Release Notes

PD4 Information Model Version 1.C.0.0

Build 9b Release

March 31, 2018

These notes detail the changes made to the PDS4 Information Model and contained in Release 1.C.0.0. These changes include those approved by the CCB since Version 1.B.0.0 and bug fixes since Version 1.B.0.0. The released documents include:

1. index_1C00.html – Information Model Specification
2. PDS4_PDS_1C00.xsd – Common Schema
3. PDS4_PDS_1C00.sch – Common Schematron
4. PDS4_PDS_1C00.xml – Label for Common Schema and Schematron
5. PDS4_PDS_DD_1C00.html – Data Dictionary (html)
6. PDS4_PDS_DD_1C00.pdf – Data Dictionary (pdf)
7. PDS4_PDS_JSON_1C00.JSON – Information Model (JSON)

CCB approved changes made since the release of the prior version of the Information Model

1. CCB-195 - Update Information Model to Improve International Interoperability
2. CCB-202 - Amend the Instrument class context product
3. CCB-203 - Define and enforce constraints on local dictionaries to avoid confusion with key pds: namespace attributes.
4. CCB-214 - Optional trailing zeroes in ASCII_Real for Table_Character
5. CCB-227 - Missing Requirements in Source_Product_External
6. CCB-235 - Add data type ASCII_BibCode
7. CCB-238 - Need the capability to associate Thumbnail products to other types of products
8. CCB-240 - Add Units_of_Energy as a unit of measure.
9. CCB-242 - Add 'Field Campaign' to Investigation Type
10. CCB-243 - Consolidate Context Target Types for Samples
11. CCB-245 - Deprecate 'Airborne' as an independent host type
12. CCB-246 - Deprecate 'Sun' as a separate context target.
13. CCB-247 - Undeprecate "Radio Science" as a Value for Instrument.type

14. CCB-248 - Bundle_Member_Entry is missing a reference_type for miscellaneous collections

Bug Fixes and other Changes

1. Removed the Imaging class <Telemetry_Parameters> from the IM master database.
2. Removed the Geometry class <Geometry> from the IM master database.
3. Removed the Cartography class <Cartography> from the IM master database.
4. Add Imaging Units_of_Pixel_Scale_Map to <DD_Value_Domain. unit_of_measure_type>
5. Made line endings consistent for XML Schema file.

LDDTool Changes

1. The formation rule for LDDTool output filenames is now "PDS4", namespace_id, IM version id, and LDD version id.
2. Removed (-s - synchronize) command line option. (subsumed by filename change above)
3. Added the following validation for IngestLDD:
    a. No local dictionary may define a class called Internal_Reference.
    b. No local dictionary may define a class called Local_Internal_Reference.
    c. No local dictionary may define an attribute called logical_identifier.
    d. No local dictionary may define an attribute called local_identifier.
    e. Attribute titles must begin with a lower case letter.
    f. Class names must begin with an upper case letter.
    g. Each LDD must expose one class for external reference (element_flag = true)
    h. At least one value for pds:local_reference_type must be defined for each Internal_Reference.
    i. At least one value for pds:local_reference_type must be defined for each Local_Internal_Reference.
4. Removed data type error for "ANAME".
5. Set the DocBook (DD) team name from the Configuration File.
6. Hide classes that are inactive by setting disposition file to "I".