[CCB-279] Mis-Matched	<axes> and Axis_Array Specifications of</axes>	Created: 10/Feb/20 Updated: 24/Feb/20		
Status:	Open			
Project:	PDS4 Standards Change Control Board			
Component/s:	None			
Affects Version/s:	1.D.0.0			
Fix Version/s:	None			
Туре:	Enhancement / Improvement	Priority:	Urgent	
Reporter:	Steven Hughes	Assignee:	Emily Law	
Resolution:	Unresolved			
Labels:	Ready			
Remaining Estimate:	Not Specified			
Time Spent:	Not Specified			
Original Estimate:	Not Specified			
Problem Statement:	There is no validation in the Array base class to ensure that the value provided by <axes> is the same as the number of occurrences of <axis_array>.</axis_array></axes>			
Proposed Solution:	Add a schematron rule for Array (base) that checks the value of <axes> against the number of occurrences of <axis_array>.</axis_array></axes>			
	<axis_array>. For example: <sch:pattern> <sch:rule context="pds:Array"> <sch:assert test="number(pds:axes) = count(pds:Axis_Array)"> The value of pds:axes must match the number of pds:Axis_Array classes in the Array. </sch:assert> </sch:rule> </sch:pattern></axis_array>			
Impact Statement:	Impact: Information Model The requested change has a minor impact on the IM. No Impact: Standards Reference PDS Tools Concepts Document APG DPH External Agencies ISO Standards PDS Website PAG			
Technical Assessment:	The request is to validate the use of the class Array base to ensure that the value provided by <axes> is the same as the number of occurrences of <axis_array>. This change helps ensure the consistent use of the class Array base. This change request is reasonable.</axis_array></axes>			
System Impact:	non-backwards compatible			
DDWG Notes:	DDWG vote item: Item Passed: 8 Yes (atm, cis, en, geo, ipda, ppi, rs, sbn), 2 not present (naif, rms)			

Description

Products developed by ESA data providers included label statements that gave values for <axes> that were inconsistent with the number of Axis_Array specifications. Early stages of validation were successful, but final validation failed. A Schematron rule that enforces the dimensional consistency requirement would provide early detection of this error.

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