



webMethods Enterprise JavaBeans Adapter Installation Guide

VERSION 6.0

webMethods, Inc.
South Tower
3877 Fairfax Ridge Road
Fairfax, VA 22030
USA
703.460.2500
<http://www.webmethods.com>

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Contents

- Overview 3
- Requirements 4
- Install the webMethods Enterprise JavaBeans Adapter11
- Configure the Integration Server to Work with the Application Server 12
- Upgrade the webMethods Enterprise JavaBeans Adapter 19
- Uninstall the webMethods Enterprise JavaBeans Adapter 19

Overview

This guide provides system requirements for the webMethods Enterprise JavaBeans Adapter 6.0 (EJB Adapter) and explains how to install and uninstall the adapter.



Important! The information in this guide might have been updated since the guide was published. Go to the webMethods Advantage Web site at <http://advantage.webmethods.com> for the latest version of the guide.

If you are installing the EJB Adapter 6.0 with other webMethods components such as the webMethods Integration Server, see the *webMethods Installation Guide* for instructions on installing those components.

Requirements

Platform and Operating System Requirements

The EJB Adapter supports the application servers and platforms listed below and requires the indicated JVM for each of those platforms.



Note: Unless otherwise indicated, the adapter supports all versions of the supported platforms that are supported by the version of the Integration Server on which the adapter is running, except AS/400.

Additionally, the adapter does not support running application server software on an operating system not supported by the application server's vendor.

Application Server	Supported IS Versions	Supported Platforms	Required JVM
WebLogic Server 9.0	6.5	<ul style="list-style-type: none">■ Microsoft Windows■ Sun Solaris	Sun's JDK 1.5 shipped with WebLogic Server 9.0
	6.1	<ul style="list-style-type: none">■ Microsoft Windows■ Sun Solaris	Sun's JDK 1.5 shipped with WebLogic Server 9.0

Application Server	Supported IS Versions	Supported Platforms	Required JVM
WebLogic Server 8.1 SP4	6.5	<ul style="list-style-type: none">■ Microsoft Windows■ Sun Solaris■ Linux■ HP-UX■ IBM	The JDK that is shipped with Integration Server 6.5
	6.1	Microsoft Windows	Sun's JVM 1.4
	6.1	<ul style="list-style-type: none">■ Sun Solaris■ Linux■ HP-UX■ IBM AIX	The JDK that is shipped with Integration Server 6.1
	6.0.1 SP2	<ul style="list-style-type: none">■ Microsoft Windows■ Sun Solaris■ Linux■ HP-UX■ IBM	Sun's JVM 1.4

Application Server	Supported IS Versions	Supported Platforms	Required JVM
WebLogic Server 7.0	6.5	<ul style="list-style-type: none"> ■ Microsoft Windows ■ Sun Solaris ■ Linux ■ HP-UX ■ IBM 	The JDK that is shipped with Integration Server 6.5
	6.1	<ul style="list-style-type: none"> ■ Microsoft Windows ■ Sun Solaris ■ Linux ■ HP-UX ■ IBM AIX 	The JDK that is shipped with Integration Server 6.1
	6.0.1 SP2	<ul style="list-style-type: none"> ■ Microsoft Windows ■ Sun Solaris ■ Linux ■ HP-UX ■ IBM AIX 	The JDK that is shipped with Integration Server 6.0.1
WebLogic Server 6.1	6.5	Not supported.	
	6.1	<ul style="list-style-type: none"> ■ Microsoft Windows 	The JDK that is shipped with Integration Server 6.1
	6.0.1 SP2	<ul style="list-style-type: none"> ■ Microsoft Windows ■ Sun Solaris ■ Linux ■ HP-UX ■ IBM AIX 	The JDK that is shipped with Integration Server 6.0.1

Application Server	Supported IS Versions	Supported Platforms	Required JVM
WebSphere Server 6.0	6.5	<ul style="list-style-type: none">■ Microsoft Windows■ Sun Solaris■ Linux■ HP-UX■ IBM AIX	The JDK that is shipped with IBM WebSphere Server 6.0
	6.1	<ul style="list-style-type: none">■ Microsoft Windows■ Sun Solaris■ Linux■ HP-UX■ IBM AIX	The JDK that is shipped with IBM WebSphere Server 6.0
	6.0.1 SP2	<ul style="list-style-type: none">■ Microsoft Windows■ Sun Solaris■ Linux■ HP-UX■ IBM AIX	The JDK that is shipped with IBM WebSphere Server 6.0

Application Server	Supported IS Versions	Supported Platforms	Required JVM
WebSphere Server 5.1	6.5	<ul style="list-style-type: none"> ■ Microsoft Windows ■ Sun Solaris ■ Linux ■ HP-UX ■ IBM AIX 	The JDK that is shipped with IBM WebSphere Server 5.1
	6.1	<ul style="list-style-type: none"> ■ Microsoft Windows ■ Sun Solaris ■ Linux ■ HP-UX ■ IBM AIX 	The JDK that is shipped with IBM WebSphere Server 5.1
	6.0.1 SP2	<ul style="list-style-type: none"> ■ Microsoft Windows ■ Sun Solaris ■ Linux ■ HP-UX ■ IBM AIX 	The JDK that is shipped with IBM WebSphere Server 5.1
WebSphere Server 5.0.x	6.5	Not supported.	
	6.1	Microsoft Windows	The JDK that is shipped with IBM WebSphere Server 5.0.x
	6.0.1 SP2	<ul style="list-style-type: none"> ■ Microsoft Windows ■ Sun Solaris ■ Linux ■ HP-UX ■ IBM AIX 	The JDK that is shipped with IBM WebSphere Server 5.0.x

Application Server	Supported IS Versions	Supported Platforms	Required JVM
JBoss Server 4.0.0	6.5	<ul style="list-style-type: none"> ■ Microsoft Windows ■ Sun Solaris ■ Linux ■ HP-UX ■ IBM AIX 	The JDK that is shipped with Integration Server 6.5
	6.1	<ul style="list-style-type: none"> ■ Sun Solaris ■ Linux ■ HP-UX ■ IBM AIX 	The JDK that is shipped with Integration Server 6.1
	6.1	Microsoft Windows	Sun's JVM 1.4
	6.0.1 SP2 or later	<ul style="list-style-type: none"> ■ Microsoft Windows ■ Sun Solaris ■ Linux ■ HP-UX ■ IBM AIX 	Sun's JVM 1.4

Application Server	Supported IS Versions	Supported Platforms	Required JVM
JBoss Server 3.0.x to 3.2.x	6.5	<ul style="list-style-type: none"> ■ Microsoft Windows ■ Sun Solaris ■ Linux ■ HP-UX ■ IBM AIX 	The JDK that is shipped with Integration Server 6.5
	6.1	<ul style="list-style-type: none"> ■ Microsoft Windows ■ Sun Solaris ■ Linux ■ HP-UX ■ IBM AIX 	The JDK that is shipped with Integration Server 6.1
	6.0.1 SP2 or later	<ul style="list-style-type: none"> ■ Microsoft Windows ■ Sun Solaris ■ Linux ■ HP-UX ■ IBM AIX 	The JDK that is shipped with Integration Server 6.0.1

webMethods Software Requirements

The table below lists the webMethods components you must install before or at the same time you install the EJB Adapter. The table also lists the webMethods components you must install at some point for the EJB Adapter to operate fully.

Required for Installation	Required for Full Operation
Integration Server 6.0.1 SP2, 6.1, or 6.5	Developer 6.0.1 SP1, 6.1, or 6.5

Hardware Requirements

The EJB Adapter has no hardware requirements beyond those of its host Integration Server.

Install the webMethods Enterprise JavaBeans Adapter



Important! This section only provides instructions that are specific to installing the EJB Adapter using the webMethods Installer. For complete instructions on using the webMethods Installer, see the *webMethods Installation Guide*.

Install the EJB Adapter on the same machine as an appropriate Integration Server. If you are installing the adapter in a clustered environment, you must install the adapter on each Integration Server in the cluster, and each installation must be identical. For more information about using the adapter in a clustered environment, see the *webMethods Enterprise JavaBeans Adapter User's Guide*.

To install the EJB Adapter

- 1 Download the webMethods Installer from the webMethods Advantage Web site at <http://advantage.webmethods.com>.
- 2 If you are going to install the adapter on an already installed Integration Server, shut down the Integration Server.
- 3 Start the installer.
- 4 Select the webMethods platform on which to install the adapter. If you are going to install the adapter on an existing Integration Server, select the platform that matches the release of that Integration Server. For example, if you are going to install the adapter on a 6.1 Integration Server, select the 6.1 platform.
- 5 Specify the EJB Adapter installation directory as the webMethods installation directory (by default, webMethods6).
- 6 In the component selection list, navigate to **Adapters** ▶ **webMethods Enterprise JavaBeans Adapter 6.0**. Select to install the **Documentation and Program Files 6.0** and **Sample Templates 6.0**. If the Integration Server is not yet installed, also select to install the Integration Server, as well as any other required webMethods components that are not already installed.

The installer installs the adapter package, named WmEJBAdapter, in the *IntegrationServer_directory\packages* directory. By default, the adapter is enabled.

- 7 After you finish with the installer, configure the webMethods Integration Server to work with your EJB server, as described in [“Configure the Integration Server to Work with the Application Server”](#) on page 12.
- 8 Start the Integration Server.

Configure the Integration Server to Work with the Application Server

After you finish with the installer, you need to perform several manual steps to set up the webMethods Integration Server to work with your application server. This section describes some instances of class loading conflicts you should be aware of, and includes the configuration steps necessary for each application server and Integration Server combination.

Class Loading Conflicts

When possible, the EJB Adapter takes full advantage of the Integration Server's per-package class loading scheme. This feature enables you to install application server vendor jar files and deployed EJB jar files under `WmEJBAdapter\code\jars`. Installing the files to this location limits the visibility of the classes and resources in those jars to the EJB Adapter and its dependents, thus reducing the potential for class loading collisions with other packages installed on the Integration Server.

For some application servers, installing the files under `WmEJBAdapter\code\jars` may not be possible due to their own internal class loading requirements. In these cases, the third-party jars files must be installed on either the system classpath or the server's classpath.



Note: If you put jar files in the `lib\system` directory on the Integration Server on which the EJB Adapter is installed, that Integration Server cannot be managed by webMethods Manager Server due to class loading conflicts. For more information about webMethods Manager support in the adapter, see the *webMethods Enterprise JavaBeans Adapter User's Guide*.


Application Server/Version	Potential Class Loading Conflict
WebLogic Server 8.1 SP4	If you are using the webMethods EJB Adapter 6.0 with WebLogic Server 8.1 SP4 and the webMethods WebSphere MQ Adapter 3.0, the two adapters cannot exist on the same Integration Server. This is because the WebSphere MQ Adapter 3.0 requires the <code>j2ee.jar</code> file, but this jar file conflicts with the <code>weblogic.jar</code> file required by the WebLogic Server.

Application Server/Version	Potential Class Loading Conflict
WebLogic Server 6.1 and 7.0	<p>weblogic.jar Including the weblogic.jar file in the <i>IntegrationServer_directory\lib\system</i> directory ensures that the contents of this jar will be visible to the Integration Server's global class loader at runtime. This is required by the WebLogic class loading scheme implemented within the jar. There is no known workaround at this time.</p> <p>However, the presence of this jar file so high-up in the Integration Server's class loader hierarchy can cause conflicts with other packages that may also be present in the Integration Server. In particular, class loading conflicts are known to exist with the WmOmsAdapter and WmTomcat packages. In general, any package that relies on J2EE implementation classes may be susceptible to conflicts with classes found in weblogic.jar.</p> <p>If you plan on using EJBs that run Local transactions against WebLogic Server 6.1 or 7.0, you must disable the WmTomcat package.</p>
WebSphere Server 5.1 and 5.0.x	<p>If you plan on using EJBs that run Local transactions against WebSphere Server 5.1 and 5.0.x, you must disable the WmTomcat package.</p>

Configuring WebLogic Application Servers


To set up the Integration Server with WebLogic Server 9.0

- 1 Copy the `weblogic.jar` file from the WebLogic Server directory (typically `WebLogic_Installation_Directory\lib`) to the `IntegrationServer_directory\packages\WmEJBAdapter\code\jars` directory on the Integration Server. If this directory does not already exist, create it.

 **Note:** You need not copy the EJB deployment jar files for any EJBs that will be used in the adapter to the Integration Server.

To set up the Integration Server with WebLogic Server 8.1 SP4, 7.0, or 6.1

- 1 Copy the `weblogic.jar` file from the WebLogic Server directory to the Integration Server, as follows:
 - For WebLogic Server 8.1 SP4, copy the `weblogic.jar` file from the WebLogic Server directory (typically `WebLogic_Installation_Directory\lib`) to the `IntegrationServer_directory\packages\WmEJBAdapter\code\jars` directory on the Integration Server. If this directory does not already exist, create it.
 - For WebLogic Server 6.1 and 7.0, copy the `weblogic.jar` file from the WebLogic Server directory (typically `WebLogic_Installation_Directory\lib`) to the `IntegrationServer_directory\lib\system` directory on the Integration Server.

 **Note:** Locating the `weblogic.jar` file in the `IntegrationServer_directory\lib\system` directory may cause class loading conflicts. See [“Class Loading Conflicts” on page 12](#) for more information about resolving the conflicts.

- 2 Copy the EJB deployment jar files for any EJBs that will be used in the adapter to the Integration Server, as follows:
 - For WebLogic Server 8.1 SP4, copy the EJB deployment jar files to the `IntegrationServer_directory\packages\WmEJBAdapter\code\jars` on the Integration Server.
 - For WebLogic Server 6.1 and 7.0, copy the EJB deployment jar files to the `IntegrationServer_directory\lib\jars` directory on the Integration Server.
- 3 If you plan on using EJBs that run Local transactions against WebLogic Server 6.1 or 7.0, disable the `WmTomcat` package to avoid class loading conflicts. For more information, see [“Class Loading Conflicts” on page 12](#).

- 4 When using WebLogic Server 8.1 SP4 with Integration Server 6.0.1 SP2, WebLogic requires the use of JVM 1.4.x. For instructions on how to configure the Integration Server to work with JVM 1.4.x, see the IS_6-0-1_SP2_README.txt file. The readme file is available from the [webMethods Advantage Web site](http://advantage.webmethods.com/article/?id=1611543113) at <http://advantage.webmethods.com/article/?id=1611543113>.

Configuring WebSphere Application Servers

Use the set of instructions that correspond to the version of the Integration Server and WebSphere Application Server you are using.

WebSphere Application Server 6.0

To set up the Integration Server with WebSphere Server 6.0

- 1 Copy the following files from the WebSphere Server 6.0\lib directory to the *IntegrationServer_directory*\packages\WmEJBAdapter\code\jars directory. If this directory does not already exist, create it.
 - admin.jar
 - bootstrap.jar
 - ecutils.jar
 - ejbportable.jar
 - emf.jar
 - ffdc.jar
 - idl.jar
 - iwsorb.jar
 - j2ee.jar
 - management.jar
 - naming.jar
 - namingclient.jar
 - ras.jar
 - runtimefw.jar
 - runtime.jar
 - txClient.jar
 - txClientPrivate.jar

-
- utils.jar
 - wsexception.jar
- 2 Copy the EJB deployment jar files for any EJBs that will be used in the adapter to the *IntegrationServer_directory*\packages\WmEJBAdapter\code\jars directory on the Integration Server.
 - 3 Edit the server.bat file (Windows) or the server.sh file (Unix). This file is located in the *IntegrationServer_directory*\bin directory:
 - a Add the location of the jar files that you copied in [step 1](#) to the APPENDCLASSES parameter (where *file_location* is the full path to each jar file):

```
APPENDCLASSES=file_location\admin.jar:file_location\ecutils.jar:file_location\ejbportable.jar:file_location\emf.jar:file_location\ffdc.jar:file_location\idl.jar:file_location\iwsorb.jar:file_location\nj2ee.jar:file_location\management.jar:file_location\naming.jar:file_location\namingclient.jar:file_location\ras.jar:file_location\runtime.jar:file_location\runtimefw.jar:file_location\txClient.jar:file_location\txClientPrivate.jar:file_location\utils.jar:file_location\wsexception.jar
```
 - b Add the location of the bootstrap.jar file that you copied in [step 1](#) to the APPEND_SYSTEM_CLASSPATH parameter:

```
APPEND_SYSTEM_CLASSPATH=file_location\bootstrap.jar
```
 - c Save and close the file.
 - 4 If you are using WebSphere Server 6.0 with Integration Server 6.0.1 SP2 and need to use JVM 1.4.x, there is some additional configuration required. For instructions on how to configure the Integration Server to work with JVM 1.4.x, see the IS_6-0-1_SP2_README.txt file. The readme file is available from the [webMethods Advantage Web site](#) at <http://advantage.webmethods.com/article/?id=1611543113>.

WebSphere Application Server 5.1 and 5.0.x

To set up the Integration Server with WebSphere Server 5.1 and 5.0.x

- 1 Copy the following files from the WebSphere Server directory (typically *WebSphere_Installation_Directory*\lib) to the *IntegrationServer_directory*\packages\WmEJBAdapter\code\jars directory on the Integration Server. If this directory does not already exist, create it.
 - admin.jar
 - bootstrap.jar
 - ecutils.jar
 - ejbcontainer.jar
 - ejbportable.jar
 - ffdc.jar
 - idl.jar
 - iwsorb.jar
 - j2ee.jar
 - Improxy.jar
 - naming.jar
 - namingclient.jar
 - ras.jar
 - runtimefw.jar
 - tx.jar
 - txClientPrivate.jar (WebSphere Server 5.1)
 - txPrivate.jar (WebSphere Server 5.0.x)
 - utils.jar
 - wsexception.jar
- 2 Copy the implfactory.properties file from the *WebSphere_Installation_Directory*\properties directory on the WebSphere Server directory to the *IntegrationServer_directory*\packages\WmEJBAdapter\resources directory on the Integration Server. If this directory does not already exist, create it.
- 3 Copy the EJB deployment jar files for any EJBs that will be used in the adapter to the *IntegrationServer_directory*\packages\WmEJBAdapter\code\jars directory on the Integration Server.

-
- 4 If you plan on using EJBs that run Local transactions against WebSphere Server 5.1 or 5.0.x, append the `j2ee.jar` and `implfactory.properties` files to the IS classpath in the `server.bat` file (Windows) or the `server.sh` file (Unix). This file is located in the `IntegrationServer_directory\bin` directory. For example:

```
APPENDCLASSES=file_location\j2ee.jar:\file_location\implfactory.properties
```

where `file_location` is the full path to each file.



Important! `j2ee.jar` must be specified before `implfactory.properties` in the classpath.

- 5 **WebSphere Server 5.1 only:** If you are using WebSphere Server 5.1 with Integration Server 6.0.1 SP2 and need to use JVM 1.4.x, there is some additional configuration required. For instructions on how to configure the Integration Server to work with JVM 1.4.x, see the `IS_6-0-1_SP2_README.txt` file. The readme file is available from the [webMethods Advantage Web site](http://advantage.webmethods.com/article/?id=1611543113) at <http://advantage.webmethods.com/article/?id=1611543113>.

Configuring JBoss Application Servers

 To set up the Integration Server with JBoss Server 4.0.0, 3.2.x, and 3.0.x

- 1 Copy the `jbossall-client.jar` file from the JBoss Server directory (typically `JBoss_Installation_Directory\client`) to the `IntegrationServer_directory\packages\WmEJBAdapter\code\jars` directory on the Integration Server. If this directory does not already exist, create it.
- 2 JBoss Server requires the `log4j.jar` file for its logging function. Copy the `log4j.jar` file from the JBoss Server directory (typically `JBoss_Installation_Directory\client`) to the `IntegrationServer_directory\packages\WmEJBAdapter\code\jars` directory on the Integration Server.



Note: The `log4j.jar` file is required to run JBoss Server 3.0.x. You cannot enable adapter connections for the EJB Adapter without it.

- 3 Copy the EJB deployment jar files for any EJBs that will be used in the adapter to the `IntegrationServer_directory\packages\WmEJBAdapter\code\jars` directory on the Integration Server.
- 4 When using JBoss Server 4.0.0 with Integration Server 6.0.1 SP2, JBoss requires the use of JVM 1.4.x. For instructions on how to configure the Integration Server to work with JVM 1.4.x, see the `IS_6-0-1_SP2_README.txt` file. The readme file is available from the [webMethods Advantage Web site](http://advantage.webmethods.com/article/?id=1611543113) at <http://advantage.webmethods.com/article/?id=1611543113>.

Upgrade the webMethods Enterprise JavaBeans Adapter

The EJB Adapter 6.0 does not support upgrading from the earlier versions of the adapter (webMethods EJB Adapter 1.x or webMethods Enterprise Adapter: Enterprise JavaBeans Edition 4.x). However, the EJB Adapter 6.0 can be installed and can run concurrently with the webMethods EJB Adapter 1.x on the same Integration Server.



Note: When running the EJB Adapter 6.0 with the webMethods EJB Adapter 1.x, there may be class conflicts introduced if the EJB Adapter 6.0 installation requires a different version of the application server vendor's jar file(s). For more information about the required jar files, see [“Configure the Integration Server to Work with the Application Server”](#) on page 12.

The EJB Adapter 6.0 is not backwardly-compatible with EJB 1.0 beans.

Uninstall the webMethods Enterprise JavaBeans Adapter



Important! This section provides instructions that are specific to uninstalling the EJB Adapter 6.0 using the webMethods Uninstaller. For complete instructions on using the webMethods Uninstaller, see the *webMethods Installation Guide*.

To uninstall the EJB Adapter

- 1 Shut down the Integration Server that hosts the EJB Adapter 6.0.
- 2 Start the webMethods Uninstaller, as follows:

System	Instructions
Windows	In the Add or Remove Programs window, select webMethods <i>release installation_directory</i> as the program to uninstall, where <i>release</i> and <i>installation_directory</i> are the release and installation directory of the Integration Server on which the EJB Adapter is installed.
UNIX	Navigate to the <i>webMethods_directory/bin</i> directory of the installation that includes the Integration Server on which the EJB Adapter is installed and enter <code>uninstall (wizard)</code> or <code>uninstall -console</code> (console mode).

-
- 3 In the component selection list, navigate to **Adapters** ▶ **webMethods Enterprise JavaBeans Adapter** and select **Documentation and Program Files 6.0.** and **Sample Templates 6.0.**



Note: If you want to keep the sample files, copy the *IntegrationServer_directory*\packages\WmEJBAdapter\templates directory to another location on your system.

- 4 The uninstaller does not delete files created after you installed the adapter (for example, user-created or configuration files), nor does it delete the directory structure that contains the files. If you do not want to save the files the uninstaller did not delete, navigate to the *IntegrationServer_directory*\packages directory and delete the WmEJBAdapter directory.
- 5 Restart the Integration Server from which you uninstalled the adapter.