Registry Core v.1.0.0

for the Planetary Data System

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1.1 Overview

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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 at pds_operator@jpl.nasa.gov.

1.2 **Installation**

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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 software was developed using Java and will run on any platform with a supported Java Runtime Environment (JRE). The software was specifically developed under Java version 1.6 and has only been tested with this version. The following commands test the local Java installation in a UNIX-based environment:

```
% which java
/usr/bin/java

% java -version
java version "1.6.0_26"
Java(TM) SE Runtime Environment (build 1.6.0_26-b03-384-10M3425)
Java HotSpot(TM) 64-Bit Server VM (build 20.1-b02-384, mixed mode)
```

The first command above checks whether the *java* executable is in the environment's path and the second command reports the version. If Java is not installed or the version is not at least 1.6, Java will need to be downloaded and installed in the current environment. Consult the local system administrator for installation of this software. For the do-it-yourself crowd, the Java software can be downloaded from the Oracle Java Download page. The software package of choice is the Java Standard Edition (SE) 6, either the JDK or the JRE package. The JDK package is not necessary to run the software but could be useful if development and compilation of Java software will also occur in the current environment.

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-1.0.0-bin.zip
or
% tar -xzvf registry-core-1.0.0-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-1.0.0* 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 the desired web 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-1.0.0.jar) containing the Registry Core software.

1.3 Development

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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.