Namespace Dictionaries Part 2

Ingest_LDD → LDDTool

LDD.xsd

LDD.sch

LDD.xml

...

And a bunch of supplemental files (JSON. Log, etc.)

Major Themes

- Versioning & Provenance
- Build & Release
- Development & Configuration Control

- 1. Track the development history of a dictionary, independent of IM development
- 2. Track the IM development history
- 3. Ensure all dictionaries referenced in a single label are part of the same IM version
- 4. Locate dictionaries belonging to a specific IM version

- 1. Track the development history of a dictionary, independent of IM development
- 2. Track the IM development history

Ingest_LDD

	Entity	Card	Value/Class	Ind
Hierarchy	Tagged_NonDigital_Object			
	. TNDO_Supplemental			
	Ingest_LDD			
Subclass	none			
Attribute	comment	01		
	external_property_maps_id	0*		
	full_name	1		
	last_modification_date_time	1		
	ldd_version_id	1		
	<u>name</u>	1		
	namespace_id	1		
	steward_id	1		
Inherited Attribute	none			
Association	data_object	1	Conceptual_Object	
	has_Property_Maps	0*	Property_Maps	
	local_attribute	0*	DD_Attribute	
	local_class	0*	DD_Class	
	local_rule	0*	DD_Rule	
Inherited Association	none			

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Schema Page

• PDS (pds)

This directory contains the XML Schema and Schematron files under the Planetary Data System (PDS) namespace.

- Version v1 (1.9.0.0) September 29, 2017
 - PDS4 PDS 1900.xsd
 - PDS4 PDS 1900.sch
 - PDS4 PDS 1900.xml
 - PDS4_PDS_JSON_1900.JSON
 - PDS4_PDS_JSON_1900_DOM.JSON
- PDS4 PDS OWL 1900.rdf

All Releases

The following directories represent namespaces within PDS4 and contain the released XML Schema and Schematron files:

Alternate (alt)

This directory contains the XML Schema and Schematron files under the Alternate namespace.

- Version v1 (1.4.0.0) May 14, 2015
 - PDS4 ALT 1000.xsd
 - PDS4 ALT 1000.sch
 - PDS4 ALT 1000.xml
 - PDS4_ALT_1000.zip

Atmospheres (atm)

This directory contains the XML Schema and Schematron files under the Atmospheres namespace.

• Cartography (cart)

This directory contains the XML Schema and Schematron files under the Cartography namespace.

- Version v1 (1.7.0.0) January 1, 2017
 - PDS4 CART 1700.xsd
 - PDS4 CART 1700.sch
 - PDS4 CART 1700.xml
- Version v1 (1.6.0.0) October 19, 2016
 - PDS4 CART 1600.xsd
 - PDS4 CART 1600.sch
- PDS4_CART_1600 vml

- 3. Ensure all dictionaries referenced in a single label are part of the same IM version
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- Require all LDDs be built using LDDTool with no additional hand editing.
- Generate new version of each discipline dictionary with each update of the core dictionary.
- Reorganize schema page, by IM number, not dictionaries

Build & Release - Wants

- 1. Discipline dictionaries released simultaneously with the core IM.
- 2. Discipline dictionary references to the IM version namespace managed at build time.
- 3. Stewards have to meet build deadlines only when they have a new dictionary being included, or substantive changes to make to an existing dictionary.
- 4. Stewards submit the Ingest_LDD file only the build and release happens automatically.

Solutions?

Development & Configuration Control - Wants

- 1. All users (internal and external) need a problem reporting mechanism for the core IM and all discipline dictionaries (and related software).
- 2. Discipline dictionaries should be included in impact assessments for all proposed changes or additions to the core IM.
- 3. Changes and enhancements to discipline dictionaries should be trackable.
- 4. Discipline dictionaries should be as rigorous in validation as the core IM.

Solutions?