



FUSE™ Mediation Router

Installation Guide

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Table of Contents

1. Installation Prerequisites	9
Supported Platforms	10
Java and Compiler Requirements	11
Other Suggested Prerequisites	12
Disk Space Requirements	14
2. Installing FUSE Mediation Router	15
Installer Files	16
Running the Installer	17
Installing in GUI Mode	18
Installing in Console Mode	20
Installing in Silent Mode	22
3. Installing from Source Code	25
Unpacking the Distribution	26
Building the Source	27
Distribution Files Built	28
4. Uninstalling FUSE Mediation Router	29

List of Tables

1.1. Disk Space Requirements	14
2.1. Installer Files	16
2.2. Command for Starting the Installer	18
2.3. Default Installation Directory	18
2.4. Command for Running the Installer in Silent Mode	22
2.5. Installer Properties	23

List of Examples

1.1. Windows Environment Script	12
1.2. UNIX and Linux Environment Script	13
2.1. Installer Properties File	23

Chapter 1. Installation Prerequisites

Before attempting to install and use FUSE Mediation Router, make sure your system meets the minimum requirements.

Supported Platforms	10
Java and Compiler Requirements	11
Other Suggested Prerequisites	12
Disk Space Requirements	14

Before installing FUSE Mediation Router, do the following:

1. Read this guide to understand the installation process.
2. Make sure your systems meet the minimum requirements for installing and using FUSE Mediation Router.

Supported Platforms

Progress tests and supports FUSE products on the platforms listed at <http://fusesource.com/downloads/platforms-supported/>.

Support for additional operating systems and versions is considered on a case-by-case basis.

Java and Compiler Requirements

Java Runtime	To run applications developed with FUSE Mediation Router, you must have JRE 1.5.0_11 or newer.
Java Development	To develop applications using FUSE Mediation Router, you must have JDK 1.5.0_11 or newer.
Non-Sun Java distributions	<p>Only JREs and JDKs distributed or OEMed from Sun Microsystems are supported. FUSE Mediation Router is not guaranteed to run with gcj.</p> <p>On Red Hat-derived Linux systems, gcj is the default Java distribution. In these cases, you must download and install a Sun JRE/JDK and set the <code>JAVA_HOME</code> environment variable. You can also integrate the Sun JRE/JDK into the <code>alternatives(1)</code> system. See the <code>alternatives(1)</code> man page for details.</p>

Other Suggested Prerequisites

These programs are not *required* to work with FUSE Mediation Router. However, they are required to build the product from the source code. They are also used extensively by the sample applications.

Apache Ant

Building FUSE source and sample code requires Apache Ant 1.6.5 or later; you can download it from <http://ant.apache.org/bindownload.cgi>.

After unzipping the Apache Ant distribution, you must:

1. Set the `ANT_HOME` environment variable to the top-level directory where you unzipped Apache Ant.
2. Add Apache Ant's `bin` directory to your `PATH`.

Apache Maven

Apache Maven is a popular build management tool. FUSE source builds require Apache Maven 2.0.9 or later; you can download Apache Maven from <http://maven.apache.org/download.html>.

Once you have installed Apache Maven, you must:

1. Set the `M2_HOME` environment variable to point to the top-level directory that contains your Maven installation.
2. Add Maven's `bin` directory to the `PATH`.
3. Set the `MAVEN_OPTS` environment variable to `-Xmx512M` to give the Maven build more memory in which to run.

Environment Scripts

You can create scripts like the one shown here to make all settings for the required programs. You must adjust the paths in these examples to reflect your actual installed locations of Ant, Maven, and the JDK.

Example 1.1. Windows Environment Script

```
set JAVA_HOME=C:\Progra~1\Java\jdk1.5.0_11
set ANT_HOME=C:\Ant
set M2_HOME=C:\Maven
```

```
set PATH=%JAVA_HOME%\bin;%PATH%
set PATH=%ANT_HOME%\bin;%PATH%
set PATH=%M2_HOME%\bin;%PATH%
set MAVEN_OPTS=-Xmx512M
```

Example 1.2. UNIX and Linux Environment Script

```
export JAVA_HOME=/usr/lib/jvm/java-1.5.0-sun
export ANT_HOME=/opt/ant
export M2_HOME=/opt/maven
export PATH=$JAVA_HOME/bin:$PATH
export PATH=$ANT_HOME/bin:$PATH
export PATH=$M2_HOME/bin:$PATH
export MAVEN_OPTS=-Xmx512M
```

Disk Space Requirements

Table 1.1 on page 14 shows the amount of disk space required to install FUSE Mediation Router.

Table 1.1. Disk Space Requirements

Installation Type	Windows	Linux
As installed by the Java installer	44 MB	46 MB
Source installation, as installed	9 MB	12 MB
Source installation, after building	57 MB ^a	70 MB ^a

^aplus up to 600 MB placed in the Maven \$HOME/.m2 and .maven directories

Chapter 2. Installing FUSE Mediation Router

The cross-platform FUSE Mediation Router installer makes it easy to install the tools needed to build and deploy integration solutions.

Installer Files	16
Running the Installer	17
Installing in GUI Mode	18
Installing in Console Mode	20
Installing in Silent Mode	22

Installer Files

Table 2.1 on page 16 lists the available installation files for FUSE Mediation Router.

Table 2.1. Installer Files

File	Description
<code>fuse-mediation-router-1.6.0.0-windows.exe</code>	Installer for Windows platforms.
<code>fuse-mediation-router-1.6.0.0-unix.bin</code>	Installer for Linux, OS X, and all UNIX platforms.
<code>fuse-mediation-router-1.6.0.0-src.zip</code>	Source code installation package for all platforms. If you prefer to build FUSE Mediation Router from source, see "Installing from Source Code" on page 25 .

Running the Installer

The installer is a Java application that can run in one of three modes:

- [GUI](#)
- [Console](#)
- [Silent](#)



Warning

Under certain conditions, the UNIX installer might throw an `InvocationTargetException` exception. This is the result of a known bug in `InstallAnywhere` when `gcj` is the default Java version. The workaround is to install a Sun JVM and make sure its `java` executable is before any others on your path.

Installing in GUI Mode

Overview

By default, the installer runs as a Java GUI. In this mode, you have full control over what is installed on your local machine.

Running the installer

To install FUSE Mediation Router in GUI mode do the following:

1. For UNIX, log in with (or **su** to) the username that will own the FUSE Mediation Router installation. The default installation path presumes you have root access, but you can specify any installation directory for which you have write rights.
2. Start the installer using one of the commands listed in [Table 2.2](#).

Table 2.2. Command for Starting the Installer

Windows	<code>fuse-mediation-router-1.6.0.0-windows.exe</code>
UNIX	<code>sh fuse-mediation-router-1.6.0.0-unix.bin</code>

3. Click **Next**.
4. Read and accept the **License Agreement** and then click **Next**.
5. Specify the top-level directory for your installation, as shown in [Default Installation Directory](#).

Table 2.3. Default Installation Directory

Platform	Default Value
UNIX	<code>/opt/progress/fuse-mediation-router-1.6.0.0</code>
Windows	<code>C:\progress\fuse-mediation-router-1.6.0.0</code>



Tip

Click **Choose** to select a path by navigating to it.

6. Click **Next**.

7. If you are installing on Windows you will to specify where the installer creates the program icons.



Tip

If you want to install the icons for all users check the **Create Icons for All Users** box.

8. Click **Next**.
9. Review the installation summary.

If something needs to be corrected, click the **Previous** button to go back through the installation steps.

If the summary is correct, click **Install**.
10. Choose if you want the installer to save the selected options in a properties file.

The properties file is used to perform identical installations on other machines in a silent installation, as described in ["Installing in Silent Mode" on page 22](#).
11. Click **Next**.
12. If you choose to save the installer properties, enter a path name for the properties file and click **Next**.
13. Click **Next**.
14. Click **Done** to complete the installation.

Installing in Console Mode

Overview

The installer's console mode is provided for situations where you want to have control over what is installed, but cannot launch a Java GUI. In console mode, you have the same options as in GUI mode.



Important

Console mode is only for UNIX and Linux systems. Do not use the `-i console` option when installing on Windows.

Running the Installer

To install FUSE Mediation Router using console mode do the following:

1. Start the installer using the following command:

```
sh fuse-mediation-router-1.6.0.0-unix.bin -i console
```

2. Press **Enter** several times to page through the license agreement.
3. Accept the license agreement by entering **y**.



Note

Entering **n** exits the installer.

4. Press **Enter**.
5. Enter the full path to the top-level directory that will contain your installation.
6. Review the installation summary.
7. If the summary is correct, press **Enter**.



Tip

You can type **back** to go backwards through the installer if the summary is not correct.

8. Choose whether or not to create a properties file.

The properties file can be used to perform identical installations on other machines, as described in ["Installing in Silent Mode" on page 22](#).

9. If you choose to save the installer properties, enter the path name for the properties file.
10. Press **Enter** to exit the installer.

Installing in Silent Mode

Overview

The installer's silent mode is intended for use in installing on remote machines. It is also useful for administrators to set up installations in which the person installing cannot change any installation options. To customize how FUSE Mediation Router is installed you provide an `installer.properties` file specifying the options you want to install.

Running the Installer

To install FUSE Mediation Router using the silent installation mode, do the following:

1. If you do not want a default installation, create an `installer.properties` file that specifies how you want FUSE Mediation Router installed.

You can create an `installer.properties` file in one of two ways:

- Save one when running the installer in GUI or console mode.
- Create a new one using a text editor. See [Table 2.5 on page 23](#) for the possible entries.

2. Run the installer using the following command:

Table 2.4. Command for Running the Installer in Silent Mode

Windows	<code>fuse-mediation-router-1.6.0.0-windows -i silent [-f installer.properties]</code>
UNIX	<code>sh fuse-mediation-router-1.6.0.0-unix.bin -i silent [-f installer.properties]</code>

The `-f` argument instructs the installer to load the specified properties file. (If you specify `-i silent` without the `-f` argument, the installer silently performs a default installation.)

Silent Installation Properties

[Table 2.5 on page 23](#) shows the properties you can set and their possible values.



Note

When specifying Windows paths, replace the colon in drive letter specifications with a backslash, and double any backslash path separators. In your `JDK_HOME` entry, you can use the 8.3 version of space-containing directory names, but do not use space-containing path components in your `USER_INSTALL_DIR` entry. (Use **DIR /X** to determine the 8.3 version of file and directory names.)

Table 2.5. Installer Properties

Property	Values	Description
<code>USER_INSTALL_DIR</code>	The full path to the top-level directory where you want the product installed.	Specify a full absolute path, making sure no path component has a space in its name.
<code>CHOSEN_INSTALL_FEATURE_LIST</code>	There is only one feature component for FUSE Mediation Router, Camel.	
<code>SILENT_ACCEPT_LICENSE_AGREEMENT</code>	<code>true</code> (default) or <code>false</code>	Specifies if the installer accepts the license agreement without prompting.
<code>JDK_HOME</code>	The full absolute path to the JDK that FUSE Mediation Router uses.	This is the same path that should be set in the <code>JAVA_HOME</code> environment variable.
<code>INSTALLER_UI</code>	<code>silent</code> , <code>gui</code> (default), or <code>console</code>	Specifies the mode in which the installer runs.
<code>USER_INPUT_SAVE_PROPERTIES_YES_NO</code>	<code>Yes</code> (default) or <code>No</code>	Specifies if you want to save a properties file that describes the current run of the installer.
<code>SET_PATH</code>	This entry is not used by the FUSE Mediation Router installer.	

Example Installer Properties File [Example 2.1 on page 23](#) shows a sample `installer.properties` file for a Windows system.

Example 2.1. Installer Properties File

```
USER_INSTALL_DIR=C:\\progress\\fuse-mediation-router-1.0 ❶
  CHOSEN_INSTALL_FEATURE_LIST=Camel
SILENT_ACCEPT_LICENSE_AGREEMENT=true ❷
JDK_HOME=C:\\Progra~1\\Java\\jdk1.5.0_11 ❸
```

```
INSTALLER_UI=silent ❶  
USER_INPUT_SAVE_PROPERTIES_YES_NO=No ❷
```

The properties file shown in [Example 2.1 on page 23](#) tells the installer to do the following:

- ❶ Install FUSE Mediation Router into
C:\progress\fuse-mediation-router-1.0.
- ❷ Accept the license agreement without prompting.
- ❸ Use the specified JDK.
- ❹ Run the installer silently.
- ❺ Do not save an `installer.properties` file.

Chapter 3. Installing from Source Code

The FUSE Mediation Router source distribution includes the source code and the tools for building a number of the components included in FUSE Mediation Router. Once built, you can use them to create an installation of FUSE Mediation Router.

Unpacking the Distribution	26
Building the Source	27
Distribution Files Built	28

Before installing FUSE Mediation Router product from source code, do the following:

1. Read this chapter to make sure you understand the build process.
2. Make sure your system has the required tools for building from source.
3. Make sure your system meets the minimum requirements for using FUSE Mediation Router.

Unpacking the Distribution

The source distribution is packaged as a `.zip` file that must be unpacked before you can build the FUSE Mediation Router installation. Unpack the distribution into a directory where you have full access.



Warning

Do not unpack the archive file into a folder that has spaces in its path name. For example, do not unpack into `C:\Documents and Settings\Greco Roman\Desktop\fusesrc`.

Building the Source

Build the FUSE Mediation Router distribution using the instructions in this section.

Build Commands

To build the distribution (except for the `camel-artixds` and the `camel-fix` components) do the following:

1. Change to the `src` subdirectory of the folder where you unpacked the source distribution.
2. Run the following command:

```
mvn install -Dmaven.test.skip=true
```



Tip

If you have errors building the source distribution, try removing your private Maven repository (`$HOME/.m2/repository/*`) and then running `mvn -U install`.

You can run the same build including all unit tests by removing the `-Dmaven.test.skip=true` argument from the above command. Note that building with tests enabled takes much longer.

Note on the camel-artixds and the camel-fix components

You cannot build the `camel-artixds` and the `camel-fix` components, because both of these components depend on proprietary libraries from the Artix Data Services product. You can, however, obtain pre-built JARs for these components on the Windows and Linux platforms by downloading one of the binary distributions from fusesource.com.

If you are already an Artix Data Services customer and you need to build the `camel-artixds` and the `camel-fix` components on a different platform, please contact Progress support at http://www.progress.com/support_main.

Distribution Files Built

When the build is successful, FUSE Mediation Router distribution `.zip` and `.tar.gz` files are found in the `apache-camel/target` folder of the source installation directory.

To install FUSE Mediation Router from the a newly built distribution file, unzip its contents into the directory of your choice.

Chapter 4. Uninstalling FUSE Mediation Router

This chapter describes how to uninstall FUSE Mediation Router.

Uninstalling On Windows Systems To uninstall FUSE Mediation Router on a Windows system, do the following:

1. From the Windows **Start** menu, select **(All) Programs** → **Progress** → **FUSE Mediation Router 1.6.0.0** → **Uninstall FUSE Mediation Router 1.6.0.0**.
2. Click **Uninstall**.

As an alternative, you can run the following from a command prompt:

```
InstallDir\uninstall\uninstall-fuse-mediation-router.exe
```

Uninstalling on UNIX Systems

To uninstall FUSE Mediation Router on Linux and UNIX systems, run the following script:

```
InstallDir/uninstall/uninstall-fuse-mediation-router
```



Important

Remember that after a silent installation, the next uninstallation also runs silently.

