



DPF Manager

The open source
COMMUNITY



DPF MANAGER

OFFLINE INSTALLATION MANUAL





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1. Overview

This document explains how to build the project from scratch in different operating systems. The installation only requires the zip file of the build environment and the zip file of the sources. Both can be found in the DPF Manager website into the community section. With these files the project can be installed in a computer without the need of an internet connection.

The installation requires three steps, explained below in more detail, for each operating system.

The first step is to install de Java version 8 (if not already installed). Java 8 can be installed either with the Oracle JDK or with Open JDK. The difference between is that OpenJDK is open source, while Oracle is closed source and provides commercial support from Oracle. Another difference is that the Oracle version includes JavaFX, while the Open JDK version does not.

The Oracle JDK can be downloaded from the following link:

<http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html>

Execute this installer and follow the steps on the screen.

The Open JDK version is included in the build environment zip.

The second step consists in installing and configuring maven, which is a tool to automatically build the project with a single instruction. It as also included in the build environment zip.

Finally, the third step is to run the maven command in order to make the build.

The three operating systems explained in this document are Windows, Linux and Mac OS X. The installation process is similar in all of them, with only minor differences regarding the specific commands for each SO.

1. Windows

1.1. Install Java JDK 8

Check which version of Java is already installed, by running the following command in the terminal (cmd.exe).

```
java -version
```

If java is not installed or the version is lower than 1.8, then Java 8 needs to be installed.

The Open JDK is provided in the OpenJFX zip. If you want to use it instead of the Oracle, unzip it and move it into a desired location, and then set the variable JAVA_HOME to this path. In this case this zip also includes the JavaFX extension.

1.2. Install Maven

Unzip the “repository” zip and put it into a desired location. Also put the “maven” folder into a desired location.

Modify the settings file located at C:/Path/to/maven/conf/settings.xml:

- Change the path inside “<localRepository>” tag to point to C:/Path/to/maven/repository
- Optionally, you can also add the line “<offline>true</offline>” in order not to download any dependencies through internet.

Example of the above modifications:

```
<localRepository>C:/Path/to/maven/repository </localRepository>
<offline>true</offline>
```

Add "C:/Path/to/maven/bin" to the user's PATH environment variable.

- Windows -> Control panel -> System -> Advanced configuration -> Environment variables

1.3. Build DPFManager

Unzip the sources zip. Then open the terminal and go to the project source root folder.

```
cd "C:/Path/to/DPFManager"
```

Then type:

```
mvn install -Dpgp.skip
```

Two installers of the DPF Manager will be generated.

One that comes with the JVM integrated under Path/to/DPFManager/target/jfx/java/bundles

And another that does not include JVM under Path/to/DPFManager/target/jfx/native/bundles

2. Linux

2.1. Install Java JDK 8

Check which version of Java is already installed, by running the following command in the terminal.

```
java -version
```

If java is not installed, or the version is lower than 1.8, then Java 8 needs to be installed.

If you want to install the Open JDK instead of the Oracle JDK, install the file zulu8.17.0.3-jdk8.0.102.deb with the command

```
sudo dpkg -i zulu8.17.0.3-jdk8.0.102.deb
```

Then copy the OpenJFX folder content into the base of the installed JDK.

```
cd openjfx-overlay
sudo cp -a * /path/to/java
```

Finally set the JAVA_HOME and add it to the PATH variable:

```
export JAVA_HOME=/path/to/java
export PATH=$JAVA_HOME/bin:$PATH
```

2.2. Install Maven

Copy the "maven" folder in a desired folder, and unzip the repository zip into a desired folder.

Modify the settings file located at /Path/to/maven/conf/settings.xml:

- Change the path inside “<localRepository>” tag to point C:/Path/to/maven/repository
- Optionally, you can also add the line “<offline>true</offline>” in order not to download any dependencies through internet.

Example of the modifications:

```
<localRepository>C:/Path/to/maven/repository </localRepository>
<offline>true</offline>
```

Link maven to /usr/local/bin:

```
sudo ln -s /path/to/maven/bin/mvn /usr/local/bin/mvn
```

2.3. Build DPFManager

Unzip the sources zip and then open the terminal and go to the project root folder.

```
cd /Path/to/DPFManager
```

Now in terminal type:



```
mvn install -Dgpg.skip
```

Two installers of the DPF Manager will be generated.

One that comes with the JVM integrated under Path/to/DPFManager/target/jfx/java/bundles

And another that does not include JVM under Path/to/DPFManager/target/jfx/native/bundles

3. Mac OS X

3.1. Install Java JDK 8

Check which version of Java is already installed, by running the following command in the terminal.

```
java -version
```

If java is not installed, or the version is lower than 1.8, then Java 8 needs to be installed.

The Open JDK is provided in the build environment zip. Install the file zulu8.17.0.3-jdk8.0.102-macosx_x64.dmg following the steps on the screen. Then copy the OpenJFX folder content into the base of the installed JDK.

3.2. Install Maven

Copy the "maven" folder to a desired folder and unzip the repository zip into a desired location.

Modify the settings file located at /Path/to/maven/conf/settings.xml:

- Change the path inside "<localRepository>" tag to point C:/Path/to/maven/repository
- Add the line "<offline>true</offline>" next to the "<localRepository>" line.

Example of the modifications:

```
<localRepository>C:/Path/to/maven/repository </localRepository>  
<offline>true</offline>
```

Link maven to /usr/local/bin

```
sudo ln -s /path/to/maven/bin/mvn /usr/local/bin/mvn
```

3.3. Build DPFManager

Open the terminal (cmd) and go to the project root folder.



```
cd /Path/to/DPFManager
```

Now in terminal type:

```
mvn install -Dpgg.skip
```

Two installers of the DPF Manager will be generated.

One that comes with the JVM integrated under Path/to/DPFManager/target/jfx/java/bundles

And another that does not include JVM under Path/to/DPFManager/target/jfx/native/bundles