

# Release Notes

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## **PD4 Information Model Version 1.6.0.0**

### **Build 6b Release**

March 31, 2016

These notes detail the changes made to the PDS4 Information Model and contained in Release 1.6.0.0. These changes include those approved by the CCB since Version 1.5.0.0 and bug fixes since Version 1.5.0.0. The released documents include:

1. index\_1600.html – Information Model Specification
2. PDS4\_PDS\_1600.xsd – Common Schema
3. PDS4\_PDS\_1600.sch – Common Schematron
4. PDS4\_PDS\_1600.xml – Label for Common Schema and Schematron
5. PDS4\_PDS\_DD\_1600.html – Data Dictionary (html)
6. PDS4\_PDS\_DD\_1600.pdf – Data Dictionary (pdf)
7. PDS4\_PDS\_JSON\_1600.JSON – Information Model (JSON)
8. PDS4\_PDS\_SKOS\_1600.ttl – Information Model (SKOS)
9. PDS4\_DISP\_1600.xsd – Display LDD Schema
10. PDS4\_DISP\_1600.sch – Display LDD Schematron
11. PDS4\_DISP\_1600.xml – Label for Display Schema and Schematron

### **CCB approved changes made since the release of Version 1.5.0.0**

1. CCB-58 - IM Clean-up in Light of New Policy on Acceptable PDS4 Data Formats
2. CCB-59 - Update pattern Definition, Enumerated Values, and Their Definitions
3. CCB-66 - Refine value domain definitions for ASCII\_Numeric\_Base2 and ASCII\_Numeric\_Base8 data types
4. CCB-89 - Check that data\_type and field\_length are consistent.
5. CCB-93 - Implement Versioning for Class Definitions
6. CCB-121 - Information Model Specification Errors in Product\_Collection.Collection
7. CCB-126 - Incorrect Validation of Inventory Class by Validation Software
8. CCB-127 - Missing Reference Type for Product\_Native
9. CCB-128 - DD description of Exponential and Logarithmic uniformly sampled data needs improvement.

10. CCB-129 - Implement PDS4 Query Models
11. CCB-134 - Add New Value for Type in Observing\_System\_Component
12. CCB-137 - Add Lunar Sample and Synthetic Sample to Target\_Identification/type.
  - Values were also added to <Target.type>
  - "Calibration" was added to <Target.type> - Cleanup
13. CCB-146 - URN Prefix for the Russian Space Agency
14. CCB-147 Bug fixes for Version 1.6.0.0
15. CCB-148 - Add "Weather Station" to the enumerated list of permissible values for attribute <Instrument.type>.

## Bug Fixes

1. Anomaly Report - S. Slavney - LDDTool Puzzle - Definitions are missing from the output insight\_ingest\_ldd\_insight\_0512.xsd - The attribute descriptions were not being written for attributes defined with nil-reason. (both common and LDD)
2. Cleaned up permissible value "ASCII\_Date\_Time\_DOY\_UTC " for <field\_delimited.data\_type> - Removed trailing space.
3. Removed an erroneous pattern for yymmdd from ASCII\_Date\_Time\_DOY and ASCII\_Date\_Time\_DOY\_UTC.
4. Replaced MS hyphen with ASCII hyphen in the value meaning for the value "LZIP" in the attribute <Zip.container\_type>.
5. Changed <Telescope.telescope\_altitude> data type from ASCII\_Short\_String\_Collapsed to ASCII\_Real; added Units\_of\_Length as the Unit of Measure Type.
6. Added "Calibration" to <Target.type> while making the changes associated with CCB-137. "Calibration" had been added to Target\_Identification/type but not <Target.type>.
7. Add instance attribute <Telescope.data\_object> with reference to Physical\_Object; Add instance attribute <Service.data\_object> with reference to Conceptual\_Object.