[CCB-5] Instrument Context product - add enumerated value of "robotic arm" Created: 26/Jun/13 Updated: 09/Oct/13 Resolved: 07/Jul/13

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

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

Proposed Solution:	Modify the instrument/type enumerated list to include a value of "robotic arm".
Dependencies / Contingencies:	None
Additional Information:	None
Working Group:	None
Requested Changes:	The modified schematron rule follows: <sch:rule context="pds:Instrument"> <sch:assert test="if (pds:type) then pds:type = ('Accelerometer', 'Alpha Particle Detector', 'Alpha Particle Xray Spectrometer', 'Altimeter', 'Anemometer', 'Atomic Force Microscope', 'Barometer', 'Biology Experiments', 'Bolometer', 'Camera', 'Cosmic Ray Detector', 'Dust Detector', 'Electrical Probe', 'Energetic Particle Detector', 'Gamma Ray Detector', 'Gas Analyzer', 'Grinding And Drilling Tool', 'Hygrometer', 'Imager', 'Imaging Spectrometer', 'Inertial Measurement Unit', 'Infrared Spectrometer', 'Laser Induced Breakdown Spectrometer', 'Magnetometer', 'Mass Spectrometer', 'Microwave Spectrometer', 'Moessbauer Spectrometer', 'Naked Eye', 'Neutral Particle Detector', 'Neutron Detector', 'Photometer', 'Plasma Analyzer', 'Plasma Detector', 'Plasma Wave Spectrometer', 'Polarimeter', 'RADAR', 'Radio Science', 'Radio Spectrometer', 'Radio Telescope', 'Radiometer', 'Reflectometer', 'Robotic Arm', 'Spectrograph Imager', 'Spectrometer', 'Thermal And Electrical Conductivity Probe', 'Thermal Imager', 'Thermal Probe', 'Thermometer', 'Ultraviolet Spectrometer',

'Wet Chemistry Laboratory', 'X-ray Defraction Spectrometer', 'X-ray Detector', 'X-ray Fluorescence', 'X-ray Fluorescence Spectrometer') else true()">
    The attribute pds:type must be equal to one of the following values 'Accelerometer', 'Alpha Particle Detector', 'Alpha Particle Xray Spectrometer', 'Altimeter', 'Anemometer', 'Atomic Force Microscope', 'Barometer', 'Biology Experiments', 'Bolometer', 'Camera', 'Cosmic Ray Detector', 'Dust Detector', 'Electrical Probe', 'Energetic Particle Detector', 'Gamma Ray Detector', 'Gas Analyzer', 'Grinding And Drilling Tool', 'Hygrometer', 'Imager', 'Imaging Spectrometer', 'Inertial Measurement Unit', 'Infrared Spectrometer', 'Laser Induced Breakdown Spectrometer', 'Magnetometer', 'Mass Spectrometer', 'Microwave Spectrometer', 'Moessbauer Spectrometer', 'Naked Eye', 'Neutral Particle Detector', 'Neutron Detector', 'Photometer', 'Plasma Analyzer', 'Plasma Detector', 'Plasma Wave Spectrometer', 'Polarimeter', 'RADAR', 'Radio Science', 'Radio Spectrometer', 'Radio Telescope', 'Radiometer', 'Reflectometer', 'Robotic Arm', 'Spectrograph Imager', 'Spectrometer', 'Thermal And Electrical Conductivity Probe', 'Thermal Imager', 'Thermal Probe', 'Thermometer', 'Ultraviolet Spectrometer', 'Wet Chemistry Laboratory', 'X-ray Defraction Spectrometer', 'X-ray Detector', 'X-ray Fluorescence', 'X-ray Fluorescence Spectrometer'.</sch:assert>
   </sch:rule>
  </sch:pattern>

The value_meaning for "robotic_arm" follows:

Robotic Arm - A tool used to place in-situ instruments on surface rocks or soil, dig into a surface, and/or to collect surface samples for other instruments to analyze on a spacecraft.

Impact Statement:	Impact:
	  -- Information Model -- add enumerated value
	
	No Impact:
	  -- APG
	  -- Concepts Document
	  -- DPH
	  -- External Agencies
	  -- ISO Standards
	  -- PDS Tools
	  -- PDS Website
	  -- PAG
	  -- Standards Reference

System Impact:	backwards compatible

Description

The current set of enumerated values for instrument/type in PDS4 does not have an appropriate value for the Phoenix Robotic Arm instrument. Therefore the Phoenix Robotic Arm data set cannot be migrated to PDS4.

Comments

Comment by Ronald Joyner [01/Jul/13]

JS_xls_03

Comment by mitch gordon [02/Jul/13]

Last word in the value meaning should be replaced by the phrase "lander or rover".

The value_meaning for "robotic_arm" follows:

Robotic Arm - A tool used to place in-situ instruments on surface rocks or soil, dig into a surface, and to collect surface samples for other instruments to analyze on a lander or rover.