

[illegible]

TO-DO TRANSFORMATIONS												
Input	Output	Comment	Status	Priority (High, Medium, Low)								Level of Effort *****
				ATMOS	GEO	IMG	PPI	RMS	SBN	PSA	Score	
PDS4 Array_3D Image	FITS	[EN] This should work on anything derived from an Array_Base. See Binary Data Type Conversion below for details.	Planned for Build 9b	High	Low ***	Low	Low(*)	High	Low	Low	10	medium
PDS4 Binary Table* (Table_Binary)	FITS	[EN] See Binary Data Type Conversion below for details. [PPI] PPI sees negative value in converting tables to FITS format.	Planned for Build 10a and beyond	High	Low ***	Low	Low	Low	Low	Low	8	medium
	PDS4 Character Table	[PPI] CSV meets the need for binary to ASCII conversion. [Geo] Converting binary table to CSV should be enough. I'm OK with removing this requirement. [Mike] I propose we nix this. Tool can do Table_Binary to CSV, along with a Table_Delimited label	Planned for Build 8b	High	High	Medium	Low	Medium	Low	Medium	13	
PDS4 Character Table** (Table_Character)	FITS	[EN] Note that FITS does not allow UTF-8, so if we do it might not be possible to translate an arbitrary PDS4 character table into FITS. [PPI] PPI sees negative value in converting tables to FITS format.	Planned for Build 10a and beyond	Low	Low ***	Low	Low	Low	Low	Low	8	medium
	VOTable	[PPI] Already have tools to perform this transformation.	Planned for Build 10a and beyond	Low	Low	Low	Medium	Low	Low	Low	7	medium
PDS4 DelimitedTable** (Table_Delimited)	FITS	[EN] Note that FITS does not allow UTF-8, so if we do it might not be possible to translate an arbitrary PDS4 character table into FITS. [PPI] PPI sees negative value in converting tables to FITS format.	Planned for Build 10a and beyond	Low	Low ***	Low	Low	Low	Low	Low	8	medium
	PDS4 Character Table	[PPI] This conversion makes ASCII data more difficult to work with. [Mike] I propose we nix this unless there is a use-case for this. Geo has voted to remove this requirement as well	Planned for Build 10a and beyond	High	Low	Medium	Low	Medium	Low	Low	10	
	VOTable	[PPI] Already have tools to perform this transformation.	Planned for Build 10a and beyond	Low	Low	Low	Medium	Low	Low	Low	7	medium
PDS4 2D Image* (Array_2D_Image)	PDF	[ATM] I really don't recall this one from last time. PDF doesn't make sense for an image.	Planned for Build 10a and beyond	Low	Low	Low	Low(*)	Low	High	Low	7	long
	VICAR	[EN] Since the VICAR standard accommodates various binary encoding forms, we would definitely need to support byte order inverting, and possibly conversion from IEEE real to VAX real if we think there will be demand. See Binary Data Type Conversion below for details	Planned for Build 10a and beyond	Low	Low	Medium	Low(*)	High	Low	Low	9	long
	GeoTiff	[IMG] What about for 2D image data that contains some geometry information we put in the label? A tool that can recognize that GeoTiff header information in a PDS4 and output the image as a GeoTIFF versus a TIFF could be very helpful for users. (we have a PDART use case) [Mike] This will likely be a service only capability as the GDAL library is not a pure Java implementation. It is a wrapper to a C/C++ library, which means that this would have to be built for every platform that needs to be supported.	Planned for Build 10a and beyond			High	Low(*)		High	High	7	medium
PDS4 3D Image* (Array_3D_Image)	ENVI Image Cube	[EN] The better option may be to generate a format that ENVI supports, allowing ENVI users to perform local transformations.	Planned for Build 9a	Low	Medium	High	Low(*)	Low	Medium	Medium	10	long
	ISIS-3	[EN] Perhaps the ISIS folks will supply a plug-n-play module for the PDS System to apply? [IMG] An ISIS3 cube can be output to be a PDS4 compliant format (raw byte stream) with a simple addition to the "to=" command. The ISIS3 development team is also working on a capable input/output tool. And it will be accomplished using plugins so that missions can create their own conversion table. [IMG] Plans for a PDS4 reader for GDAL which would then allow conversion to GeoTiff, ENVI, minimal ISIS2, minimal FITS, jpeg, PNG, PDF... [EN] Although the EN development team won't be implementing the transformation in this case, it is likely that we will want to integrate this software into the Transform Tool or a future transformation service.	Planned for Build 10a and beyond	Medium	Medium	High	Low(*)	****	Medium	Medium	9	long

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