

Gaddis, 1.22.13

PDS Imaging Node

Comments and questions on “PDS4 Core” document

1. Introduction and context for PDS4 discussion, especially “core” elements (page 1).
 - a. The first section needs a small amount of introductory content that addresses basic questions like “What is PDS4, who will use it, how will they go about using it?” This is to explain who this document is for, what it presents, where it is in the scheme of planned development, etc. Maybe add a table showing planned rollout and user training schedules?
 - b. In this document, PDS4 is described as both a data standard and a model? Is it both things, especially in the context of this document? In what way is it a standard, from a data provider’s point of view?
 - c. To what portion(s) of PDS data does the PDS4 data model apply in version 1.0, and what is needed for additional data products?
 - i. How many existing or planned PDS4-formatted products are supported by the data structures listed? Maybe include a pie chart or a short list of supported missions/instrument/data sets?
 - ii. Give examples of Data structures, Products, and Aggregates, and describe how they relate or compare to PDS3 elements?
 - iii. I realize that some of these suggestions may be beyond your intended audience, but I think they’d be helpful when you begin to offer training to non-PDS users.
2. Data registration
 - a. How will these software elements be available? Are they Web-based or standalone tools? Are they intended for internal PDS use or for data providers as well?
 - b. Is the “Catalog Tool” a new development?
3. Data Search
 - a. What is delivered by the “Search Service” software? When you say “catalog” here, does that include both PDS3 and PDS4 products?
 - b. What is a “facet-based” search?
4. Label Generation
 - a. What is a DOM object (see Generate Tool)?
 - b. How does pdf.docgen differ from Generate Tool? We definitely don’t want to give the impression that we have competing tools.

5. Local Data Dictionary Generation:
 - a. Can these tools be used to integrate data into PDS4 if we have scrubbed and defined keywords? This is the kind of activity that Nodes might do for geometry, cartography, and calibration keywords.
6. Label and Data Transformation:
 - a. Where is the "Format Transformation" sheet?
 - b. What are the requested transformations?
 - c. Under Transform Tool, what is the Transcoder Library?
7. Bundle Browser
 - a. Will this tool allow users to create the equivalent of browse images, or will it just convert tables and other simple data types?
 - b. If it does allow users to view image data, will this replace NASAView?
8. Beyond the scope of this document:
 - a. How do you envision data providers will approach usage and/or implementation of PDS4 as a "data standard" and/or a "model"? Where will they start, and what is the flow of data into a PDS4 format?
 - b. Is there a need to relate PDS4 elements or structures to those in PDS3 for those who are most familiar with PDS3?
 - c. Will we create a Web page or something that instructs users in where to start for creating PDS4 products?
 - d. Will users be able to pick from a set PDS4-formatted examples, or will there be metadata templates available for sample data?
 - e. Will we have software that walks users through the entire product development and registration process?