

<b>Status:</b>	Closed
<b>Project:</b>	<a href="#">PDS4 Standards Change Control Board</a>
<b>Component/s:</b>	<a href="#">Information Model</a>
<b>Affects Version/s:</b>	<a href="#">1.1.0.0</a>
<b>Fix Version/s:</b>	None

<b>Type:</b>	Enhancement / Improvement	<b>Priority:</b>	Normal / Non-urgent
<b>Reporter:</b>	<a href="#">Ronald Joyner</a>	<b>Assignee:</b>	<a href="#">Emily Law</a>
<b>Resolution:</b>	Queued as Software Implementation		
<b>Labels:</b>	Implemented_and_Released		
<b>Remaining Estimate:</b>	Not Specified		
<b>Time Spent:</b>	Not Specified		
<b>Original Estimate:</b>	Not Specified		

<b>Proposed Solution:</b>	<p>Add the following Schematron rule to the context for Identification_Area to ensure consistency:</p> <pre>&lt;sch:assert test="pds:product_class = local-name(/*)"&gt;   The attribute pds:product_class must match parent product class of '&lt;sch:value-of select="local-name(/*)" /&gt;'. &lt;/sch:assert&gt;</pre>
<b>Dependencies / Contingencies:</b>	<p>Requested by PPI.</p> <p>The modified schematron rule includes the change requested by <a href="#">CCB-11</a>.</p>
<b>Additional Information:</b>	None
<b>Requested Changes:</b>	<p>The modified schematron rule for &lt;Identification_Area&gt; follows:</p> <pre>&lt;sch:pattern&gt;   &lt;sch:rule context="pds:Identification_Area"&gt;     &lt;sch:assert test="pds:product_class = local-name(/*)"&gt;       The attribute pds:product_class must match parent product class of '&lt;sch:value-of select="local-name(/*)" /&gt;'.     &lt;/sch:assert&gt;</pre>

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<sch:assert test="pds:logical_identifier eq lower-case(pds:logical_identifier)">
  The value of the attribute logical_identifier must only contain lower-case letters' </sch:assert>

<sch:assert test="if (pds:logical_identifier) then starts-with(pds:logical_identifier,'urn:nasa:pds:') else true()">
  The value of the attribute logical_identifier must start with 'urn:nasa:pds:' </sch:assert>
<sch:assert test="if (pds:logical_identifier) then not(contains(pds:logical_identifier,'::')) else true()">
  The value of the attribute logical_identifier must not include a value that contains '::' </sch:assert>
<sch:assert test="if (pds:product_class) then pds:product_class = ('Product_AIP', 'Product_Attribute_Definition',
'Product_Browse', 'Product_Bundle', 'Product_Class_Definition', 'Product_Collection', 'Product_Context', 'Product_DIP',
'Product_DIP_Deep_Archive', 'Product_Data_Set_PDS3', 'Product_Document', 'Product_File_Repository',
'Product_File_Text', 'Product_Instrument_Host_PDS3', 'Product_Instrument_PDS3', 'Product_Mission_PDS3',
'Product_Observational', 'Product_Proxy_PDS3', 'Product_SIP', 'Product_SPICE_Kernel', 'Product_Service',
'Product_Software', 'Product_Subscription_PDS3', 'Product_Target_PDS3', 'Product_Thumbnail', 'Product_Update',
'Product_Volume_PDS3', 'Product_Volume_Set_PDS3', 'Product_XML_Schema', 'Product_Zipped') else true()">
  The attribute pds:product_class must be equal to one of the following values 'Product_AIP',
'Product_Attribute_Definition', 'Product_Browse', 'Product_Bundle', 'Product_Class_Definition', 'Product_Collection',
'Product_Context', 'Product_DIP', 'Product_DIP_Deep_Archive', 'Product_Data_Set_PDS3', 'Product_Document',
'Product_File_Repository', 'Product_File_Text', 'Product_Instrument_Host_PDS3', 'Product_Instrument_PDS3',
'Product_Mission_PDS3', 'Product_Observational', 'Product_Proxy_PDS3', 'Product_SIP', 'Product_SPICE_Kernel',
'Product_Service', 'Product_Software', 'Product_Subscription_PDS3', 'Product_Target_PDS3', 'Product_Thumbnail',
'Product_Update', 'Product_Volume_PDS3', 'Product_Volume_Set_PDS3', 'Product_XML_Schema', 'Product_Zipped'.
</sch:assert>
  <sch:assert test="if (pds:information_model_version) then pds:information_model_version = ('1.0.0.0') else true()">
    The attribute pds:information_model_version must be equal to the value '1.0.0.0'. </sch:assert>
  </sch:rule>
</sch:pattern>

```

**Impact Statement:**

Impact:

-- Information Model -- add schematron rule

No Impact:

- APG
- Concepts Document
- DPH
- External Agencies
- ISO Standards
- PDS Tools
- PDS Website

-- PAG  
-- Standards Reference

**System Impact:** backwards compatible

### Description

The "product\_class" element provides the name of the product class and is contained in the Identification\_Area within a product description. The container of the Identification\_Area is the product class. When properly defined the value of product\_class matches the name of the containing class. Currently there is no consistency check for the value of product\_class. This can lead to misinformation being introduced into catalogs and search engines.

### Comments

Comment by [Ronald Joyner](#) [ 17/Jul/13 ]

CCB categorized this SCR as a 'software change'. CCB also approved SCR for implementation

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