

Release Notes

PD4 Information Model Version 1.2.0.0

Build 4b Release

March 18, 2014

These notes detail the changes made to the PDS4 Information Model and contained in Release 1.2.0.0. These changes include those approved by the CCB since Version 1.1.0.0 and bug fixes since Version 1.1.0.1. The released documents include an XML Schema file, Schematron file, data dictionary, and an information model specification document.

CCB/MC approved changes made since the release of Version 1.1.0.0

1. CCB-46 – New Products.
 - a. Add Product_Native for InSight/SEIS SEED data format
2. CCB-30 - Create a new Local_Internal_Reference class
3. CCB-41 - (Part 2) - Add three schematron rules for checking that both fields and groups are not zero in table record definitions - <Record_*>
4. CCB-22 – Adopt Rules for Case of Enumerated Values - (Part 2) – Telescope.coordinate_source values, carriage return line feed, etc. - (Part 1 done for V1.1.0.0) attribute_concept and conceptual_domain - (Part 3 – Resolved that no changes are necessary) - Steward_id
5. CCB-20 - Correct Minor Errors in Enumerated Values
 - Instrument.type - Deprecate “X-ray Fluorescence”, “Thermal And Electrical Conductivity Probe”, "Grinding And Drilling Tool".
 - Replace X-ray Defraction Spectrometer with X-ray Diffraction Spectrometer; Alpha Particle Xray SpectrometerwithAlpha with Particle X-Ray Spectrometer
 - Add "Grinding Tool" and "Drilling Tool" to the list of enumerated values with definitions
 - Replace Encoded_Binary.encoding_standard_id “CCSDS Communications Protocols” with “CCSDS Space Communications Protocols”
 - Replace Node.name Navigation Ancillary Information Facility with Navigation and Ancillary Information Facility
 - Replace PDS_Affiliate.team_name Navigation Ancillary Information Facility with Navigation and Ancillary Information Facility

6. CCB-29 - Deprecate Display_2D_Image class
7. Add Display Dictionary.

Bug Fixes

1. Add "parent_of" to replace "subclass_of", "extension_of" and "restriction_of" in <DD_Association> and <DD_Association_External>
2. Delete duplicate permissible value 'collection_to_associate' from pds:Product_Collection.pds:Reference_List.pds:Internal_Reference.
3. Replace "pds.jpl.nasa.gov/pds4/schema/released/" with "pds.nasa.gov/pds4/" in the PDS4 label for the schema and schematron files.
4. Add schematron rule to check that the pds:File/pds:file_size unit = 'byte'
5. Restrict schematron rule pds:Target_Identification/pds:Internal_Reference to pds:Product_Observational/pds:Observation_Area/pds:Target_Identification/pds:Internal_Reference to eliminate conflict with similar associated with pds:Document.
6. remove dangling schematron rules for Discipline_Facets, Group_Facet1, and Group_Facet2
7. replace the message "In Product_Collection a description is required in Citation_Information." with "In Product_Bundle both Citation_Information and its description are required." for the schematron rules associated with Product_Bundle, Product_Collection, Product_Document, and Product_Text_File.
8. add the reference_types investigation_to_instrument_host, investigation_to_instrument, instrument_host_to_instrument, target_to_instrument_host, target_to_instrument, target_to_investigation to pds:Product_Context/pds:Reference_List/pds:Internal_Reference.
9. add schematron rule to validate that the names of the first and second axis of an Array_2D_Image must be set to Line and Sample.
10. add 'Product_Native' to the test for Product_Class.
11. deprecate 'carriage-return line-feed' from Checksum_Manifest, Inventory, Transfer_Manifest
12. remove extraneous blank from value of "restriction_of " in DD_Association/reference_type
13. replaced 'CSSDS' with 'CCSDS' in Encoded_Telemetry
14. replace 1 with 0 in "must be greater than 1" for validating number of characters in Citation_Information.description
15. - create simpleType definitions for all attributes
16. - change data type of definition from ASCII_Text_Preserved to UTF8_Text_Preserved
17. - change data type of description from ASCII_Text_Preserved to UTF8_Text_Preserved
18. - change data type of name from ASCII_Short_String_Collapsed to UTF8_Short_String_Collapsed
19. - change data type of comment from ASCII_Short_String_Collapsed to ASCII_Text_Preserved (disp)
20. - deprecate Data_Set_PDS3.pds.start_date_time and add start_time
21. - deprecate Data_Set_PDS3.pds.stop_date_time and add stop_time

22. - deprecate version_id and add instrument_host_version_id in Instrument_Host and software_version_id in Software
23. write Product_XML_Schema label version_id as m.n, where m is the first digit of the information_model_version and n is the sequence number of this release within m.
24. fix bug - missing schematron rule - Record_Character/record_length/@unit to be 'byte'
25. deprecate the class band_bin
26. fix namespace for display schematron rule