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| Status: | Closed |
| Project: | PDS4 Standards Change Control Board |
| Component/s: | Information Model |
| Affects Version/s: | 1.1.0.0 |
| Fix Version/s: | None |

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| Type: | Enhancement / Improvement | Priority: | Normal / Non-urgent |
| Reporter: | Ronald Joyner | Assignee: | Emily Law |
| Resolution: | Approved as Is | | |
| Labels: | Implemented_and_Released | | |
| Remaining Estimate: | Not Specified | | |
| Time Spent: | Not Specified | | |
| Original Estimate: | Not Specified | | |

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| Proposed Solution: | <p>Remove 'Magnetometry' from the list of enumerated values for the attribute <type> in the <Primary_Result_Summary> class.</p> <p>The current schematron rule follows:</p> <pre><sch:pattern> <sch:rule context="pds:Primary_Result_Summary"> <sch:assert test="if (pds:data_regime) then pds:data_regime = ('Dust', 'Electric Field', 'Electrons', 'Far Infrared', 'Gamma Ray', 'Infrared', 'Ions', 'Magnetic Field', 'Microwave', 'Millimeter', 'Near Infrared', 'Particles', 'Pressure', 'Radio', 'Sub-Millimeter', 'Temperature', 'Ultraviolet', 'Visible', 'X-Ray') else true()"> The attribute pds:data_regime must be equal to one of the following values 'Dust', 'Electric Field', 'Electrons', 'Far Infrared', 'Gamma Ray', 'Infrared', 'Ions', 'Magnetic Field', 'Microwave', 'Millimeter', 'Near Infrared', 'Particles', 'Pressure', 'Radio', 'Sub-Millimeter', 'Temperature', 'Ultraviolet', 'Visible', 'X-Ray'.</sch:assert> <sch:assert test="if (pds:type) then pds:type = ('Altimetry', 'Astrometry', 'Count', 'E/B-Field Vectors', 'Gravity Model', 'Image', 'Lightcurves', 'Magnetometry', 'Map', 'Meteorology', 'Null Result', 'Occultation', 'Photometry', 'Physical Parameters', 'Polarimetry', 'Radiometry', 'Reference', 'Shape Model', 'Spectrum') else true()"> The attribute pds:type must be equal to one of the following values 'Altimetry', 'Astrometry', 'Count', 'E/B-Field Vectors', 'Gravity Model', 'Image', 'Lightcurves', 'Magnetometry', 'Map', 'Meteorology', 'Null Result', 'Occultation', 'Photometry', 'Physical Parameters', 'Polarimetry', 'Radiometry', 'Reference', 'Shape Model', 'Spectrum'.</sch:assert></pre> |
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    <sch:assert test="if (pds:purpose) then pds:purpose = ('Calibration', 'Checkout', 'Engineering', 'Navigation', 'Science')
else true()">
    The attribute pds:purpose must be equal to one of the following values 'Calibration', 'Checkout', 'Engineering',
'Navigation', 'Science'.</sch:assert>
    <sch:assert test="if (pds:processing_level_id) then pds:processing_level_id = ('Calibrated', 'Derived', 'Partially
Processed', 'Raw', 'Telemetry') else true()">
    The attribute pds:processing_level_id must be equal to one of the following values 'Calibrated', 'Derived', 'Partially
Processed', 'Raw', 'Telemetry'.</sch:assert>
</sch:rule>
</sch:pattern>

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Dependencies / Contingencies:

None

Additional Information:

Requested by: PPI

Working Group:

None

Requested Changes:

The modified schematron rule where 'Magnetometry' has been removed from the attribute <type> in the <Primary_Result_Summary> class follows:

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<sch:pattern>
  <sch:rule context="pds:Primary_Result_Summary">
    <sch:assert test="if (pds:data_regime) then pds:data_regime = ('Dust', 'Electric Field', 'Electrons', 'Far Infrared',
'Gamma Ray', 'Infrared', 'Ions', 'Magnetic Field', 'Microwave', 'Millimeter', 'Near Infrared', 'Particles', 'Pressure', 'Radio', 'Sub-
Millimeter', 'Temperature', 'Ultraviolet', 'Visible', 'X-Ray') else true()">
    The attribute pds:data_regime must be equal to one of the following values 'Dust', 'Electric Field', 'Electrons', 'Far
Infrared', 'Gamma Ray', 'Infrared', 'Ions', 'Magnetic Field', 'Microwave', 'Millimeter', 'Near Infrared', 'Particles', 'Pressure',
'Radio', 'Sub-Millimeter', 'Temperature', 'Ultraviolet', 'Visible', 'X-Ray'.</sch:assert>
    <sch:assert test="if (pds:type) then pds:type = ('Altimetry', 'Astrometry', 'Count', 'E/B-Field Vectors', 'Gravity Model',
'Image', 'Lightcurves', 'Map', 'Meteorology', 'Null Result', 'Occultation', 'Photometry', 'Physical Parameters', 'Polarimetry',
'Radiometry', 'Reference', 'Shape Model', 'Spectrum') else true()">
    The attribute pds:type must be equal to one of the following values 'Altimetry', 'Astrometry', 'Count', 'E/B-Field Vectors',
'Gravity Model', 'Image', 'Lightcurves', 'Map', 'Meteorology', 'Null Result', 'Occultation', 'Photometry', 'Physical Parameters',
'Polarimetry', 'Radiometry', 'Reference', 'Shape Model', 'Spectrum'.</sch:assert>
    <sch:assert test="if (pds:purpose) then pds:purpose = ('Calibration', 'Checkout', 'Engineering', 'Navigation', 'Science')
else true()">
    The attribute pds:purpose must be equal to one of the following values 'Calibration', 'Checkout', 'Engineering',
'Navigation', 'Science'.</sch:assert>

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| | <pre><sch:assert test="if (pds:processing_level_id) then pds:processing_level_id = ('Calibrated', 'Derived', 'Partially Processed', 'Raw', 'Telemetry') else true()"> The attribute pds:processing_level_id must be equal to one of the following values 'Calibrated', 'Derived', 'Partially Processed', 'Raw', 'Telemetry'.</sch:assert> </sch:rule> </sch:pattern></pre> |
| Impact Statement: | <p>PPI, the only data preparer that would have used this value, has indicated that they haven't used this value. Since 'Magnetometry' has not been used (at least in practise). the requested change is backwards compatible.</p> <p>Impact:</p> <ul style="list-style-type: none"> -- Information Model -- remove enumerated value <p>No Impact:</p> <ul style="list-style-type: none"> -- APG -- Concepts Document -- DPH -- External Agencies -- ISO Standards -- PDS Tools -- PDS Website -- PAG -- Standards Reference |
| System Impact: | backwards compatible |

Description

The attribute <type> in the <Primary_Result_Summary> class lists 'Magnetometry' as one of the enumerated values. PPI, the only data provider that would use this value, has stated that 'Magnetometry' is not a term used in the planetary fields & particles community and would like the value removed.

The current definition follows:

Magnetometry - Measurements of a magnetic field

Comments

Comment by [Ronald Joyner](#) [01/Jul/13]

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