



Registry Core v.0.2.0

for the Planetary Data System

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1.1 Overview

About Registry Core

The Registry Core is a software library for accessing the Registry Service.

Please send comments, change requests and bug reports to the [PDS Operator](mailto:pds_operator@jpl.nasa.gov) at pds_operator@jpl.nasa.gov.

1.2 Release Notes

Release Notes

The purpose of this section is to provide a description of a Registry Core release including any impact that the new or modified capabilities will have on the Discipline Nodes or the PDS user community. If viewing the web-based version of this document, a somewhat itemized list of changes for each release can be found on the [Release Changes](#) page.

Release 0.2.0

This release of the Registry Core is a component of the integrated release [1.2.0](#) of the PDS 2010 System. This release is intended as a prototype release in support of the assessment of the PDS4 standards and the system components to date. The new or modified capabilities for this release are as follows:

- Added support for package registration allowing actions like approval and deletion to be applied to all members of a package.
- Added support for replication from one registry instance to another.
- Enhanced query support for auditable events.
- Refactored the interface and implementation to consolidate and remove redundant code.

Release 0.1.0

This release of the Registry Core is a component of the integrated release [1.1.0](#) of the PDS 2010 System. This release is intended as a prototype release in support of the assessment of the PDS4 standards and the system components to date. The new or modified capabilities for this release are as follows:

- The core functionality was moved from the registry-service package to this package to better satisfy JAR dependencies from other projects.
- Added additional support for Classifications in the registry.
- Added a configuration endpoint allowing the configuration file generated from the data model to be processed in one action.
- Added support for a RegistryPackage object to support batch operations.
- Modifications to support better alignment with the ebXML registry specification.

1.3 Installation

Installation

This section describes how to install the Registry Core software contained in the *registry-core* package. The following topics can be found in this section:

- [System Requirements](#)
- [Unpacking the Package](#)

System Requirements

The Registry Core was developed using Java and will run on any platform with a supported Java Runtime Environment (JRE). The tool was specifically developed under Sun Java version 1.6, so the tool will execute correctly under 1.6 and future versions.

Since the tool was developed using Sun's Java, this is the preferred Java environment for operation. The Sun Java package can be obtained from the [Sun Java](#) web site. Other Java environments are relatively compatible with Sun's Java.

Unpacking the Package

Download the *registry-core* package from the PDS [FTP](#) site. The binary distribution is available in identical zip or tar/gzip packages. Unpack the selected binary distribution file with one of the following commands:

```
% unzip registry-core-0.2.0-bin.zip  
or  
% tar -xzvf registry-core-0.2.0-bin.tar.gz
```

Note: Depending on the platform, the native version of *tar* may produce an error when attempting to unpack the distribution file because many of the file paths are greater than 100 characters. If available, the GNU version of *tar* will resolve this problem. If that is not available or cannot be installed, the zipped package will work just fine in a UNIX environment.

The commands above result in the creation of the *registry-core-0.2.0* directory with the following directory structure:

- **README.txt**

A README file directing the user to the available documentation for the project.

- **LICENSE.txt**

The copyright notice from the [California Institute of Technology](#) detailing the restrictions regarding the use and distribution of this software. Although the license is strictly worded, the software has been classified as Technology and Software Publicly Available (TSPA) and is available for *anyone* to download and use.

- **doc/**

This document directory contains a local web site with the Registry Core Guide, javadoc, unit test results and other configuration management related information. Just point your favorite browser to the *index.html* file in this directory.

- **lib/**

This directory contains the dependent jar files for the tool along with the executable jar file (registry-core-0.2.0.jar) containing the Registry Core software.

1.4 Development

Development

This section describes how a user can utilize the Application Program Interface (API) of the *registry-core* package to develop their own interface to the Registry Service. The following topics can be found in this section:

- [API Entry Points](#)

API Entry Points

We have not had a chance to document the entry points into the API as of the current release. The best source for this information currently is the [JavaDocs](#) documentation for this project.