

# Release Notes

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## PD4 Information Model Version 1.16.0.0 (1.G.0.0)

### Build 11.1 Release

April 23, 2021

These notes detail the changes made to the PDS4 Information Model and contained in Release 1.16.0.0 (1.G.0.0). These changes include those approved by the CCB since Version 1.15.0.0 and bug fixes since Version 1.15.0.0. The released documents include:

1. index\_1G00.html – Information Model Specification
2. PDS4\_PDS\_1G00.xsd – Common Schema
3. PDS4\_PDS\_1G00.sch – Common Schematron
4. PDS4\_PDS\_1G00.xml – Label for Common Schema and Schematron files
5. PDS4\_PDS\_DD\_1G00.html – Data Dictionary (html)
6. PDS4\_PDS\_DD\_1G00.pdf – Data Dictionary (pdf)
7. PDS4\_PDS\_JSON\_1G00.JSON – Information Model (JSON)

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

1. CCB-204 - Type attribute validation - reclassify Error message as a Warning message
2. CCB-264 - Make the Line Feed (LF) character an allowed record delimiter
3. CCB-300 - Apparently deprecated units of measure are not actually deprecated.
4. CCB-302 - No <reference\_type> values defined in DD\_Attribute or DD\_Class contexts
5. CCB-304 - Cleanup unused Vector classes in IM before 2.0.0.0
6. CCB-305 - Missing validation constraint on <specified\_unit\_id>.
7. CCB-311 - Value meanings for <rule\_type> permissible values should be rewritten
8. CCB-313 - Definition of <external\_source\_product\_identifier> refers to non-existent documentation.
9. CCB-315 - PDS3 is an allowed parsing standard for Bundle documentation file
10. CCB-318 - Fix error in schema formation rule for lidvid\_reference - \* Withdrawn \*
11. CCB-319 - Add 'ns' – The abbreviated unit for 'Units\_Time' ( $1/10^9$  s)
12. CCB-320 - Add 'W/m\*\*2/sr/nm/(DN/s)' under Units\_of\_Misc
13. CCB-328 - Inconsistency in <title> type definition

## Bug Fixes and other LDDTool Changes

1. 104 - LDDTool: Enable to ability to set custom namespace base URI in IngestLDD
2. 143 - Test for CCB-268 Add optional attribute to class <Terminological\_Entry>
3. 170 - LDDTool: DocBook generation does not work from any file system location
4. 175 - LDDTool: Displaying invalid Imaging Discipline Classes
5. 186 - PDS4\_PDS\_1E00.sch inconsistent rules for type of Investigation vs Investigation\_Area
6. 233 - Add new namespace "NUCSPEC"
7. 234 - Add new namespace "SURVEY"
8. 235 - Incorrect error messages for DD\_Associate\_External\_Class
9. 245 - Add new namespace "<chan1>"
10. 266 - LDDTool - Throw WARNING message when enumeration\_flag = false but enumerations are specified
11. 267 - Add Namespace ID: HYB2 - Hayabusa2
12. 271 - LDDTool forces use of LDD versions based upon config
13. 273 - Complete the implementation of CCB-317.
14. 277 - LDD versionId list in the Data Dictionary Document introduction does not contain valid versionIds
15. 280 - LDDTool - CSV files fail to escape double quotes.
16. 283 - LDDTool generated LIDs for XML Schema Label Products do not contain IM or LDD Version Ids
17. 293 - Update JSON output to include dependencies in output
18. 298 - Add title to Rule Assertion to allow generation of regression tests
19. 301 - LDDTool does not generate the correct namespace for PSA dictionaries
20. 302 - LDDTool does not allow the bundle to be specified for generated dictionaries
21. 304 - LDDTool - Two Stacked Mission LDDs result in a XML Schema file that is missing the PSA namespace declaration
22. 312 - LDDTool does not generate the complete "All LDD" version of the WebHelp PDS4 Data Dictionary Document
23. 319 - Namespace Updates - add new namespace "multi"
24. 331 - LDDTool Invalid output schema when trying to set an Internal\_Reference reference\_type value set
25. 338 - Add the LDD Version Identifier to the generated JSON file.