

<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>Modify current schematron rule set to add an additional rule to ensure &lt;lid_reference&gt; value doesn't contain version information.</p> <p>The current schematron rule follows:</p> <pre>&lt;sch:pattern&gt;   &lt;sch:rule context="pds:Internal_Reference"&gt;     &lt;sch:let name="lid_num_colons" value="string-length(pds:lid_reference) - string-length(translate(pds:lid_reference, ':', ''))"/&gt;     &lt;sch:let name="lidvid_num_colons" value="string-length(pds:lidvid_reference) - string-length(translate(pds:lidvid_reference, ':', ''))"/&gt;     &lt;sch:let name="lid_min_required_colons" value="3"/&gt;     &lt;sch:let name="lid_max_required_colons" value="5"/&gt;     &lt;sch:let name="lidvid_min_required_colons" value="5"/&gt;     &lt;sch:let name="lidvid_max_required_colons" value="7"/&gt;     &lt;sch:assert test="if (pds:lid_reference) then ((\$lid_num_colons &gt;= \$lid_min_required_colons) and (\$lid_num_colons &lt;= \$lid_max_required_colons)) else true()"/&gt;     The number of colons found in lid_reference: (&lt;sch:value-of select="\$lid_num_colons"/&gt;) is inconsistent with the number expected: (&lt;sch:value-of select="\$lid_min_required_colons"/&gt;:&lt;sch:value-of</pre>
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select="$lid_max_required_colons"/>).</sch:assert>
  <sch:assert test="if (pds:lidvid_reference) then (($lidvid_num_colons >= $lidvid_min_required_colons) and
($lidvid_num_colons <= $lidvid_max_required_colons)) else true()">
    The number of colons found in lidvid_reference: (<sch:value-of select="$lidvid_num_colons"/>) is inconsistent with
the number expected: (<sch:value-of select="$lidvid_min_required_colons"/>:<sch:value-of
select="$lidvid_max_required_colons"/>).</sch:assert>
  <sch:assert test="if (pds:lid_reference) then starts-with(pds:lid_reference,'urn:nasa:pds:') else true()">
    The value of the attribute lid_reference must start with 'urn:nasa:pds:'</sch:assert>
  <sch:assert test="if (pds:lidvid_reference) then starts-with(pds:lidvid_reference,'urn:nasa:pds:') else true()">
    The value of the attribute lidvid_reference must start with 'urn:nasa:pds:'</sch:assert>
  <sch:assert test="if (pds:lidvid_reference) then contains(pds:lidvid_reference,'::') else true()">
    The value of the attribute lidvid_reference must include a value that contains '::' followed by version id</sch:assert>
</sch:rule>
</sch:pattern>
<sch:pattern>

```

**Dependencies /  
Contingencies:**

None

**Additional Information:**

Requested by EN

**Working Group:**

None

**Requested Changes:**

The modified schematron rule follows:

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<sch:pattern>
  <sch:rule context="pds:Internal_Reference">
    <sch:let name="lid_num_colons" value="string-length(pds:lid_reference) - string-length(translate(pds:lid_reference, ':',
''))"/>
    <sch:let name="lidvid_num_colons" value="string-length(pds:lidvid_reference) - string-
length(translate(pds:lidvid_reference, ':', ''))"/>
    <sch:let name="lid_min_required_colons" value="3"/>
    <sch:let name="lid_max_required_colons" value="5"/>
    <sch:let name="lidvid_min_required_colons" value="5"/>
    <sch:let name="lidvid_max_required_colons" value="7"/>
    <sch:assert test="if (pds:lid_reference) then (($lid_num_colons >= $lid_min_required_colons) and ($lid_num_colons
<= $lid_max_required_colons)) else true()">
      The number of colons found in lid_reference: (<sch:value-of select="$lid_num_colons"/>) is inconsistent with the
number expected: (<sch:value-of select="$lid_min_required_colons"/>:<sch:value-of
select="$lid_max_required_colons"/>).</sch:assert>

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<sch:assert test="if (pds:lidvid_reference) then (($lidvid_num_colons &gt;= $lidvid_min_required_colons) and
($lidvid_num_colons &lt;= $lidvid_max_required_colons)) else true()">
  The number of colons found in lidvid_reference: (<sch:value-of select="$lidvid_num_colons"/>) is inconsistent with
the number expected: (<sch:value-of select="$lidvid_min_required_colons"/>:<sch:value-of
select="$lidvid_max_required_colons"/>).</sch:assert>
  <sch:assert test="if (pds:lid_reference) then starts-with(pds:lid_reference,'urn:nasa:pds:') else true()">
    The value of the attribute lid_reference must start with 'urn:nasa:pds:'</sch:assert>
  <sch:assert test="if (pds:lidvid_reference) then starts-with(pds:lidvid_reference,'urn:nasa:pds:') else true()">
    The value of the attribute lidvid_reference must start with 'urn:nasa:pds:'</sch:assert>
  <sch:assert test="if (pds:lid_reference) then not(contains(pds:lid_reference,'::')) else true()">
    The value of the attribute lid_reference must not include a value that contains '::' followed by version id</sch:assert>
  <sch:assert test="if (pds:lidvid_reference) then contains(pds:lidvid_reference,'::') else true()">
    The value of the attribute lidvid_reference must include a value that contains '::' followed by version id</sch:assert>
</sch:rule>
</sch:pattern>
<sch:pattern>

```

**Impact Statement:**

Impact:  
 -- Information Model -- modify schematron rule

No Impact:  
 -- APG  
 -- Concepts Document  
 -- DPH  
 -- External Agencies  
 -- ISO Standards  
 -- PDS Tools  
 -- PDS Website  
 -- PAG  
 -- Standards Reference

**System Impact:**

backwards compatible

**Description**

Modify schematron rule to add additional validation rule to ensure <lid\_reference> doesn't contain version information (e.g., '::').

There are currently a set of rules that validates the values for the attributes <lid\_reference> and <lidvid\_reference>. LIDVIDs must contain version where a version is indicated by a double colon ('::'). LIDs must not contain version. So, a new schematron rule needs to be added to the current set of schematron rules to ensure the value for <lid\_reference> doesn't contain '::'.

## Comments

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

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

Generated at Tue Mar 14 18:25:52 PDT 2023 by Vivian Tang using Jira 8.22.6#822006-sha1:a60819604027c401cc97bed69f4574413f3aa3b8.