PDS4 Build 2b Data Product Prototype Exercise

Comments due January 18, 2012

Please send input to Faith Vilas <fvilas@psi.edu>

This document is intended as a guideline to exercise pds4 build 2b schemas.

This task is geared towards PDS Discipline Node staff. It is intended to leverage already performed work for build 2a. The "master" (aka extension) schemas are requested for use in this task. The creation of an archive bundle with two or more data products and associated collections is also recommended.

It is important to note that the standards are a "work in progress." Gathering input will help us determine the best path forward as we are preparing a production release of PDS4.

Since build 2b is targeted for internal use to support LADEE and MAVEN, feel free to ask questions from members of the DDWG.

The sections below provide a list of resources and example data products. Please send any feedback to fvilas@psi.edu .

Section 1 – Resources

Build 2a included a number of supporting documents that define the structure and usage of a PDS4 data product. The following provides links to the critical resources that will be helpful in development of your prototype product.

Build 2b Test Website – this website contains links to the documents that support Build 2b. Links to all of the supporting materials required to assess Build 2b can be found at the following website (username: pdsmc, password: council):

http://pds-engineering.jpl.nasa.gov/index.cfm?pid=145&cid=180

Examples (from build 2b):

Data Providers Handbook (DPH) – A cookbook to guide data providers step-by-step through the process of developing a product and an archive.

Standards Reference – One of the two fundamental reference documents for PDS4. You will need this as you work your way through the Data Provider's Handbook and as you develop a prototype product.

Section 2 – PDS4 Data Products

PDS4 is a data product-centric model. Within PDS4, both the XML label and the data itself have defined structures that are governed by the standard and implemented in the PDS4 Information Model. The principal function of the XML label is to provide a concise definition of the structure and format of the underlying PDS4 product being described by the label. You can find sample data products at the following site (usename: pdsmc, password: council) under the Data Product Examples section:

http://pds-engineering.jpl.nasa.gov/index.cfm?pid=145&cid=180

Section 3 – Principal Request

Please evaluate the schemas and provide any comments to Faith. The critical concern is ensuring that the RFAs identified as showstoppers during build 2a have been adequately addressed to enable PDS to move forward with LADEE and MAVEN. Faith will work with the nodes to determine if new RFAs are required and need to be resolved prior to the build 2b release.