

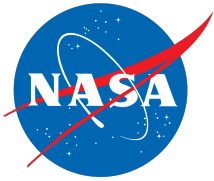


PDS4 Operational Readiness Review

PDS4 Standards Documentation

S. Hughes
Engineering Node

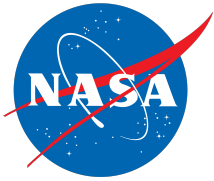




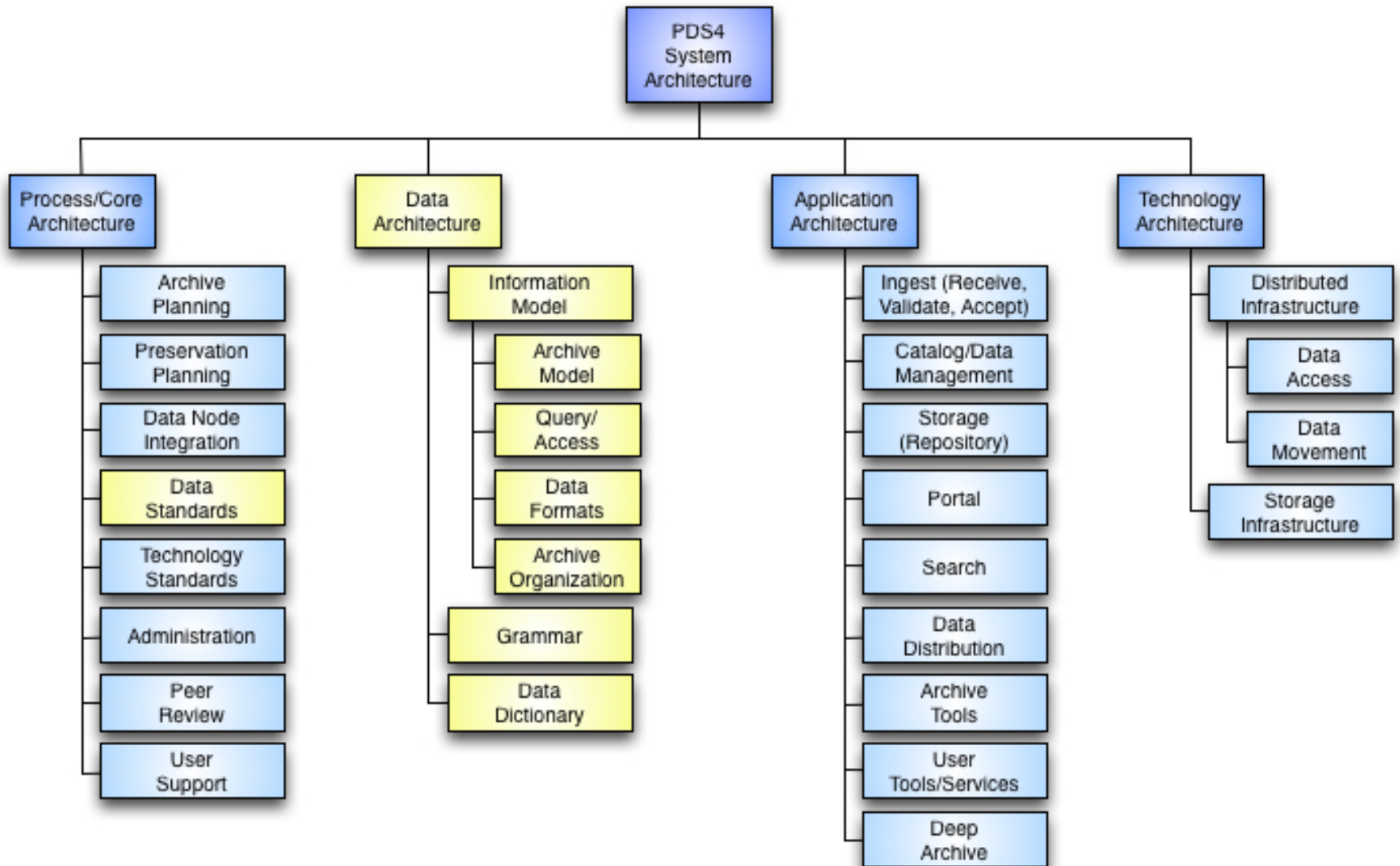
Topics

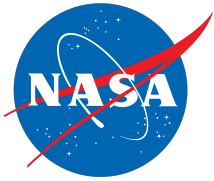


- Introduction
- Key Requirements and Drivers
- Status
- Conclusion



PDS4 Architecture





Build 3b Deliverables*



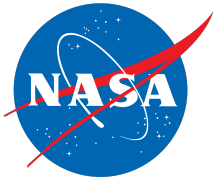
- Software System

- Registry Service
- Harvest Tool
- Validate Tool *
- Security Service
- Report Service
- Search Service
- Catalog Ingest Tool
- Upgraded portal search and page views to support PDS4

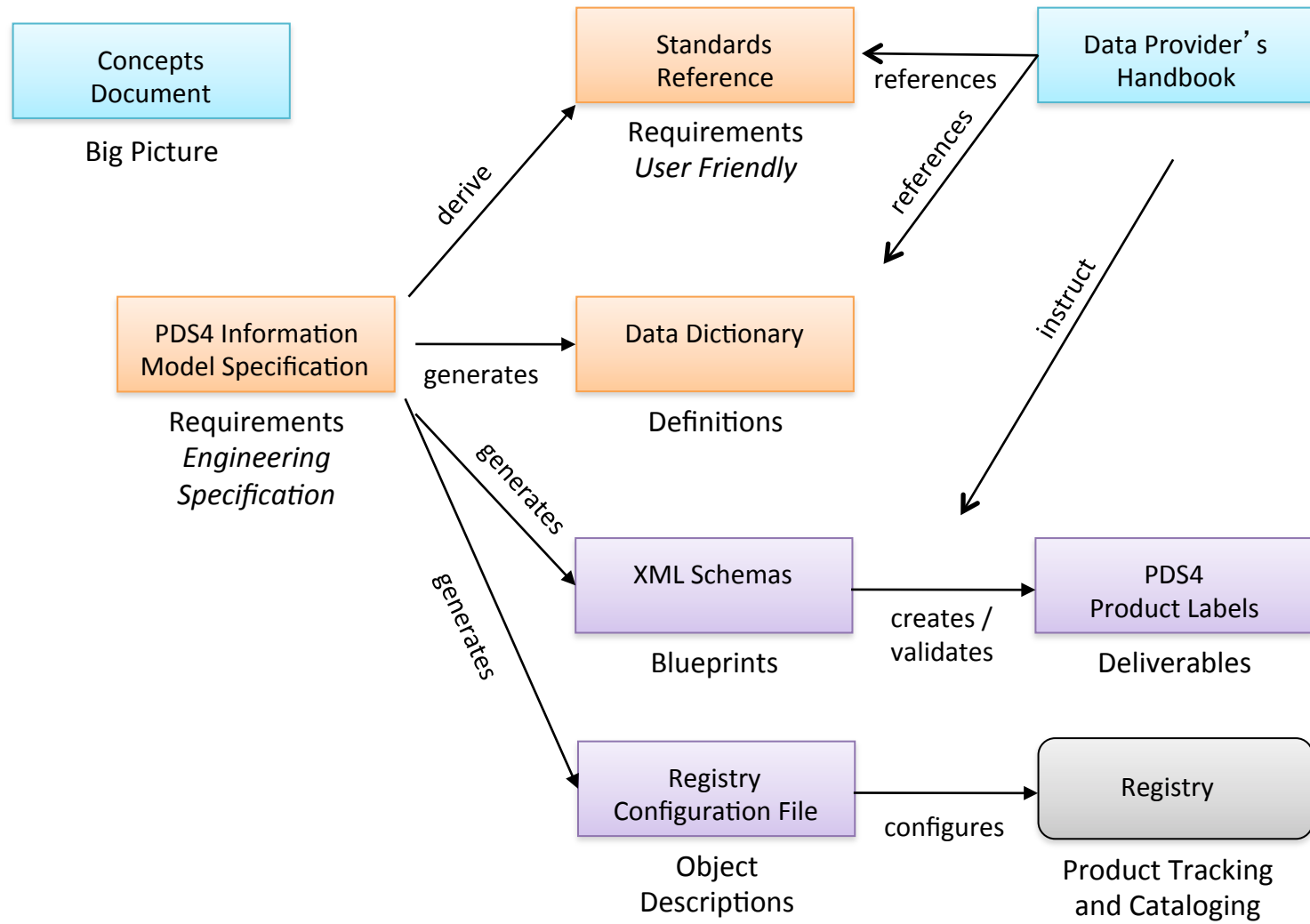
- Data Standards*

- Information Model
- XML Schemas
- Data Dictionary
- Concepts Document
- Standards Reference
- Data Providers Handbook
- PDS4 Example Products

* Posted to <http://pds.nasa.gov/pds4>



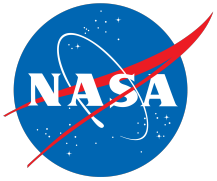
PDS4 Documents, Artifacts, and their Relationships



Legend

- Informative Document
- Standards Document
- File
- System

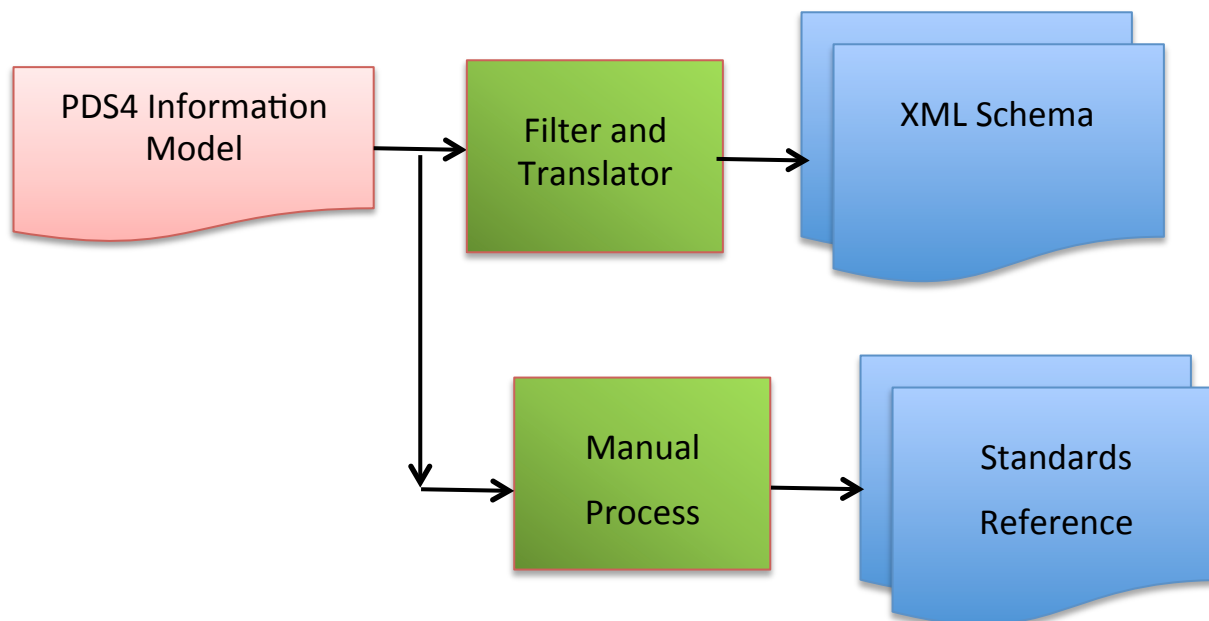
Jet Propulsion Laboratory
California Institute of Technology

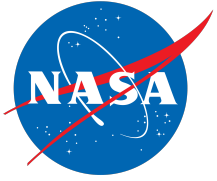


Data Standards Document Production Process



- The model is used as the single source for the PDS4 Data Standards.
 - Automatically generated documents.
 - Manually written documents.

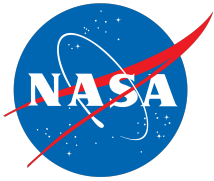




Topics



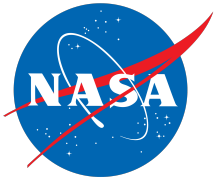
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Key Requirements



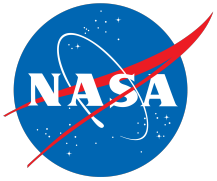
REQUIREMENT	IMPLEMENTATION
1.3.X – Provide Data Dictionary	<ul style="list-style-type: none">• The PDS4 data dictionary database was developed and is compliant with the ISO/IEC 11179 specification.• It is used to produce both data dictionary documents and data dictionary products for the registry and data dictionary service.
1.4.2 PDS will maintain a dictionary of terms, values, and relationships for standardized description of planetary science data	<ul style="list-style-type: none">• The PDS4 Data Dictionary defined the attributes, classes, and relationships for defining planetary science data.



Topics



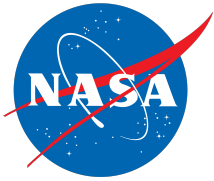
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PDS4 Data Standards Documentation Manually Generated



<i>Document</i>	<i>Purpose</i>	<i>Review and Status</i>	<i>In ToR</i>
Concepts Document	<ul style="list-style-type: none">• Introduction to PDS4 key concepts — the view from 10,000 feet, avoiding gory details.	<ul style="list-style-type: none">• The V1.0.0.0 release is sufficient.	<ul style="list-style-type: none">• Yes
Data Provider's Handbook	<ul style="list-style-type: none">• A cookbook to guide data providers step-by-step through the process of developing an archive.	<ul style="list-style-type: none">• The V1.0.0.0 release is sufficient.	<ul style="list-style-type: none">• Yes
Standards Reference	<ul style="list-style-type: none">• A fundamental reference documents for PDS4.	<ul style="list-style-type: none">• The V1.0.0.0 release is sufficient except for an MC approved note about the restricted role of Headers.	<ul style="list-style-type: none">• Yes

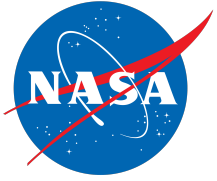


PDS4 Data Standards Documentation Automatically Generated



<i>Document</i>	<i>Purpose</i>	<i>Review and Status</i>	<i>In ToR</i>
Information Model	<ul style="list-style-type: none">This document provides details on the design of the Information Model.	<ul style="list-style-type: none">All changes required to the common model for MAVEN have been reviewed and approved by the CCB*. The changes have been implemented.	<ul style="list-style-type: none">Yes
Data Dictionary	<ul style="list-style-type: none">A fundamental reference documents for PDS4.	<ul style="list-style-type: none">The data dictionary is generated from the Information Model.	<ul style="list-style-type: none">Yes
Schema and Schematron Files	<ul style="list-style-type: none">These documents provide the templates and validation rules for PDS4 product labels.	<ul style="list-style-type: none">These XML documents are generated from the Information Model.	<ul style="list-style-type: none">Yes
Example Products	<ul style="list-style-type: none">A set of products, collections, bundles, and packages that illustrates design concepts and goals. Frequently referenced by the Data Provider's Handbook.	<ul style="list-style-type: none">The existing examples cover the product types to be used by LADEE and MAVEN.	<ul style="list-style-type: none">Yes

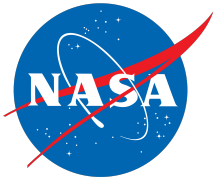
* - Primary Result Summary ready for review by the CCB.



Topics

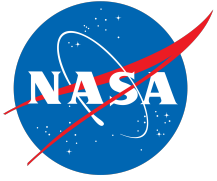


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Conclusion

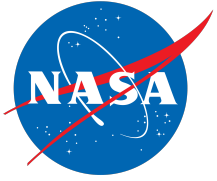
- All documents automatically generated from the *information model* will reflect the latest changes when V1.1 is released.
- All documents are under configuration management.
 - *Documents posted to the PDS Version 4 Documents and Schema Site*
 - *PDS4 Documents:* <http://pds.nasa.gov/pds4>



Thank You

Questions and Answers





Backup

