



LDD Tool

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Software Documentation

- **Installation**

Download

- Data Design Working Group -> Resources -> LDDTool_1.8.n_Beta.zip (Binary Package)

Installation

This document describes how to install the LDD Tool software contained in the *LDDTool* package. The following topics can be found in this document:

- System Requirements
- Unpacking the Package
- Configuring the Environment

System Requirements

The LDD Tool 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 *LDDTool* package from the PDS download site mentioned above. The binary distribution is available in a zip package. The installation directory may vary from environment to environment but in UNIX-based environments it is typical to install software packages in the */usr/local* directory and in Windows-based environments it is typical to install software packages in the *C:\Program Files* directory. Unpack the selected binary distribution file with one of the following commands:

```
% unzip LDDTool-1.8-bin.zip
```

The commands above result in the creation of the *LDDTool* directory with the following directory structure:

- **AAREADME.txt**

This AAREADME.TXT file provides simple installation and use instructions.

- **bin/**

This directory contains batch and shell scripts for executing the tool.

- **doc/**

This directory contains the LDD Tool documents.

- **examples/**

This directory contains example PDS4 local data dictionary templates for use with the tool.

- **lib/**

This directory contains the dependent jar files for the tool along with the executable jar file (DMDocument.jar) containing the LDD Tool software.

Configuring the Environment

In order to execute the LDD Tool, the local environment must first be configured appropriately. This section describes how to setup the user environment on UNIX-based and Windows machines.

UNIX-Based Environment

This section details the environment setup for UNIX-based machines. The binary distribution includes a shell script that must be executed from the command-line. Setting the *PATH* environment variable to the location of this script, enables the shell script to be executed from any location on the local machine.

The following command demonstrates how to set the *PATH* environment variable (in Bourne shell), by appending to its current setting:

```
% export PATH=${PATH}:/usr/local/LDDTool/bin
```

In addition, the shell script requires that the *JAVA_HOME* environment variable be set to the appropriate location of the Java installation on the local machine. The following command demonstrates how to set the *JAVA_HOME* environment variable:

```
% export JAVA_HOME=/path/to/java/home
```

The system administrator for the local machine may need to be consulted for this location. The path specified should have a *bin* sub-directory that contains the *java* executable. This variable may also be defined within the scripts. Edit the scripts (files without the .bat extension) and change the line in the example above to represent the local Java installation.

Windows Environment

Note that the AAREADME.TXT file contains simple instructions for installation into directories other than C:\Program Files.

This section details the environment setup for Windows machines. The binary distribution includes a batch script that must be executed from the command-line. Setting the *PATH* environment variable to the location of this script, enables the batch script to be executed from any location on the local machine.

The following command demonstrates how to set the *PATH* environment variable, by appending to its current setting:

```
C:\> set PATH = %PATH%;C:\Program Files\LDDTool\bin
```

In addition, the batch script requires that the *JAVA_HOME* environment variable be set to the appropriate location of the Java installation on the local machine. The following command demonstrates how to set the *JAVA_HOME* environment variable:

```
C:\> set JAVA_HOME = C:\path\to\java\home
```

The system administrator for the local machine may need to be consulted for this location. The path specified should have a *bin* sub-directory that contains the *java* executable. This variable may also be defined within the scripts. Edit the scripts (files with the .bat extension) and change the line in the example above to represent the local Java installation.

Installation Location

Both the shell and batch scripts for this software utilize system commands for determining the installation home directory that may or may not be available on all platforms. If these commands are not available in the current environment, their use can be replaced in the scripts by setting the *PARENT_DIR* variable with the actual installation path. Modify the UNIX-based shell scripts as follows (the actual installation path may be different in the current environment):

```
SCRIPT_DIR=`dirname $0`  
PARENT_DIR=`cd ${SCRIPT_DIR}/.. && pwd`
```

should be replaced with:

```
PARENT_DIR=/usr/local/LDDTool
```

Modify the Windows-based batch scripts as follows (the actual installation path may be different in the current environment):

```
set SCRIPT_DIR=%~dps0  
set PARENT_DIR=%SCRIPT_DIR%..
```

should be replaced with:

```
set PARENT_DIR=C:\Program Files\LDDTool
```

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