

PSA PDS4 context products

Starting with validate version 1.15 a list of context products registered with PDS is used for validation. Since version 1.16 checking of the name and type is also included - although differences will only be raised as a warning. The list of products is stored as a json format file in the resources directory of the validate tool. For 1.15 this is a static file, and non-registered context products can only be provided by editing this file, or replacing with the example below. For 1.16 and above the list of registered context products can be retrieved online and a separate "local" context file can be provided as well.

validate 1.15 example and download

registered_context 1.15.x

```
{
  "Product_Context": [
    "urn:nasa:pds:context_pds3:resource:resource.2001_mars_odyssey_archive_information::1.0",
    "urn:nasa:pds:context:resource:resource.ladee_archive_information::1.0",
    ...
  ]
}
```

Here is the resources file from 1.15 with the below LIDVIDs added: [registered_context_products.json](#)

validate 1.16 example and download

For validate 1.16 there is an option to have validate retrieve the list of registered context products from a PDS server, and also a switch to point to a local file:

--add-context-products <dir/files>

"Explicitly specify a JSON file (or directory of files) containing additional context product information used for validation."

The format of both files is as below:

registered_context 1.15.x

```
{
  "Product_Context": [
    {
      "name": ["Mars Science Laboratory (MSL) Archive Information"],
      "type": ["Information.Investigation"],
      "lidvid": "urn:nasa:pds:context_pds3:resource:resource.
mars_science_laboratory_archive_information::1.0"
    },
    ...
  ]
}
```

note that both name and type are arrays here, to handle cases where multiple values of either are provided.

When using this switch, a warning will **always** be produced:

WARNING [warning.product_not_registered] Non-registered context products should only be used during archive development. All context products must be registered for a valid, released archive bundle.

A version of this file produced for BepiC is here: [local_context_products.json](#)

Below is a collection of all of the PSA and mission context products, with the aim of registering them or adding to the context file. Please add and correct!

LID	VID	Name(s)	Type(s)	Registered?	Comment
Agency					
urn:esa:psa:context:agency:agency.esa	1.0		Agency	<input type="checkbox"/>	Exists in PDS registry with a NASA URN (import from PDS3)
Mission					
urn:esa:psa:context:investigation:mission.em16	1.0	ExoMars 2016	Mission	<input type="checkbox"/>	
urn:esa:psa:context:investigation:mission.emrsp	1.0	ExoMars RSP	Mission	<input type="checkbox"/>	Currently planned to be housed in Rover host bundle
urn:esa:psa:context:investigation:mission.bc	1.0	BepiColombo	Mission	<input type="checkbox"/>	
Host					
urn:esa:psa:context:instrument_host:spacecraft.tgo	1.0	TGO	Spacecraft	<input type="checkbox"/>	
urn:esa:psa:context:instrument_host:spacecraft.edm	1.0	ExoMars 2016 Lander	Spacecraft	<input type="checkbox"/>	Tanya Lim I guess the names needs updating 🙄 Also, the context file contains links to bundles that sadly never had the chance to exist...
urn:esa:psa:context:instrument_host:spacecraft.mmo	1.0	Mercury Magnetospheric Orbiter	Spacecraft	<input type="checkbox"/>	
urn:esa:psa:context:instrument_host:spacecraft.mpo	1.0	Mercury Planetary Orbiter	Spacecraft	<input type="checkbox"/>	
urn:esa:psa:context:instrument_host:spacecraft.mtm	1.0	Mercury Transfer Module	Spacecraft	<input type="checkbox"/>	
urn:esa:psa:context:instrument_host:spacecraft.rm	1.0	ExoMars RSP Rover Module	Spacecraft	<input type="checkbox"/>	
urn:esa:psa:context:instrument_host:spacecraft.sp	1.0	ExoMars RSP Surface Platform	Spacecraft	<input type="checkbox"/>	
Instrument					
urn:esa:psa:context:instrument:acs.tgo	1.0	ACS	Spectrometer	<input type="checkbox"/>	
urn:esa:psa:context:instrument:cassis.tgo	1.0	CASSIS	Imager	<input type="checkbox"/>	
urn:esa:psa:context:instrument:dreams.edm	1.0	DREAMS	Weather Station	<input type="checkbox"/>	
urn:esa:psa:context:instrument:frend.tgo	1.0	FREND	Neutron Detector	<input type="checkbox"/>	
urn:esa:psa:context:instrument:nomad.tgo	1.0	NOMAD	Spectrometer	<input type="checkbox"/>	
urn:esa:psa:context:instrument:bela.mpo	1.0	BELA	Altimeter	<input type="checkbox"/>	

urn:esa:psa:context: instrument:berm.mpo	1.0	BERM	Spectrometer	<input type="checkbox"/>	
urn:esa:psa:context: instrument:isa.mpo	1.0	ISA	Accelerometer	<input type="checkbox"/>	
urn:esa:psa:context: instrument:mag.mpo	1.0	MPO-MAG	Magnetometer	<input type="checkbox"/>	
urn:esa:psa:context: instrument:mcam.mtm	1.0	MCAM	Imager	<input type="checkbox"/>	
urn:esa:psa:context: instrument:mertis.mpo	1.0	MERTIS	Radiometer Imaging Spectrometer	<input type="checkbox"/>	
urn:esa:psa:context: instrument:mgns.mpo	1.0	MGNS	Neutron Detector	<input type="checkbox"/>	
urn:esa:psa:context: instrument:mixs.mpo	1.0	MIXS	Spectrometer Imaging Spectrometer	<input type="checkbox"/>	
urn:esa:psa:context: instrument:more.mpo	1.0	MORE	Radio Science	<input type="checkbox"/>	
urn:esa:psa:context: instrument:phebus.mpo	1.0	PHEBUS	Spectrometer	<input type="checkbox"/>	
urn:esa:psa:context: instrument:serena.mpo	1.0	SERENA	Plasma Analyzer	<input type="checkbox"/>	
urn:esa:psa:context: instrument:simbio-sys.mpo	1.0	SIMBIO-SYS	Imager Imaging Spectrometer	<input type="checkbox"/>	
urn:esa:psa:context: instrument:sixs.mpo	1.0	SIXS	Spectrometer	<input type="checkbox"/>	
urn:esa:psa:context: instrument:arm.rm	1.0	ADRON-RM	Neutron Spectrometer	<input type="checkbox"/>	
urn:esa:psa:context: instrument:clu.rm	1.0	CLUPI	Imager	<input type="checkbox"/>	
urn:esa:psa:context: instrument:ise.rm	1.0	ISEM	Spectrometer	<input type="checkbox"/>	
urn:esa:psa:context: instrument:loc.rm	1.0	LOCCAM	Imager	<input type="checkbox"/>	TBC whether LocCam data be downlinked
urn:esa:psa:context: instrument:mis.rm	1.0	MAMISS	Spectrometer	<input type="checkbox"/>	
urn:esa:psa:context: instrument:mic.rm	1.0	MICROMEGA	Spectro- Imager	<input type="checkbox"/>	
urn:esa:psa:context: instrument:mom.rm	1.0	MOMA	Gas Chromatograph Laser Spectroscopy	<input type="checkbox"/>	

urn:esa:psa:context: instrument:nav.rm	1.0	NAVCAM	Imager	<input type="checkbox"/>	
urn:esa:psa:context: instrument:pan.rm	1.0	PANCAM	Imager	<input type="checkbox"/>	
urn:esa:psa:context: instrument:rls.rm	1.0	RLS	Raman Spectrometer	<input type="checkbox"/>	
urn:esa:psa:context: instrument:wis.rm	1.0	WISDOM	Ground Penetrating Radar	<input type="checkbox"/>	

Error rendering macro 'excerpt-include'

User 'null' does not have permission to view the page.