slot> - <ns2:slot name="file_name" id="163"> <ns2:value>i943630r.raw</ns2:value> </ns2:slot> - <ns2:slot name="spacecraft_clock_stop_count" id="164"> <ns2:value>unkown</ns2:value> </ns2:slot> - <ns2:slot name="version_id" id="165"> <ns2:value>1.0</ns2:value> </pre>
Comments	
Date of Testing	2012 Jul 10
Test Personnel	Richard Chen

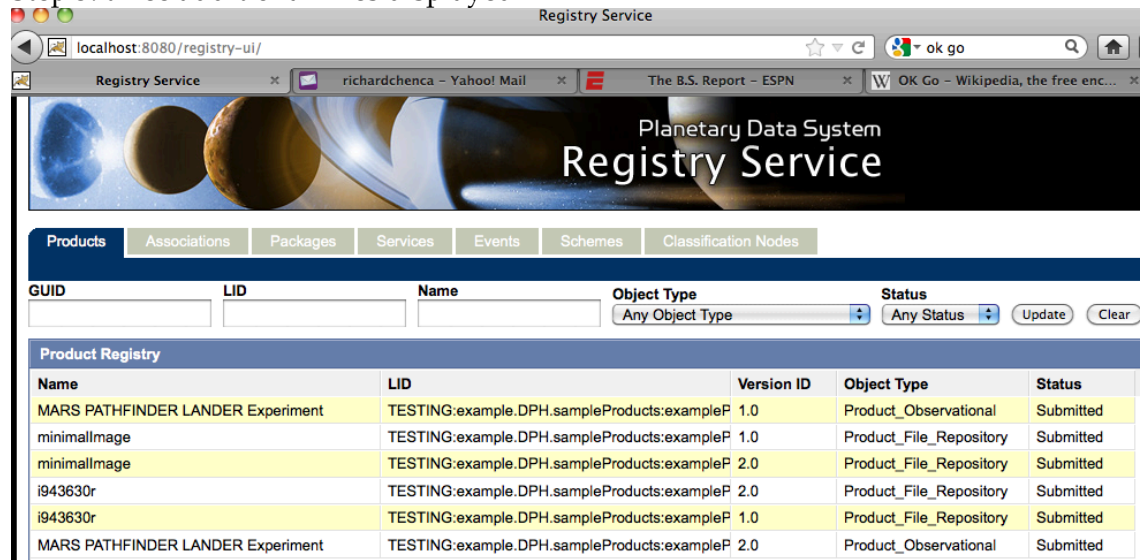
Test Case ID	AATESTME.T4
Description	(Skip this test if registry is uncontrolled) Authorize only authenticated users access to a controlled capacity.
Test Steps	1. harvest <i>harvestOptions</i> -uusername -pBAD_PASSWORD -k testDir/holdings -c harvestPolicy.xml
Test Results	<p>Step 2:</p> <pre> <html><head><title>Apache Tomcat/6.0.26 - Error report</title><style><!--H1 {font-family:Tahoma,Arial,sans-serif;color:white;background-color:#525D76;font-size:22px;} H2 {font-family:Tahoma,Arial,sans-serif;color:white;background-color:#525D76;font-size:16px;} H3 {font-family:Tahoma,Arial,sans-serif;color:white;background-color:#525D76;font-size:14px;} BODY {font-family:Tahoma,Arial,sans-serif;color:black;background-color:white;} B {font-family:Tahoma,Arial,sans-serif;color:white;background-color:#525D76;} P {font-family:Tahoma,Arial,sans-serif;background:white;color:black;font-size:12px;} A {color : black;} A.name {color : black;} HR {color : #525D76;--></style> </head><body><h1>HTTP Status 401 - </h1><HR size="1" noshade="noshade"><p>type Status report</p><p>message <u></u></p><p>description <u>This request requires HTTP authentication ().</u></p><HR size="1" noshade="noshade"><h3>Apache Tomcat/6.0.26</h3></body></html> Summary: 0 of 0 file(s) processed, 0 skipped 0 of 0 products registered. 0 of 0 associations registered, 0 skipped End of Log </pre>
Comments	
Date of Testing	
Test Personnel	Richard Chen

Test Case ID	AATESTME.T5
Description	Update and delete registered artifacts.
Test Steps	<ol style="list-style-type: none"> 1. In holdings/minimalImage.xml, change Identification_Area/version_id to 4.4 2. harvest <i>harvestOptions testDir/holdings -c harvestPolicy.xml</i> 3. Verify in browser: http://localhost:8080/registry-ui 4. In AATESTME.T3's Test Results, step 3's output includes GUIDs (highlighted) assigned by harvest/registry to the 3 version 1.0 products. For each, replace <i>guid</i> below with the GUID: <pre>curl -X DELETE -v http://localhost:8080/registry/extrinsics/guid</pre> 5. Verify in browser: http://localhost:8080/registry-ui 6. Step 2's output includes GUIDs (highlighted) assigned by harvest/registry to the 3 version 4.4 products. For each, replace <i>guid</i> below with the GUID: <pre>curl -X DELETE -v http://localhost:8080/registry/extrinsics/guid</pre> 7. Verify in browser: http://localhost:8080/registry-ui
Test Results	<p>Step 2:</p> <pre> PDS Harvest Tool Log Version Version 1.2.0 Time Tue, Jul 10 2012 at 09:21:19 AM Severity Level INFO Registry Location http://localhost:8080/registry Registry Package Name Harvest Package Example Registration Package GUID urn:uuid:0b740347-137f-44b2-bc20-3fde88dac7ff INFO: XML extractor set to the following default namespace: http://pds.nasa.gov/pds4/pds/v08 INFO: [holdings/i943630r.raw] Begin processing. ERROR: [holdings/i943630r.raw] Premature end of file. INFO: [holdings/minimalImage.xml] Begin processing. INFO: [holdings/minimalImage.xml] line 41: Mapping reference type 'data_to_investigation' to 'investigation_ref'. INFO: [holdings/minimalImage.xml] line 52: Mapping reference type 'is_instrument_host' to 'instrument_host_ref'. INFO: [holdings/minimalImage.xml] line 61: Mapping reference type 'is_instrument' to 'instrument_ref'. INFO: [holdings/minimalImage.xml] line 71: Mapping reference type 'data_to_target' to 'target_ref'. INFO: [holdings/minimalImage.xml] line 88: Mapping reference type 'data_to_document' to 'document_ref'. INFO: [holdings/minimalImage.xml] line 92: Mapping reference type 'data_to_document' to 'document_ref'. INFO: [holdings/minimalImage.xml] line 96: Mapping reference type 'data_to_document' to 'document_ref'. INFO: [holdings/minimalImage.xml] line 100: Mapping reference type 'data_to_document' to 'document_ref'. INFO: [holdings/minimalImage.xml] line 104: Mapping reference type 'data_to_document' to 'document_ref'. INFO: [holdings/minimalImage.xml] Setting LIDVID-based association, 'urn:nasa:pds:investigation.MARS_PATHFINDER::1.0', under slot name 'investigation_ref'. INFO: [holdings/minimalImage.xml] Setting LID-based association, 'urn:nasa:pds:instrument_host.MPFL', under slot name 'instrument_host_ref'. INFO: [holdings/minimalImage.xml] Setting LID-based association, 'urn:nasa:pds:instrument.IMP__MPFL', under slot name 'instrument_ref'. INFO: [holdings/minimalImage.xml] Setting LIDVID-based association, 'urn:nasa:pds:target.MARS::1.0', under slot name 'target_ref'. INFO: [holdings/minimalImage.xml] Setting LIDVID-based association, 'urn:nasa:pds:investigation.MPFL::1.0', under slot name 'document_ref'. INFO: [holdings/minimalImage.xml] Setting LID-based association, 'urn:nasa:pds:instrument_host.MPFL', under slot name 'document_ref'. INFO: [holdings/minimalImage.xml] Setting LID-based association, 'urn:nasa:pds:instrument.IMP__MPFL', under slot name 'document_ref'. INFO: [holdings/minimalImage.xml] Setting LID-based association, 'urn:nasa:pds:target.MARS', under slot name 'document_ref'. INFO: [holdings/minimalImage.xml] Setting LID-based association, 'urn:nasa:pds:node.IMG', under slot name 'document_ref'. SUCCESS: [holdings/minimalImage.xml] Successfully registered product: TESTING:example.DPH.sampleProducts:exampleProducts:Array2D_Image.MPFL-M-IMP-2-EDR- </pre>

```

V1.0::4.4
INFO: [holdings/minimalImage.xml] Product has the following GUID: urn:uuid:c6dcbc60-677d-4652-9b12-4ec4ca40cca0
INFO: [holdings/minimalImage.xml] Capturing file information for minimalImage.xml
INFO: [holdings/minimalImage.xml] Capturing file object metadata for i943630r.raw
WARNING: [holdings/minimalImage.xml] Generated checksum 'd41d8cd98f00b204e9800998ecf8427e' does not match supplied checksum 'd220dac0d1fe312f3f3b9c824f6ac294' for file object 'i943630r.raw'.
SUCCESS: [holdings/minimalImage.xml] Successfully registered product:
TESTING:example.DPH.sampleProducts:exampleProducts:Array2D_Image.MPFL-M-IMP-2-EDR-V1.0:minimalImage.xml::4.4
INFO: [holdings/minimalImage.xml] Product has the following GUID: urn:uuid:48eb8260-cbad-48f7-9881-9fa423a417af
SUCCESS: [holdings/minimalImage.xml] Successfully registered product:
TESTING:example.DPH.sampleProducts:exampleProducts:Array2D_Image.MPFL-M-IMP-2-EDR-V1.0:i943630r.raw::4.4
INFO: [holdings/minimalImage.xml] Product has the following GUID: urn:uuid:aa3de20f-4b8a-4c04-82ca-4a226406911e
SUCCESS: [holdings/minimalImage.xml] Successfully registered association to
TESTING:example.DPH.sampleProducts:exampleProducts:Array2D_Image.MPFL-M-IMP-2-EDR-V1.0:minimalImage.xml::4.4
INFO: [holdings/minimalImage.xml] Association has the following GUID: urn:uuid:06afe6f1-740f-4083-b06e-62e02641bc38
SUCCESS: [holdings/minimalImage.xml] Successfully registered association to
TESTING:example.DPH.sampleProducts:exampleProducts:Array2D_Image.MPFL-M-IMP-2-EDR-V1.0:i943630r.raw::4.4
INFO: [holdings/minimalImage.xml] Association has the following GUID: urn:uuid:790bce04-8c85-4886-be7b-b8f5a17522ea
End of Log
    
```

Step 3: three additional lines displayed

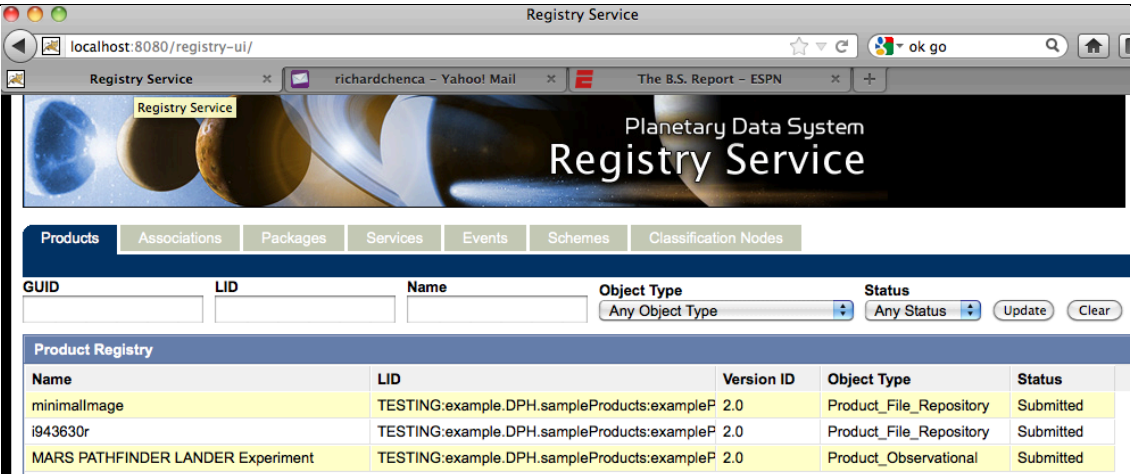


Step 4: For each of the 3 products to delete, output must have line "HTTP/1.1 200 OK".

```

* About to connect() to localhost port 8080 (#0)
* Trying 127.0.0.1... connected
* Connected to localhost (127.0.0.1) port 8080 (#0)
> DELETE /registry/extrinsics/urn:uuid:09c2245d-280c-4ca5-838d-c39fd2272e7c HTTP/1.1
> User-Agent: curl/7.19.7 (universal-apple-darwin10.0) libcurl/7.19.7 OpenSSL/0.9.8r zlib/1.2.3
> Host: localhost:8080
> Accept: */*
< HTTP/1.1 200 OK
< Server: Apache-Coyote/1.1
< Content-Type: application/xml
< Content-Length: 0
< Date: Tue, 10 Jul 2012 16:25:24 GMT
* Connection #0 to host localhost left intact
* Closing connection #0
* Closing connection #0
    
```

Step 5 shows registration of only the newer version

	 <p>Step 6 has similar output to step 4 Step 7 shows no records with LID beginning with "TESTING"</p>
Comments	This is most likely not a bug, but the values in http://.../registry-ui's Version ID column are NOT the values from the .xml files' Identification_Area/version_id
Date of Testing	2012 Jul 10
Test Personnel	Richard Chen

Test Case ID	AATESTME.T6
Description	Harvest skips candidate products not matching configuration file
Test Steps	<ol style="list-style-type: none"> 1. cp testAatestme/unharvestedDoc.xml holdings/ 2. harvest <i>harvestOptions testDir/holdings -c harvestPolicy.xml</i> <p>In a browser, check that no Product_Document was registered:</p> <ol style="list-style-type: none"> 3. Verify in browser: http://localhost:8080/registry-ui
Test Results	<p>Step 2: note that unharvestedDoc.xml was skipped (highlighted) because harvestPolicy.xml does not list its type.</p> <pre> PDS Harvest Tool Log Version Version 1.2.0 Time Wed, Jul 11 2012 at 01:33:18 AM Severity Level INFO Registry Location http://localhost:8080/registry Registry Package Name Harvest Package Example Registration Package GUID urn:uuid:599c0e53-3340-4acc-842c-a7be33048b52 INFO: XML extractor set to the following default namespace: http://pds.nasa.gov/pds4/pds/v08 INFO: [holdings/i943630r.raw] Begin processing. ERROR: [holdings/i943630r.raw] Premature end of file. INFO: [holdings/minimallImage.xml] Begin processing. INFO: [holdings/minimallImage.xml] line 41: Mapping reference type 'data_to_investigation' to 'investigation_ref'. INFO: [holdings/minimallImage.xml] line 52: Mapping reference type 'is_instrument_host' to 'instrument_host_ref'. INFO: [holdings/minimallImage.xml] line 61: Mapping reference type 'is_instrument' to 'instrument_ref'. INFO: [holdings/minimallImage.xml] line 71: Mapping reference type 'data_to_target' to 'target_ref'. INFO: [holdings/minimallImage.xml] line 88: Mapping reference type 'data_to_document' to 'document_ref'. INFO: [holdings/minimallImage.xml] line 92: Mapping reference type 'data_to_document' to 'document_ref'. INFO: [holdings/minimallImage.xml] line 96: Mapping reference type 'data_to_document' to 'document_ref'. INFO: [holdings/minimallImage.xml] line 100: Mapping reference type 'data_to_document' to 'document_ref'. INFO: [holdings/minimallImage.xml] line 104: Mapping reference type 'data_to_document' to 'document_ref'. INFO: [holdings/minimallImage.xml] Setting LIDVID-based association, 'TESTING:investigation.MARS_PATHFINDER::1.0', under slot name 'investigation_ref'. </pre>

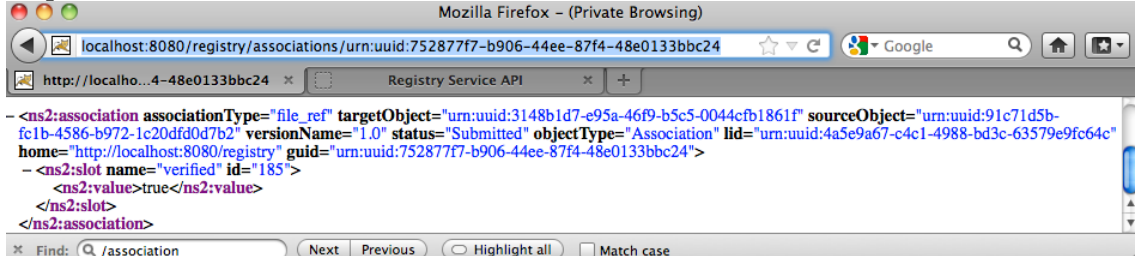
	<p>INFO: [holdings/minimalImage.xml] Setting LID-based association, 'TESTING:instrument_host.MPFL', under slot name 'instrument_host_ref'. INFO: [holdings/minimalImage.xml] Setting LID-based association, 'TESTING:instrument.IMP__MPFL', under slot name 'instrument_ref'. INFO: [holdings/minimalImage.xml] Setting LIDVID-based association, 'TESTING:target.MARS::1.0', under slot name 'target_ref'. INFO: [holdings/minimalImage.xml] Setting LIDVID-based association, 'TESTING:investigation.MARS_PATHFINDER::1.0', under slot name 'document_ref'. INFO: [holdings/minimalImage.xml] Setting LID-based association, 'TESTING:instrument_host.MPFL', under slot name 'document_ref'. INFO: [holdings/minimalImage.xml] Setting LID-based association, 'TESTING:instrument.IMP__MPFL', under slot name 'document_ref'. INFO: [holdings/minimalImage.xml] Setting LID-based association, 'TESTING:target.MARS', under slot name 'document_ref'. INFO: [holdings/minimalImage.xml] Setting LID-based association, 'urn:nasa:pds:node.IMG', under slot name 'document_ref'. SUCCESS: [holdings/minimalImage.xml] Successfully registered product: TESTING:example.DPH.sampleProducts:exampleProducts:Array2D_Image.MPFL-M-IMP-2-EDR-V1.0::4.4 INFO: [holdings/minimalImage.xml] Product has the following GUID: urn:uuid:91c71d5b-fc1b-4586-b972-1c20dfd0d7b2 INFO: [holdings/minimalImage.xml] Capturing file information for minimalImage.xml INFO: [holdings/minimalImage.xml] Capturing file object metadata for i943630r.raw WARNING: [holdings/minimalImage.xml] Generated checksum 'd41d8cd98f00b204e9800998ecf8427e' does not match supplied checksum 'd220dac0d1fe312f3b9c824f6ac294' for file object 'i943630r.raw'. SUCCESS: [holdings/minimalImage.xml] Successfully registered product: TESTING:example.DPH.sampleProducts:exampleProducts:Array2D_Image.MPFL-M-IMP-2-EDR-V1.0:minimalImage.xml::4.4 INFO: [holdings/minimalImage.xml] Product has the following GUID: urn:uuid:3148b1d7-e95a-46f9-b5c5-0044cfb1861f SUCCESS: [holdings/minimalImage.xml] Successfully registered product: TESTING:example.DPH.sampleProducts:exampleProducts:Array2D_Image.MPFL-M-IMP-2-EDR-V1.0:i943630r.raw::4.4 INFO: [holdings/minimalImage.xml] Product has the following GUID: urn:uuid:2c89bf98-2ed0-4a25-a0b9-b665ec5fd068 INFO: [holdings/unharvestedDoc.xml] Begin processing. SKIP: [holdings/unharvestedDoc.xml] 'Product_Document' is not an object type found in the policy file. SUCCESS: [holdings/minimalImage.xml] Successfully registered association to TESTING:example.DPH.sampleProducts:exampleProducts:Array2D_Image.MPFL-M-IMP-2-EDR-V1.0:minimalImage.xml::4.4 INFO: [holdings/minimalImage.xml] Association has the following GUID: urn:uuid:752877f7-b906-44ee-87f4-48e0133bbc24 SUCCESS: [holdings/minimalImage.xml] Successfully registered association to TESTING:example.DPH.sampleProducts:exampleProducts:Array2D_Image.MPFL-M-IMP-2-EDR-V1.0:i943630r.raw::4.4 INFO: [holdings/minimalImage.xml] Association has the following GUID: urn:uuid:b875a9c5-4269-453b-98c8-ed79b694dfb7 Summary: 1 of 3 file(s) processed, 1 other file(s) skipped 1 error(s), 1 warning(s) 1 of 1 products registered. 2 of 2 ancillary products registered. Product Types Registered: 1 Product_Observational 2 Product_File_Repository 0 of 1 generated checksums matched their supplied value, 1 generated value(s) not checked. 2 of 2 associations registered. End of Log</p> <p>Step 3: shows no LID with (from files unharvestedDoc.xml) TESTING:example.DPH.sampleProducts:exampleProducts:DocumentProduct.PHX-M-MECA-4-NIRDR-V1.0</p>
Comments	
Date of Testing	2012 Jul 10
Test Personnel	Richard Chen

Test Case ID	AATESTME.T7
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Description	(OBSOLETE by build 2c - merged into AATESTME.T3) Registry relates artifacts via (LID-based) association.
Test Steps	<ol style="list-style-type: none"> 1. Note whether minimalImage.xml was previously registered: <i>http://localhost:8080/registry/extrinsics/logicals/TESTING:example.DPH.sampleProducts:exampleProducts:Array2D_Image.MPFL-M-IMP-2-EDR-V1.0</i> 2. Edit holdings/ minimalImage.xml to: <ol style="list-style-type: none"> a. uncomment the two Observing_System tags. b. set <version_id> to 5.5 3. harvest <i>harvestOptions -c harvestPolicy.xml</i> 4. Repeat step 1. This time note that the new version has slots for the two LID-based associations "has_instrument" and "has_instrument_host"
Test Results	
Comments	
Date of Testing	
Test Personnel	

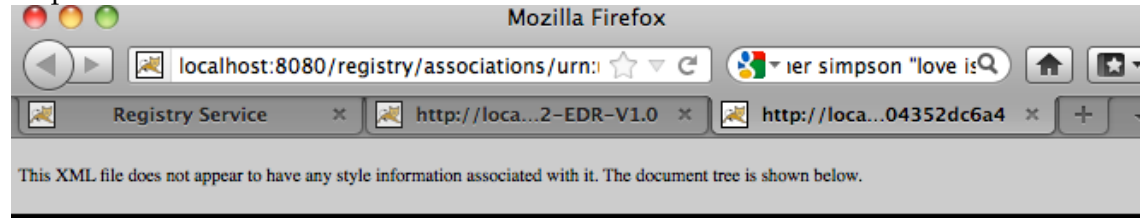
Test Case ID	AATESTME.T8
Description	Harvest checks for previous registration.
Test Steps	Assuming AATESTME.T6 successfully registered minimalImage.xml (ignore unharvestedDoc.xml): harvest <i>harvestOptions -c harvestPolicy.xml</i>
Test Results	<p>PDS Harvest Tool Log Version Version 1.2.0 Time Wed, Jul 11 2012 at 01:01:17 AM Severity Level INFO Registry Location <i>http://localhost:8080/registry</i> Registry Package Name Harvest Package Example Registration Package GUID urn:uuid:3145ab64-b64a-4a35-a696-5e8626d2b663 INFO: XML extractor set to the following default namespace: <i>http://pds.nasa.gov/pds4/pds/v08</i> INFO: [holdings/i943630r.raw] Begin processing. ERROR: [holdings/i943630r.raw] Premature end of file. INFO: [holdings/minimalImage.xml] Begin processing. INFO: [holdings/minimalImage.xml] line 41: Mapping reference type 'data_to_investigation' to 'investigation_ref'. INFO: [holdings/minimalImage.xml] line 52: Mapping reference type 'is_instrument_host' to 'instrument_host_ref'. INFO: [holdings/minimalImage.xml] line 61: Mapping reference type 'is_instrument' to 'instrument_ref'. INFO: [holdings/minimalImage.xml] line 71: Mapping reference type 'data_to_target' to 'target_ref'. INFO: [holdings/minimalImage.xml] line 88: Mapping reference type 'data_to_document' to 'document_ref'. INFO: [holdings/minimalImage.xml] line 92: Mapping reference type 'data_to_document' to 'document_ref'. INFO: [holdings/minimalImage.xml] line 96: Mapping reference type 'data_to_document' to 'document_ref'. INFO: [holdings/minimalImage.xml] line 100: Mapping reference type 'data_to_document' to 'document_ref'. INFO: [holdings/minimalImage.xml] line 104: Mapping reference type 'data_to_document' to 'document_ref'. INFO: [holdings/minimalImage.xml] Setting LIDVID-based association, 'TESTING:investigation.MARS_PATHFINDER::1.0', under slot name 'investigation_ref'. INFO: [holdings/minimalImage.xml] Setting LID-based association, 'TESTING:instrument_host.MPFL', under slot name 'instrument_host_ref'. INFO: [holdings/minimalImage.xml] Setting LID-based association, 'TESTING:instrument.IMP__MPFL', under slot name 'instrument_ref'. INFO: [holdings/minimalImage.xml] Setting LIDVID-based association, 'TESTING:target.MARS::1.0', under slot name 'target_ref'. INFO: [holdings/minimalImage.xml] Setting LIDVID-based association, 'TESTING:investigation.MARS_PATHFINDER::1.0', under slot name 'document_ref'. INFO: [holdings/minimalImage.xml] Setting LID-based association, 'TESTING:instrument_host.MPFL',</p>

	<p>under slot name 'document_ref'. INFO: [holdings/minimalImage.xml] Setting LID-based association, 'TESTING:instrument.IMP__MPFL', under slot name 'document_ref'. INFO: [holdings/minimalImage.xml] Setting LID-based association, 'TESTING:target.MARS', under slot name 'document_ref'. INFO: [holdings/minimalImage.xml] Setting LID-based association, 'urn:nasa:pds:node.IMG', under slot name 'document_ref'. ERROR: [holdings/minimalImage.xml] Product already exists: TESTING:example.DPH.sampleProducts:exampleProducts:Array2D_Image.MPFL-M-IMP-2-EDR-V1.0::1.0 INFO: [holdings/unharvestedDoc.xml] Begin processing. SKIP: [holdings/unharvestedDoc.xml] 'Product_Document' is not an object type found in the policy file. Summary: 1 of 3 file(s) processed, 1 other file(s) skipped 2 error(s), 0 warning(s) 0 of 1 products registered. 0 of 0 ancillary products registered. Product Types Registered: 0 of 0 generated checksums matched their supplied value, 0 generated value(s) not checked. 0 of 0 associations registered. End of Log</p> <p>Notice that no products (and no associations) were registered.</p>
Comments	
Date of Testing	2012 Jul 11
Test Personnel	Richard Chen

Test Case ID	AATESTME.T9
Description	Query and delete associations (not just products). When Harvest registers a product, it also registers associations to the XML label file and to the referenced data file. These associations (non-LID-based) can be deleted.
Test Steps	<ol style="list-style-type: none"> AATESTME.T6's Test Results, step 2's output includes the GUID (highlighted) of the association between the data product and the file. Replace <i>guid</i> below with the GUID http://localhost:8080/registry/associations/guid <code>curl -X DELETE -v http://localhost:8080/registry/associations/guid</code> Repeat step 1 <p>Another way to delete an association is to delete its source object.</p> <ol style="list-style-type: none"> Edit <code>holdings/minimalImage.xml</code>; change <code><version_id></code> to 6.6 harvest <code>harvestOptions -c harvestPolicy.xml</code> View association: use the GUID (highlighted) of the association registered in step 5: http://localhost:8080/registry/associations/guid Delete association's source object: use the GUID (highlighted) of the product registered in step 5, which was also the value of <code>sourceObject</code> in step 6: <code>curl -v -X DELETE http://localhost:8080/registry/extrinsics/guid</code> Repeat step 6. Association should be gone.
Test Results	<p>Step 1:</p>  <p>Step 2: benign output, with "HTTP/1.1 200 OK" somewhere in the middle: * About to connect() to localhost port 8080 (#0) * Trying 127.0.0.1... connected</p>

```
* Connected to localhost (127.0.0.1) port 8080 (#0)
> DELETE /registry/associations/urn:uuid:752877f7-b906-44ee-87f4-48e0133bbc24 HTTP/1.1
> User-Agent: curl/7.19.7 (universal-apple-darwin10.0) libcurl/7.19.7 OpenSSL/0.9.8r zlib/1.2.3
> Host: localhost:8080
> Accept: */*
< HTTP/1.1 200 OK
< Server: Apache-Coyote/1.1
< Content-Length: 0
< Date: Wed, 11 Jul 2012 08:37:38 GMT
* Connection #0 to host localhost left intact
* Closing connection #0
```

Step 3:



```
- <ns2:association associationType="has_file" targetObject="urn:uuid:4c9fca24-97e5-4ee5-a8db-00bb2b06ad5c" sourceObject="urn:uuid:5b8fb2dc-2fcc-4014-973c-ca34900dfd48" versionName="1.0" status="Submitted" objectType="Association" lid="urn:uuid:af698c4a-eb52-460c-beb7-79bc66150b34" home="http://localhost:8080/registry" guid="urn:uuid:82448c26-03ba-4b15-ade6-ed04352dc6a4">
- <ns2:slot name="verified" id="219">
  <ns2:value>true</ns2:value>
</ns2:slot>
</ns2:association>
```

Step 5:

```
PDS Harvest Tool Log
Version          Version 1.2.0
Time            Wed, Jul 11 2012 at 01:41:21 AM
Severity Level   INFO
Registry Location http://localhost:8080/registry
Registry Package Name Harvest Package Example
Registration Package GUID urn:uuid:484d30f9-6d5a-4b9e-86b1-210a1809f7f1
INFO: XML extractor set to the following default namespace: http://pds.nasa.gov/pds4/pds/v08
INFO: [holdings/i943630r.raw] Begin processing.
ERROR: [holdings/i943630r.raw] Premature end of file.
INFO: [holdings/minimalImage.xml] Begin processing.
INFO: [holdings/minimalImage.xml] line 41: Mapping reference type 'data_to_investigation' to 'investigation_ref'.
INFO: [holdings/minimalImage.xml] line 52: Mapping reference type 'is_instrument_host' to 'instrument_host_ref'.
INFO: [holdings/minimalImage.xml] line 61: Mapping reference type 'is_instrument' to 'instrument_ref'.
INFO: [holdings/minimalImage.xml] line 71: Mapping reference type 'data_to_target' to 'target_ref'.
INFO: [holdings/minimalImage.xml] line 88: Mapping reference type 'data_to_document' to 'document_ref'.
INFO: [holdings/minimalImage.xml] line 92: Mapping reference type 'data_to_document' to 'document_ref'.
INFO: [holdings/minimalImage.xml] line 96: Mapping reference type 'data_to_document' to 'document_ref'.
INFO: [holdings/minimalImage.xml] line 100: Mapping reference type 'data_to_document' to 'document_ref'.
INFO: [holdings/minimalImage.xml] line 104: Mapping reference type 'data_to_document' to 'document_ref'.
INFO: [holdings/minimalImage.xml] Setting LIDVID-based association, 'TESTING:investigation.MARS_PATHFINDER:1.0', under slot name 'investigation_ref'.
INFO: [holdings/minimalImage.xml] Setting LID-based association, 'TESTING:instrument_host.MPFL', under slot name 'instrument_host_ref'.
INFO: [holdings/minimalImage.xml] Setting LID-based association, 'TESTING:instrument.IMP__MPFL', under slot name 'instrument_ref'.
INFO: [holdings/minimalImage.xml] Setting LIDVID-based association, 'TESTING:target.MARS:1.0', under slot name 'target_ref'.
INFO: [holdings/minimalImage.xml] Setting LIDVID-based association, 'TESTING:investigation.MARS_PATHFINDER:1.0', under slot name 'document_ref'.
INFO: [holdings/minimalImage.xml] Setting LID-based association, 'TESTING:instrument_host.MPFL', under slot name 'document_ref'.
INFO: [holdings/minimalImage.xml] Setting LID-based association, 'TESTING:instrument.IMP__MPFL', under slot name 'document_ref'.
INFO: [holdings/minimalImage.xml] Setting LID-based association, 'TESTING:target.MARS', under slot name 'document_ref'.
```

```

INFO: [holdings/minimalImage.xml] Setting LID-based association, 'urn:nasa:pds:node.IMG', under slot
name 'document_ref'.
SUCCESS: [holdings/minimalImage.xml] Successfully registered product:
TESTING:example.DPH.sampleProducts:exampleProducts:Array2D_Image.MPFL-M-IMP-2-EDR-
V1.0::6.6
INFO: [holdings/minimalImage.xml] Product has the following GUID: urn:uuid:7abb54fe-3707-4ba2-
81b9-a2847033a0cd
INFO: [holdings/minimalImage.xml] Capturing file information for minimalImage.xml
INFO: [holdings/minimalImage.xml] Capturing file object metadata for i943630r.raw
WARNING: [holdings/minimalImage.xml] Generated checksum 'd41d8cd98f00b204e9800998ecf8427e'
does not match supplied checksum 'd220dac0d1fe312f3fb9c824f6ac294' for file object 'i943630r.raw'.
SUCCESS: [holdings/minimalImage.xml] Successfully registered product:
TESTING:example.DPH.sampleProducts:exampleProducts:Array2D_Image.MPFL-M-IMP-2-EDR-
V1.0:minimalImage.xml::6.6
INFO: [holdings/minimalImage.xml] Product has the following GUID: urn:uuid:a5b592f5-8e98-44fd-
bf90-3d2d5a454691
SUCCESS: [holdings/minimalImage.xml] Successfully registered product:
TESTING:example.DPH.sampleProducts:exampleProducts:Array2D_Image.MPFL-M-IMP-2-EDR-
V1.0:i943630r.raw::6.6
INFO: [holdings/minimalImage.xml] Product has the following GUID: urn:uuid:7a608d45-8087-48e8-
bc4d-f948d37960be
INFO: [holdings/unharvestedDoc.xml] Begin processing.
SKIP: [holdings/unharvestedDoc.xml] 'Product_Document' is not an object type found in the policy file.
SUCCESS: [holdings/minimalImage.xml] Successfully registered association to
TESTING:example.DPH.sampleProducts:exampleProducts:Array2D_Image.MPFL-M-IMP-2-EDR-
V1.0:minimalImage.xml::6.6
INFO: [holdings/minimalImage.xml] Association has the following GUID: urn:uuid:a16b58c2-59f4-420c-
b169-8debd17bb887
SUCCESS: [holdings/minimalImage.xml] Successfully registered association to
TESTING:example.DPH.sampleProducts:exampleProducts:Array2D_Image.MPFL-M-IMP-2-EDR-
V1.0:i943630r.raw::6.6
INFO: [holdings/minimalImage.xml] Association has the following GUID: urn:uuid:739bee2c-91cc-441c-
8f03-5dfcc299af17
Summary:
1 of 3 file(s) processed, 1 other file(s) skipped
1 error(s), 1 warning(s)
1 of 1 products registered.
2 of 2 ancillary products registered.
Product Types Registered:
1 Product_Observational
2 Product_File_Repository
0 of 1 generated checksums matched their supplied value, 1 generated value(s) not checked.
2 of 2 associations registered.
End of Log
    
```

Step 6:




Step 7:

```

* About to connect() to localhost port 8080 (#0)
* Trying 127.0.0.1... connected
* Connected to localhost (127.0.0.1) port 8080 (#0)
> DELETE /registry/extrinsics/urn:uuid:a16b58c2-59f4-420c-b169-8debd17bb887 HTTP/1.1
> User-Agent: curl/7.19.7 (universal-apple-darwin10.0) libcurl/7.19.7 OpenSSL/0.9.8r zlib/1.2.3
> Host: localhost:8080
> Accept: */*
< HTTP/1.1 200 OK
< Server: Apache-Coyote/1.1
< Content-Type: application/xml
< Content-Length: 0
< Date: Wed, 11 Jul 2012 08:47:29 GMT
* Connection #0 to host localhost left intact
* Closing connection #0
    
```

Step 8:

	
Comments	
Date of Testing	2012 Jul 11
Test Personnel	Richard Chen

Test Case ID	CTLG.T1
Description	Compare a catalog submission, both file to file and directory to directory
Test Steps	<ol style="list-style-type: none"> 1. catalog -mcompare testCatalog/CORPWS_0164 testCatalog/CORPWS_lite 2. catalog -mcompare testCatalog/CORPWS_lite/RAWDS.CAT testCatalog/diff
Test Results	<p>Step 1:</p> <pre> PDS Catalog Ingest Tool Report Configuration: Version Version 1.3.0 Date Wed, Jul 11 2012 at 09:55:22 AM Parameters: Mode compare Target(s) Source = file: testDir/testCatalog/CORPWS_0164/ Target = file: testDir/testCatalog/CORPWS_lite/ Directory Recursion true Severity Level WARNING Compare Details: SAME: file: testDir/testCatalog/CORPWS_lite/INSTHOST.CAT SAME: file: testDir/testCatalog/CORPWS_lite/KEYDS.CAT SAME: file: testDir/testCatalog/CORPWS_lite/LRFULLDS.CAT SAME: file: testDir/testCatalog/CORPWS_lite/MISSION.CAT SAME: file: testDir/testCatalog/CORPWS_lite/PERSON.CAT SAME: file: testDir/testCatalog/CORPWS_lite/PROJREF.CAT SAME: file: testDir/testCatalog/CORPWS_lite/RAWDS.CAT SAME: file: testDir/testCatalog/CORPWS_lite/REF.CAT SAME: file: testDir/testCatalog/CORPWS_lite/RPWSINST.CAT DIFFERENT: file: testDir/testCatalog/CORPWS_lite/VOLDESC.CAT line 80: Pointer "DATA_SET_CATALOG" has different value than source. Source: line 80 of file: testDir/testCatalog/CORPWS_0164/VOLDESC.CAT 80c80 < {KEYDS.CAT, RAWDS.CAT, LRFULLDS.CAT, WBFULLDS.CAT, WFFULLDS.CAT} ---- > KEYDS.CAT line 81: Pointer "REFERENCE_CATALOG" has different value than source. Source: line 86 of file: testDir/testCatalog/CORPWS_0164/VOLDESC.CAT 86c81 < {REF.CAT, PROJREF.CAT} ---- > REF.CAT SAME: file: testDir/testCatalog/CORPWS_lite/WBFULLDS.CAT SAME: file: testDir/testCatalog/CORPWS_lite/WFFULLDS.CAT Summary: 12 of 12 validated, 0 skipped 11 of 12 passed End of Report </pre>

	<p>Step 2:</p> <pre> PDS Catalog Ingest Tool Report Configuration: Version Version 1.3.0 Date Wed, Jul 11 2012 at 09:55:22 AM Parameters: Mode compare Target(s) Source = file: testDir/testCatalog/CORPWS_0164/RAWDS.CAT Target = file: testDir/testCatalog/diff Directory Recursion true Severity Level WARNING Compare Details: DIFFERENT: file: testDir/testCatalog/diff line 54: Element "DATA_SET_DESC" has different value than source. Source: line 54 of file: testDir/testCatalog/CORPWS_0164/RAWDS.CAT 124,128c124,128 < kernels can be used with the SPICE toolkit to convert from the < spacecraft frame to virtually any frame which may be of use in < analyzing these data. However, for many purposes, the wave ---- > kernels EXTRAWORDHERE can be used with the SPICE toolkit to convert from > the spacecraft frame to virtually any frame which may be of use > in analyzing these data. However, for many purposes, the wave Summary: 1 of 1 validated, 0 skipped 0 of 1 passed End of Report </pre>
<p>Comments</p>	<p>catalog -mcompare does well but could be better. In step 2, the second file has only 1 extra token, which then causes a cascade of different line breaks. However, the tool shows all lines of the difference. It would be better to show only the different token plus a few tokens around it.</p>
<p>Date of Testing</p>	<p>2012 Jul 11</p>
<p>Test Personnel</p>	<p>Richard Chen</p>

<p>Test Case ID</p>	<p>CTLG.T2</p>
<p>Description</p>	<p>Validate a catalog submission.</p>
<p>Test Steps</p>	<p>catalog -mvalidate -d testCatalog/pdsdd.full -t testCatalog/LRO_diviner/</p>
<p>Test Results</p>	<pre> catalog -mvalidate -d testCatalog/pdsdd.full -t testCatalog/LRO_diviner/ PDS Catalog Ingest Tool Report Configuration: Version Version 1.3.0 Date Wed, Jul 11 2012 at 11:40:01 AM Parameters: Mode validate Target file: testDir/testCatalog/LRO_diviner/ Directory Recursion true Dictionary File(s) [testCatalog/pdsdd.full] Severity Level WARNING Aliasing Enabled false Validation Details: PASS: file: testDir/testCatalog/LRO_diviner/dsmap.cat PASS: file: testDir/testCatalog/LRO_diviner/dsmap_polar.cat PASS: file: testDir/testCatalog/LRO_diviner/gdrds.cat PASS: file: testDir/testCatalog/LRO_diviner/inst.cat PASS: file: testDir/testCatalog/LRO_diviner/insthost.cat PASS: file: testDir/testCatalog/LRO_diviner/mission.cat PASS: file: testDir/testCatalog/LRO_diviner/person.cat PASS: file: testDir/testCatalog/LRO_diviner/prpds.cat PASS: file: testDir/testCatalog/LRO_diviner/rdrds.cat PASS: file: testDir/testCatalog/LRO_diviner/ref.cat </pre>

	<pre> FAIL: file: testDir/testCatalog/LRO_diviner/voldesc.cat Begin Fragment: file: testDir/testCatalog/LRO_diviner/INSTHOST.CAT WARNING The label fragment, "INSTHOST.CAT", should not contain a PDS_VERSION_ID. End Fragment: file: testDir/testCatalog/LRO_diviner/INSTHOST.CAT Begin Fragment: file: testDir/testCatalog/LRO_diviner/INST.CAT WARNING The label fragment, "INST.CAT", should not contain a PDS_VERSION_ID. End Fragment: file: testDir/testCatalog/LRO_diviner/INST.CAT Begin Fragment: file: testDir/testCatalog/LRO_diviner/PERSON.CAT WARNING The label fragment, "PERSON.CAT", should not contain a PDS_VERSION_ID. End Fragment: file: testDir/testCatalog/LRO_diviner/PERSON.CAT Begin Fragment: file: testDir/testCatalog/LRO_diviner/MISSION.CAT WARNING The label fragment, "MISSION.CAT", should not contain a PDS_VERSION_ID. ERROR line 40: Found a reference, "SAYLOR2006A", which is not defined in a REFERENCE_KEY_ID within the label. ERROR line 40: Found a reference, "SAYLOR2006B", which is not defined in a REFERENCE_KEY_ID within the label. End Fragment: file: testDir/testCatalog/LRO_diviner/MISSION.CAT Begin Fragment: file: testDir/testCatalog/LRO_diviner/REF.CAT WARNING The label fragment, "REF.CAT", should not contain a PDS_VERSION_ID. End Fragment: file: testDir/testCatalog/LRO_diviner/REF.CAT Begin Fragment: file: testDir/testCatalog/LRO_diviner/GDRDS.CAT WARNING The label fragment, "GDRDS.CAT", should not contain a PDS_VERSION_ID. End Fragment: file: testDir/testCatalog/LRO_diviner/GDRDS.CAT Referential Integrity Details: PASS: Data Set Parent File(s): [gdrds.cat, prpds.cat, rdrds.cat] Begin checking children End checking children PASS: Instrument Host Parent File(s): [insthost.cat] Begin checking children End checking children PASS: Personnel Parent File(s): [person.cat] Begin checking children End checking children PASS: Instrument Parent File(s): [inst.cat] Begin checking children End checking children PASS: Mission Parent File(s): [mission.cat] Begin checking children End checking children FAIL: Reference Parent File(s): [ref.cat] Begin checking children dsmmap.cat: "REFERENCE_KEY_ID = SEIDELMANNETAL2002" is not found in a(n) "ref.cat". dsmmap.cat: "REFERENCE_KEY_ID = SNYDER1987" is not found in a(n) "ref.cat". dsmmap_polar.cat: "REFERENCE_KEY_ID = SEIDELMANNETAL2002" is not found in a(n) "ref.cat". dsmmap_polar.cat: "REFERENCE_KEY_ID = SNYDER1987" is not found in a(n) "ref.cat". End checking children New Standard Values: Referential Integrity Summary: 6 of 6 referential integrity check(s) made, 0 skipped 5 of 6 passed New Standard Values Summary: 0 new standard value(s) found Summary: 11 of 11 validated, 0 skipped 10 of 11 passed End of Report </pre>
Comments	When validating voldesc.cat, catalog -mvalidate reports that the label fragment, e.g. file DATASET.CAT, "should not contain a PDS_VERSION_ID". Of course, such files must have PDS_VERSION_ID. This is a problem carried over from PDS3.
Date of Testing	2012 Jul 11
Test Personnel	Richard Chen

Test Case ID	CTLG.T3
Description	Ingest a catalog submission into the registry service
Test Steps	<p>The catalog ingest requires the registry, transport, and storage services be configured together, which is likely too complex for local testing. So before testing:</p> <ul style="list-style-type: none"> • The registry resides at https://potato.jpl.nasa.gov/registry • The administrator of the registry provides: <ul style="list-style-type: none"> ○ a keystore (in this example, the file is /somewhere/keystore) ○ a keystore password (e.g. hellopds) ○ URL for the registry (https://potato.registry.jpl.nasa.gov) ○ URL for the storage service (http://potato.jpl.nasa.gov:9100) ○ URL for the transport serv (http://potato.jpl.nasa.gov:80/cas-product) ○ username/password for the security service (rchen/new4rchen) • The keystore has been copied/moved to /somewhere/keystore • In the local script catalog (or catalog.bat), the java command has parameters <ul style="list-style-type: none"> ○ -Dpds.registry="https://potato.registry.jpl.nasa.gov/registry" ○ -Dpds.security.keystore="/somewhere/keystore" • To simplify the command-line, create a configuration file named config: <pre> citol.mode = ingest citol.user = rchen citol.pass = new4rchen citol.serverUrl = http://potato.jpl.nasa.gov:9100 citol.transportUrl = http://potato.jpl.nasa.gov:80/cas-product citol.keypass = hellopds citol.verbose = 1 </pre> <ol style="list-style-type: none"> 1. catalog -cconfig -t testCatalog/CORPWS_0164/ -r ctlg1.out 2. In a browser: https://potato.jpl.nasa.gov/registry-ui 3. (optional) to better see the results of future tests, delete the products just registered by finding every GUID in ctlg1.out, then deleting each one via: <pre> curl -X DELETE -v -urchen:new4rchen -k https://potato.jpl.nasa.gov/registry/extrinsics/<guid> </pre> 4. catalog -cconfig -t testCatalog/PPIREF/ -r ctlg3.out <pre> catalog -cconfig -t testCatalog/PPIREF/ppiref.cat -r ctlg3.out </pre> 5. catalog -cconfig -t testCatalog/MPC_review/ -r ctlg4.out 6. If it works at all, in a browser: https://potato.jpl.nasa.gov/registry-ui 7. (optional) to better see the results of future tests, delete the products just registered by finding every GUID in ctlg5.out, then deleting each one via: <pre> curl -X DELETE -v -urchen:new4rchen -k https://potato.jpl.nasa.gov/registry/extrinsics/<guid> </pre> 8. catalog -cconfig -t testCatalog/LRO_diviner/ -r ctlg6.out 9. mv testCatalog/LRO_diviner/dsmap_polar.cat testCatalog/LRO_diviner/x 10. mv testCatalog/LRO_diviner/dsmap.cat testCatalog/LRO_diviner/y 11. catalog -cconfig -t testCatalog/LRO_diviner/ -r ctlg6.out 12. mv testCatalog/LRO_diviner/x testCatalog/LRO_diviner/dsmap_polar.cat 13. mv testCatalog/LRO_diviner/y testCatalog/LRO_diviner/dsmap.cat 14. In a browser: https://potato.jpl.nasa.gov/registry-ui 15. Check that -cconfig works the same as the command line. Compare step 1 with: <pre> catalog -mingest -urchen -pnew4rchen -shttp://potato.jpl.nasa.gov:9100 - Thttp://potato.jpl.nasa.gov:80/cas-product -kpdscat -t testCatalog/CORPWS_lite/ -r ctlg1a.out </pre>

	<p>16. (optional) to better see the results of future tests, delete the products just registered by finding every GUID in ctlg1.out, then deleting each one via: curl -X DELETE -v -urthen:new4rchen -k https://potato.jpl.nasa.gov/registry/extrinsics/<guid></p>
<p>Test Results</p>	<p>Step 1:</p> <pre> Jul 16, 2012 3:25:18 PM org.apache.oodt.cas.filemgr.datatransfer.RemoteDataTransferFactory <init> INFO: RemoteDataTransfer enabled: using chunk size: [1024] Jul 16, 2012 3:25:18 PM org.apache.oodt.cas.filemgr.datatransfer.RemoteDataTransferer setFileManagerUrl INFO: Remote Data Transfer to: [http://potato.jpl.nasa.gov:9100] enabled registryPackageName = Catalog-Package_CORPWS_0164_20120716152518 PDS Catalog Ingest Tool Report Configuration: Version Version 1.3.0 Date Mon, Jul 16 2012 at 03:25:16 PM Parameters: Mode ingest Target file:/Users/rchen/Desktop/test/testCatalog/CORPWS_lite/ Directory Recursion true Severity Level INFO Ingest Details: PASS: file:/Users/rchen/Desktop/test/testCatalog/CORPWS_lite/INSTHOST.CAT INFO: Successfully registered a product. LID - urn:nasa:pds:instrument_host.CO::1.0 INFO: Product GUID - urn:uuid:c1146a00-a102-47f1-9bfc-82d5c78314fd INFO: Successfully ingested a catalog file to the storage service. productID - 220931a6-cf95-11e1-92e5-5b9a3f9b4be2 INFO: Successfully ingested a file object. GUID - urn:uuid:bdd53660-6f77-48e9-bd9d-4fad484d9cca PASS: file:/Users/rchen/Desktop/test/testCatalog/CORPWS_lite/KEYDS.CAT INFO: Successfully registered a product. LID - urn:nasa:pds:data_set.CO-V-E-J-S-SS-RPWS-4-SUMM-KEY60S-V1.0::1.0 INFO: Product GUID - urn:uuid:10cb7481-68e2-4b7d-a2e5-201a7d4ab1b8 INFO: Successfully ingested a catalog file to the storage service. productID - 27c58c17-cf95-11e1-92e5-5b9a3f9b4be2 INFO: Successfully ingested a file object. GUID - urn:uuid:e063e4dc-0a0e-4e8d-9190-c2da06d91231 PASS: file:/Users/rchen/Desktop/test/testCatalog/CORPWS_lite/LRFULLDS.CAT INFO: Successfully registered a product. LID - urn:nasa:pds:data_set.CO-V-E-J-S-SS-RPWS-3-RDR-LRFULL-V1.0::1.0 INFO: Product GUID - urn:uuid:18f60a15-7a30-4aac-a7dd-aa51ab1cea2c INFO: Successfully ingested a catalog file to the storage service. productID - 2b261c38-cf95-11e1-92e5-5b9a3f9b4be2 INFO: Successfully ingested a file object. GUID - urn:uuid:3d532523-5e62-433d-aea8-e2815070ccdf PASS: file:/Users/rchen/Desktop/test/testCatalog/CORPWS_lite/MISSION.CAT INFO: Successfully registered a product. LID - urn:nasa:pds:mission.CASSINI-HUYGENS::1.0 INFO: Product GUID - urn:uuid:3599557a-927a-4b18-afe3-85ab134839ed INFO: Successfully ingested a catalog file to the storage service. productID - 2f89c479-cf95-11e1-92e5-5b9a3f9b4be2 INFO: Successfully ingested a file object. GUID - urn:uuid:11b8a151-e8b5-4b72-a3a2-a09afb9ed1f3 PASS: file:/Users/rchen/Desktop/test/testCatalog/CORPWS_lite/PERSON.CAT WARNING: This file is not required to ingest into the registry service. INFO: Successfully ingested a catalog file to the storage service. productID - 3b50c06a-cf95-11e1-92e5-5b9a3f9b4be2 INFO: Successfully ingested a file object. GUID - urn:uuid:ebf23bb4-720d-4ef1-90f9-e0bc59e4af5f PASS: file:/Users/rchen/Desktop/test/testCatalog/CORPWS_lite/PROJREF.CAT WARNING: This file is not required to ingest into the registry service. INFO: Successfully ingested a catalog file to the storage service. productID - 3d431a8b-cf95-11e1-92e5-5b9a3f9b4be2 INFO: Successfully ingested a file object. GUID - urn:uuid:54ddb5e0-4ac8-4b93-ae3e-7f1bb8770f0a PASS: file:/Users/rchen/Desktop/test/testCatalog/CORPWS_lite/RAWDS.CAT INFO: Successfully registered a product. LID - urn:nasa:pds:data_set.CO-V-E-J-S-SS-RPWS-2-REFDR-ALL-V1.0::1.0 INFO: Product GUID - urn:uuid:a7947c8d-e2b1-4b2e-94bc-452e2555d5d1 INFO: Successfully ingested a catalog file to the storage service. productID - 3f339fec-cf95-11e1-92e5-5b9a3f9b4be2 INFO: Successfully ingested a file object. GUID - urn:uuid:b8a636ca-632c-4e4c-b854-3e45dc8e2a76 PASS: file:/Users/rchen/Desktop/test/testCatalog/CORPWS_lite/REF.CAT WARNING: This file is not required to ingest into the registry service. INFO: Successfully ingested a catalog file to the storage service. productID - 42158a2d-cf95-11e1-92e5-5b9a3f9b4be2 INFO: Successfully ingested a file object. GUID - urn:uuid:aab8f76e-5c31-4188-94e5-205b98806c6b </pre>

PASS: file:/Users/rchen/Desktop/test/testCatalog/CORPWS_lite/RPWSINST.CAT
 INFO: Successfully registered a product. LID - urn:nasa:pds:instrument.RPWS_CO::1.0
 INFO: Product GUID - urn:uuid:b2f41da4-71a1-4945-bf4c-2ad024be0675
 INFO: Successfully ingested a catalog file to the storage service. productID - 451d24de-cf95-11e1-92e5-5b9a3f9b4be2
 INFO: Successfully ingested a file object. GUID - urn:uuid:007ce38d-17c0-4c45-a71f-5cf80754f1fa
 PASS: file:/Users/rchen/Desktop/test/testCatalog/CORPWS_lite/VOLDESC.CAT
 INFO: Successfully registered a product. LID - urn:nasa:pds:volume.CORPWS_0164::1.0
 INFO: Product GUID - urn:uuid:5ca226e5-1d4e-4b26-9b20-d6f2007269f2
 INFO: Successfully ingested a catalog file to the storage service. productID - 483205ff-cf95-11e1-92e5-5b9a3f9b4be2
 INFO: Successfully ingested a file object. GUID - urn:uuid:3abf1f26-1ac1-47d2-b506-48caa0e8ca55
 PASS: file:/Users/rchen/Desktop/test/testCatalog/CORPWS_lite/WBFULLDS.CAT
 INFO: Successfully registered a product. LID - urn:nasa:pds:data_set.CO-V-E-J-S-SS-RPWS-2-REFDR-WBRFULL-V1.0::1.0
 INFO: Product GUID - urn:uuid:51a1d720-20e1-42b7-b1a1-e018270bddf2
 INFO: Successfully ingested a catalog file to the storage service. productID - 4a8321f0-cf95-11e1-92e5-5b9a3f9b4be2
 INFO: Successfully ingested a file object. GUID - urn:uuid:83389444-8a40-44bf-a2e6-01278720d6a2
 PASS: file:/Users/rchen/Desktop/test/testCatalog/CORPWS_lite/WFFULLDS.CAT
 INFO: Successfully registered a product. LID - urn:nasa:pds:data_set.CO-V-E-J-S-SS-RPWS-2-REFDR-WFRFULL-V1.0::1.0
 INFO: Product GUID - urn:uuid:d46e83fa-8ef6-41e1-8cfb-b0efbddec2b4
 INFO: Successfully ingested a catalog file to the storage service. productID - 4f288e21-cf95-11e1-92e5-5b9a3f9b4be2
 INFO: Successfully ingested a file object. GUID - urn:uuid:7f01a646-62f7-4697-897d-4bf10aaf40ac
 Summary:
 12 of 12 ingested, 0 skipped
 Number of successful file object ingestion: 12
 Number of successful storage service ingestion: 12
 Number of successful registry ingestion: 9
 End of Report

Step 2:

The screenshot shows the NASA Registry Service web interface. The browser address bar displays 'https://potato.jpl.nasa.gov/registry-ui/'. The page title is 'Registry Service'. Below the navigation tabs (Products, Associations, Packages, Services, Events, Schemes, Classification Nodes), there are search filters for GUID, LID, Name, Object Type, and Status. A table titled 'Product Registry' contains the following data:

Name	LID	Version	Object Type	Status
RPWSINST	urn:nasa:pds:instrument.RPWS_CO:RPWSINST.CAT	1.0	Product_File_Repository	Submitted
CASSINI VIE/JIS/SS RPWS SUMMARY KEY PARAM	urn:nasa:pds:data_set.CO-V-E-J-S-SS-RPWS-4-SUM	1.0	Product_Data_Set_PDS3	Submitted
MISSION	urn:nasa:pds:mission.CASSINI-HUYGENS:MISSION	1.0	Product_File_Repository	Submitted
CASSINI VIE/JIS/SS RPWS CALIBRATED LOW RA	urn:nasa:pds:data_set.CO-V-E-J-S-SS-RPWS-3-RDF	1.0	Product_Data_Set_PDS3	Submitted
CASSINI-HUYGENS	urn:nasa:pds:mission.CASSINI-HUYGENS	1.0	Product_Mission_PDS3	Submitted
VOLDESC	urn:nasa:pds:volume.CORPWS_0164:VOLDESC.CAT	1.0	Product_File_Repository	Submitted
LRFULLDS	urn:nasa:pds:data_set.CO-V-E-J-S-SS-RPWS-3-RDF	1.0	Product_File_Repository	Submitted
CASSINI VIE/JIS/SS RPWS EDITED WIDEBAND FL	urn:nasa:pds:data_set.CO-V-E-J-S-SS-RPWS-2-REF	1.0	Product_Data_Set_PDS3	Submitted
PROJREF	urn:nasa:pds:CORPWS_0164:PROJREF.CAT	1.0	Product_File_Repository	Submitted
CORPWS_0164	urn:nasa:pds:volume.CORPWS_0164	1.0	Collection_Volume_PDS3	Submitted
WFFULLDS	urn:nasa:pds:data_set.CO-V-E-J-S-SS-RPWS-2-REF	1.0	Product_File_Repository	Submitted
WBFULLDS	urn:nasa:pds:data_set.CO-V-E-J-S-SS-RPWS-2-REF	1.0	Product_File_Repository	Submitted
CASSINI VIE/JIS/SS RPWS RAW COMPLETE TLM	urn:nasa:pds:data_set.CO-V-E-J-S-SS-RPWS-2-REF	1.0	Product_Data_Set_PDS3	Submitted
REF	urn:nasa:pds:CORPWS_0164:REF.CAT	1.0	Product_File_Repository	Submitted
RADIO AND PLASMA WAVE SCIENCE for CO	urn:nasa:pds:instrument.RPWS_CO	1.0	Product_Instrument_PDS3	Submitted
RAWDS	urn:nasa:pds:data_set.CO-V-E-J-S-SS-RPWS-2-REF	1.0	Product_File_Repository	Submitted
INSTHOST	urn:nasa:pds:instrument_host.CO:INSTHOST.CAT	1.0	Product_File_Repository	Submitted
CASSINI ORBITER	urn:nasa:pds:instrument_host.CO	1.0	Product_Instrument_Host_PDS3	Submitted
CASSINI VIE/JIS/SS RPWS EDITED WAVEFORM F	urn:nasa:pds:data_set.CO-V-E-J-S-SS-RPWS-2-REF	1.0	Product_Data_Set_PDS3	Submitted
KEYDS	urn:nasa:pds:data_set.CO-V-E-J-S-SS-RPWS-4-SUM	1.0	Product_File_Repository	Submitted

At the bottom of the table, it shows '1 of 2' records displayed and 'Total Records: 21'. The 'Show' dropdown is set to '20 records'.

Step 4: for both, output file ctlg3.out is empty, and the command line output is:
 Error: VOLUME catalog object is missing in this archive volume. Can't process further.

	<p>Step 5: What happens when voldesc points to a missing file (3 target files)? The first time I ran this, I got an uninformative error message:</p> <pre> Jul 17, 2012 12:01:05 AM org.apache.oodt.cas.filemgr.datatransfer.RemoteDataTransferFactory <init> INFO: RemoteDataTransfer enabled: using chunk size: [1024] Jul 17, 2012 12:01:05 AM org.apache.oodt.cas.filemgr.datatransfer.RemoteDataTransferer setFileManagerUrl INFO: Remote Data Transfer to: [http://potato.jpl.nasa.gov:9100] enabled org.apache.oodt.cas.filemgr.structs.exceptions.CatalogException: java.lang.Exception: java.lang.NullPointerException at org.apache.oodt.cas.filemgr.system.XmlRpcFileManagerClient.getProductByName(XmlRpcFileManagerClient.java:1118) at gov.nasa.pds.citool.ingestor.StorageIngestor.getProductByName(StorageIngestor.java:156) at gov.nasa.pds.citool.CIToolIngestor.getProductFromStorageService(CIToolIngestor.java:346) at gov.nasa.pds.citool.CIToolIngestor.getFilesFromStorageService(CIToolIngestor.java:299) at gov.nasa.pds.citool.CIToolIngestor.convertToCatalogObject(CIToolIngestor.java:277) at gov.nasa.pds.citool.CIToolIngestor.process(CIToolIngestor.java:144) at gov.nasa.pds.citool.CIToolIngestor.ingest(CIToolIngestor.java:124) at gov.nasa.pds.citool.CITool.processMain(CITool.java:564) at gov.nasa.pds.citool.CITool.main(CITool.java:580) Exception: null </pre> <p>Step 8: Died in build2b. Worked fine in build2c</p>
<p>Comments</p>	<p>Step 1: catalog -cconfig failed, though command-line options worked</p> <pre> % catalog -cconfig -t testCatalog/CORPWS_lite/ Exception in thread "main" java.lang.NoClassDefFoundError: org/apache/commons/collections/map/LinkedMap at org.apache.commons.configuration.BaseConfiguration.<init>(BaseConfiguration.java:54) at org.apache.commons.configuration.AbstractFileConfiguration.<init>(AbstractFileConfiguration.java:119) at org.apache.commons.configuration.AbstractFileConfiguration.<init>(AbstractFileConfiguration.java:154) at org.apache.commons.configuration.PropertiesConfiguration.<init>(PropertiesConfiguration.java:252) at gov.nasa.pds.citool.commandline.options.ToolsPropertiesConfiguration.<init>(ToolsPropertiesConfiguration.java:11) at gov.nasa.pds.citool.CITool.query(CITool.java:291) at gov.nasa.pds.citool.CITool.query(CITool.java:162) at gov.nasa.pds.citool.CITool.processMain(CITool.java:550) at gov.nasa.pds.citool.CITool.main(CITool.java:580) Caused by: java.lang.ClassNotFoundException: org.apache.commons.collections.map.LinkedMap at java.net.URLClassLoader\$1.run(URLClassLoader.java:202) at java.security.AccessController.doPrivileged(Native Method) at java.net.URLClassLoader.findClass(URLClassLoader.java:190) at java.lang.ClassLoader.loadClass(ClassLoader.java:306) at sun.misc.Launcher\$AppClassLoader.loadClass(Launcher.java:301) at java.lang.ClassLoader.loadClass(ClassLoader.java:247) ... 9 more % cat config citool.mode = ingest citool.user = rchen citool.pass = new4rchen citool.serverUrl = http://potato.jpl.nasa.gov:9100 citool.transportUrl = http://potato.jpl.nasa.gov:80/cas-product citool.keypass = pdscat citool.verbose = 1 % catalog -mingest -urchen -pnew4rchen -shttp://potato.jpl.nasa.gov:9100 - Thhttp://potato.jpl.nasa.gov:80/cas-product -kpdscat -v1 -t testCatalog/CORPWS_lite/ Jul 16, 2012 3:25:18 PM org.apache.oodt.cas.filemgr.datatransfer.RemoteDataTransferFactory <init> INFO: RemoteDataTransfer enabled: using chunk size: [1024] Jul 16, 2012 3:25:18 PM org.apache.oodt.cas.filemgr.datatransfer.RemoteDataTransferer setFileManagerUrl INFO: Remote Data Transfer to: [http://potato.jpl.nasa.gov:9100] enabled registryPackageName = Catalog-Package_CORPWS_0164_20120716152518 PDS Catalog Ingest Tool Report Configuration: Version Version 1.3.0 Date Mon, Jul 16 2012 at 03:25:16 PM </pre>

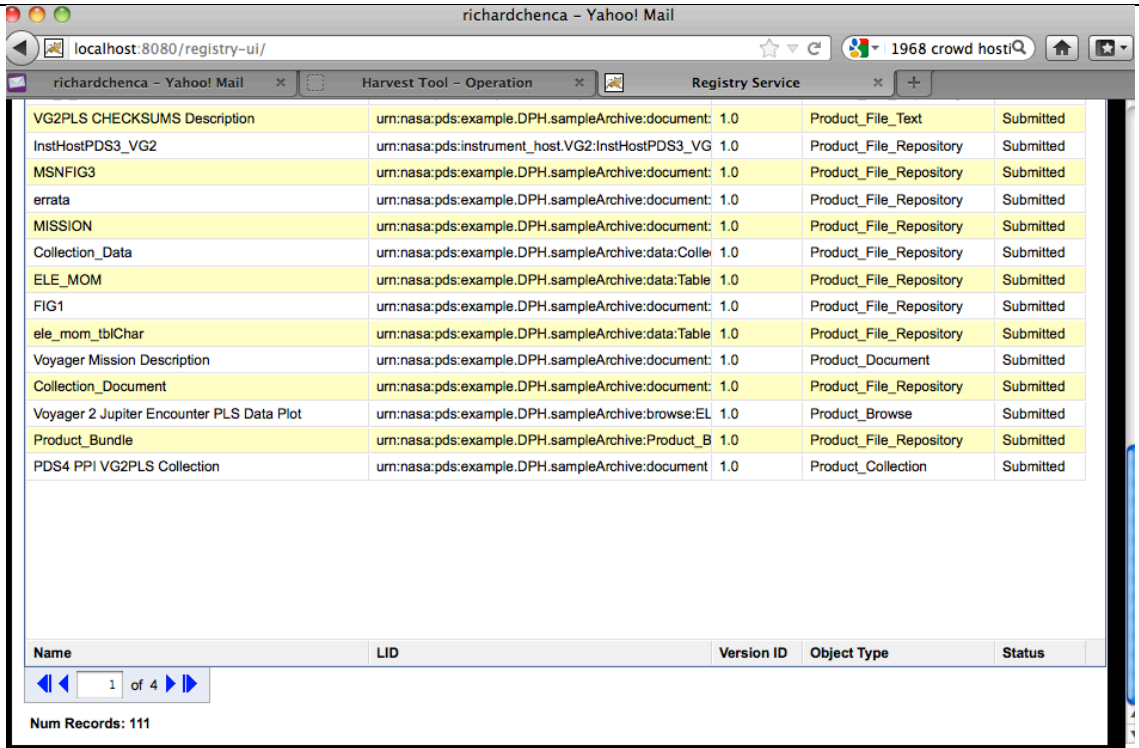
	<p>[snip] https://oodt.jpl.nasa.gov/jira/browse/PDS-87</p> <p>Step 4: Catalog -mingest fails if files to ingest do not include voldesc.cat. Not having voldesc.cat is fairly common. https://oodt.jpl.nasa.gov/jira/browse/PDS-53</p> <p>Step 5: Bad output message when voldesc points to a missing file. However, after other ingests, a rerun of this test exited gracefully</p> <pre> Jul 17, 2012 12:47:19 AM org.apache.oodt.cas.filemgr.datatransfer.RemoteDataTransferFactory <init> INFO: RemoteDataTransfer enabled: using chunk size: [1024] Jul 17, 2012 12:47:20 AM org.apache.oodt.cas.filemgr.datatransfer.RemoteDataTransferer setFileManagerUrl INFO: Remote Data Transfer to: [http://potato.jpl.nasa.gov:9100] enabled Exception: For input string: "SBN_0178:asteroid.cat" </pre> <p>The original output should be fixed. I would try to replicate this by flushing the DB. For http://potato, I can only remove curl -X DELETE extrinsics via GUID, which is probably not a true flush of the DB. https://oodt.jpl.nasa.gov/jira/browse/PDS-88</p>
Date of Testing	2012 Jul 17
Test Personnel	Richard Chen

Test Case ID	GNRT.T1
Description	Generate a PDS4 label from a PDS3 label or a PDS-specific DOM object.
Test Steps	<p>Some files in testHarvest come from PDS3 labels. Generate automatically and compare. Step 3 would be better with an xml diff.</p> <ol style="list-style-type: none"> 1. cd testDir/ 2. generate -p testGenerate/ELE_MOM.LBL -t testGenerate/data.vm > holdings/ele_mom.pds4.lbl 3. diff -w testGenerate/ele_mom_pds4.xml holdings/ele_mom.pds4.lbl
Test Results	<p>Step 3:</p> <pre> <?xml version="1.0" encoding="UTF-8"?> <<Product_Observational xmlns="http://pds.nasa.gov/schema/pds4/pds/v06" < xmlns:pds="http://pds.nasa.gov/schema/pds4/pds/v06" < xmlns:dph="http://pds.nasa.gov/schema/pds4/dph/v01" < xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" < xsi:schemaLocation="http://pds.nasa.gov/schema/pds4/dph/v01 http://pds.jpl.nasa.gov/repository/pds4/examples/dph_examples_6h/dph_example_archive_VG2PLS /schemas/Product_TableChar_tailored_0600h.xsd" < xsi:type="dph:Product_Table_Character"> --- > <Product_Observational xmlns="http://pds.nasa.gov/schema/pds4/pds/v06" xmlns:dph="http://pds.nasa.gov/schema/pds4/dph/v01" xmlns:pds="http://pds.nasa.gov/schema/pds4/pds/v06" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://pds.nasa.gov/schema/pds4/dph/v01 http://pds.jpl.nasa.gov/repository/pds4/examples/dph_examples_6h/dph_example_archive_VG2PLS /schemas/Product_TableChar_tailored_0600h.xsd" xsi:type="dph:Product_Table_Character"> 78,79c69,70 < <dph:spacecraft_clock_start_count>2/20541:22:726</dph:spacecraft_clock_start_count> < <dph:spacecraft_clock_stop_count>2/20661:20:726</dph:spacecraft_clock_stop_count> --- > <spacecraft_clock_start_count>2/20541:22:726</spacecraft_clock_start_count> > <spacecraft_clock_stop_count>2/20661:20:726</spacecraft_clock_stop_count> 81,82c72 < <Node_Area> </pre>

	<pre>< </Node_Area> --- > <Node_Area/></pre>
<p>Comments</p>	<p>These may be due to unfamiliarity with the velocity/generate language. Nevertheless</p> <ol style="list-style-type: none"> The PDS3 file has: <code>^TABLE = "ELE_MOM.TAB"</code> What's the correct way to handle the caret in the template? Because of this, data.vm has <code><file_name>\$label.PRODUCT_ID</file_name></code> instead of the more correct <code><file_name>\$label.^TABLE</file_name></code> The template has <code><dph:spacecraft_clock_start_count>2/20541:22:726</dph:spacecraft_clock_start_count></code> But the output strips off dph: I don't think #foreach alone suffices. What other looping construct can I use? My pds3.lbl has <code>OBJECT = TABLE</code> <code>OBJECT = COLUMN</code> <code>A = X</code> <code>B = X2</code> <code>END_OBJECT = COLUMN</code> <code>OBJECT = COLUMN</code> <code>A = Y</code> <code>B = Y2</code> <code>END_OBJECT = COLUMN</code> <code>OBJECT = COLUMN</code> <code>A = Z</code> <code>B = Z2</code> <code>END_OBJECT = COLUMN</code> while my .vm file has <code>#set(\$fieldCharacterList =</code> <code>\$label.getRecords('TABLE.COLUMN.A','TABLE.COLUMN.B'))</code> <code>#foreach(\$fieldCharacter in \$fieldCharacterList)</code> <code><Field_Character></code> <code><name>\$fieldCharacter.A</name></code> <code><field_number>\$fieldCharacter.B</field_number></code> <code></Field_Character></code> <code>#end</code> However, generate doesn't produce 1 Field_Character (the last one), not 3. The opening <code><?xml></code> tag is stripped off <p>https://oodt.jpl.nasa.gov/jira/browse/PDS-55</p>
<p>Date of Testing</p>	<p>2012 Jul 11</p>
<p>Test Personnel</p>	<p>Richard Chen</p>

<p>Test Case ID</p>	<p>HVT.T1</p>
<p>Description</p>	<p>Provide a command-line interface, accept a configuration file, recursively traverse directories, determine candidates for registration, capture metadata, submit metadata</p>

	to the Registry Service, track each artifact registration.
Test Steps	<p>Note: Steps 5 to 8 remove Harvest's results from the registry (to be nice to the next tester).</p> <ol style="list-style-type: none"> 1. <code>cd testDir/; cp testHarvest/harvestContext.xml ./harvestContext.xml</code> 2. Edit <code>harvestContext.xml</code>: change path of <code><file></code> to <code>testDir/testHarvest/...</code> 3. In browser, note Num Records at bottom of <code>http://localhost:8080/registry-ui/</code> 4. <code>harvest testHarvest/Product_Bundle.xml harvestOptions -c harvestContext.xml > out.txt</code> 5. In browser, check for harvested files. <code>http://localhost:8080/registry-ui/</code> 6. <code>grep "Registration Package GUID" out.txt</code> 7. Replace <code>guid</code> with the GUID from the previous line: <code>curl -X DELETE -v http://localhost:8080/registry/packages/guid/members</code> 8. <code>http://localhost:8080/registry-ui</code>
Test Results	<p>Step 3: If registry was empty (ideally), Num Records was 0</p> <p>Step 4: The bottom of <code>out.txt</code> should have:</p> <pre> Summary: 20 of 20 file(s) processed, 0 other file(s) skipped 0 error(s), 14 warning(s) 20 of 20 products registered. 91 of 91 ancillary products registered. Product Types Registered: 1 Product_Target_PDS3 2 Product_Document 1 Product_Instrument_PDS3 1 Product_Mission_PDS3 1 Product_Browse 1 Product_Observational 4 Product_XML_Schema 2 Product_File_Text 1 Product_Bundle 1 Product_Instrument_Host_PDS3 5 Product_Collection 91 Product_File_Repository 60 of 71 generated checksums matched their supplied value, 20 generated value(s) not checked. 105 of 105 associations registered. End of Log </pre> <p>Step 5: Num Records = old value + products registered in previous step</p>

	 <p>Step 8: Num Records should return to original value</p>
Comments	
Date of Testing	2012 Jul 13
Test Personnel	Richard Chen

Test Case ID	HVT.T2
Description	Execute from a scheduler, accept a configuration file, recursively traverse directories, determine candidates for registration, capture metadata, submit metadata to the Registry Service.
Test Steps	<ol style="list-style-type: none"> 1. In browser, note current Num Records. http://localhost:8080/registry-ui/ 2. <code>cd testDir; mkdir x; mv testHarvest/* x</code> 3. <code>harvest testHarvest harvestOptions -c harvestContext.xml -l log.txt -P 9000 -w 120</code> 4. In browser, note unchanged Num Records. http://localhost:8080/registry-ui/ <p>In a different terminal window</p> <ol style="list-style-type: none"> 5. <code>harvest-ctrl --url http://localhost:9000/xmlrpc --operation --isRunning</code> 6. <code>mv x/* testDir/testHarvest; rmdir x</code> 7. In browser, note changing Num Records. http://localhost:8080/registry-ui/ <p>After Num Records stops increasing</p> <ol style="list-style-type: none"> 8. <code>grep "products registered" log.txt</code> 9. <code>harvest-ctrl --url http://localhost:9000/xmlrpc --operation --stop</code> 10. <code>grep Registration log.txt</code> 11. Replace <i>guid</i> with the GUID from the previous line: <code>curl -X DELETE -v http://localhost:8080/registry/packages/<i>guid</i>/members</code> 12. Check Num Records is original value: http://localhost:8080/registry-ui 13. To show that HVT.T1's harvest of a bundle differs from HVT.T2's, <code>grep notListedInProductBundle log.txt</code> 14. From out.txt in HVT.T1, <code>grep notListedInProductBundle out.txt</code>

<p>Test Results</p>	<p>Step 5: Yes Step 8: Num Records should increase by the number of products registered, which should be greater or equal to the number registered in HVT.T1 (note that they are not always equal because the first parameter to harvest in the previous test was a bundle file while the first parameter here is the directory that includes the bundle file and possibly other valid xml files) Step 9: Crawl Daemon: [http://localhost:9000/xmlrpc]: shutdown successful Step 13:</p> <pre> INFO: [testHarvest/data/notListedInProductBundle.xml] Begin processing. INFO: [testHarvest/data/notListedInProductBundle.xml] line 41: Mapping reference type 'data_to_investigation' to 'investigation_ref'. INFO: [testHarvest/data/notListedInProductBundle.xml] line 52: Mapping reference type 'is_instrument_host' to 'instrument_host_ref'. INFO: [testHarvest/data/notListedInProductBundle.xml] line 61: Mapping reference type 'is_instrument' to 'instrument_ref'. INFO: [testHarvest/data/notListedInProductBundle.xml] line 71: Mapping reference type 'data_to_target' to 'target_ref'. INFO: [testHarvest/data/notListedInProductBundle.xml] Setting LIDVID-based association, 'urn:nasa:pds:investigation.VOYAGER::1.0', under slot name 'investigation_ref'. INFO: [testHarvest/data/notListedInProductBundle.xml] Setting LID-based association, 'urn:nasa:pds:instrument_host.PHX', under slot name 'instrument_host_ref'. INFO: [testHarvest/data/notListedInProductBundle.xml] Setting LID-based association, 'urn:nasa:pds:instrument.PLS_VG2', under slot name 'instrument_ref'. INFO: [testHarvest/data/notListedInProductBundle.xml] Setting LIDVID-based association, 'urn:nasa:pds:target.JUPITER::1.0', under slot name 'target_ref'. SUCCESS: [testHarvest/data/notListedInProductBundle.xml] Successfully registered product: TESTING_HARVEST_OF_FILE_NOT_IN_PRODUCT_BUNDLE:TableChar.VG2-J-PLS-5-SUMM-ELE-MOM-96.0SEC-V1.0::1.1 INFO: [testHarvest/data/notListedInProductBundle.xml] Capturing file information for notListedInProductBundle.xml INFO: [testHarvest/data/notListedInProductBundle.xml] Capturing file object metadata for ELE_MOM.TAB INFO: [testHarvest/data/notListedInProductBundle.xml] Generated checksum '2b555c42a7e7b4981407c9a824237f4a' matches the supplied checksum '2b555c42a7e7b4981407c9a824237f4a' for file object 'ELE_MOM.TAB'. SUCCESS: [testHarvest/data/notListedInProductBundle.xml] Successfully registered product: TESTING_HARVEST_OF_FILE_NOT_IN_PRODUCT_BUNDLE:TableChar.VG2-J-PLS-5-SUMM-ELE-MOM-96.0SEC-V1.0:notListedInProductBundle.xml::1.1 SUCCESS: [testHarvest/data/notListedInProductBundle.xml] Successfully registered product: TESTING_HARVEST_OF_FILE_NOT_IN_PRODUCT_BUNDLE:TableChar.VG2-J-PLS-5-SUMM-ELE-MOM-96.0SEC-V1.0:ELE_MOM.TAB::1.1 SUCCESS: [testHarvest/data/notListedInProductBundle.xml] Successfully registered association to TESTING_HARVEST_OF_FILE_NOT_IN_PRODUCT_BUNDLE:TableChar.VG2-J-PLS-5-SUMM-ELE-MOM-96.0SEC-V1.0:notListedInProductBundle.xml::1.1 SUCCESS: [testHarvest/data/notListedInProductBundle.xml] Successfully registered association to TESTING_HARVEST_OF_FILE_NOT_IN_PRODUCT_BUNDLE:TableChar.VG2-J-PLS-5-SUMM-ELE-MOM-96.0SEC-V1.0:ELE_MOM.TAB::1.1 </pre> <p>Step 14: no results, i.e. previous harvest ignored files not listed in Product_Bundle.xml</p>
<p>Comments</p>	
<p>Date of Testing</p>	<p>2012 Jul 13</p>
<p>Test Personnel</p>	<p>Richard Chen</p>

<p>Test Case ID</p>	<p>HVT.T3</p>
<p>Description</p>	<p>Harvest a large number of files. Skip for build 2c due to a lack of test data.</p>
<p>Test Steps</p>	<ol style="list-style-type: none"> 1. cd <i>testDir</i>; cp testHarvest/harvestLarge.xml ./harvestLarge.xml 2. Edit harvestLarge.xml: change path of <file> to <i>testDir/testHarvest/...</i> 3. harvest testHarvest/Product_Bundle <i>harvestOptions</i> -c harvestContext.xml 4. In browser, check for harvested files. http://localhost:8080/registry-ui/

	<ol style="list-style-type: none"> 5. grep Registration out.txt 6. Replace <i>guid</i> with the GUID from the previous line: curl -X DELETE -v http://localhost:8080/registry/packages/guid/members Concurrently, in a browser, http://localhost:8080/registry-ui 7. http://localhost:8080/registry-ui
<p>Test Results</p>	<p>Step 3: The bottom of out.txt should have:</p> <pre>Summary: 718 of 718 file(s) processed, 0 skipped 1978 of 2088 products registered. 1370 of 1370 associations registered, 0 skipped End of Log</pre>
<p>Comments</p>	<p>Crash</p> <pre>[many good messages] FAILURE: [testDir/testHarvest/PDS3vg2/DATA/MAG/SC_FIELD.LBL] <html><head><title>Apache Tomcat/6.0.35 - Error report</title><style><!--H1 {font-family:Tahoma,Arial,sans- serif;color:white;background-color:#525D76;font-size:22px;} H2 {font-family:Tahoma,Arial,sans- serif;color:white;background-color:#525D76;font-size:16px;} H3 {font-family:Tahoma,Arial,sans- serif;color:white;background-color:#525D76;font-size:14px;} BODY {font-family:Tahoma,Arial,sans- serif;color:black;background-color:white;} B {font-family:Tahoma,Arial,sans-serif;color:white;background- color:#525D76;} P {font-family:Tahoma,Arial,sans-serif;background:white;color:black;font-size:12px;}A {color : black;}A.name {color : black;}HR {color : #525D76;--></style> </head><body><h1>HTTP Status 500 - </h1><HR size="1" noshade="noshade"><p>type Exception report</p><p>message <u></u></p><p>description <u></u></p><p>exception <pre>javax.persistence.PersistenceException: org.hibernate.exception.DataException: could not insert: [gov.nasa.pds.registry.model.ExtrinsicObject] org.hibernate.ejb.AbstractEntityManagerImpl.convert(AbstractEntityManagerImpl.java:123 5) org.hibernate.ejb.AbstractEntityManagerImpl.convert(AbstractEntityManagerImpl.java:116 8) org.hibernate.ejb.AbstractEntityManagerImpl.convert(AbstractEntityManagerImpl.java:117 4) org.hibernate.ejb.AbstractEntityManagerImpl.persist(AbstractEntityManagerImpl.java:674) sun.reflect.GeneratedMethodAccessor74.invoke(Unknown Source) sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:25) java.lang.reflect.Method.invoke(Method.java:597) org.springframework.orm.jpa.ExtendedEntityManagerCreator\$ExtendedEntityManagerInvocati onHandler.invoke(ExtendedEntityManagerCreator.java:365) \$Proxy49.persist(Unknown Source) sun.reflect.GeneratedMethodAccessor74.invoke(Unknown Source) sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:25) java.lang.reflect.Method.invoke(Method.java:597) org.springframework.orm.jpa.SharedEntityManagerCreator\$SharedEntityManagerInvocati onHandler.invoke(SharedEntityManagerCreator.java:240) \$Proxy49.persist(Unknown Source) gov.nasa.pds.registry.service.MetadataStoreJPA.saveRegistryObject(MetadataStoreJPA.java: 289) sun.reflect.GeneratedMethodAccessor76.invoke(Unknown Source) sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:25) java.lang.reflect.Method.invoke(Method.java:597) org.springframework.aop.support.AopUtils.invokeJoinpointUsingReflection(AopUtils.java: 309) org.springframework.aop.framework.ReflectiveMethodInvocation.invokeJoinpoint(Reflecti veMethodInvocation.java:183) org.springframework.aop.framework.ReflectiveMethodInvocation.proceed(ReflectiveMetho dInvocation.java:150) org.springframework.transaction.interceptor.TransactionInterceptor.invoke(TransactionInte rceptor.java:110) org.springframework.aop.framework.ReflectiveMethodInvocation.proceed(ReflectiveMetho dInvocation.java:172) org.springframework.aop.framework.JdkDynamicAopProxy.invoke(JdkDynamicAopProxy. java:202) \$Proxy50.saveRegistryObject(Unknown Source) gov.nasa.pds.registry.service.RegistryServiceImpl.publishObject(RegistryServiceImpl.java:5 26) gov.nasa.pds.registry.resource.ExtrinsicsResource.publishExtrinsic(ExtrinsicsResource.java: 186) sun.reflect.GeneratedMethodAccessor104.invoke(Unknown Source) sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:25)</pre>

	<pre> java.lang.reflect.Method.invoke(Method.java:597) com.sun.jersey.server.impl.model.method.dispatch.AbstractResourceMethodDispatchProvi der\$ResponseOutInvoker._dispatch(AbstractResourceMethodDispatchProvider.java:187) com.sun.jersey.server.impl.model.method.dispatch.ResourceJavaMethodDispatcher.dispatc h(ResourceJavaMethodDispatcher.java:70) com.sun.jersey.server.impl.uri.rules.HttpMethodRule.accept(HttpMethodRule.java:279) com.sun.jersey.server.impl.uri.rules.SubLocatorRule.accept(SubLocatorRule.java:121) com.sun.jersey.server.impl.uri.rules.RightHandPathRule.accept(RightHandPathRule.java:13 6) com.sun.jersey.server.impl.uri.rules.ResourceClassRule.accept(ResourceClassRule.java:86) com.sun.jersey.server.impl.uri.rules.RightHandPathRule.accept(RightHandPathRule.java:13 6) com.sun.jersey.server.impl.uri.rules.RootResourceClassesRule.accept(RootResourceClasses Rule.java:74) com.sun.jersey.server.impl.application.WebApplicationImpl._handleRequest(WebApplicati onImpl.java:1357) com.sun.jersey.server.impl.application.WebApplicationImpl._handleRequest(WebApplicati onImpl.java:1289) com.sun.jersey.server.impl.application.WebApplicationImpl.handleRequest(WebApplicatio nImpl.java:1239) com.sun.jersey.server.impl.application.WebApplicationImpl.handleRequest(WebApplicatio nImpl.java:1229) com.sun.jersey.spi.container.servlet.WebComponent.service(WebComponent.java:420) com.sun.jersey.spi.container.servlet.ServletContainer.service(ServletContainer.java:497) com.sun.jersey.spi.container.servlet.ServletContainer.doFilter(ServletContainer.java:855) com.sun.jersey.spi.container.servlet.ServletContainer.doFilter(ServletContainer.java:828) com.sun.jersey.spi.container.servlet.ServletContainer.doFilter(ServletContainer.java:789) org.springframework.orm.jpa.support.OpenEntityManagerInViewFilter.doFilterInternal(Op enEntityManagerInViewFilter.java:113) org.springframework.web.filter.OncePerRequestFilter.doFilter(OncePerRequestFilter.java:7 6) </pre></p><p>root cause <pre>org.hibernate.exception.DataException: could not insert: [gov.nasa.pds.registry.model.ExtrinsicObject] org.hibernate.exception.SQLStateConverter.convert(SQLStateConverter.java:102) org.hibernate.exception.JDBCExceptionHelper.convert(JDBCExceptionHelper.java:66) org.hibernate.persister.entity.AbstractEntityPersister.insert(AbstractEntityPersister.java:243 8) org.hibernate.persister.entity.AbstractEntityPersister.insert(AbstractEntityPersister.java:285 8) org.hibernate.action.EntityInsertAction.execute(EntityInsertAction.java:79) org.hibernate.engine.ActionQueue.execute(ActionQueue.java:268) org.hibernate.engine.ActionQueue.executeActions(ActionQueue.java:260) org.hibernate.engine.ActionQueue.executeInserts(ActionQueue.java:170) org.hibernate.event.def.AbstractSaveEventListener.performSaveOrReplicate(AbstractSaveE ventListener.java:268) org.hibernate.event.def.AbstractSaveEventListener.performSave(AbstractSaveEventListener .java:204) org.hibernate.event.def.AbstractSaveEventListener.saveWithGeneratedId(AbstractSaveEven tListener.java:130) org.hibernate.ejb.event.EJB3PersistEventListener.saveWithGeneratedId(EJB3PersistEventLi stener.java:69) org.hibernate.event.def.DefaultPersistEventListener.entityIsTransient(DefaultPersistEventLi stener.java:179) org.hibernate.event.def.DefaultPersistEventListener.onPersist(DefaultPersistEventListener.j ava:135) org.hibernate.impl.SessionImpl.firePersist(SessionImpl.java:791) org.hibernate.impl.SessionImpl.persist(SessionImpl.java:783) org.hibernate.engine.EJB3CascadingAction\$1.cascade(EJB3CascadingAction.java:48) org.hibernate.engine.Cascade.cascadeToOne(Cascade.java:392) org.hibernate.engine.Cascade.cascadeAssociation(Cascade.java:335) org.hibernate.engine.Cascade.cascadeProperty(Cascade.java:204) org.hibernate.engine.Cascade.cascadeCollectionElements(Cascade.java:425) org.hibernate.engine.Cascade.cascadeCollection(Cascade.java:362) org.hibernate.engine.Cascade.cascadeAssociation(Cascade.java:338) org.hibernate.engine.Cascade.cascadeProperty(Cascade.java:204) org.hibernate.engine.Cascade.cascade(Cascade.java:161) org.hibernate.event.def.AbstractSaveEventListener.cascadeAfterSave(AbstractSaveEventLi stener.java:476) org.hibernate.event.def.AbstractSaveEventListener.performSaveOrReplicate(AbstractSaveE ventListener.java:354) org.hibernate.event.def.AbstractSaveEventListener.performSave(AbstractSaveEventListener .java:204) </pre>
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	<p>org.hibernate.event.def.AbstractSaveEventListener.saveWithGeneratedId(AbstractSaveEventListener.java:144)</p> <p>org.hibernate.ejb.event.EJB3PersistEventListener.saveWithGeneratedId(EJB3PersistEventListener.java:69)</p> <p>org.hibernate.event.def.DefaultPersistEventListener.entityIsTransient(DefaultPersistEventListener.java:179)</p> <p>org.hibernate.event.def.DefaultPersistEventListener.onPersist(DefaultPersistEventListener.java:135)</p> <p>org.hibernate.event.def.DefaultPersistEventListener.onPersist(DefaultPersistEventListener.java:61)</p> <p>org.hibernate.impl.SessionImpl.firePersist(SessionImpl.java:800)</p> <p>org.hibernate.impl.SessionImpl.persist(SessionImpl.java:774)</p> <p>org.hibernate.impl.SessionImpl.persist(SessionImpl.java:778)</p> <p>org.hibernate.ejb.AbstractEntityManagerImpl.persist(AbstractEntityManagerImpl.java:668)</p> <p>sun.reflect.GeneratedMethodAccessor74.invoke(Unknown Source)</p> <p>sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:25)</p> <p>java.lang.reflect.Method.invoke(Method.java:597)</p> <p>org.springframework.orm.jpa.ExtendedEntityManagerCreator\$ExtendedEntityManagerInvocationHandler.invoke(ExtendedEntityManagerCreator.java:365)</p> <p>\$Proxy49.persist(Unknown Source)</p> <p>sun.reflect.GeneratedMethodAccessor74.invoke(Unknown Source)</p> <p>sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:25)</p> <p>java.lang.reflect.Method.invoke(Method.java:597)</p> <p>org.springframework.orm.jpa.SharedEntityManagerCreator\$SharedEntityManagerInvocationHandler.invoke(SharedEntityManagerCreator.java:240)</p> <p>\$Proxy49.persist(Unknown Source)</p> <p>gov.nasa.pds.registry.service.MetadataStoreJPA.saveRegistryObject(MetadataStoreJPA.java:289)</p> <p>sun.reflect.GeneratedMethodAccessor76.invoke(Unknown Source)</p> <p>sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:25)</p> <p>java.lang.reflect.Method.invoke(Method.java:597)</p> <p>org.springframework.aop.support.AopUtils.invokeJoinpointUsingReflection(AopUtils.java:309)</p> <p>org.springframework.aop.framework.ReflectiveMethodInvocation.invokeJoinpoint(ReflectiveMethodInvocation.java:183)</p> <p>org.springframework.aop.framework.ReflectiveMethodInvocation.proceed(ReflectiveMethodInvocation.java:150)</p> <p>org.springframework.transaction.interceptor.TransactionInterceptor.invoke(TransactionInterceptor.java:110)</p> <p>org.springframework.aop.framework.ReflectiveMethodInvocation.proceed(ReflectiveMethodInvocation.java:172)</p> <p>org.springframework.aop.framework.JdkDynamicAopProxy.invoke(JdkDynamicAopProxy.java:202)</p> <p>\$Proxy50.saveRegistryObject(Unknown Source)</p> <p>gov.nasa.pds.registry.service.RegistryServiceImpl.publishObject(RegistryServiceImpl.java:26)</p> <p>gov.nasa.pds.registry.resource.ExtrinsicsResource.publishExtrinsic(ExtrinsicsResource.java:186)</p> <p>sun.reflect.GeneratedMethodAccessor104.invoke(Unknown Source)</p> <p>sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:25)</p> <p>java.lang.reflect.Method.invoke(Method.java:597)</p> <p>com.sun.jersey.server.impl.model.method.dispatch.AbstractResourceMethodDispatchProvider\$ResponseOutInvoker._dispatch(AbstractResourceMethodDispatchProvider.java:187)</p> <p>com.sun.jersey.server.impl.model.method.dispatch.ResourceJavaMethodDispatcher.dispatch(ResourceJavaMethodDispatcher.java:70)</p> <p>com.sun.jersey.server.impl.uri.rules.HttpMethodRule.accept(HttpMethodRule.java:279)</p> <p>com.sun.jersey.server.impl.uri.rules.SubLocatorRule.accept(SubLocatorRule.java:121)</p> <p>com.sun.jersey.server.impl.uri.rules.RightHandPathRule.accept(RightHandPathRule.java:136)</p> <p>com.sun.jersey.server.impl.uri.rules.ResourceClassRule.accept(ResourceClassRule.java:86)</p> <p>com.sun.jersey.server.impl.uri.rules.RightHandPathRule.accept(RightHandPathRule.java:136)</p> <p>com.sun.jersey.server.impl.uri.rules.RootResourceClassesRule.accept(RootResourceClassesRule.java:74)</p> <p>com.sun.jersey.server.impl.application.WebApplicationImpl._handleRequest(WebApplicationImpl.java:1357)</p> <p>com.sun.jersey.server.impl.application.WebApplicationImpl._handleRequest(WebApplicationImpl.java:1289)</p> <p>com.sun.jersey.server.impl.application.WebApplicationImpl.handleRequest(WebApplicationImpl.java:1239)</p> <p>com.sun.jersey.server.impl.application.WebApplicationImpl.handleRequest(WebApplicationImpl.java:1229)</p>
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	<pre> com.sun.jersey.spi.container.servlet.WebComponent.service(WebComponent.java:420) com.sun.jersey.spi.container.servlet.ServletContainer.service(ServletContainer.java:497) com.sun.jersey.spi.container.servlet.ServletContainer.doFilter(ServletContainer.java:855) com.sun.jersey.spi.container.servlet.ServletContainer.doFilter(ServletContainer.java:828) com.sun.jersey.spi.container.servlet.ServletContainer.doFilter(ServletContainer.java:789) org.springframework.orm.jpa.support.OpenEntityManagerInViewFilter.doFilterInternal(OpenEntityManagerInViewFilter.java:113) org.springframework.web.filter.OncePerRequestFilter.doFilter(OncePerRequestFilter.java:76) </pre> <p>6)</p> <pre> </pre></p><p>root cause <pre>java.sql.SQLDataException: A truncation error was encountered trying to shrink VARCHAR 'TESTING:HARVEST:PDS3:[VG2-U-MAG-4-RDR-HGCOORDS-1.92SEC-V1.0,&amp;' to length 255. org.apache.derby.impl.jdbc.SQLExceptionFactory40.getSQLException(Unknown Source) org.apache.derby.impl.jdbc.Util.generateCsSQLException(Unknown Source) org.apache.derby.impl.jdbc.TransactionResourceImpl.wrapInSQLException(Unknown Source) org.apache.derby.impl.jdbc.TransactionResourceImpl.handleException(Unknown Source) org.apache.derby.impl.jdbc.EmbedConnection.handleException(Unknown Source) org.apache.derby.impl.jdbc.ConnectionChild.handleException(Unknown Source) org.apache.derby.impl.jdbc.EmbedStatement.executeStatement(Unknown Source) org.apache.derby.impl.jdbc.EmbedPreparedStatement.executeStatement(Unknown Source) org.apache.derby.impl.jdbc.EmbedPreparedStatement.executeUpdate(Unknown Source) org.hibernate.jdbc.NonBatchingBatcher.addToBatch(NonBatchingBatcher.java:46) org.hibernate.persister.entity.AbstractEntityPersister.insert(AbstractEntityPersister.java:2418) org.hibernate.persister.entity.AbstractEntityPersister.insert(AbstractEntityPersister.java:2858) org.hibernate.action.EntityInsertAction.execute(EntityInsertAction.java:79) org.hibernate.engine.ActionQueue.execute(ActionQueue.java:268) org.hibernate.engine.ActionQueue.executeActions(ActionQueue.java:260) org.hibernate.engine.ActionQueue.executeInserts(ActionQueue.java:170) org.hibernate.event.def.AbstractSaveEventListener.performSaveOrReplicate(AbstractSaveEventListener.java:268) org.hibernate.event.def.AbstractSaveEventListener.performSave(AbstractSaveEventListener.java:204) org.hibernate.event.def.AbstractSaveEventListener.saveWithGeneratedId(AbstractSaveEventListener.java:130) org.hibernate.ejb.event.EJB3PersistEventListener.saveWithGeneratedId(EJB3PersistEventListener.java:69) org.hibernate.event.def.DefaultPersistEventListener.entityIsTransient(DefaultPersistEventListener.java:179) org.hibernate.event.def.DefaultPersistEventListener.onPersist(DefaultPersistEventListener.java:135) org.hibernate.impl.SessionImpl.firePersist(SessionImpl.java:791) org.hibernate.impl.SessionImpl.persist(SessionImpl.java:783) org.hibernate.engine.EJB3CascadingAction\$1.cascade(EJB3CascadingAction.java:48) org.hibernate.engine.Cascade.cascadeToOne(Cascade.java:392) org.hibernate.engine.Cascade.cascadeAssociation(Cascade.java:335) org.hibernate.engine.Cascade.cascadeProperty(Cascade.java:204) org.hibernate.engine.Cascade.cascadeCollectionElements(Cascade.java:425) org.hibernate.engine.Cascade.cascadeCollection(Cascade.java:362) org.hibernate.engine.Cascade.cascadeAssociation(Cascade.java:338) org.hibernate.engine.Cascade.cascadeProperty(Cascade.java:204) org.hibernate.engine.Cascade.cascade(Cascade.java:161) org.hibernate.event.def.AbstractSaveEventListener.cascadeAfterSave(AbstractSaveEventListener.java:476) org.hibernate.event.def.AbstractSaveEventListener.performSaveOrReplicate(AbstractSaveEventListener.java:354) org.hibernate.event.def.AbstractSaveEventListener.performSave(AbstractSaveEventListener.java:204) org.hibernate.event.def.AbstractSaveEventListener.saveWithGeneratedId(AbstractSaveEventListener.java:144) org.hibernate.ejb.event.EJB3PersistEventListener.saveWithGeneratedId(EJB3PersistEventListener.java:69) org.hibernate.event.def.DefaultPersistEventListener.entityIsTransient(DefaultPersistEventListener.java:179) org.hibernate.event.def.DefaultPersistEventListener.onPersist(DefaultPersistEventListener.java:135) org.hibernate.event.def.DefaultPersistEventListener.onPersist(DefaultPersistEventListener.java:61) org.hibernate.impl.SessionImpl.firePersist(SessionImpl.java:800) org.hibernate.impl.SessionImpl.persist(SessionImpl.java:774) </pre>
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	<pre> org.hibernate.impl.SessionImpl.persist(SessionImpl.java:778) org.hibernate.ejb.AbstractEntityManagerImpl.persist(AbstractEntityManagerImpl.java:668) sun.reflect.GeneratedMethodAccessor74.invoke(Unknown Source) sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:25) java.lang.reflect.Method.invoke(Method.java:597) org.springframework.orm.jpa.ExtendedEntityManagerCreator\$ExtendedEntityManagerInv ocationHandler.invoke(ExtendedEntityManagerCreator.java:365) \$Proxy49.persist(Unknown Source) sun.reflect.GeneratedMethodAccessor74.invoke(Unknown Source) sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:25) java.lang.reflect.Method.invoke(Method.java:597) org.springframework.orm.jpa.SharedEntityManagerCreator\$SharedEntityManagerInvocati onHandler.invoke(SharedEntityManagerCreator.java:240) \$Proxy49.persist(Unknown Source) gov.nasa.pds.registry.service.MetadataStoreJPA.saveRegistryObject(MetadataStoreJPA.java: 289) sun.reflect.GeneratedMethodAccessor76.invoke(Unknown Source) sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:25) java.lang.reflect.Method.invoke(Method.java:597) org.springframework.aop.support.AopUtils.invokeJoinpointUsingReflection(AopUtils.java: 309) org.springframework.aop.framework.ReflectiveMethodInvocation.invokeJoinpoint(Reflecti veMethodInvocation.java:183) org.springframework.aop.framework.ReflectiveMethodInvocation.proceed(ReflectiveMetho dInvocation.java:150) org.springframework.transaction.interceptor.TransactionInterceptor.invoke(TransactionInte rceptor.java:110) org.springframework.aop.framework.ReflectiveMethodInvocation.proceed(ReflectiveMetho dInvocation.java:172) org.springframework.aop.framework.JdkDynamicAopProxy.invoke(JdkDynamicAopProxy. java:202) \$Proxy50.saveRegistryObject(Unknown Source) gov.nasa.pds.registry.service.RegistryServiceImpl.publishObject(RegistryServiceImpl.java:5 26) gov.nasa.pds.registry.resource.ExtrinsicsResource.publishExtrinsic(ExtrinsicsResource.java: 186) sun.reflect.GeneratedMethodAccessor104.invoke(Unknown Source) sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:25) java.lang.reflect.Method.invoke(Method.java:597) com.sun.jersey.server.impl.model.method.dispatch.AbstractResourceMethodDispatchProvi der\$ResponseOutInvoker._dispatch(AbstractResourceMethodDispatchProvider.java:187) com.sun.jersey.server.impl.model.method.dispatch.ResourceJavaMethodDispatcher.dispatch h(ResourceJavaMethodDispatcher.java:70) com.sun.jersey.server.impl.uri.rules.HttpMethodRule.accept(HttpMethodRule.java:279) com.sun.jersey.server.impl.uri.rules.SubLocatorRule.accept(SubLocatorRule.java:121) com.sun.jersey.server.impl.uri.rules.RightHandPathRule.accept(RightHandPathRule.java:13 6) com.sun.jersey.server.impl.uri.rules.ResourceClassRule.accept(ResourceClassRule.java:86) com.sun.jersey.server.impl.uri.rules.RightHandPathRule.accept(RightHandPathRule.java:13 6) com.sun.jersey.server.impl.uri.rules.RootResourceClassesRule.accept(RootResourceClasses Rule.java:74) com.sun.jersey.server.impl.application.WebApplicationImpl._handleRequest(WebApplicati onImpl.java:1357) com.sun.jersey.server.impl.application.WebApplicationImpl._handleRequest(WebApplicati onImpl.java:1289) com.sun.jersey.server.impl.application.WebApplicationImpl.handleRequest(WebApplicatio nImpl.java:1239) com.sun.jersey.server.impl.application.WebApplicationImpl.handleRequest(WebApplicatio nImpl.java:1229) com.sun.jersey.spi.container.servlet.WebComponent.service(WebComponent.java:420) com.sun.jersey.spi.container.servlet.ServletContainer.service(ServletContainer.java:497) com.sun.jersey.spi.container.servlet.ServletContainer.doFilter(ServletContainer.java:855) com.sun.jersey.spi.container.servlet.ServletContainer.doFilter(ServletContainer.java:828) com.sun.jersey.spi.container.servlet.ServletContainer.doFilter(ServletContainer.java:789) org.springframework.orm.jpa.support.OpenEntityManagerInViewFilter.doFilterInternal(Op enEntityManagerInViewFilter.java:113) org.springframework.web.filter.OncePerRequestFilter.doFilter(OncePerRequestFilter.java:7 6) </pre> <p></pre></p><p>root cause <pre>java.sql.SQLException: A truncation error was encountered trying to shrink VARCHAR 'TESTING:HARVEST:PDS3:{VG2-U-MAG-4-RDR-HGCOORDS-1.92SEC-V1.0,&amp;' to length 255.</p>
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	<p>org.apache.derby.impl.jdbc.SQLExceptionFactory.getSQLException(Unknown Source) org.apache.derby.impl.jdbc.SQLExceptionFactory40.wrapArgsForTransportAcrossDRDA(Unknown Source) org.apache.derby.impl.jdbc.SQLExceptionFactory40.getSQLException(Unknown Source) org.apache.derby.impl.jdbc.Util.generateCsSQLException(Unknown Source) org.apache.derby.impl.jdbc.TransactionResourceImpl.wrapInSQLException(Unknown Source) org.apache.derby.impl.jdbc.TransactionResourceImpl.handleException(Unknown Source) org.apache.derby.impl.jdbc.EmbedConnection.handleException(Unknown Source) org.apache.derby.impl.jdbc.ConnectionChild.handleException(Unknown Source) org.apache.derby.impl.jdbc.EmbedStatement.executeStatement(Unknown Source) org.apache.derby.impl.jdbc.EmbedPreparedStatement.executeStatement(Unknown Source) org.apache.derby.impl.jdbc.EmbedPreparedStatement.executeUpdate(Unknown Source) org.hibernate.jdbc.NonBatchingBatcher.addToBatch(NonBatchingBatcher.java:46) org.hibernate.persister.entity.AbstractEntityPersister.insert(AbstractEntityPersister.java:2418) org.hibernate.persister.entity.AbstractEntityPersister.insert(AbstractEntityPersister.java:2858) org.hibernate.action.EntityInsertAction.execute(EntityInsertAction.java:79) org.hibernate.engine.ActionQueue.execute(ActionQueue.java:268) org.hibernate.engine.ActionQueue.executeActions(ActionQueue.java:260) org.hibernate.engine.ActionQueue.executeInserts(ActionQueue.java:170) org.hibernate.event.def.AbstractSaveEventListener.performSaveOrReplicate(AbstractSaveEventListener.java:268) org.hibernate.event.def.AbstractSaveEventListener.performSave(AbstractSaveEventListener.java:204) org.hibernate.event.def.AbstractSaveEventListener.saveWithGeneratedId(AbstractSaveEventListener.java:130) org.hibernate.ejb.event.EJB3PersistEventListener.saveWithGeneratedId(EJB3PersistEventListener.java:69) org.hibernate.event.def.DefaultPersistEventListener.entityIsTransient(DefaultPersistEventListener.java:179) org.hibernate.event.def.DefaultPersistEventListener.onPersist(DefaultPersistEventListener.java:135) org.hibernate.impl.SessionImpl.firePersist(SessionImpl.java:791) org.hibernate.impl.SessionImpl.persist(SessionImpl.java:783) org.hibernate.engine.EJB3CascadingAction\$1.cascade(EJB3CascadingAction.java:48) org.hibernate.engine.Cascade.cascadeToOne(Cascade.java:392) org.hibernate.engine.Cascade.cascadeAssociation(Cascade.java:335) org.hibernate.engine.Cascade.cascadeProperty(Cascade.java:204) org.hibernate.engine.Cascade.cascadeCollectionElements(Cascade.java:425) org.hibernate.engine.Cascade.cascadeCollection(Cascade.java:362) org.hibernate.engine.Cascade.cascadeAssociation(Cascade.java:338) org.hibernate.engine.Cascade.cascadeProperty(Cascade.java:204) org.hibernate.engine.Cascade.cascade(Cascade.java:161) org.hibernate.event.def.AbstractSaveEventListener.cascadeAfterSave(AbstractSaveEventListener.java:476) org.hibernate.event.def.AbstractSaveEventListener.performSaveOrReplicate(AbstractSaveEventListener.java:354) org.hibernate.event.def.AbstractSaveEventListener.performSave(AbstractSaveEventListener.java:204) org.hibernate.event.def.AbstractSaveEventListener.saveWithGeneratedId(AbstractSaveEventListener.java:144) org.hibernate.ejb.event.EJB3PersistEventListener.saveWithGeneratedId(EJB3PersistEventListener.java:69) org.hibernate.event.def.DefaultPersistEventListener.entityIsTransient(DefaultPersistEventListener.java:179) org.hibernate.event.def.DefaultPersistEventListener.onPersist(DefaultPersistEventListener.java:135) org.hibernate.event.def.DefaultPersistEventListener.onPersist(DefaultPersistEventListener.java:61) org.hibernate.impl.SessionImpl.firePersist(SessionImpl.java:800) org.hibernate.impl.SessionImpl.persist(SessionImpl.java:774) org.hibernate.impl.SessionImpl.persist(SessionImpl.java:778) org.hibernate.ejb.AbstractEntityManagerImpl.persist(AbstractEntityManagerImpl.java:668) sun.reflect.GeneratedMethodAccessor74.invoke(Unknown Source) sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:25) java.lang.reflect.Method.invoke(Method.java:597) org.springframework.orm.jpa.ExtendedEntityManagerCreator\$ExtendedEntityManagerInvocationHandler.invoke(ExtendedEntityManagerCreator.java:365) \$Proxy49.persist(Unknown Source) sun.reflect.GeneratedMethodAccessor74.invoke(Unknown Source)</p>
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	<pre> sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:25) java.lang.reflect.Method.invoke(Method.java:597) org.springframework.orm.jpa.SharedEntityManagerCreator\$SharedEntityManagerInvocati onHandler.invoke(SharedEntityManagerCreator.java:240) \$Proxy49.persist(Unknown Source) gov.nasa.pds.registry.service.MetadataStoreJPA.saveRegistryObject(MetadataStoreJPA.java: 289) sun.reflect.GeneratedMethodAccessor76.invoke(Unknown Source) sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:25) java.lang.reflect.Method.invoke(Method.java:597) org.springframework.aop.support.AopUtils.invokeJoinpointUsingReflection(AopUtils.java: 309) org.springframework.aop.framework.ReflectiveMethodInvocation.invokeJoinpoint(Reflecti veMethodInvocation.java:183) org.springframework.aop.framework.ReflectiveMethodInvocation.proceed(ReflectiveMetho dInvocation.java:150) org.springframework.transaction.interceptor.TransactionInterceptor.invoke(TransactionInte rceptor.java:110) org.springframework.aop.framework.ReflectiveMethodInvocation.proceed(ReflectiveMetho dInvocation.java:172) org.springframework.aop.framework.JdkDynamicAopProxy.invoke(JdkDynamicAopProxy. java:202) \$Proxy50.saveRegistryObject(Unknown Source) gov.nasa.pds.registry.service.RegistryServiceImpl.publishObject(RegistryServiceImpl.java:5 26) gov.nasa.pds.registry.resource.ExtrinsicsResource.publishExtrinsic(ExtrinsicsResource.java: 186) sun.reflect.GeneratedMethodAccessor104.invoke(Unknown Source) sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:25) java.lang.reflect.Method.invoke(Method.java:597) com.sun.jersey.server.impl.model.method.dispatch.AbstractResourceMethodDispatchProvi der\$ResponseOutInvoker._dispatch(AbstractResourceMethodDispatchProvider.java:187) com.sun.jersey.server.impl.model.method.dispatch.ResourceJavaMethodDispatcher.dispatc h(ResourceJavaMethodDispatcher.java:70) com.sun.jersey.server.impl.uri.rules.HttpMethodRule.accept(HttpMethodRule.java:279) com.sun.jersey.server.impl.uri.rules.SubLocatorRule.accept(SubLocatorRule.java:121) com.sun.jersey.server.impl.uri.rules.RightHandPathRule.accept(RightHandPathRule.java:13 6) com.sun.jersey.server.impl.uri.rules.ResourceClassRule.accept(ResourceClassRule.java:86) com.sun.jersey.server.impl.uri.rules.RightHandPathRule.accept(RightHandPathRule.java:13 6) com.sun.jersey.server.impl.uri.rules.RootResourceClassesRule.accept(RootResourceClasses Rule.java:74) com.sun.jersey.server.impl.application.WebApplicationImpl._handleRequest(WebApplicati onImpl.java:1357) com.sun.jersey.server.impl.application.WebApplicationImpl._handleRequest(WebApplicati onImpl.java:1289) com.sun.jersey.server.impl.application.WebApplicationImpl.handleRequest(WebApplicatio nImpl.java:1239) com.sun.jersey.server.impl.application.WebApplicationImpl.handleRequest(WebApplicatio nImpl.java:1229) com.sun.jersey.spi.container.servlet.WebComponent.service(WebComponent.java:420) com.sun.jersey.spi.container.servlet.ServletContainer.service(ServletContainer.java:497) com.sun.jersey.spi.container.servlet.ServletContainer.doFilter(ServletContainer.java:855) com.sun.jersey.spi.container.servlet.ServletContainer.doFilter(ServletContainer.java:828) com.sun.jersey.spi.container.servlet.ServletContainer.doFilter(ServletContainer.java:789) org.springframework.orm.jpa.support.OpenEntityManagerInViewFilter.doFilterInternal(Op enEntityManagerInViewFilter.java:113) org.springframework.web.filter.OncePerRequestFilter.doFilter(OncePerRequestFilter.java:7 6) </pre></p><p>root cause <pre>ERROR 22001: A truncation error was encountered trying to shrink VARCHAR "TESTING:HARVEST:PDS3:{VG2-U-MAG-4-RDR-HGCOORDS-1.925EC-V1.0.&amp;' to length 255. org.apache.derby.iapi.error.StandardException.newException(Unknown Source) org.apache.derby.iapi.types.SQLChar.hasNonBlankChars(Unknown Source) org.apache.derby.iapi.types.SQLVarchar.normalize(Unknown Source) org.apache.derby.iapi.types.SQLVarchar.normalize(Unknown Source) org.apache.derby.iapi.types.DataTypeDescriptor.normalize(Unknown Source) org.apache.derby.impl.sql.execute.NormalizeResultSet.normalizeColumn(Unknown Source) org.apache.derby.impl.sql.execute.NormalizeResultSet.normalizeRow(Unknown Source) org.apache.derby.impl.sql.execute.NormalizeResultSet.getNextRowCore(Unknown Source) </pre>
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	<p>org.apache.derby.impl.sql.execute.DMLWriteResultSet.getNextRowCore(Unknown Source) org.apache.derby.impl.sql.execute.InsertResultSet.open(Unknown Source) org.apache.derby.impl.sql.GenericPreparedStatement.executeStmt(Unknown Source) org.apache.derby.impl.sql.GenericPreparedStatement.execute(Unknown Source) org.apache.derby.impl.jdbc.EmbedStatement.executeStatement(Unknown Source) org.apache.derby.impl.jdbc.EmbedPreparedStatement.executeStatement(Unknown Source) org.apache.derby.impl.jdbc.EmbedPreparedStatement.executeUpdate(Unknown Source) org.hibernate.jdbc.NonBatchingBatcher.addToBatch(NonBatchingBatcher.java:46) org.hibernate.persister.entity.AbstractEntityPersister.insert(AbstractEntityPersister.java:2418) 8) org.hibernate.persister.entity.AbstractEntityPersister.insert(AbstractEntityPersister.java:2858) 8) org.hibernate.action.EntityInsertAction.execute(EntityInsertAction.java:79) org.hibernate.engine.ActionQueue.execute(ActionQueue.java:268) org.hibernate.engine.ActionQueue.executeActions(ActionQueue.java:260) org.hibernate.engine.ActionQueue.executeInserts(ActionQueue.java:170) org.hibernate.event.def.AbstractSaveEventListener.performSaveOrReplicate(AbstractSaveEventListener.java:268) org.hibernate.event.def.AbstractSaveEventListener.performSave(AbstractSaveEventListener.java:204) org.hibernate.event.def.AbstractSaveEventListener.saveWithGeneratedId(AbstractSaveEventListener.java:130) org.hibernate.ejb.event.EJB3PersistEventListener.saveWithGeneratedId(EJB3PersistEventListener.java:69) org.hibernate.event.def.DefaultPersistEventListener.entityIsTransient(DefaultPersistEventListener.java:179) org.hibernate.event.def.DefaultPersistEventListener.onPersist(DefaultPersistEventListener.java:135) org.hibernate.impl.SessionImpl.firePersist(SessionImpl.java:791) org.hibernate.impl.SessionImpl.persist(SessionImpl.java:783) org.hibernate.engine.EJB3CascadingAction\$1.cascade(EJB3CascadingAction.java:48) org.hibernate.engine.Cascade.cascadeToOne(Cascade.java:392) org.hibernate.engine.Cascade.cascadeAssociation(Cascade.java:335) org.hibernate.engine.Cascade.cascadeProperty(Cascade.java:204) org.hibernate.engine.Cascade.cascadeCollectionElements(Cascade.java:425) org.hibernate.engine.Cascade.cascadeCollection(Cascade.java:362) org.hibernate.engine.Cascade.cascadeAssociation(Cascade.java:338) org.hibernate.engine.Cascade.cascadeProperty(Cascade.java:204) org.hibernate.engine.Cascade.cascade(Cascade.java:161) org.hibernate.event.def.AbstractSaveEventListener.cascadeAfterSave(AbstractSaveEventListener.java:476) org.hibernate.event.def.AbstractSaveEventListener.performSaveOrReplicate(AbstractSaveEventListener.java:354) org.hibernate.event.def.AbstractSaveEventListener.performSave(AbstractSaveEventListener.java:204) org.hibernate.event.def.AbstractSaveEventListener.saveWithGeneratedId(AbstractSaveEventListener.java:144) org.hibernate.ejb.event.EJB3PersistEventListener.saveWithGeneratedId(EJB3PersistEventListener.java:69) org.hibernate.event.def.DefaultPersistEventListener.entityIsTransient(DefaultPersistEventListener.java:179) org.hibernate.event.def.DefaultPersistEventListener.onPersist(DefaultPersistEventListener.java:135) org.hibernate.event.def.DefaultPersistEventListener.onPersist(DefaultPersistEventListener.java:61) org.hibernate.impl.SessionImpl.firePersist(SessionImpl.java:800) org.hibernate.impl.SessionImpl.persist(SessionImpl.java:774) org.hibernate.impl.SessionImpl.persist(SessionImpl.java:778) org.hibernate.ejb.AbstractEntityManagerImpl.persist(AbstractEntityManagerImpl.java:668) sun.reflect.GeneratedMethodAccessor74.invoke(Unknown Source) sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:25) java.lang.reflect.Method.invoke(Method.java:597) org.springframework.orm.jpa.ExtendedEntityManagerCreator\$ExtendedEntityManagerInvocationHandler.invoke(ExtendedEntityManagerCreator.java:365) \$Proxy49.persist(Unknown Source) sun.reflect.GeneratedMethodAccessor74.invoke(Unknown Source) sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:25) java.lang.reflect.Method.invoke(Method.java:597) org.springframework.orm.jpa.SharedEntityManagerCreator\$SharedEntityManagerInvocationHandler.invoke(SharedEntityManagerCreator.java:240) \$Proxy49.persist(Unknown Source) gov.nasa.pds.registry.service.MetadataStoreJPA.saveRegistryObject(MetadataStoreJPA.java:</p>
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	<pre> 289) sun.reflect.GeneratedMethodAccessor76.invoke(Unknown Source) sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:25) java.lang.reflect.Method.invoke(Method.java:597) org.springframework.aop.support.AopUtils.invokeJoinpointUsingReflection(AopUtils.java: 309) org.springframework.aop.framework.ReflectiveMethodInvocation.invokeJoinpoint(Reflecti veMethodInvocation.java:183) org.springframework.aop.framework.ReflectiveMethodInvocation.proceed(ReflectiveMetho dInvocation.java:150) org.springframework.transaction.interceptor.TransactionInterceptor.invoke(TransactionInte rceptor.java:110) org.springframework.aop.framework.ReflectiveMethodInvocation.proceed(ReflectiveMetho dInvocation.java:172) org.springframework.aop.framework.JdkDynamicAopProxy.invoke(JdkDynamicAopProxy. java:202) \$Proxy50.saveRegistryObject(Unknown Source) gov.nasa.pds.registry.service.RegistryServiceImpl.publishObject(RegistryServiceImpl.java:5 26) gov.nasa.pds.registry.resource.ExtrinsicsResource.publishExtrinsic(ExtrinsicsResource.java: 186) sun.reflect.GeneratedMethodAccessor104.invoke(Unknown Source) sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:25) java.lang.reflect.Method.invoke(Method.java:597) com.sun.jersey.server.impl.model.method.dispatch.AbstractResourceMethodDispatchProvi der\$ResponseOutInvoker._dispatch(AbstractResourceMethodDispatchProvider.java:187) com.sun.jersey.server.impl.model.method.dispatch.ResourceJavaMethodDispatcher.dispatch h(ResourceJavaMethodDispatcher.java:70) com.sun.jersey.server.impl.uri.rules.HttpMethodRule.accept(HttpMethodRule.java:279) com.sun.jersey.server.impl.uri.rules.SubLocatorRule.accept(SubLocatorRule.java:121) com.sun.jersey.server.impl.uri.rules.RightHandPathRule.accept(RightHandPathRule.java:13 6) com.sun.jersey.server.impl.uri.rules.ResourceClassRule.accept(ResourceClassRule.java:86) com.sun.jersey.server.impl.uri.rules.RightHandPathRule.accept(RightHandPathRule.java:13 6) com.sun.jersey.server.impl.uri.rules.RootResourceClassesRule.accept(RootResourceClasses Rule.java:74) com.sun.jersey.server.impl.application.WebApplicationImpl._handleRequest(WebApplicati onImpl.java:1357) com.sun.jersey.server.impl.application.WebApplicationImpl._handleRequest(WebApplicati onImpl.java:1289) com.sun.jersey.server.impl.application.WebApplicationImpl.handleRequest(WebApplicatio nImpl.java:1239) com.sun.jersey.server.impl.application.WebApplicationImpl.handleRequest(WebApplicatio nImpl.java:1229) com.sun.jersey.spi.container.servlet.WebComponent.service(WebComponent.java:420) com.sun.jersey.spi.container.servlet.ServletContainer.service(ServletContainer.java:497) com.sun.jersey.spi.container.servlet.ServletContainer.doFilter(ServletContainer.java:855) com.sun.jersey.spi.container.servlet.ServletContainer.doFilter(ServletContainer.java:828) com.sun.jersey.spi.container.servlet.ServletContainer.doFilter(ServletContainer.java:789) org.springframework.orm.jpa.support.OpenEntityManagerInViewFilter.doFilterInternal(Op enEntityManagerInViewFilter.java:113) org.springframework.web.filter.OncePerRequestFilter.doFilter(OncePerRequestFilter.java:7 6) </pre></p><p>note <u>The full stack trace of the root cause is available in the Apache Tomcat/6.0.35 logs.</u></p><hr size="1" noshade="noshade"><h3>Apache Tomcat/6.0.35</h3></body></html> [more good messages] </pre>
Date of Testing	
Test Personnel	Richard Chen

Test Case ID	GEN.T1
Description	Run components distributed over multiple machines on any PDS-supported platforms.

Test Steps	Ensure your machine is not the same machine as the registry's. Run AATESTME.* steps.
Test Results	Results should be as described in the AATESTME.* Test Results.
Comments	
Date of Testing	2012 Jul 17
Test Personnel	Richard Chen

Test Case ID	GEN.T2 *not ready for build 1
Description	Services provide an application programming interface.
Test Steps	
Test Results	
Comments	
Date of Testing	
Test Personnel	

Test Case ID	GEN.T3 *not ready for build 1
Description	Run tools via an application programming interface.
Test Steps	
Test Results	
Comments	
Date of Testing	
Test Personnel	

Test Case ID	GEN.T4 *not ready for build 2b
Description	Services provide an interface to enable monitoring of health.
Test Steps	
Test Results	
Comments	
Date of Testing	
Test Personnel	

Test Case ID	GEN.T5 *not ready for build 2b
Description	Applications meet Section 508 compliance guidelines.
Test Steps	
Test Results	

Comments	
Date of Testing	
Test Personnel	

Test Case ID	GEN.T6
Description	Restrict access to operations that alter the content of the registry.
Test Steps	(Skip this test if registry is uncontrolled) Repeat CTLG.T3's step 1 but with a bad password (or any other test that uses a password): catalog -mingest -urchen -pentirelyWrongPassword -shttp://potato.jpl.nasa.gov:9100 -Thttp://potato.jpl.nasa.gov:80/cas-product -kpdscat -v1 -t testCatalog/CORPWS_0164
Test Results	<p>Error message includes "This request requires HTTP authentication".</p> <pre> Jul 17, 2012 1:23:57 AM org.apache.oodt.cas.filemgr.datatransfer.RemoteDataTransferFactory <init> INFO: RemoteDataTransfer enabled: using chunk size: [1024] Jul 17, 2012 1:23:57 AM org.apache.oodt.cas.filemgr.datatransfer.RemoteDataTransferer setFileManagerUrl INFO: Remote Data Transfer to: [http://potato.jpl.nasa.gov:9100] enabled registryPackageName = Catalog-Package_CORPWS_0164_20120717012357 Error Occurred...<html><head><title>Apache Tomcat/7.0.4 - Error report</title><style><!--H1 {font-family:Tahoma,Arial,sans-serif;color:white;background-color:#525D76;font-size:22px;} H2 {font-family:Tahoma,Arial,sans-serif;color:white;background-color:#525D76;font-size:16px;} H3 {font-family:Tahoma,Arial,sans-serif;color:white;background-color:#525D76;font-size:14px;} BODY {font-family:Tahoma,Arial,sans-serif;color:black;background-color:white;} B {font-family:Tahoma,Arial,sans-serif;color:white;background-color:#525D76;} P {font-family:Tahoma,Arial,sans-serif;background:white;color:black;font-size:12px;} A {color : black;}A.name {color : black;}HR {color : #525D76;}--></style> </head><body><h1>HTTP Status 401 - </h1><HR size="1" noshade="noshade"><p>type Status report</p><p>message <u></u></p><p>description <u>This request requires HTTP authentication ().</u></p><HR size="1" noshade="noshade"><h3>Apache Tomcat/7.0.4</h3></body></html> status = Unauthorized gov.nasa.pds.registry.exception.RegistryServiceException: <html><head><title>Apache Tomcat/7.0.4 - Error report</title><style><!--H1 {font-family:Tahoma,Arial,sans-serif;color:white;background-color:#525D76;font-size:22px;} H2 {font-family:Tahoma,Arial,sans-serif;color:white;background-color:#525D76;font-size:16px;} H3 {font-family:Tahoma,Arial,sans-serif;color:white;background-color:#525D76;font-size:14px;} BODY {font-family:Tahoma,Arial,sans-serif;color:black;background-color:white;} B {font-family:Tahoma,Arial,sans-serif;color:white;background-color:#525D76;} P {font-family:Tahoma,Arial,sans-serif;background:white;color:black;font-size:12px;} A {color : black;}A.name {color : black;}HR {color : #525D76;}--></style> </head><body><h1>HTTP Status 401 - </h1><HR size="1" noshade="noshade"><p>type Status report</p><p>message <u></u></p><p>description <u>This request requires HTTP authentication ().</u></p><HR size="1" noshade="noshade"><h3>Apache Tomcat/7.0.4</h3></body></html> at gov.nasa.pds.registry.client.RegistryClient.publishObject(RegistryClient.java:258) at gov.nasa.pds.citool.ingestor.CatalogRegistryIngester.createRegistryPackage(CatalogRegistryIngester.java: 839) at gov.nasa.pds.citool.CIToolIngester.process(CIToolIngester.java:150) at gov.nasa.pds.citool.CIToolIngester.ingest(CIToolIngester.java:124) at gov.nasa.pds.citool.CITool.processMain(CITool.java:564) at gov.nasa.pds.citool.CITool.main(CITool.java:580) java.lang.NullPointerException at gov.nasa.pds.citool.ingestor.CatalogRegistryIngester.createProduct(CatalogRegistryIngester.java:587) at gov.nasa.pds.citool.ingestor.CatalogRegistryIngester.ingestFileObject(CatalogRegistryIngester.java:175) at gov.nasa.pds.citool.ingestor.CatalogRegistryIngester.ingest(CatalogRegistryIngester.java:164) at gov.nasa.pds.citool.CIToolIngester.process(CIToolIngester.java:155) at gov.nasa.pds.citool.CIToolIngester.ingest(CIToolIngester.java:124) at gov.nasa.pds.citool.CITool.processMain(CITool.java:564) at gov.nasa.pds.citool.CITool.main(CITool.java:580) java.lang.NullPointerException at gov.nasa.pds.citool.ingestor.CatalogRegistryIngester.createProduct(CatalogRegistryIngester.java:587) at </pre>


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        at gov.nasa.pds.citool.CITool.main(CITool.java:580)
java.lang.NullPointerException
    at
gov.nasa.pds.citool.ingestor.CatalogRegistryIngestor.createProduct(CatalogRegistryIngestor.java:587)
    at
gov.nasa.pds.citool.ingestor.CatalogRegistryIngestor.ingestFileObject(CatalogRegistryIngestor.java:175)
    at
gov.nasa.pds.citool.ingestor.CatalogRegistryIngestor.ingest(CatalogRegistryIngestor.java:164)
    at gov.nasa.pds.citool.CIToolIngestor.process(CIToolIngestor.java:155)
    at gov.nasa.pds.citool.CIToolIngestor.ingest(CIToolIngestor.java:124)
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    at gov.nasa.pds.citool.CIToolIngestor.ingest(CIToolIngestor.java:124)
    at gov.nasa.pds.citool.CITool.processMain(CITool.java:564)
    at gov.nasa.pds.citool.CITool.main(CITool.java:580)
PDS Catalog Ingest Tool Report
Configuration:
Version      Version 1.3.0
Date        Tue, Jul 17 2012 at 01:23:56 AM
Parameters:
Mode        ingest
Target      file:/Users/rchen/Desktop/test/testCatalog/CORPWS_0164/
Directory Recursion true
Severity Level INFO
Ingest Details:
FAIL: file:/Users/rchen/Desktop/test/testCatalog/CORPWS_0164/INSTHOST.CAT
    ERROR: Failed to execute ingestExtrinsicObject method.
    ERROR: Failed to execute ingestFileObject method.
FAIL: file:/Users/rchen/Desktop/test/testCatalog/CORPWS_0164/KEYDS.CAT
    ERROR: Failed to execute ingestExtrinsicObject method.
    ERROR: Failed to execute ingestFileObject method.
FAIL: file:/Users/rchen/Desktop/test/testCatalog/CORPWS_0164/LRFULLDS.CAT
    ERROR: Failed to execute ingestExtrinsicObject method.
    ERROR: Failed to execute ingestFileObject method.
FAIL: file:/Users/rchen/Desktop/test/testCatalog/CORPWS_0164/MISSION.CAT
    ERROR: Failed to execute ingestExtrinsicObject method.
    ERROR: Failed to execute ingestFileObject method.
FAIL: file:/Users/rchen/Desktop/test/testCatalog/CORPWS_0164/PERSON.CAT
    ERROR: Failed to execute ingestExtrinsicObject method.
    ERROR: Failed to execute ingestFileObject method.
FAIL: file:/Users/rchen/Desktop/test/testCatalog/CORPWS_0164/PROJREF.CAT
    ERROR: Failed to execute ingestExtrinsicObject method.
    
```

	<p>ERROR: Failed to execute ingestFileObject method. FAIL: file:/Users/rchen/Desktop/test/testCatalog/CORPWS_0164/RAWDS.CAT ERROR: Failed to execute ingestExtrinsicObject method. ERROR: Failed to execute ingestFileObject method. FAIL: file:/Users/rchen/Desktop/test/testCatalog/CORPWS_0164/REF.CAT ERROR: Failed to execute ingestExtrinsicObject method. ERROR: Failed to execute ingestFileObject method. FAIL: file:/Users/rchen/Desktop/test/testCatalog/CORPWS_0164/RPWSINST.CAT ERROR: Failed to execute ingestExtrinsicObject method. ERROR: Failed to execute ingestFileObject method. FAIL: file:/Users/rchen/Desktop/test/testCatalog/CORPWS_0164/VOLDESC.CAT ERROR: Failed to execute ingestExtrinsicObject method. ERROR: Failed to execute ingestFileObject method. FAIL: file:/Users/rchen/Desktop/test/testCatalog/CORPWS_0164/WBFULLDS.CAT ERROR: Failed to execute ingestExtrinsicObject method. ERROR: Failed to execute ingestFileObject method. FAIL: file:/Users/rchen/Desktop/test/testCatalog/CORPWS_0164/WFFULLDS.CAT ERROR: Failed to execute ingestExtrinsicObject method. ERROR: Failed to execute ingestFileObject method.</p> <p>Summary: 12 of 12 ingested, 0 skipped Number of successful file object ingestion: 0 Number of successful storage service ingestion: 0 Number of successful registry ingestion: 0 End of Report</p>
Comments	<p>This could terminate more gracefully, e.g. no java dump https://oodt.jpl.nasa.gov/jira/browse/PDS-89</p>
Date of Testing	2012 Jul 17
Test Personnel	Richard Chen

Test Case ID	GEN.T7
Description	Document components' capabilities, dependencies, interfaces, installation, operation
Test Steps	Examine such documentation, currently accessible from http://pds-engineering.jpl.nasa.gov/pds2010/development/2.1.0/
Test Results	
Comments	
Date of Testing	2012 Jul 14
Test Personnel	Richard Chen

Test Case ID	PRV.T1
Description	Accept a file or a directory name for product(s) to be validated. If directory, be able to traverse the tree to find products. Indicate the schemas utilized during validation.
Test Steps	<ol style="list-style-type: none"> 1. <code>cd testDir/</code> 2. <code>validate testHarvest/document/mission.xml</code> 3. <code>validate testHarvest/ -e "*.xml"</code> <p>If any files besides harvestContext.xml FAIL, it may be because validate uses a different default .sch (or .xsd) file than the file was created with. Hopefully, the failed file lists the expected schematron file. If not, successful files may.</p> <ol style="list-style-type: none"> 4. <code>grep "\.sch" anyFailedFile</code> 5. Use the URL of the schematron file in the command <code>validate testHarvest/ -e "*.xml" -S schematronURL</code>

<p>Test Results</p>	<p>Step 2:</p> <pre> PDS Validate Tool Report Configuration: Version 1.1.0 Time Sat, Jul 14 2012 at 09:53:15 PM Core Schemas [PDS4_OPS_0800k.xsd] Model Version 0800k Parameters: Target(s) [testHarvest/ document/mission.xml] Severity Level Warnings Recurse Directories true Validation Details: PASS: file:/Users/rchen/Desktop/test/testHarvest/ document/mission.xml Summary: 1 of 1 file(s) processed, 0 skipped 1 of 1 file(s) passed validation End of Report </pre> <p>Step 3: the xml files except harvest policy file harvestContext.xml (in red) should pass unless validate uses a different .xsd or .sch file (in orange).</p> <pre> PDS Validate Tool Report Configuration: Version 1.1.0 Time Sat, Jul 14 2012 at 10:32:46 PM Core Schemas [PDS4_OPS_0800k.xsd] Model Version 0800k Parameters: Target(s) [testHarvest] Severity Level Warnings Recurse Directories true File Filter(s) Used [* .xml] Validation Details: FAIL: file:/Users/rchen/Desktop/test/testHarvest/harvestContext.xml ERROR line 3, 9: cvc-elt.1.a: Cannot find the declaration of element 'policy'. ERROR The ROOT element is not one of the allowed product types. [Context: "/policy[1]"; Test: "name() = ('Product_Browse','Product_Bundle','Product_Collection','Product_Context','Product_Document','Product _File_Text','Product_Observational','Product_SPICE_Kernel','Product_Thumbnail','Product_XML_Schema ','Product_Delivery_Manifest','Product_Update)"] ERROR The name of the Product type is not equal to the value of the product_class attribute. [Context: "/policy[1]"; Test: "name() eq pds:Identification_Area/pds:product_class"] PASS: file:/Users/rchen/Desktop/test/testHarvest/Product_Bundle.xml PASS: file:/Users/rchen/Desktop/test/testHarvest/browse/Collection_Browse.xml PASS: file:/Users/rchen/Desktop/test/testHarvest/browse/ele_mom_browse.xml PASS: file:/Users/rchen/Desktop/test/testHarvest/context/Collection_Context.xml FAIL: file:/Users/rchen/Desktop/test/testHarvest/context/InstHostPDS3_VG2.xml ERROR The ROOT element is not one of the allowed product types. [Context: "/*:Product_Instrument_Host_PDS3[namespace-uri()='http://pds.nasa.gov/pds4/pds/v08']][1]"; Test: "name() = ('Product_Browse','Product_Bundle','Product_Collection','Product_Context','Product_Document','Product _File_Text','Product_Observational','Product_SPICE_Kernel','Product_Thumbnail','Product_XML_Schema ','Product_Delivery_Manifest','Product_Update)"] FAIL: file:/Users/rchen/Desktop/test/testHarvest/context/InstPDS3_PLS_VG2.xml ERROR The ROOT element is not one of the allowed product types. [Context: "/*:Product_Instrument_PDS3[namespace-uri()='http://pds.nasa.gov/pds4/pds/v08']][1]"; Test: "name() = ('Product_Browse','Product_Bundle','Product_Collection','Product_Context','Product_Document','Product _File_Text','Product_Observational','Product_SPICE_Kernel','Product_Thumbnail','Product_XML_Schema ','Product_Delivery_Manifest','Product_Update)"] FAIL: file:/Users/rchen/Desktop/test/testHarvest/context/InstPDS3_VOYAGER.xml ERROR The ROOT element is not one of the allowed product types. [Context: "/*:Product_Mission_PDS3[namespace-uri()='http://pds.nasa.gov/pds4/pds/v08']][1]"; Test: "name() = ('Product_Browse','Product_Bundle','Product_Collection','Product_Context','Product_Document','Product _File_Text','Product_Observational','Product_SPICE_Kernel','Product_Thumbnail','Product_XML_Schema ','Product_Delivery_Manifest','Product_Update)"] FAIL: file:/Users/rchen/Desktop/test/testHarvest/context/TargetPDS3_JUPITER.xml ERROR The ROOT element is not one of the allowed product types. [Context: "/*:Product_Target_PDS3[namespace-uri()='http://pds.nasa.gov/pds4/pds/v08']][1]"; Test: "name() = ('Product_Browse','Product_Bundle','Product_Collection','Product_Context','Product_Document','Product _File_Text','Product_Observational','Product_SPICE_Kernel','Product_Thumbnail','Product_XML_Schema </pre>
---------------------	---

```

',Product_Delivery_Manifest','Product_Update')"]
PASS: file:/Users/rchen/Desktop/test/testHarvest/data/Collection_Data.xml
PASS: file:/Users/rchen/Desktop/test/testHarvest/data/ele_mom_tblChar.xml
PASS: file:/Users/rchen/Desktop/test/testHarvest/data/notListedInProductBundle.xml
PASS: file:/Users/rchen/Desktop/test/testHarvest/document/checksums.xml
PASS: file:/Users/rchen/Desktop/test/testHarvest/document/Collection_document.xml
PASS: file:/Users/rchen/Desktop/test/testHarvest/document/errata.xml
PASS: file:/Users/rchen/Desktop/test/testHarvest/document/mission.xml
PASS: file:/Users/rchen/Desktop/test/testHarvest/document/plsinst.xml
PASS: file:/Users/rchen/Desktop/test/testHarvest/schemas/aaCollection_XML_Schema.xml
PASS: file:/Users/rchen/Desktop/test/testHarvest/schemas/aaLabel_SCH_PDS4_OPS_0800k.xml
PASS: file:/Users/rchen/Desktop/test/testHarvest/schemas/aaLabel_SCH_PDS4_PDS_0800k.xml
PASS: file:/Users/rchen/Desktop/test/testHarvest/schemas/aaLabel_XSD_PDS4_OPS_0800k.xml
PASS: file:/Users/rchen/Desktop/test/testHarvest/schemas/aaLabel_XSD_PDS4_PDS_0800k.xml
Summary:
22 of 22 file(s) processed, 0 skipped
17 of 22 file(s) passed validation
End of Report
    
```

Step 4:

```

<?xml-model
href="http://pds.jpl.nasa.gov/repository/pds4/examples/dph_examples_8k/dph_example_archive_VG2PLS/schemas/PDS4_OPS_0800k.sch">
    
```

Step 5:

```

PDS Validate Tool Report
Configuration:
  Version      1.1.0
  Time         Sat, Jul 14 2012 at 10:51:08 PM
  Core Schemas [PDS4_OPS_0800k.xsd]
  Model Version 0800k
Parameters:
  Target(s)    [testHarvest]
  User-Specified Schematrons
[http://pds.jpl.nasa.gov/repository/pds4/examples/dph_examples_8k/dph_example_archive_VG2PLS/schemas/PDS4_OPS_0800k.sch]
  Severity Level Warnings
  Recurse Directories true
  File Filter(s) Used [*.*xml]
Validation Details:
  FAIL: file:/Users/rchen/Desktop/test/testHarvest/harvestContext.xml
        ERROR line 3, 9: cvc-elt.1.a: Cannot find the declaration of element 'policy'.
        ERROR The ROOT element is not one of the allowed product types. [Context: "/policy[1]"; Test: "name() = ('Product_Attribute_Definition','Product_Browse','Product_Bundle','Product_Collection','Product_Context','Product_Document','Product_File_Repository','Product_File_Text','Product_Observational','Product_Service','Product_Software','Product_SPICE_Kernel','Product_Thumbnail','Product_XML_Schema','Product_Delivery_Manifest','Product_Update','Product_Zipped','Product_Instrument','Product_Instrument_Host','Product_Investigation','Product_Node','Product_Other','Product_PDS_Affiliate','Product_PDS_Guest','Product_Resource','Product_Target','Collection_Volume_PDS3','Collection_Volume_Set_PDS3','Product_Data_Set_PDS3','Product_Instrument_Host_PDS3','Product_Instrument_PDS3','Product_Mission_PDS3','Product_Proxy_PDS3','Product_Subscription_PDS3','Product_Target_PDS3')"]
        ERROR The name of the Product type is not equal to the value of the product_class attribute. [Context: "/policy[1]"; Test: "name() eq pds:Identification_Area/pds:product_class"]
  PASS: file:/Users/rchen/Desktop/test/testHarvest/Product_Bundle.xml
  PASS: file:/Users/rchen/Desktop/test/testHarvest/browse/Collection_Browse.xml
  PASS: file:/Users/rchen/Desktop/test/testHarvest/browse/ele_mom_browse.xml
  PASS: file:/Users/rchen/Desktop/test/testHarvest/context/Collection_Context.xml
  PASS: file:/Users/rchen/Desktop/test/testHarvest/context/InstHostPDS3_VG2.xml
  PASS: file:/Users/rchen/Desktop/test/testHarvest/context/InstPDS3_PLS_VG2.xml
  PASS: file:/Users/rchen/Desktop/test/testHarvest/context/MissionPDS3_VOYAGER.xml
  PASS: file:/Users/rchen/Desktop/test/testHarvest/context/TargetPDS3_JUPITER.xml
  PASS: file:/Users/rchen/Desktop/test/testHarvest/data/Collection_Data.xml
  PASS: file:/Users/rchen/Desktop/test/testHarvest/data/ele_mom_tblChar.xml
  PASS: file:/Users/rchen/Desktop/test/testHarvest/data/notListedInProductBundle.xml
  PASS: file:/Users/rchen/Desktop/test/testHarvest/document/checksums.xml
  PASS: file:/Users/rchen/Desktop/test/testHarvest/document/Collection_document.xml
  PASS: file:/Users/rchen/Desktop/test/testHarvest/document/errata.xml
  PASS: file:/Users/rchen/Desktop/test/testHarvest/document/mission.xml
  PASS: file:/Users/rchen/Desktop/test/testHarvest/document/plsinst.xml
  PASS: file:/Users/rchen/Desktop/test/testHarvest/schemas/aaCollection_XML_Schema.xml
  PASS: file:/Users/rchen/Desktop/test/testHarvest/schemas/aaLabel_SCH_PDS4_OPS_0800k.xml
  PASS: file:/Users/rchen/Desktop/test/testHarvest/schemas/aaLabel_SCH_PDS4_PDS_0800k.xml
    
```

	PASS: file:/Users/rchen/Desktop/test/testHarvest/schemas/aaLabel_XSD_PDS4_OPS_0800k.xml PASS: file:/Users/rchen/Desktop/test/testHarvest/schemas/aaLabel_XSD_PDS4_PDS_0800k.xml Summary: 22 of 22 file(s) processed, 0 skipped 21 of 22 file(s) passed validation End of Report
Comments	Validate seems to ignore the file's "<?xml-model href="http://...sch"?>". That may be reasonable behavior, but perhaps it would be more transparent if validate 1) tried the default schematron, 2) upon failure tried the schematron listed in the file and noted that in the output. http://oodt.jpl.nasa.gov/jira/browse/PDS-85
Date of Testing	2012 Jul 14
Test Personnel	Richard Chen

Test Case ID	PRV.T2 *not ready for build 2b
Description	Verify that a referenced file exists.
Test Steps	1. cp testHarvest/data/ele_mom_tblChar.xml holdings/ 2. validate holdings/ele_mom_tblChar.xml 3. cp testHarvest/data/ELE_MOM.TAB holdings/ 4. validate holdings/ele_mom_tblChar.xml
Test Results	Step 2: ERROR missing ELE_MOM.TAB Step 4: no errors
Comments	
Date of Testing	
Test Personnel	

Test Case ID	PRV.T3
Description	Validate aggregate products and all products referenced in the aggregation.
Test Steps	1. cd testDir 2. If step 3 of PRV.T1 had schematron errors, to the following command append the -S of step 5 of PRV.T1; else, simply: validate testHarvest/Product_Bundle.xml
Test Results	PDS Validate Tool Report PDS Validate Tool Report Configuration: Version 1.1.0 Time Sat, Jul 14 2012 at 11:46:42 PM Core Schemas [PDS4_OPS_0800k.xsd] Model Version 0800k Parameters: Target(s) [testHarvest/Product_Bundle.xml] User-Specified Schematrons [http://pds.jpl.nasa.gov/repository/pds4/examples/dph_examples_8k/dph_example_archive_VG2PLS/schemas/PDS4_OPS_0800k.sch] Severity Level Warnings Recurse Directories true Validation Details: PASS: file:/Users/rchen/Desktop/test/testHarvest/Product_Bundle.xml PASS: file:/Users/rchen/Desktop/test/testHarvest/browse/Collection_Browse.xml PASS: file:/Users/rchen/Desktop/test/testHarvest/browse/ele_mom_browse.xml PASS: file:/Users/rchen/Desktop/test/testHarvest/context/Collection_Context.xml

	<p>PASS: file:/Users/rchen/Desktop/test/testHarvest/context/InstHostPDS3_VG2.xml PASS: file:/Users/rchen/Desktop/test/testHarvest/context/InstPDS3_PLS_VG2.xml PASS: file:/Users/rchen/Desktop/test/testHarvest/context/MissionPDS3_VOYAGER.xml PASS: file:/Users/rchen/Desktop/test/testHarvest/context/TargetPDS3_JUPITER.xml PASS: file:/Users/rchen/Desktop/test/testHarvest/data/Collection_Data.xml PASS: file:/Users/rchen/Desktop/test/testHarvest/data/ele_mom_tblChar.xml PASS: file:/Users/rchen/Desktop/test/testHarvest/document/Collection_Document.xml PASS: file:/Users/rchen/Desktop/test/testHarvest/document/checksums.xml PASS: file:/Users/rchen/Desktop/test/testHarvest/document/errata.xml PASS: file:/Users/rchen/Desktop/test/testHarvest/document/mission.xml PASS: file:/Users/rchen/Desktop/test/testHarvest/document/plsinst.xml PASS: file:/Users/rchen/Desktop/test/testHarvest/schemas/aaCollection_XML_Schema.xml PASS: file:/Users/rchen/Desktop/test/testHarvest/schemas/aaLabel_SCH_PDS4_PDS_0800k.xml PASS: file:/Users/rchen/Desktop/test/testHarvest/schemas/aaLabel_XSD_PDS4_PDS_0800k.xml PASS: file:/Users/rchen/Desktop/test/testHarvest/schemas/aaLabel_XSD_PDS4_OPS_0800k.xml PASS: file:/Users/rchen/Desktop/test/testHarvest/schemas/aaLabel_SCH_PDS4_OPS_0800k.xml</p> <p>Summary: 20 of 20 file(s) processed, 0 skipped 20 of 20 file(s) passed validation End of Report</p> <p>Note that unlike PRV.T1, validate did not examine harvestContext.xml since it wasn't listed in Product_Bundle.xml</p>
Comments	
Date of Testing	2012 Jul 14
Test Personnel	Richard Chen

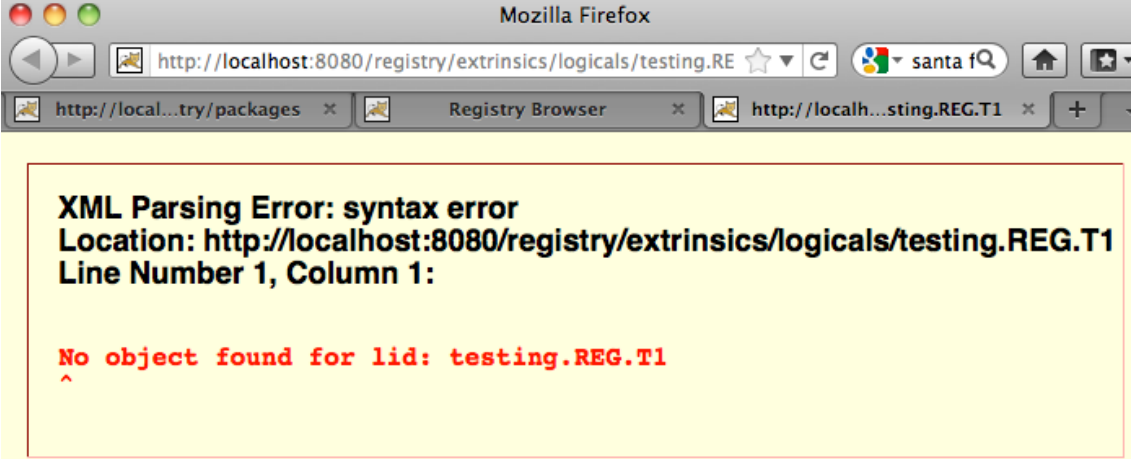
Test Case ID	PRV.T4 *not ready for build 2b
Description	Merge label fragments
Test Steps	
Test Results	
Comments	
Date of Testing	
Test Personnel	

Test Case ID	PRV.T5
Description	Validate schemas
Test Steps	validate testHarvest/schemas/aaLabel_SCH_PDS4_OPS_0800k.xml
Test Results	<p>PDS Validate Tool Report Configuration: Version 1.1.0 Time Sat, Jul 14 2012 at 11:49:27 PM Core Schemas [PDS4_OPS_0800k.xsd] Model Version 0800k</p> <p>Parameters: Target(s) [testHarvest/schemas/aaLabel_SCH_PDS4_OPS_0800k.xml] Severity Level Warnings Recurse Directories true</p> <p>Validation Details: PASS: file:/Users/rchen/Desktop/test/testHarvest/schemas/aaLabel_SCH_PDS4_OPS_0800k.xml</p> <p>Summary: 1 of 1 file(s) processed, 0 skipped 1 of 1 file(s) passed validation End of Report</p>
Comments	

Date of Testing	2012 Jul 14
Test Personnel	Richard Chen

Test Case ID	PRV.T6
Description	Accept schema file specified by file or directory
Test Steps	<p>Validate the one file that failed in PRV.T1:</p> <ol style="list-style-type: none"> 1. validate testHarvest/obsoleteData/ele_mom_tblChar.xml 2. validate testHarvest/obsoleteData/ele_mom_tblChar.xml -x testHarvest/obsoleteData/Product_TableChar_tailored_0600h.xsd
Test Results	<p>Step 1:</p> <pre> PDS Validate Tool Report Configuration: Version 1.1.0 Time Sun, Jul 15 2012 at 04:15:17 PM Core Schemas [PDS4_OPS_0800k.xsd] Model Version 0800k Parameters: Target(s) [testHarvest/obsoleteData/ele_mom_tblChar.xml] Severity Level Warnings Recurse Directories true Validation Details: FAIL: file:/Users/rchen/Desktop/test/testHarvest/obsoleteData/ele_mom_tblChar.xml ERROR line 7, 44: cvc-elt.4.2: Cannot resolve 'dph:Product_Table_Character' to a type definition for element 'Product_Observational'. ERROR The name of the Product type is not equal to the value of the product_class attribute. [Context: "/*:Product_Observational[namespace-uri()='http://pds.nasa.gov/schema/pds4/pds/v06'][1]"; Test: "name() eq pds:Identification_Area/pds:product_class"] Summary: 1 of 1 file(s) processed, 0 skipped 0 of 1 file(s) passed validation End of Report </pre> <p>Step 2:</p> <pre> PDS Validate Tool Report Configuration: Version 1.1.0 Time Sun, Jul 15 2012 at 04:15:36 PM Core Schemas [PDS4_OPS_0800k.xsd] Model Version 0800k Parameters: Target(s) [testHarvest/obsoleteData/ele_mom_tblChar.xml] User-Specified Schemas [testHarvest/obsoleteData/Product_TableChar_tailored_0600h.xsd] Severity Level Warnings Recurse Directories true Validation Details: PASS: file:/Users/rchen/Desktop/test/testHarvest/obsoleteData/ele_mom_tblChar.xml Summary: 1 of 1 file(s) processed, 0 skipped 1 of 1 file(s) passed validation End of Report </pre>
Comments	
Date of Testing	2012 Jul 15
Test Personnel	Richard Chen

Test Case ID	REG.T1
Description	Validate and accept metadata to register an artifact or modify an artifact's registration, query for a registered artifact, delete a registered artifact

<p>Test Steps</p>	<ol style="list-style-type: none"> 1. <code>cd testDir</code> 2. <code>http://localhost:8080/registry/extrinsics/logicals/testing.REG.T1</code> in a browser shows no current product has lid "testing.REG.t1", which input files test.REG.T1[abc].xml have. 3. <code>curl curlOptions -X POST -H "Content-type:application/xml" -v -d @testRegistry/test.REG.T1a.xml</code> <code>http://localhost:8080/registry/extrinsics/logicals</code> attempts to register the bad input file 4. Repeat step 1 to ensure lid still does not exist. 5. <code>curl curlOptions -X POST -H "Content-type:application/xml" -v -d @testRegistry/test.REG.T1b.xml</code> <code>http://localhost:8080/registry/extrinsics/logicals</code> registers a good input file 6. Repeat step 2 to see the lid 7. <code>curl curlOptions -X DELETE --verbose</code> <code>http://localhost:8080/registry/extrinsics/testing.REG.T1.v1.0</code> 8. Repeat step 1 to ensure lid no longer exists 9. <code>curl curlOptions -X POST -H "Content-type:application/xml" -v -d @testRegistry/test.REG.T1c.xml</code> <code>http://localhost:8080/registry/extrinsics/logicals</code> registers a good input file with different values for the phone numbers 10. Repeat step 1 to see the changed values
<p>Test Results</p>	<p>Step 2: The error message should be "HTTP Status 500 -". If lid does exist, run step 7</p>  <p>Step 3:</p> <pre> * About to connect() to localhost port 8080 (#0) * Trying 127.0.0.1... connected * Connected to localhost (127.0.0.1) port 8080 (#0) > POST /registry/extrinsics/logicals HTTP/1.1 > User-Agent: curl/7.19.7 (universal-apple-darwin10.0) libcurl/7.19.7 OpenSSL/0.9.8r zlib/1.2.3 > Host: localhost:8080 > Accept: */* > Content-type:application/xml > Content-Length: 655 < HTTP/1.1 400 Bad Request < Server: Apache-Coyote/1.1 < Content-Type: text/html;charset=utf-8 < Content-Length: 1004 < Date: Sun, 15 Jul 2012 23:39:24 GMT < Connection: close * Closing connection #0 <html><head><title>Apache Tomcat/6.0.35 - Error report</title><!--H1 {font-family:Tahoma,Arial,sans-serif;color:white;background-color:#525D76;font-size:22px;} H2 {font-family:Tahoma,Arial,sans-serif;color:white;background-color:#525D76;font-size:16px;} H3 {font-family:Tahoma,Arial,sans-serif;color:white;background-color:#525D76;font-size:14px;} BODY {font-</pre>

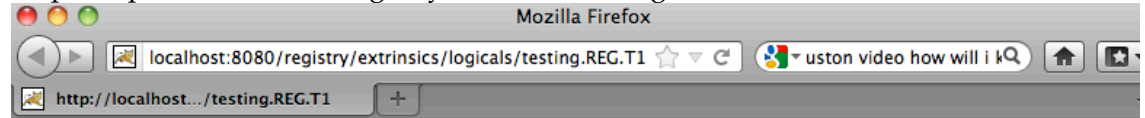
```
family:Tahoma,Arial,sans-serif;color:black;background-color:white;} B {font-family:Tahoma,Arial,sans-serif;color:white;background-color:#525D76;} P {font-family:Tahoma,Arial,sans-serif;background:white;color:black;font-size:12px;} A {color : black;}A.name {color : black;}HR {color : #525D76;--></style> </head><body><h1>HTTP Status 400 - Bad Request</h1><HR size="1" noshade="noshade"><p><b>type</b></p><p><b>message</b></p><u>Bad Request</u></p><p><b>description</b></p><u>The request sent by the client was syntactically incorrect (Bad Request).</u></p><HR size="1" noshade="noshade"><h3>Apache Tomcat/6.0.35</h3></body></html>
```

Step 4: Same as step 2

Step 5: Benign output messages without "ERROR":

```
* About to connect() to localhost port 8080 (#0)
* Trying 127.0.0.1... connected
* Connected to localhost (127.0.0.1) port 8080 (#0)
> POST /registry/extrinsics/logicals HTTP/1.1
> User-Agent: curl/7.19.7 (universal-apple-darwin10.0) libcurl/7.19.7 OpenSSL/0.9.8r zlib/1.2.3
> Host: localhost:8080
> Accept: */*
> Content-type:application/xml
> Content-Length: 646
< HTTP/1.1 200 OK
< Server: Apache-Coyote/1.1
< Content-Type: application/xml
< Content-Length: 0
< Date: Sun, 15 Jul 2012 23:41:14 GMT
* Connection #0 to host localhost left intact
* Closing connection #0
```

Step 6: Upon success, the registry service returns good xml. In firefox:



```
- <ns2:response>
- <ns2:results>
-- <ns2:extrinsicObject description="Stolen from http://pdscm/2010/registry/registry-service/operate/index.html with attribute lid above changed for uniqueness" objectType="Product_Array_2D_Image" name="Product 1234 v1" lid="testing.REG.T1" guid="testing.REG.T1.v1.0">
-- <ns2:slot name="last-name" id="3298">
  <ns2:value>Doe</ns2:value>
</ns2:slot>
-- <ns2:slot name="first-name" id="3299">
  <ns2:value>John</ns2:value>
</ns2:slot>
-- <ns2:slot name="phone" id="3300">
  <ns2:value>(818)777-7777</ns2:value>
  <ns2:value>(818)888-8888</ns2:value>
</ns2:slot>
</ns2:extrinsicObject>
</ns2:results>
</ns2:response>
```

Step 7:

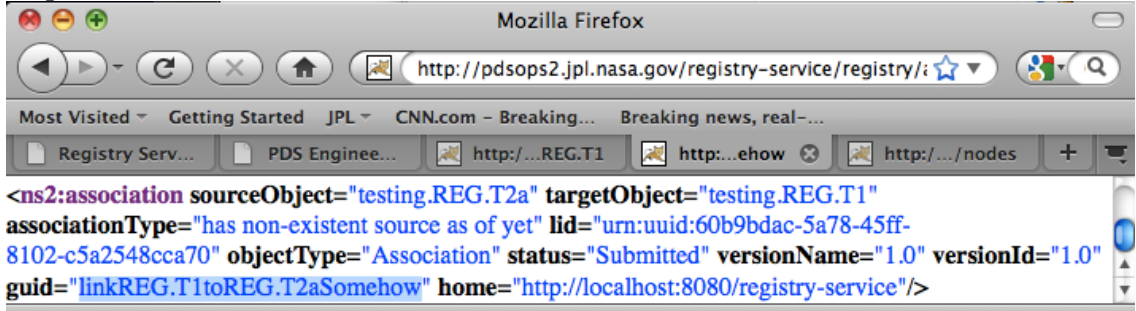
```
* About to connect() to localhost port 8080 (#0)
* Trying 127.0.0.1... connected
* Connected to localhost (127.0.0.1) port 8080 (#0)
> DELETE /registry/extrinsics/testing.REG.T1.v1.0 HTTP/1.1
> User-Agent: curl/7.19.7 (universal-apple-darwin10.0) libcurl/7.19.7 OpenSSL/0.9.8r zlib/1.2.3
> Host: localhost:8080
> Accept: */*
< HTTP/1.1 200 OK
< Server: Apache-Coyote/1.1
< Content-Type: application/xml
< Content-Length: 0
< Date: Sun, 15 Jul 2012 23:42:41 GMT
* Connection #0 to host localhost left intact
* Closing connection #0
```

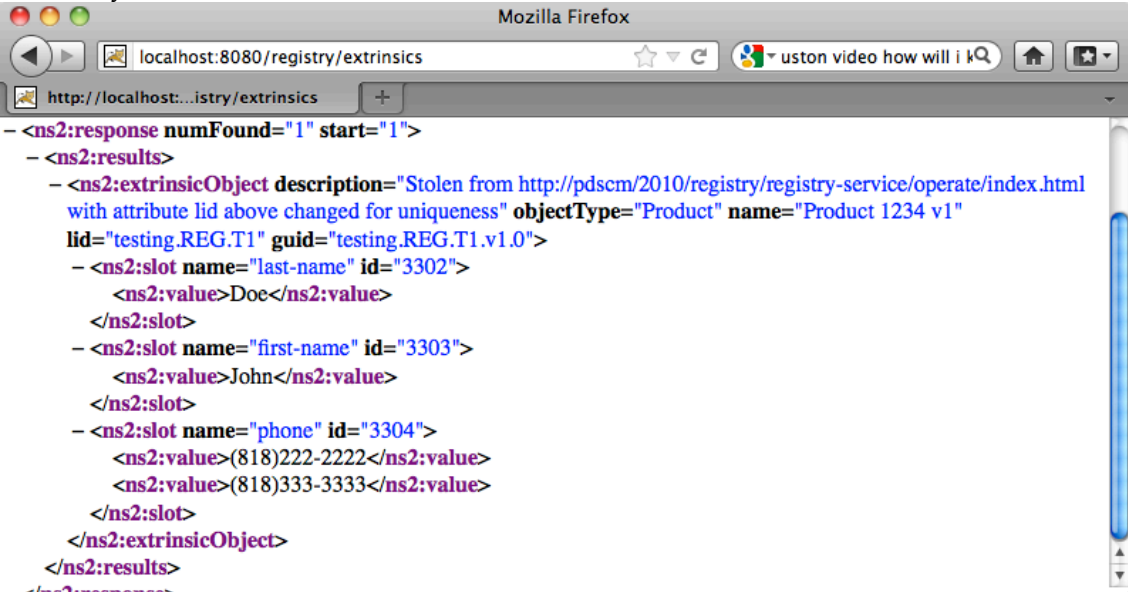
Step 8: Same as step 2

Step 9: Similar to step 5

Step 10: Similar to step 6 but with different values for the phone numbers, i.e. from

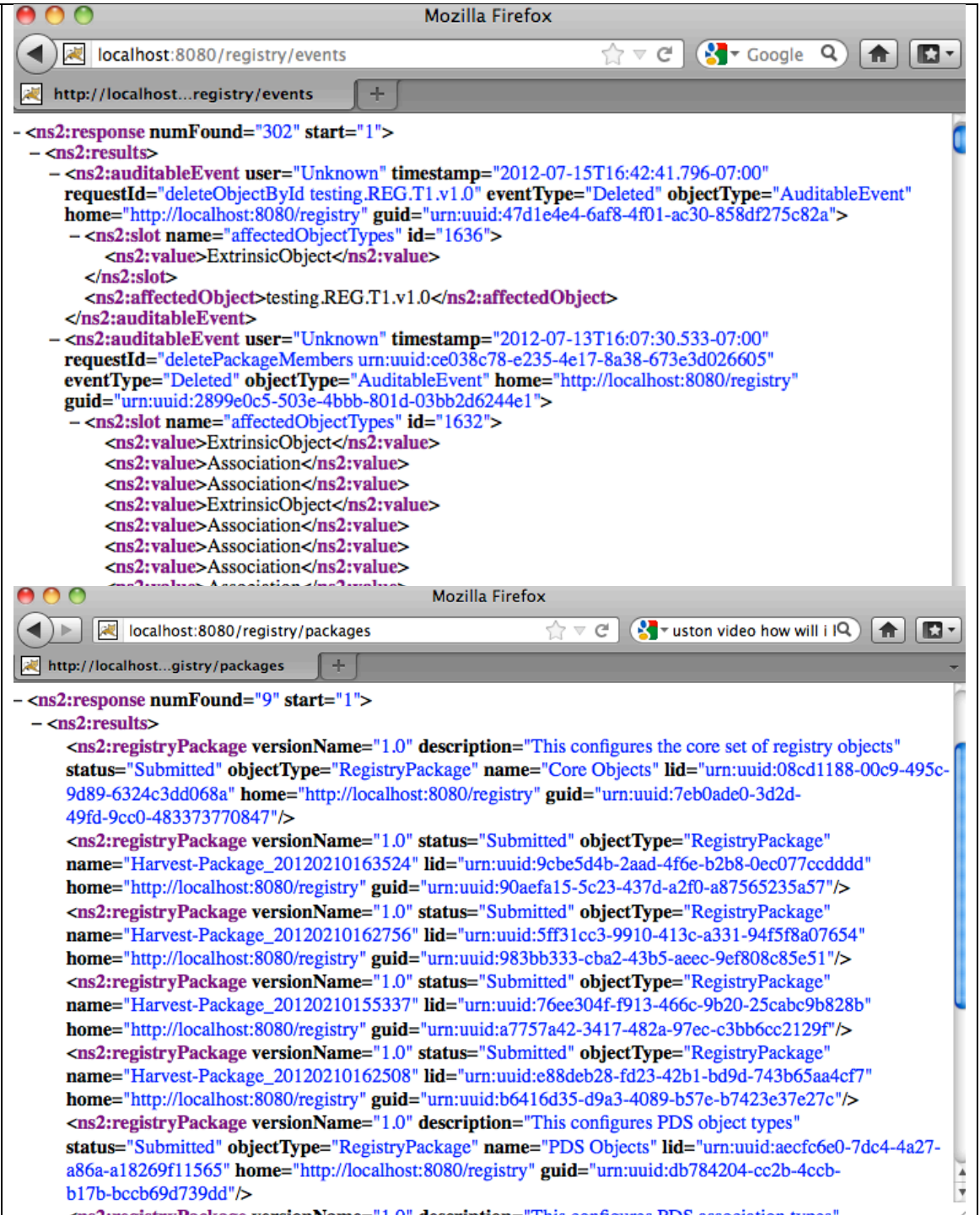
	(818)777-7777 and (818)888-8888 to (818)222-2222 and (818)333-3333
Comments	
Date of Testing	2012 Jul 15
Test Personnel	Richard Chen

Test Case ID	REG.T2 *obsolete
Description	Relate artifact registrations, regardless of whether artifact has been registered yet
Test Steps	<ol style="list-style-type: none"> <code>http://localhost:8080/registry/associations/linkREG.T1toREG.T2aSomehow</code> shows no such associations <code>curl curlOptions -X POST -H "Content-type:application/xml" -v -d @testRegistry/test.REG.T2.xml http://localhost:8080/registry/registry/associations -uusername:password -k</code> adds 1 association (from a nonexistent sourceLid) to desired targetLid Repeat step 1 to see the association (POSTing the sourceLids referenced in steps 2 and 3 is actually unnecessary)
Test Results	<p>Step 1: The error message should be "HTTP Status 500", then much like REG.T1's step 2's output. If not (i.e. if output looks like step 3's below</p> <pre>curl curlOptions -X DELETE -v http://localhost:8080/registry/associations/linkREG.T1toREG.T2aSomehow</pre> <p>Step 2: Benign output messages without "ERROR"</p> <pre>* About to connect() to pdsops2.jpl.nasa.gov port 80 (#0) * Trying 128.149.132.54... connected * Connected to pdsops2.jpl.nasa.gov (128.149.132.54) port 80 (#0) > POST /registry/registry/associations HTTP/1.1 > User-Agent: curl/7.19.7 (universal-apple-darwin10.0) libcurl/7.19.7 OpenSSL/0.9.8i zlib/1.2.3 > Host: pdsops2.jpl.nasa.gov > Accept: */* > Content-type:application/xml > Content-Length: 257 < HTTP/1.1 201 Created < Server: Apache-Coyote/1.1 < Location: http://localhost:8080/registry/registry/associations/linkREG.T1toREG.T2aSomehow < Content-Type: text/plain < Transfer-Encoding: chunked < Date: Sat, 30 Apr 2011 07:36:44 GMT * Connection #0 to host pdsops2.jpl.nasa.gov left intact * Closing connection #0 linkREG.T1toREG.T2aSomehow</pre> <p>Step 3:</p>  <pre><ns2:association sourceObject="testing.REG.T2a" targetObject="testing.REG.T1" associationType="has non-existent source as of yet" lid="urn:uuid:60b9bdac-5a78-45ff-8102-c5a2548cca70" objectType="Association" status="Submitted" versionName="1.0" versionId="1.0" guid="linkREG.T1toREG.T2aSomehow" home="http://localhost:8080/registry-service"/></pre>
Comments	
Date of Testing	
Test Personnel	

Test Case ID	REG.T3
Description	Maintain policies for classes of artifacts, i.e. all classes of artifacts capture a base set of metadata, in the form of XML attributes: objectType, guid as well as metadata specific to each artifact class.
Test Steps	<p>In a browser,</p> <p>http://localhost:8080/registry/extrinsics</p> <p>http://localhost:8080/registry/associations</p> <p>http://localhost:8080/registry/services</p> <p>http://localhost:8080/registry/schemes</p> <p>http://localhost:8080/registry/events</p> <p>http://localhost:8080/registry/packages</p>
Test Results	<p>Specific results will differ, but every item in every class has XML attributes objectType, guid. Each class may have others attributes such as lid, name, home. There are no services yet.</p>  <pre> - <ns2:response numFound="1" start="1"> - <ns2:results> - <ns2:extrinsicObject description="Stolen from http://pdscm/2010/registry/registry-service/operate/index.html with attribute lid above changed for uniqueness" objectType="Product" name="Product 1234 v1" lid="testing.REG.T1" guid="testing.REG.T1.v1.0"> - <ns2:slot name="last-name" id="3302"> <ns2:value>Doe</ns2:value> </ns2:slot> - <ns2:slot name="first-name" id="3303"> <ns2:value>John</ns2:value> </ns2:slot> - <ns2:slot name="phone" id="3304"> <ns2:value>(818)222-2222</ns2:value> <ns2:value>(818)333-3333</ns2:value> </ns2:slot> </ns2:extrinsicObject> </ns2:results> </ns2:response> </pre>

The image shows two screenshots of a Mozilla Firefox browser window. The top screenshot displays the XML response for the URL `localhost:8080/registry/associations`. The response is an XML document with a root element `<ns2:response numFound="78" start="1">`. It contains a `<ns2:results>` element with four `<ns2:association>` entries. Each entry includes attributes for `associationType`, `targetObject`, `sourceObject`, `status`, and `objectType`, along with a `home` attribute and a `guid`. Each association also has a `<ns2:slot name="targetObjectType" id="...">` element containing a `<ns2:value>` element with the text `ClassificationNode`.

The bottom screenshot displays the XML response for the URL `localhost:8080/registry/schemes`. The response is an XML document with a root element `<ns2:response numFound="2" start="1">`. It contains a `<ns2:results>` element with two `<ns2:classificationScheme>` entries. Each entry includes attributes for `nodeType`, `isInternal`, `versionName`, `description`, `status`, `objectType`, `name`, `lid`, and `home`, along with a `guid`.

	
<p>Comments</p>	
<p>Date of Testing</p>	<p>2012 Jul 15</p>
<p>Test Personnel</p>	<p>Richard Chen</p>

<p>Test Case ID</p>	<p>REG.T4 *obsolete - registry no longer accepts artifacts with no global unique ID.</p>
<p>Description</p>	<p>Assign a global unique identifier to a registered artifact with no global unique identifier, query for the registered artifact, delete the registered artifact.</p>
<p>Test Steps</p>	<ol style="list-style-type: none"> curl curlOptions -X POST -H "Content-type:application/xml" -v -d @testRegistry/test.REG.T4.xml http://localhost:8080/registry/extrinsics/logicals

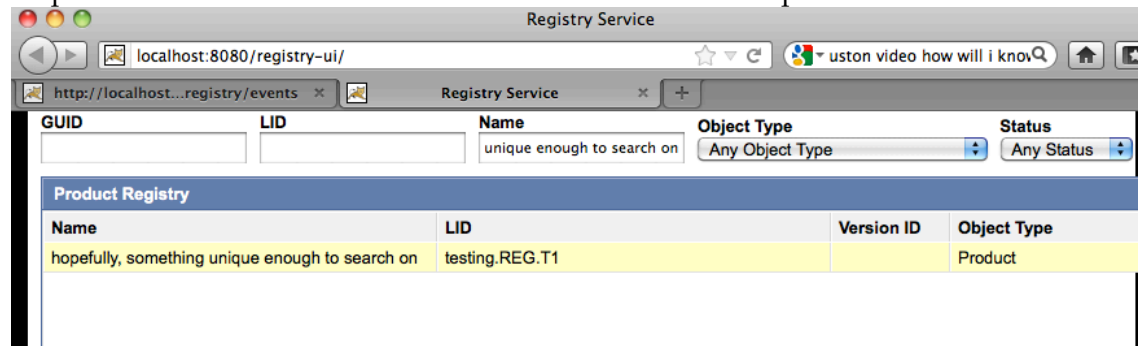
2. In a browser, <http://localhost:8080/registry-ui>
3. Under "Name", enter "hopefully, something unique enough to search on" from test.REG.T4.xml. Click "Update"
4. Click anywhere on the row to see Product Details including GUID
5. `curl curlOptions -X DELETE -v http://localhost:8080/registry/extrinsics/guidFromLastStep`
6. Click the "Update" button again.

Test Results

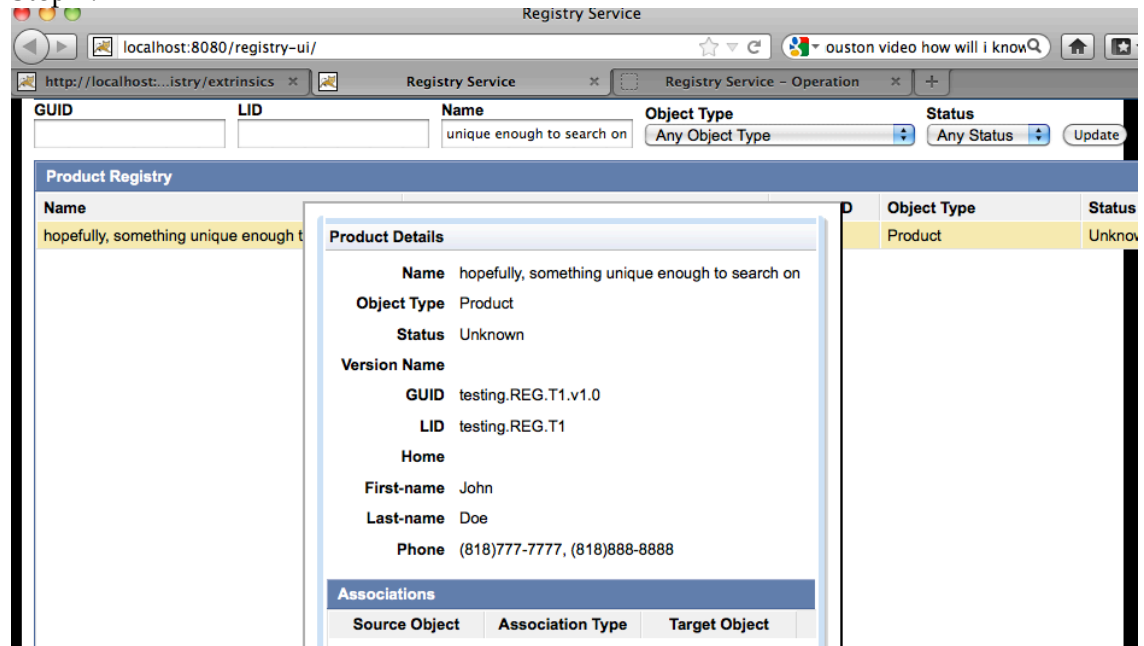
Step 1: Note the value (an assigned LID) of "Location:" in the positive message:

```
* About to connect() to localhost port 8080 (#0)
* Trying 127.0.0.1... connected
* Connected to localhost (127.0.0.1) port 8080 (#0)
> POST /registry/extrinsics/logicals HTTP/1.1
> User-Agent: curl/7.19.7 (universal-apple-darwin10.0) libcurl/7.19.7 OpenSSL/0.9.8r zlib/1.2.3
> Host: localhost:8080
> Accept: */*
> Content-type:application/xml
> Content-Length: 663
< HTTP/1.1 200 OK
< Server: Apache-Coyote/1.1
< Content-Type: application/xml
< Content-Length: 0
< Date: Sun, 12 Feb 2012 11:07:23 GMT
* Connection #0 to host localhost left intact
* Closing connection #0
```

Step 3: the LID should match the value of "Location:" in step 1



Step 4:



Step 5:

```
* About to connect() to localhost port 8080 (#0)
* Trying 127.0.0.1... connected
```

	<pre> * Connected to localhost (127.0.0.1) port 8080 (#0) > DELETE /registry/extrinsics/testing.REG.T1.v1.0 HTTP/1.1 > User-Agent: curl/7.19.7 (universal-apple-darwin10.0) libcurl/7.19.7 OpenSSL/0.9.8r zlib/1.2.3 > Host: localhost:8080 > Accept: */* < HTTP/1.1 200 OK < Server: Apache-Coyote/1.1 < Content-Type: application/xml < Content-Length: 0 < Date: Sun, 12 Feb 2012 11:21:27 GMT * Connection #0 to host localhost left intact * Closing connection #0 </pre> <p>Step 6: The row should be gone</p>
Comments	
Date of Testing	2012 Jul 15
Test Personnel	Richard Chen

Test Case ID	REG.T5 *obsolete – registry no longer accepts artifacts with no global unique ID.
Description	Assign a version to a registered artifact based on its unique identifier
Test Steps	<ol style="list-style-type: none"> 1. http://localhost:8080/registry/extrinsics/logicals/testing.REG.T2b shows no current product targetLid=testing.REG.T2b 2. <code>curl curlOptions -X POST -H "Content-type:application/xml" -v -d @testRegistry/test.REG.T5a.xml</code> http://localhost:8080/registry/extrinsics/logicals 3. Repeat step 1. Note that userVersion is 1.0 4. <code>curl curlOptions -X POST -H "Content-type:application/xml" -v -d @testRegistry/test.REG.T5b.xml</code> http://localhost:8080/registry/extrinsics/logicals 5. Repeat step 1. Note that userVersion is 2.0 6. http://localhost:8080/registry/extrinsics/logicals/testing.REG.T2b/all shows both versions
Test Results	<p>Step 1: The error message should be “HTTP Status 500 –“</p> <p>Step 2: Benign output messages without “ERROR”</p> <p>Step 3: Upon success, the registry service returns good xml with userVersion = 1.0</p> <p>Step 5: Upon success, the registry service returns good xml with userVersion = 2.0</p> <p>Step 6: Upon success, the registry service returns good xml showing both posts.</p>
Comments	
Date of Testing	
Test Personnel	

Test Case ID	REG.T6
Description	Allow replacement, approval, deprecation, undeprecation, and verification of registered artifacts.
Test Steps	<ol style="list-style-type: none"> 1. In a browser, http://localhost:8080/registry/extrinsics/logicals/testing.REG.T2a shows no current product has lid “testing.REG.T2a”. 2. <code>curl curlOptions -X POST -H "Content-type:application/xml" -v -d @testRegistry/test.REG.T6a.xml</code> http://localhost:8080/registry/extrinsics/logicals 3. Repeat step 1 to see the lid

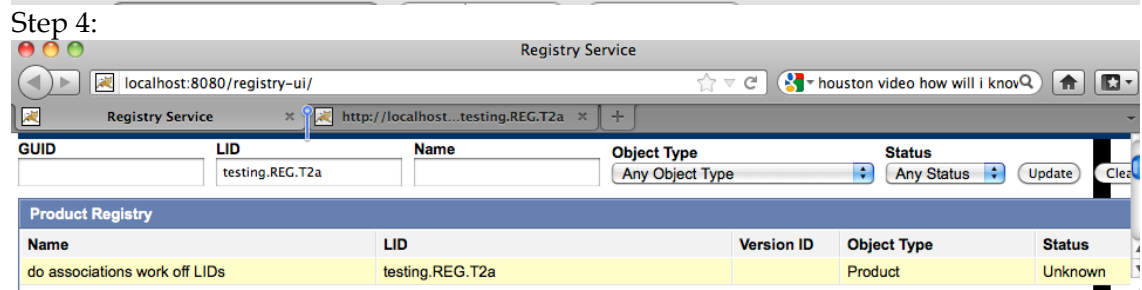
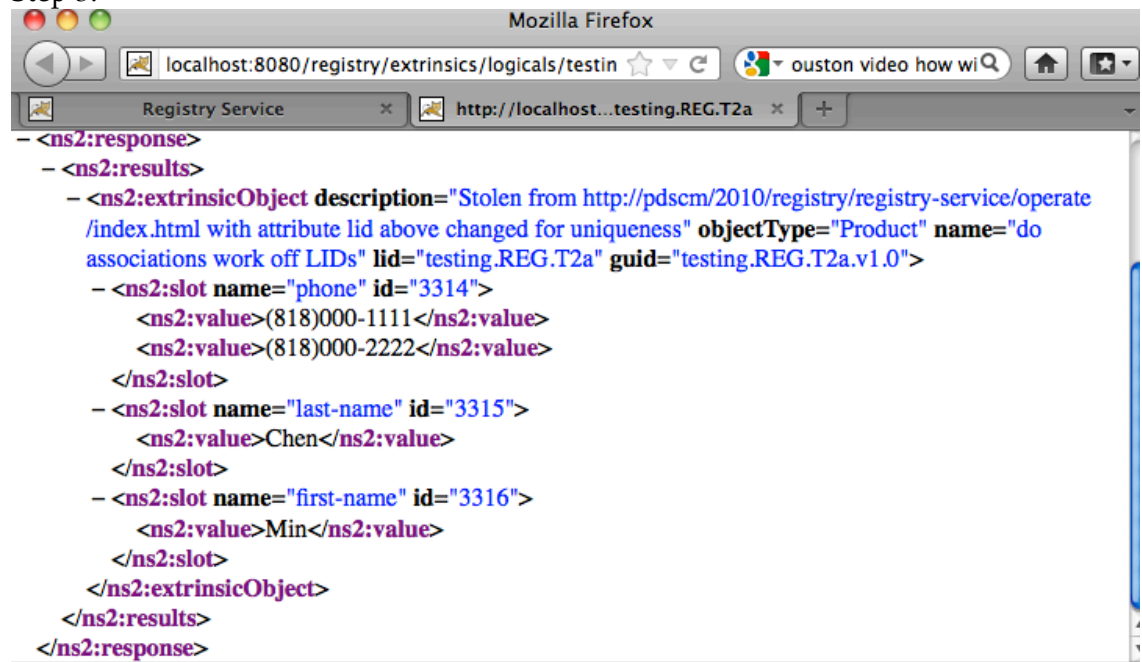
4. In a browser, <http://localhost:8080/registry-ui/>
Under "LID", enter "testing.REG.T2a". Click "Update". If that URL is not found, repeat step 1 and note the XML attribute "status".
5. `curl curlOptions -X POST -H "Content-type:application/xml" -v http://localhost:8080/registry/extrinsics/testing.REG.T2a.v1.0/approve`
6. Repeat step 4 to see the Status
7. `curl curlOptions -X POST -H "Content-type:application/xml" -v http://localhost:8080/registry/extrinsics/testing.REG.T2a.v1.0/deprecate`
8. Repeat step 4 to see the Status
9. `curl curlOptions -X POST -H "Content-type:application/xml" -v http://localhost:8080/registry/extrinsics/testing.REG.T2a.v1.0/undeprecate`
10. Repeat step 4 to see the Status
11. `curl curlOptions -X POST -H "Content-type:application/xml" -v -d @testRegistry/test.REG.T6b.xml http://localhost:8080/registry/extrinsics/logicals`
replaces the info in the first file with different values for the phone numbers
12. Repeat step 1 to see the lid

Test Results

Step 1: The error message should be "No object found for lid: testing.REG.T2a", very much like REG.T1's step 2's output. If not,
`curl curlOptions -X DELETE -v http://localhost:8080/registry/extrinsics/testing.REG.T2a.v1.0`

Step 2: Benign output messages without "ERROR", like REG.T1's step 5

Step 3:

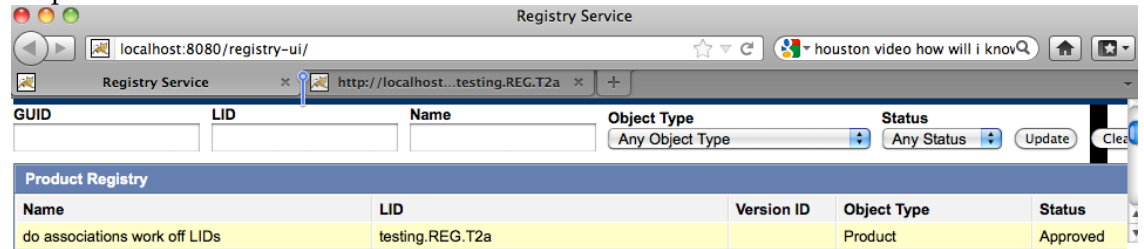


Step 5:
 * About to connect() to localhost port 8080 (#0)

```

* Trying 127.0.0.1... connected
* Connected to localhost (127.0.0.1) port 8080 (#0)
> POST /registry/extrinsics/testing.REG.T2a.v1.0/approve HTTP/1.1
> User-Agent: curl/7.19.7 (universal-apple-darwin10.0) libcurl/7.19.7 OpenSSL/0.9.8r zlib/1.2.3
> Host: localhost:8080
> Accept: */*
> Content-type:application/xml
< HTTP/1.1 200 OK
< Server: Apache-Coyote/1.1
< Content-Type: application/xml
< Content-Length: 0
< Date: Mon, 16 Jul 2012 00:10:32 GMT
* Connection #0 to host localhost left intact
* Closing connection #0
    
```

Step 6:

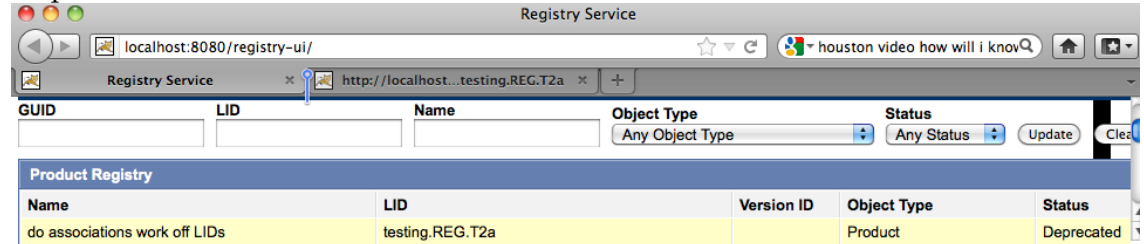


Step 7:

```

* About to connect() to localhost port 8080 (#0)
* Trying 127.0.0.1... connected
* Connected to localhost (127.0.0.1) port 8080 (#0)
> POST /registry/extrinsics/testing.REG.T2a.v1.0/deprecate HTTP/1.1
> User-Agent: curl/7.19.7 (universal-apple-darwin10.0) libcurl/7.19.7 OpenSSL/0.9.8r zlib/1.2.3
> Host: localhost:8080
> Accept: */*
> Content-type:application/xml
< HTTP/1.1 200 OK
< Server: Apache-Coyote/1.1
< Content-Type: application/xml
< Content-Length: 0
< Date: Mon, 16 Jul 2012 00:12:24 GMT
* Connection #0 to host localhost left intact
* Closing connection #0
    
```

Step 8:

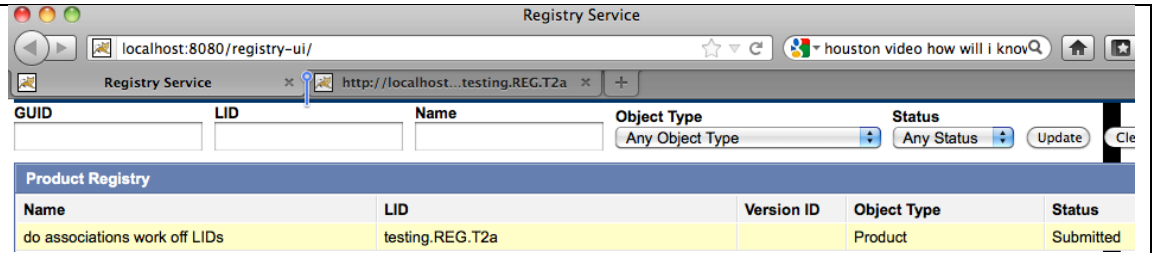


Step 9:

```

* About to connect() to localhost port 8080 (#0)
* Trying 127.0.0.1... connected
* Connected to localhost (127.0.0.1) port 8080 (#0)
> POST /registry/extrinsics/testing.REG.T2a.v1.0/undeprecate HTTP/1.1
> User-Agent: curl/7.19.7 (universal-apple-darwin10.0) libcurl/7.19.7 OpenSSL/0.9.8r zlib/1.2.3
> Host: localhost:8080
> Accept: */*
> Content-type:application/xml
< HTTP/1.1 200 OK
< Server: Apache-Coyote/1.1
< Content-Type: application/xml
< Content-Length: 0
< Date: Mon, 16 Jul 2012 00:13:00 GMT
* Connection #0 to host localhost left intact
* Closing connection #0
    
```

Step 10:

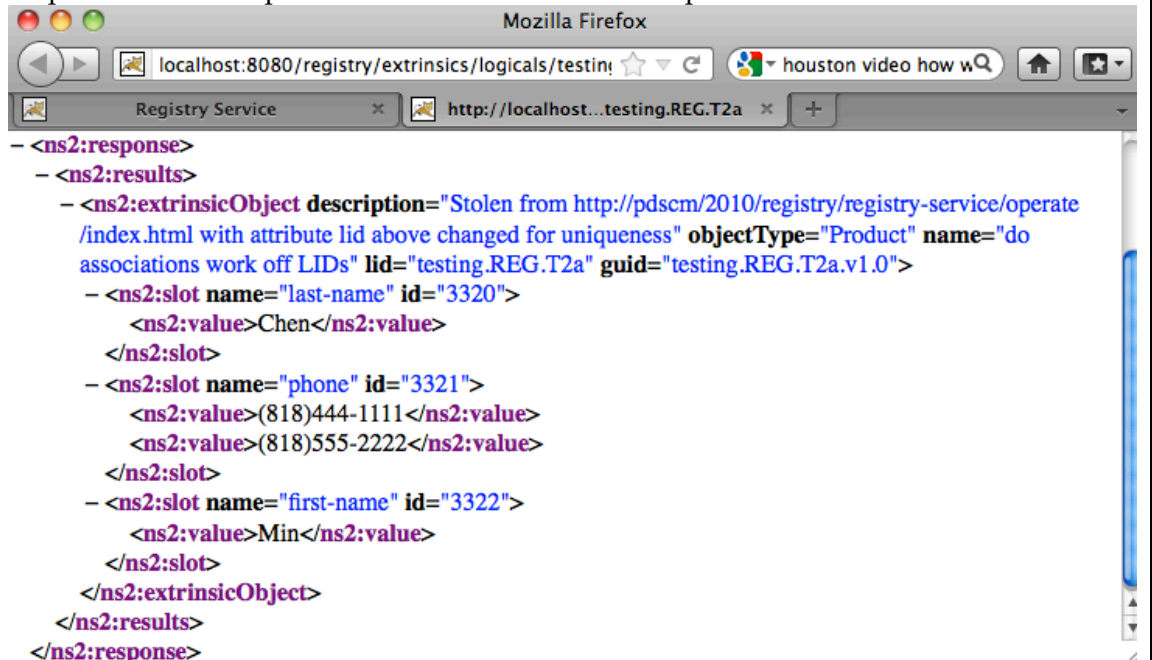


Step 11:

```

* About to connect() to localhost port 8080 (#0)
* Trying 127.0.0.1... connected
* Connected to localhost (127.0.0.1) port 8080 (#0)
> POST /registry/extrinsics/logicals HTTP/1.1
> User-Agent: curl/7.19.7 (universal-apple-darwin10.0) libcurl/7.19.7 OpenSSL/0.9.8r zlib/1.2.3
> Host: localhost:8080
> Accept: */*
> Content-type:application/xml
> Content-Length: 647
< HTTP/1.1 200 OK
< Server: Apache-Coyote/1.1
< Content-Type: application/xml
< Content-Length: 0
< Date: Mon, 16 Jul 2012 00:15:23 GMT
* Connection #0 to host localhost left intact
* Closing connection #0
    
```

Step 12: Same as step 3 but with different values for phone numbers



Comments	http://oodt.jpl.nasa.gov/jira/browse/PDS-47 After the initial registration, product's status is "Unknown". It used to be "Submitted"
Date of Testing	2012 Jul 15
Test Personnel	Richard Chen

Test Case ID	REG.T7 *not ready for build 2b
Description	Enable replication of registry contents
Test Steps	

Test Results	
Comments	
Date of Testing	
Test Personnel	

Test Case ID	REG.T8 *not ready for build 2b
Description	Verify registry contents
Test Steps	
Test Results	
Comments	
Date of Testing	
Test Personnel	

Test Case ID	REG.T9
Description	Test scalability of registry.
Test Steps	<p>This requires python to be installed on the local machine and possible editing of stressTest.py to change the location of the python executable.</p> <p>Step 3 is configurable. 500000 registrations (as shown) may take 3 days.</p> <ol style="list-style-type: none"> 1. cd testDir/bin 2. ./stressTest.py 3. ./stressTest.py -v -n500000 > ../out.txt 4. grep Time ../out.txt
Test Results	<p>Step 2:</p> <pre> stressTesting.T000000.v1.0 deleted stressTesting.T000001.v1.0 deleted stressTesting.T000002.v1.0 deleted Delete 3 done. Time(sec): avg=0.263 median=0.081 stdDev=0.26655 sum=0.8 Registr 3 done. Time(sec): avg=0.016 median=0.017 stdDev=0.00219 sum=0.0 <?xml version="1.0" encoding="UTF-8" standalone="yes"?><ns2:response xmlns:ns2="http://registry.pds.nasa.gov"><ns2:results><ns2:extrinsicObject description="Stolen from http://pdscm/2010/registry/registry-service/operate/index.html with attribute lid above changed for uniqueness" objectType="Product" name="Stress The Registry " lid="stressTesting.T000000" guid="stressTesting.T000000.v1.0"><ns2:slot name="last-name" id="214451"><ns2:value>Doe</ns2:value></ns2:slot><ns2:slot name="cannotPossibleBeAnExistingSlot" id="214452"><ns2:value>cannot possibly be an existing value</ns2:value></ns2:slot><ns2:slot name="first-name" id="214453"><ns2:value>John</ns2:value></ns2:slot><ns2:slot name="phone" id="214454"><ns2:value>(818)777-7777</ns2:value><ns2:value>(818)888- 8888</ns2:value></ns2:slot></ns2:extrinsicObject></ns2:results></ns2:response> <?xml version="1.0" encoding="UTF-8" standalone="yes"?><ns2:response xmlns:ns2="http://registry.pds.nasa.gov"><ns2:results><ns2:extrinsicObject description="Stolen from http://pdscm/2010/registry/registry-service/operate/index.html with attribute lid above changed for uniqueness" objectType="Product" name="Stress The Registry " lid="stressTesting.T000001" guid="stressTesting.T000001.v1.0"><ns2:slot name="last-name" id="214455"><ns2:value>Doe</ns2:value></ns2:slot><ns2:slot name="cannotPossibleBeAnExistingSlot" id="214456"><ns2:value>cannot possibly be an existing value</ns2:value></ns2:slot><ns2:slot name="first-name" id="214457"><ns2:value>John</ns2:value></ns2:slot><ns2:slot name="phone" id="214458"><ns2:value>(818)777-7777</ns2:value><ns2:value>(818)888- 8888</ns2:value></ns2:slot></ns2:extrinsicObject></ns2:results></ns2:response> <?xml version="1.0" encoding="UTF-8" standalone="yes"?><ns2:response xmlns:ns2="http://registry.pds.nasa.gov"><ns2:results><ns2:extrinsicObject description="Stolen from http://pdscm/2010/registry/registry-service/operate/index.html with attribute lid above changed for uniqueness" objectType="Product" name="Stress The Registry " lid="stressTesting.T000002" guid="stressTesting.T000002.v1.0"><ns2:slot name="last-name" </pre>

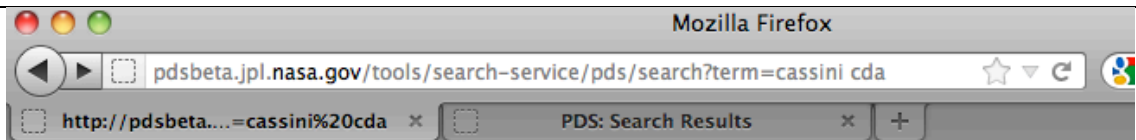
	<pre>id="214459"><ns2:value>Doe</ns2:value></ns2:slot><ns2:slot name="cannotPossibleBeAnExistingSlot" id="214460"><ns2:value>cannot possibly be an existing value</ns2:value></ns2:slot><ns2:slot name="first-name" id="214461"><ns2:value>John</ns2:value></ns2:slot><ns2:slot name="phone" id="214462"><ns2:value>(818)777-7777</ns2:value><ns2:value>(818)888- 8888</ns2:value></ns2:slot></ns2:extrinsicObject></ns2:results></ns2:response> View 3 done. Time(sec): avg=0.009 median=0.009 stdDev=0.00035 sum=0.0 Step 4: Delete 10000 done. Time(sec): avg=0.007 median=0.006 stdDev=0.00962 sum=71.2 Registr 10000 done. Time(sec): avg=0.007 median=0.006 stdDev=0.01312 sum=70.3 View 10000 done. Time(sec): avg=0.011 median=0.010 stdDev=0.00361 sum=108.8</pre>
Comments	The build 2c numbers are over 10x faster than before.
Date of Testing	2012 Jul 15
Test Personnel	Richard Chen

Test Case ID	RPT.T1, RPT.T2, RPT.T3, RPT.T4, RPT.T5
Description	Various requirements regarding reporting
Test Steps	Commercial applications, in particular Sawmill, provide the functionality required. Verification of installation suffices.
Test Results	
Comments	
Date of Testing	2012 Feb 27
Test Personnel	Richard Chen

Test Case ID	SCH.T1
Description	Degrade gracefully on archaic browsers
Test Steps	
Test Results	
Comments	
Date of Testing	
Test Personnel	Richard Chen

Test Case ID	SCH.T2 *not ready for build 2b
Description	Comply with Section 508 and adhere to WCAG level A
Test Steps	
Test Results	
Comments	
Date of Testing	
Test Personnel	

Test Case ID	SCH.T3
Description	Provide HTTP-based API to enter queries and return results
Test Steps	<p>Compare the results of the normal web page with the API. We could use curl and maybe ask for results in xml and capture the results as text, but the parsing - ugh. I'll trust that works and just test via browsers.</p> <ol style="list-style-type: none">1. http://pdsbeta.jpl.nasa.gov/tools/search-service/pds/search?term=cassini%20cda2. In the upper right of http://pdsbeta.jpl.nasa.gov, type "cassini cda" (without quotes) and hit the "Go" button
Test Results	Step 1:



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- [Data Set](#) (2)
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- [Mission](#) (1)

Target

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- [calibration](#) (1)

Instrument

- [camera](#) (5)
- [dust analyzer](#) (2)
- [particle detector](#) (2)

Search Results

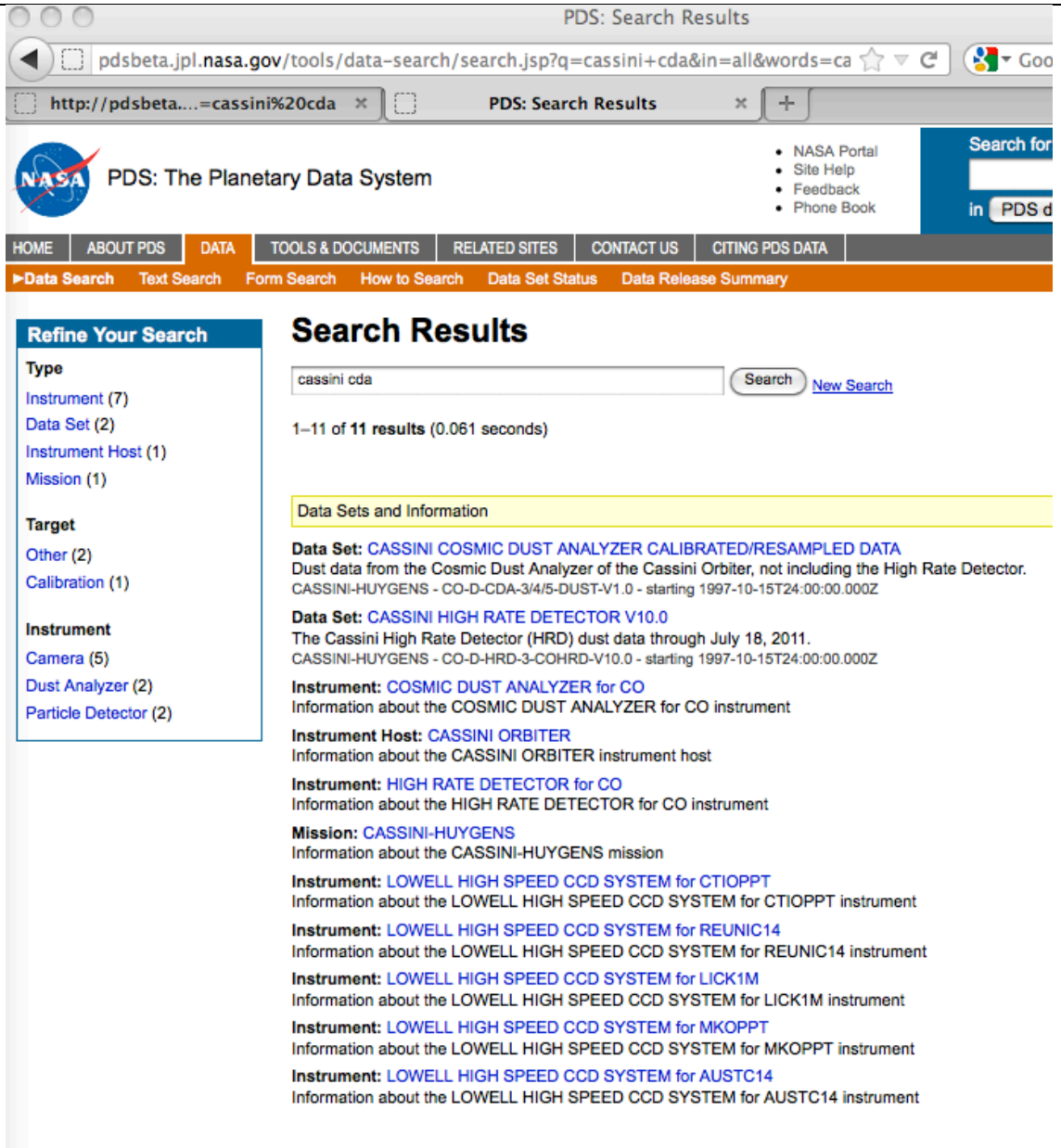
[New Search](#)

1-11 of **11 results** (0.002 seconds)

Data Sets and Information

- **Data Set:** [CASSINI COSMIC DUST ANALYZER CALIBRATED/RESAMPLED DATA](#)
Dust data from the Cosmic Dust Analyzer of the Cassini Orbiter, not including the High Rate Detector. CASSINI-HUYGENS - CO-D-CDA-3/4/5-DUST-V1.0 - starting 1997-10-15T24:00:00.000Z
- **Data Set:** [CASSINI HIGH RATE DETECTOR V10.0](#)
The Cassini High Rate Detector (HRD) dust data through July 18, 2011. CASSINI-HUYGENS - CO-D-HRD-3-COHRD-V10.0 - starting 1997-10-15T24:00:00.000Z
- **Instrument:** [COSMIC DUST ANALYZER for CO](#)
Information about the COSMIC DUST ANALYZER for CO instrument
- **Instrument Host:** [CASSINI ORBITER](#)
Information about the CASSINI ORBITER instrument host
- **Instrument:** [HIGH RATE DETECTOR for CO](#)
Information about the HIGH RATE DETECTOR for CO instrument
- **Mission:** [CASSINI-HUYGENS](#)
Information about the CASSINI-HUYGENS mission
- **Instrument:** [LOWELL HIGH SPEED CCD SYSTEM for CTIOPPT](#)
Information about the LOWELL HIGH SPEED CCD SYSTEM for CTIOPPT instrument
- **Instrument:** [LOWELL HIGH SPEED CCD SYSTEM for REUNIC14](#)
Information about the LOWELL HIGH SPEED CCD SYSTEM for REUNIC14 instrument
- **Instrument:** [LOWELL HIGH SPEED CCD SYSTEM for LICK1M](#)
Information about the LOWELL HIGH SPEED CCD SYSTEM for LICK1M instrument
- **Instrument:** [LOWELL HIGH SPEED CCD SYSTEM for MKOPPT](#)
Information about the LOWELL HIGH SPEED CCD SYSTEM for MKOPPT instrument
- **Instrument:** [LOWELL HIGH SPEED CCD SYSTEM for AUSTC14](#)
Information about the LOWELL HIGH SPEED CCD SYSTEM for AUSTC14 instrument

Step 2:

	 <p>The screenshot shows a web browser window with the URL <code>pdsbeta.jpl.nasa.gov/tools/data-search/search.jsp?q=cassini+cda&in=all&words=ca</code>. The page title is "PDS: Search Results". The search results for "cassini cda" show 1-11 of 11 results in 0.061 seconds. The results list several data sets and instruments, including:</p> <ul style="list-style-type: none"> Data Set: CASSINI COSMIC DUST ANALYZER CALIBRATED/RESAMPLED DATA: Dust data from the Cosmic Dust Analyzer of the Cassini Orbiter, not including the High Rate Detector. CASSINI-HUYGENS - CO-D-CDA-3/4/5-DUST-V1.0 - starting 1997-10-15T24:00:00.000Z Data Set: CASSINI HIGH RATE DETECTOR V10.0: The Cassini High Rate Detector (HRD) dust data through July 18, 2011. CASSINI-HUYGENS - CO-D-HRD-3-COHRD-V10.0 - starting 1997-10-15T24:00:00.000Z Instrument: COSMIC DUST ANALYZER for CO: Information about the COSMIC DUST ANALYZER for CO instrument Instrument Host: CASSINI ORBITER: Information about the CASSINI ORBITER instrument host Instrument: HIGH RATE DETECTOR for CO: Information about the HIGH RATE DETECTOR for CO instrument Mission: CASSINI-HUYGENS: Information about the CASSINI-HUYGENS mission Instrument: LOWELL HIGH SPEED CCD SYSTEM for CTIOPPT: Information about the LOWELL HIGH SPEED CCD SYSTEM for CTIOPPT instrument Instrument: LOWELL HIGH SPEED CCD SYSTEM for REUNIC14: Information about the LOWELL HIGH SPEED CCD SYSTEM for REUNIC14 instrument Instrument: LOWELL HIGH SPEED CCD SYSTEM for LICK1M: Information about the LOWELL HIGH SPEED CCD SYSTEM for LICK1M instrument Instrument: LOWELL HIGH SPEED CCD SYSTEM for MKOPPT: Information about the LOWELL HIGH SPEED CCD SYSTEM for MKOPPT instrument Instrument: LOWELL HIGH SPEED CCD SYSTEM for AUSTC14: Information about the LOWELL HIGH SPEED CCD SYSTEM for AUSTC14 instrument
Comments	
Date of Testing	2012.07.15
Test Personnel	Richard Chen

Test Case ID	SCH.T4 *not ready for build 2b
Description	Retrieve metadata to generate search indexes
Test Steps	
Test Results	
Comments	
Date of Testing	
Test Personnel	

Test Case ID	SCH.T5
Description	Search based on a sequence of open text keywords. Do so in a browser.
Test Steps	<p>Compare the PDS4 (http://pdsbeta.jpl.nasa.gov/tools/data-search) and the PDS3 (http://pds.nasa.gov/tools/data-search/) results for the following searches:</p> <ol style="list-style-type: none"> 1. mro spice 2. cassini cda 3. voyager plasma wave. In Refine Your Search, click "Comet SL9/Jupiter Collision" 4. mars digital elevation maps 5. neptune 6. jupiter images 7. corona 8. NEAR-A-SPICE-6-EROS/ORBIT-V1.0 (a specific data set ID)
Test Results	<p>All searches complete successfully. "Good" and "Bad" refer to PDS4 relative to PDS3:</p> <ol style="list-style-type: none"> 1. PDS4 returns 344 results; PDS3, 15. Both list the desired dataset first. Good: has instrument info Bad: After the first dataset, the next datasets are other SPICE datasets - it would be better to have other MRO datasets next. 2. Bad: the PDS4-unique results are 5 instruments whose relationship to the search terms is unclear. Also, wrt the first test, why does PDS4 not return hundreds of results about Cassini? 3. Probably good: no "Search Tool: Comet Data Searcher" Maybe good: PDS3 has 9 datasets; PDS4, 36. The extras are remotely related. 4. Apparently, "digital elevation map" is not a commonly used term. Both have mostly irrelevant results Bad: PDS3 has the 2 best results, datasets "VO1/VO2 MARS VISUAL IMAGING SUBSYSTEM DIGITAL TERRAIN MODEL" and "MRO-M-HIRISE-5-DTM-V1.0". PDS4 does not have those at all. 5. Good: 2 extra search tools, 11 extra targets, 10 extra instruments. Avoided bad instrument LONG RANGE RECONNAISSANCE IMAGER on New Horizons. Bad: 1 wrong mission (NH) 6. PDS4 returns 771 results; PDS3, 122 Probably good: avoiding dataset "EAR-J-KECK-3-EDR-SL9-V1.0", which seems preliminary. Probably bad: many irrelevant datasets are near the top, e.g. Rosetta-Orbiter data. 7. Good: 3 missions SUISEI, VEX, ULY. 1 instrument (OMAG on PVO) and maybe the Radio Science instruments. 8. PDS3 returns 1 result. PDS4 returns 8374. PDS3's result is probably better.
Comments	<p>This happens with PDS3 as well. After searching and then refining a search (clicking on something in the left column), if the user types a new search term in the middle of the page, the new search is actually a refinement, not a new search. I'd prefer either a new search or something on the web page indicating that the typed-in text will refine the current results. (This happened in going from step 3 to step 4 above)</p> <p>https://oodt.jpl.nasa.gov/jira/browse/PDS-86</p>
Date of Testing	2012 Jul 15
Test Personnel	Richard Chen

Test Case ID	SCH.T6, SCH.T7
Description	Search based on constraints on specific indexes, and narrow results based on more constraints. Support ordering of results based on specified criteria. Results returned as clickable URIs with metadata describing each URI.
Test Steps	Compare the PDS4 (http://pdsbeta.jpl.nasa.gov/tools/data-search) and the PDS3 (http://pds.nasa.gov) results for the searches below. Clicking on the facets in the left column makes the comparison easier <ol style="list-style-type: none"> 1. mission: mars global surveyor 2. target:mercury
Test Results	All searches complete successfully. "Good" and "Bad" refer to PDS4 relative to PDS3: <ol style="list-style-type: none"> 1. Good: mission MGS Bad: missions Apollo 12 and MRO 2. Bad (minimally): two probably irrelevant datasets GO-J-UVS-2-EDR-JUPITER-V1.0 and IRAS-FPA-6-RDR-INSTRUMENT-INFO-V1.1
Comments	
Date of Testing	2012 Jul 15
Test Personnel	

Test Case ID	SCH.T8 *not ready for build 2b
Description	Support configuration on indexes that differ by data type, data conversion, index generation methodology, and metadata maintenance for result annotation
Test Steps	
Test Results	
Comments	
Date of Testing	
Test Personnel	

Test Case ID	SCH.T9
Description	Capture metrics on search index usage and contents
Test Steps	
Test Results	
Comments	
Date of Testing	
Test Personnel	

Test Case ID	SEC.T1, SEC.T2, SEC.T3, SEC.T4
Description	Various requirements regarding security
Test Steps	(From http://pds-engineering.jpl.nasa.gov/pds2010/development/1.2.0/security/) The Security Service provides the authentication and authorization functions for the PDS 2010 system. The intent of this service is to control access to interfaces and

	services that require authentication and authorization (e.g., Monitor, Report, Registry interfaces, etc.). The functionality for this service is satisfied by the open source software package OpenDS, which is a directory service supporting the Lightweight Directory Access Protocol (LDAP).
Test Results	
Comments	
Date of Testing	2012 Jul ????
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.

Testing of build 1b found 1 anomaly.

Testing of build 1c found 2 minor anomalies.

Testing of build 1d found 5 anomalies

Testing of build 2a found 0 anomalies

Testing of build 2b found 3 major, 3 minor anomalies, 3 improvements

Testing of build 2c found 1 major anomaly, 7 improvements

4.1 Issues Entered

<http://oodt.jpl.nasa.gov/jira/browse/PDS-1>. Resolved

<http://oodt.jpl.nasa.gov/jira/browse/PDS-34>. Resolved

<http://oodt.jpl.nasa.gov/jira/browse/PDS-35>. Resolved

<http://oodt.jpl.nasa.gov/jira/browse/PDS-45>. Resolved

<http://oodt.jpl.nasa.gov/jira/browse/PDS-46>. Resolved

<http://oodt.jpl.nasa.gov/jira/browse/PDS-47>

<http://oodt.jpl.nasa.gov/jira/browse/PDS-48>. Resolved

<http://oodt.jpl.nasa.gov/jira/browse/PDS-49>. Resolved

<http://oodt.jpl.nasa.gov/jira/browse/PDS-52>. Resolved

<http://oodt.jpl.nasa.gov/jira/browse/PDS-53>

<http://oodt.jpl.nasa.gov/jira/browse/PDS-54>. Resolved

<http://oodt.jpl.nasa.gov/jira/browse/PDS-55>

<http://oodt.jpl.nasa.gov/jira/browse/PDS-56>. Resolved

<http://oodt.jpl.nasa.gov/jira/browse/PDS-57>. Resolved

<http://oodt.jpl.nasa.gov/jira/browse/PDS-58>. Resolved

<http://oodt.jpl.nasa.gov/jira/browse/PDS-63>. Resolved

<http://oodt.jpl.nasa.gov/jira/browse/PDS-85>

<http://oodt.jpl.nasa.gov/jira/browse/PDS-86>

<http://oodt.jpl.nasa.gov/jira/browse/PDS-87>

<http://oodt.jpl.nasa.gov/jira/browse/PDS-88>

<http://oodt.jpl.nasa.gov/jira/browse/PDS-89>

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

4.2 Major Issues

PDS-52, PDS-53, PDS-56

4.3 Open anomalies

See 5.1 above.

5 Test Data

File PDS4test.build2a.zip from the "Test Procedures Input" link at <http://pds-engineering.jpl.nasa.gov/index.cfm?pid=145&cid=183> has all test data.

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
PDS 2010 - PDS 2010 Project
PDS MC - PDS Management Council
SDD - Software Design Document
SRD - Software Requirements Document