

PDS4 Standards Reference Status

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Overview

- Standards Reference Outline
- Goal
- Progress To-Date
- Review Plan
- Schedule

Standards Reference Outline

I. Introduction

II. Conceptual Composition of an Archive

III. Physical Composition of an Archive

IV. Implementation Conventions

Appendices

Standards Reference Outline

I. Introduction

- PDS Data Policy
- Purpose
- Scope
- Audience
- Document Organization
- Explanation of BNF Notation used in this document
- Other Reference Documents
- External Standards referred to in this document
- PDS Document online availability

Standards Reference Outline

II. Conceptual Composition of an Archive

Describes the nature of the contents of an archive. This includes details on what is expected and the types of information necessary to fully document scientific data.

This information is based on the PDS data model and should remain relatively static even with future changes to PDS standards.

- Summary of Differences from PDS3 (will be removed after a few years)
- Overview of Bundles, Collections, and Products
- Browse Products

Standards Reference Outline

II. Conceptual Composition of an Archive, Cont'd.

- Calibration Data and Information
- Cartographic Standards
- Context Information
- Data Products
- Dictionaries
- Documentation
- Geometry (including SPICE)
- Label Templates / Schemas
- Software (TBD)
- Supplementary Products (DB dumps, errata, gazetteers, updates, etc.)

Standards Reference Outline

III. Physical Composition of an Archive

Describes the physical structure of the archive. This includes the physical structure of the data, the fundamental data types, the relationship of products to files and labels, the organizational structure of the labels, and the required directories and organizational layout of the archive on physical media.

This information is based on the PDS data model and should remain relatively static even if the language used to express PDS labels changes in the future.

Standards Reference Outline

III. Physical Composition of an Archive

- Summary of Differences from PDS3 (will be removed after a few years)
- Directory Contents and Organization
- Product Structure Overview
- Labels
- Fundamental Data Structures
- Data Storage Types

Standards Reference Outline

IV. Implementation Conventions

Describes specific nomenclature and labeling rules that are dependent on current operating system and other technological limitations, and on the choice of XML as the language for expressing our data model.

The information in this section hopefully represents the only text in the Standards Reference that will have to be manually updated based upon future changes to PDS standards in response to technological improvements or selection of a different labeling language.

Standards Reference Outline

IV. Implementation Conventions

- Summary of Differences from PDS3 (will be removed after a few years)
- Nomenclature rules for identifiers, versions, directories, filenames, classes, attributes, values, etc.
- XML Usage in PDS
- Schemas in PDS

Standards Reference Outline

Appendices

Provides a listing of all the object classes in the PDS data model. Each listing will include a brief textual description, a tabular outline of the class, the XML schema for the class, and a portion of an XML label containing an example of the class.

This section of the Standards Reference will be generated automatically directly from the PDS data model. It will be updated every time there is a change to the model, but updates should require minimal effort and will be completely synchronized with the model (and therefore the PDS Dictionary).

Standards Reference Outline

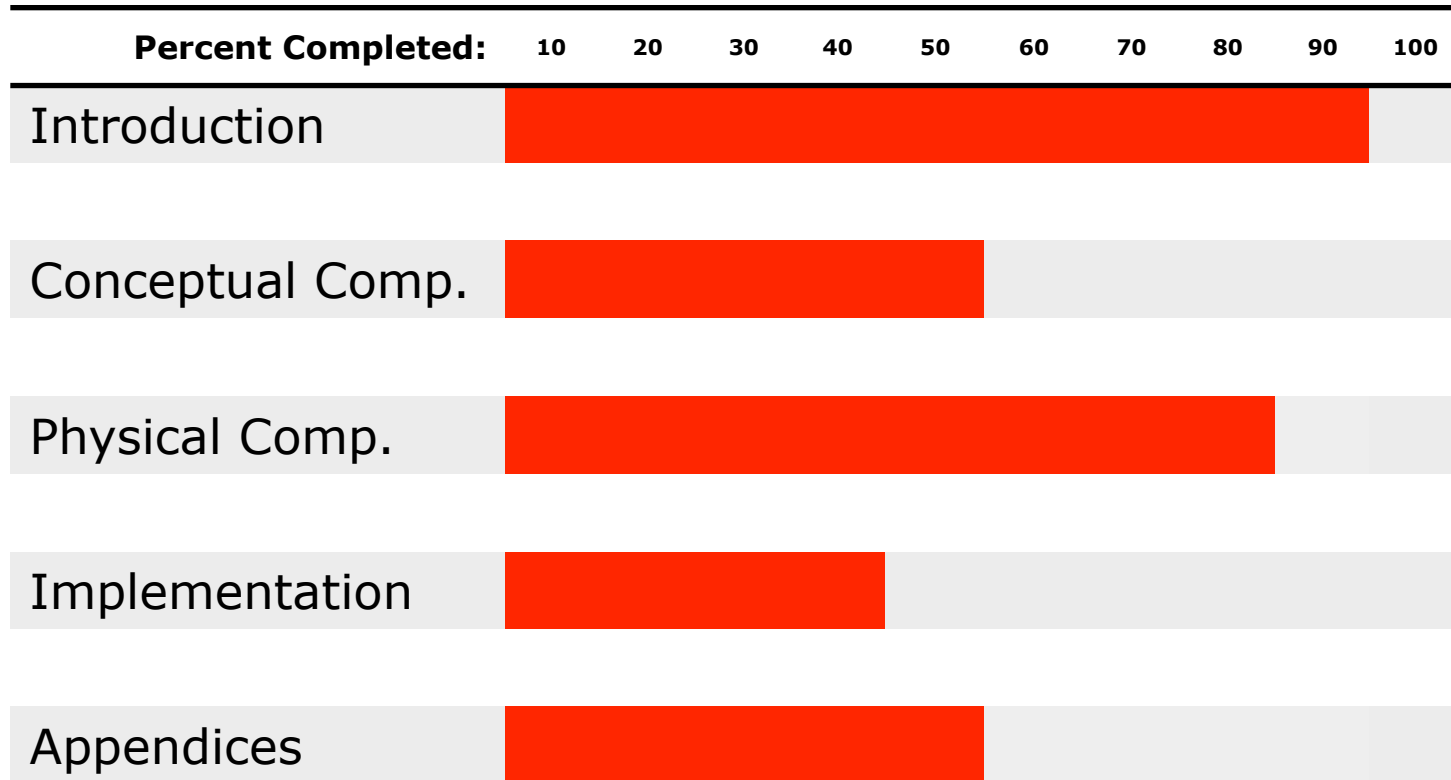
Appendices

- Digital Object Classes (ex. Image_Grayscale, Table_Character)
- Physical Object Classes (ex. Instrument, Target)
- Conceptual Object Classes (ex. History, Map_Projection)

Goal

- to release Standards Reference v4.0 beta with build 1 of the PDS4 system, in Oct. 2010
 - Beta version: complete enough for data providers to start creating trial PDS4 products and archive sets
 - Final version: will incorporate feedback from data preparers and members of the PDS, as well as ongoing DDWG work

Progress To Date



Review Plan

- individual sections will be posted online, as they become available
 - specific people will be asked to review particular sections
 - all posted sections will be available for preliminary review by all DDWG members
- final DDWG review, with discussion at Sept. 9(?) telecon
- after revisions based on DDWG feedback, document will be made available for MC

Schedule

- Sept. 6 – 10, 2010 – final DDWG review
- Sept. 20 – 24, 2010 – MC review
- October, 2010 – Release beta v4.0
- October, 2011 – Release final v4.0

Supplemental