

Phase I External Assessment for PDS4 Build 1d

Reports due: September 22, 2011

Please send input to Reta Beebe <rbeebe@nmsu.edu>

This assessment worksheet is intended as a guideline for the 1st Phase in assessing build 1d of the emerging PDS4 data standards. Version 1d will be the version used for external review. The objective is to ensure that the documents and content are appropriate so that data engineers and providers a) understand the emerging data standards at their current level; b) have an opportunity to provide input before this is set in stone and c) provide comments on how to improve the documentation/communication of the standard.

This Phase I 1d review is geared towards external data providers, system developers and external users.

It is important to note that the standards are a “work in progress”. Therefore, some sections of documents are incomplete. For example the next principal focus in the PDS4 development cycle is identifying the discipline-specific extensions such as coordinate systems and camera models. Gathering input will help PDS determine the best path forward during 2011 as PDS prepares a production release of PDS4.

The information below provides a guideline of documents to review and example data products. It is followed by a set of questions to guide the input. Please provide those answers directly to Reta Beebe.

Section 1 – Resources

Build 1d includes 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 you are requested to review during Phase I. Under each section is a set of criteria that would be useful to consider when answering the questions in section 2.

Build 1d Assessment Website – this website contains links to the documents that support Build 1d. Links to all of the supporting materials required to assess Build 1d can be found at this website under the Phase I Review section (login with username: pds4, password: 1dReview):

<http://pds.jpl.nasa.gov/build1dreview/>

PDS4 Introduction – This is an introduction of the PDS4 documentation set to help users get started.

As an assessor of Build 1d, review the document for its ability to:

- Serve as a good introduction to help users get started in learning about the purpose of the PDS4 documentation set.

PDS4 Data Standards Concepts – Introduction to PDS4 key concepts — the view from 10000 feet, avoiding gory details.

As an assessor of Build 1d, review the document for its ability to:

- Serve as a good introduction, background and overview of the data standards.
- Illustrate basic PDS requirements, structures and definitions of the data standards.

Glossary – A concise set of definitions for key PDS4 terms. Although primarily intended as a quick reference, the Glossary is organized functionally, presenting terms in the approximate order in which you are likely to encounter them.

As an assessor of Build 1d, review the document for its ability to:

- Provide meaningful definitions that explain the terms used in the data standards documents.

Jumpstart Guide – A brief introduction to PDS4 in terms of analogous PDS3 vocabulary. Experienced PDS3 users should read it once, noting both the parallels and the differences; then set it aside. People not familiar with PDS3 should skip it; concentrate on the Concepts Document.

As an assessor of Build 1d, review the document for its ability to:

- Help learn PDS4 for those users that are familiar with PDS3.

Data Dictionary Tutorial – A tutorial introduction of the PDS4 Data Dictionary.

As an assessor of Build 1d, review the document for its ability to:

- Serve as a good introduction, background and overview of the PDS4 Data Dictionary.

Data Dictionary - The other fundamental reference for PDS4. It comes in two versions, abridged and unabridged. Reviewers are asked to use the abridged version. The abridged version has been abstracted from the unabridged version with the needs of data providers and data end users in mind. It contains full definitions but not all the fine detail or repetition necessary to support the underlying Information Model.

As an assessor of Build 1d, review the PDSDD document for its ability to:

- Serve as a reference document that defines the set of data elements within PDS4 (Build 1d).

- Define the organization and components of PDS4 product labels. (e.g., classes, attributes, and data types).
- Define the engineering terminology that describes the various structures / components involved in the organization of PDS4 product labels.
- Provide some initial detail prior to Phase II. This will also be useful in the more detailed Phase II review.

Section 2 – Assessment Questions

Below is a set of questions to help guide the assessment. Phase I is intended to be an overview. Detailed information will be provided as part of Phase II. Given that PDS4 is a development project, your input will be very valuable in helping to set priorities in the future.

- 1)** Do the documents provide sufficient background for understanding PDS4 data standards at a high level? If not, how could they be improved?
- 2)** Do the documents present the high level concepts for the PDS4 data standards in a clear manner? If not, how could they be improved?
- 3)** Do the documents miss any major concepts that should be presented at a high level? If so, what are they?
- 4)** Is the recommended order of reviewing the documents appropriate for helping readers learn about PDS4?
- 5)** What overall recommendations do you have for the team? Do you have suggestions for improvement? (NOTE: More detailed questions will be answered during Phase II).

Where possible, please itemize your final responses in the build 1d phase I review spreadsheet that includes a sheet for both issues and responses to the above questions.