

April 11, 2012

## Build 2c Test Steps

Objective of the test is two-fold:

- (1) test / verify the products you will build can be adequately described by the PDS4 IM
- (2) get you to become comfortable / familiar with building PDS4 products

The end product of your testing will be:

- submit RFAs for any issues that might need clarification
- submit the completed archive and associated products to S.Hughes / R.Joyner

Resources:

The steps outlined below are more fully described in both the DPH and the PDS wiki. The example products, referenced in the DPH, are a good starting point. Both the wiki and the DPH provide URLs for where the resources are located (e.g., schemas, schematron, the PDS4 dictionary, etc).

Help / Assistance:

Should you get stuck or something needs clarification, call or email:

- Documentation and Data Preparers Wiki: Mitch Gordon
- Technical Issues: Ron Joyner
- RFAs: Steve Hughes

Timeline:

- Apr 20 -- Phase I testing completed: deliver product labels (any RFAs) to the EN
- May 3 -- Phase II testing completed: deliver collection and bundle products (any RFAs) to the EN

Phase 1: Test the assigned data products and data objects

### Build / Test a Product

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- (1) Download the master-schema (xsd) and the associated schematron (sch)
- (2) Using your favorite XML-aware editor, create the label-template for the product that you want to test
- (3) Edit the XML preamble (of the label template) to reflect the location of the master-schema and the schematron
- (4) Fill out the remaining portion of the label template
- (5) Ensure the label template is valid with respect to the master-schema and schematron files

### Build / Test a Local Dictionary

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- (1) Download the master-schema (xsd)
- (2) Using your favorite XML-aware editor, create the Ingest\_DD label template
- (3) Edit the XML preamble (of the label template) to reflect the location of the master-schema
- (4) Fill out the remaining portion of the label template
  - attributes to be defined
  - classes to be defined
- (5) Ensure the label template is valid with respect to the master-schema

Build / Test a Basic Product having a local dictionary

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- (1) Download the master-schema (xsd) and the associated schematron (sch)
  - (2) Using your favorite XML-aware editor, create the label-template for the product that you want to test
  - (3) Edit the XML preamble (of the label template) to:
    - reflect the location of the master-schema and the schematron
    - reflect the local dictionaries that will be referenced
  - (4) Fill out the remaining portion of the label template
    - locally defined attributes / classes are inserted into the Mission & Node areas
  - (5) Ensure the label template is valid with respect to the master-schema and schematron files

Phase 2: Test aggregation and ancillary products  
-- Collections, bundles, documents, etc.

#### Build / Test a Document Product

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- (1a) Assemble the document files that you want to describe in your PDS product label
- (1b) Download the master-schema (xsd) and the associated schematron (sch)
- (2) Using your favorite XML-aware editor, create the label-template for the product that you want to test
- (3) Edit the XML preamble (of the label template) to reflect the location of the master-schema and the schematron
- (4) Create a collection-inventory file
- (5) Fill out the remaining portion of the label template
  - reference the collection-inventory file and its attributes (e.g., file size, md5, etc)
- (5) Ensure the label template is valid with respect to the master-schema and schematron files

#### Build / Test a Collection Product

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- (1) Download the master-schema (xsd) and the associated schematron (sch)
- (2) Using your favorite XML-aware editor, create the label-template for the product that you want to test
- (3) Edit the XML preamble (of the label template) to reflect the location of the master-schema and the schematron
- (4) Using your favorite text editor, create a collection-inventory file
- (5) Fill out the remaining portion of the label template
  - reference the collection-inventory file and its attributes (e.g., file size, md5, etc)
- (6) Ensure the label template is valid with respect to the master-schema and schematron files

#### Build / Test a Bundle Product

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- (1) Download the master-schema (xsd) and the associated schematron (sch)
- (2) Using your favorite XML-aware editor, create the label-template for the product that you want to test
- (3) Edit the XML preamble (of the label template) to reflect the location of the master-schema and the schematron
- (4) Fill out the remaining portion of the label template
  - reference the collections
- (5) Ensure the label template is valid with respect to the master-schema and schematron files