

# Release Notes

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## **PD4 Information Model Version 1.2.0.1**

### **Build 4b Release**

March 28, 2014

These notes detail the changes made to the PDS4 Information Model and contained in Release 1.2.0.1. These changes include bug fixes for Release 1.2.0.0. The released documents include an XML Schema file, Schematron file, data dictionary, and an information model specification document.

#### **Bug Fixes**

1. Add "Product\_Native" to schematron rule for value product names.
2. Change maximum value from 1 to 1.0 for attribute.

--- Changes for V1.2.0.0 ---

### 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

4. Add “parent\_of” to replace “subclass\_of”, “extension\_of” and “restriction\_of” in <DD\_Association> and <DD\_Association\_External>
5. Delete duplicate permissible value 'collection\_to\_associate' from pds:Product\_Collection.pds:Reference\_List.pds:Internal\_Reference.
6. Replace "pds.jpl.nasa.gov/pds4/schema/released/" with "pds.nasa.gov/pds4/" in the PDS4 label for the schema and schematron files.
7. Add schematron rule to check that the pds:File/pds:file\_size unit = 'byte'
8. 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.
9. remove dangling schematron rules for Discipline\_Facets, Group\_Facet1, and Group\_Facet2

10. 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.
11. 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.
12. 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.
13. add 'Product\_Native' to the test for Product\_Class.
14. deprecate 'carriage-return line-feed' from Checksum\_Manifest, Inventory, Transfer\_Manifest
15. remove extraneous blank from value of "restriction\_of " in DD\_Association/reference\_type
16. replaced 'CSSDS' with 'CCSDS' in Encoded\_Telemetry
17. replace 1 with 0 in "must be greater than 1" for validating number of characters in Citation\_Information.description
18. - create simpleType definitions for all attributes
19. - change data type of definition from ASCII\_Text\_Preserved to UTF8\_Text\_Preserved
20. - change data type of description from ASCII\_Text\_Preserved to UTF8\_Text\_Preserved
21. - change data type of name from ASCII\_Short\_String\_Collapsed to UTF8\_Short\_String\_Collapsed
22. - change data type of comment from ASCII\_Short\_String\_Collapsed to ASCII\_Text\_Preserved (disp)
23. - deprecate Data\_Set\_PDS3.pds.start\_date\_time and add start\_time
24. - deprecate Data\_Set\_PDS3.pds.stop\_date\_time and add stop\_time
25. - deprecate version\_id and add instrument\_host\_version\_id in Instrument\_Host and software\_version\_id in Software
26. 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.
27. fix bug - missing schematron rule - Record\_Character/record\_length/@unit to be 'byte'
28. deprecate the class band\_bin
29. fix namespace for display schematron rule