

**Title:** Registry Development and Coordination Project

**Proposer:** IPDA Steering Committee

**Project Leader:** Sean Hardman (NASA/PDS)

**Project members:**

Sean Hardman	NASA/PDS	Sean.Hardman@jpl.nasa.gov
Sean Kelly	NASA/PDS	Sean.Kelly@jpl.nasa.gov
TBD		

**Field:** System Engineering

**Description:**

At the 6<sup>th</sup> International Planetary Data Alliance (IPDA) Steering Committee Meeting held September 2011 at Caltech in Pasadena, the Steering Committee chose to build on the success of the previous year's Registries Implementation Project, with the decision to initiate this project.

The current registry implementation utilizes the PDS Registry Service and a custom interface available from the IPDA web site (<http://planetarydata.org/services/registry>), to populate and manage a service registry. The service registry currently contains a number of services and tools registered by the IPDA members. This project looks to expand the scope of this registry to not only support service registrations but also data set registrations from IPDA member organizations. Since the list of data sets could be daunting the initial scope will limit data sets curated by the PSA for the Venus Express mission.

This project also includes maintenance of the existing registry implementation, upgrading to the latest PDS Registry Service software, implementation of a new interface to support data set registrations and implementation of a mechanism to acquire and maintain data set registrations. Along with support for data sets, the project will investigate using the registry implementation as a dictionary service. The project will also revisit service registrations and determine whether services and tools should be registered as different object types. The final focus of the project will be a plan to move forward with additional data set registration and maintenance of the registry and its contents.

**Requirements:**

- IPDA Level 1/2 Requirements
- Specific project requirements include:

- Maintain existing registry implementation including upgrades to support the latest version of the PDS Registry Service.
- Develop an interface for managing, searching and viewing data set registrations.
- Develop an automated mechanism for maintaining data set registrations.
- Populate the registry with Venus Express data set information.

**Timescale:**

- Start: 10/2011
- End: 07/2012

**Risk:** Minimal – Subject to availability of data set information.

**Deliverables:**

December 2011	Upgrade to and deploy the latest version of the PDS Registry Service (1.0.0).
December 2011	Publish the REST-based API for the PDS Registry Service.
January 2012	Determine applicability as a dictionary service and review the current support for services and determine whether/how to split services from tools.
February 2012	Identify the VEX data sets for registration.
March 2012	Deploy mechanism for acquiring and updating Venus Express data set information.
April 2012	Deploy interface for searching and viewing data set information.
May 2012	Populate operational registry with Venus Express data set information.
July 2012	Report project results to the IPDA Steering Committee.

**Contact Information:**

- Sean Hardman (Sean.Hardman@jpl.nasa.gov)