



# **BEA WebLogic Adapter for MQSeries®**

## **Installation and Configuration Guide**

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# About This Document

This document explains how to install and configure the BEA WebLogic Adapter for MQSeries. This document is organized as follows:

- [Chapter 1, “Installing the BEA WebLogic Adapter for MQSeries,”](#) explains how to install the adapter.
  - [Preparing to Install the Adapter](#)
  - [Installing the Adapter](#)
  - [Next Steps](#)

## Who Should Read This Documentation

This document is intended for the following members of an integration team:

- **Integration Specialists**—Lead the integration design effort. Integration specialists have expertise in defining the business and technical requirements of integration projects, and in designing integration solutions that implement specific features of WebLogic Integration. The skills of integration specialists include business and technical analysis, architecture design, project management, and WebLogic Integration product knowledge.
- **Technical Analysts**—Provide expertise in an organization’s information technology infrastructure, including telecommunications, operating systems, applications, data repositories, future technologies, and IT organizations. The skills of technical analysts include technical analysis, application design, and information systems knowledge.

- Enterprise Information System (EIS) Specialists—Provide domain expertise in the systems that are being integrated using WebLogic adapters. The skills of EIS specialists include technical analysis and application integration design.
- System Administrators—Provide in-depth technical and operational knowledge about databases and applications deployed in an organization. The skills of system administrators include capacity and load analysis, performance analysis and tuning, deployment topologies, and support planning.

## What You Need to Know

This document assumes that you have an understanding of:

- Web technologies
- WebLogic Integration 8.1
- MQSeries software, system, and environment. This includes understanding of MQSeries tools and configuration as well as processes and data models.
- Your specific MQSeries business needs and applications.

## Product Documentation on the dev2dev Web Site

BEA product documentation, along with other information about BEA software, is available from the BEA dev2dev Web site:

<http://dev2dev.bea.com>

To view the documentation for a particular product, select that product from the list on the dev2dev page; the home page for the specified product is displayed. From the menu on the left side of the screen, select Documentation for the appropriate release. The home page for the complete documentation set for the product and release you have selected is displayed.

## Related Information

Readers of this document may find the following documentation and resources especially useful:

- *BEA WebLogic Adapter for MQSeries Release Notes*  
<http://edocs.bea.com/wladapters/mq/docs81/pdf/relnotes.pdf>
- *BEA WebLogic Adapter for MQSeries User Guide*  
<http://edocs.bea.com/wladapters/mq/docs81/pdf/user.pdf>

- *Introduction to WebLogic Adapters*  
<http://edocs.bea.com/wladapters/docs81/pdf/intro.pdf>
- BEA WebLogic Adapters 8.1 Dev2Dev Product Documentation  
<http://dev2dev.bea.com/products/product.jsp?highlight=wla>
- *Introducing Application Integration*  
<http://edocs.bea.com/wli/docs81/aiover/index.html>
- *Using the Application Integration Design Console*  
<http://edocs.bea.com/wli/docs81/aiuser/index.html>
- BEA WebLogic Integration documentation  
<http://edocs.bea.com/wli/docs81/index.html>
- BEA WebLogic Platform documentation  
<http://edocs.bea.com/platform/docs81/index.html>
- Your MQSeries documentation

## Contact Us!

Your feedback on the BEA WebLogic Adapter for MQSeries documentation is important to us. Send us e-mail at **docsupport@bea.com** if you have questions or comments. Your comments will be reviewed directly by the BEA professionals who create and update the BEA WebLogic Adapter for MQSeries documentation.

In your e-mail message, please indicate that you are using the documentation for BEA WebLogic Adapter for MQSeries and the version of the documentation.

If you have any questions about this version of BEA WebLogic Adapter for MQSeries, or if you have problems using the BEA WebLogic Adapter for MQSeries, contact BEA Customer Support through BEA WebSUPPORT at **www.bea.com**. You can also contact Customer Support by using the contact information provided on the Customer Support Card which is included in the product package.

When contacting Customer Support, be prepared to provide the following information:

- Your name, e-mail address, phone number, and fax number
- Your company name and company address
- Your machine type and authorization codes

- The name and version of the product you are using
- A description of the problem and the content of pertinent error messages

## Documentation Conventions

The following documentation conventions are used throughout this document.

Convention	Item
<b>boldface text</b>	Indicates terms defined in the glossary.
Ctrl+Tab	Indicates that you must press two or more keys simultaneously.
<i>italics</i>	Indicates emphasis or book titles.
monospace text	Indicates code samples, commands and their options, data structures and their members, data types, directories, and file names and their extensions. Monospace text also indicates text that you must enter from the keyboard. <i>Examples:</i> #include <iostream.h> void main ( ) the pointer psz chmod u+w * \tux\data\ap .doc tux.doc BITMAP float
<b>monospace boldface text</b>	Identifies significant words in code. <i>Example:</i> void <b>commit</b> ( )
<i>monospace italic text</i>	Identifies variables in code. <i>Example:</i> String <i>expr</i>

Convention	Item
UPPERCASE TEXT	Indicates device names, environment variables, and logical operators. <i>Examples:</i> LPT1 SIGNON OR
{ }	Indicates a set of choices in a syntax line. The braces themselves should never be typed.
[ ]	Indicates optional items in a syntax line. The brackets themselves should never be typed. <i>Example:</i> buildobjclient [-v] [-o name ] [-f file-list]... [-l file-list]...
	Separates mutually exclusive choices in a syntax line. The symbol itself should never be typed.
...	Indicates one of the following in a command line: <ul style="list-style-type: none"> <li>• That an argument can be repeated several times in a command line</li> <li>• That the statement omits additional optional arguments</li> <li>• That you can enter additional parameters, values, or other information</li> </ul> The ellipsis itself should never be typed. <i>Example:</i> buildobjclient [-v] [-o name ] [-f file-list]... [-l file-list]...
.	Indicates the omission of items from a code example or from a syntax line. The vertical ellipsis itself should never be typed.



# Installing the BEA WebLogic Adapter for MQSeries

This section explains how to install the BEA WebLogic Adapter for MQSeries with WebLogic Integration on both Windows and UNIX systems.

This section contains the following topics:

- [Preparing to Install the Adapter](#)
- [Installing the Adapter](#)
- [Next Steps](#)

**Note:** The BEA WebLogic Adapter for MQSeries supports IBM MQSeries (now known as WebSphere MQ) versions 5.2 and 5.3.

## Preparing to Install the Adapter

Before you install the BEA WebLogic Adapter for MQSeries, be sure to complete the following tasks:

- [Review the Release Notes](#)
- [Install MQSeries Classes for Java](#)
- [Create a JAR File Containing MQSeries Client's PROPERTIES Files](#)

## Review the Release Notes

The *BEA WebLogic Adapter for MQSeries Release Notes* contain important information about the software you must install prior to installing the BEA WebLogic Adapter for MQSeries. Also, be sure to check the release notes for information about any required patches for your system. The *BEA WebLogic Adapter for MQSeries Release Notes* are available at the following URL:

<http://edocs.bea.com/wladapters/mq/docs81/index.html>

## Install MQSeries Classes for Java

To interact with IBM MQSeries, you must first install MQSeries classes for Java on the same computer as the BEA WebLogic Adapter for MQSeries. If you are using a local bindings MQ connection, you must install the Adapter for MQSeries on the same machine where the IBM MQSeries Server is installed. For TCP/IP type of MQ Connection, you can install or use the IBM MQSeries Server on any machine on the network.

The MQSeries classes for Java, MA88, is available at the following URL:

<http://www-3.ibm.com/software/ts/mqseries/txppacs/ma88.html>

## Create a JAR File Containing MQSeries Client's PROPERTIES Files

To meet localization requirements, the MQ message properties files should be present with the adapter at run time. To ensure this, create a JAR file by bundling the `properties` files available in the `lib` directory of the MQSeries Client for Java installation. You can name this JAR file whatever you wish. For example, `mq_properties.jar`. The default location for the MQSeries Client for Java installation is `C:\Program Files\IBM\MQSeries\Java\lib`.

## Understanding the Representation of Paths

When you install WebLogic Integration, you specify the locations for files. Some of these files are required by the adapter. This document uses the following conventions to represent the locations of these files.

- *BEA\_HOME* represents the BEA Home directory of your WebLogic installation. For example:
  - If you install the product in the default location on a Windows system, *BEA\_HOME* represents `c:\bea`.
  - If you install the product in the default location on a UNIX system, *BEA\_HOME* represents `/usr/local/bea`.
- *WLI\_HOME* represents the root of your WebLogic Integration installation. For example:
  - If you install WebLogic Integration in the default location on a Windows system, *WLI\_HOME* represents `c:\bea\weblogic81\integration`.
  - If you install WebLogic Integration in the default location on a UNIX system, *WLI\_HOME* represents `/usr/local/bea/weblogic81/integration`.
- *domain* is used to indicate the name of a domain.

You use the Configuration Wizard to create custom user domains. When you set up the domain configuration with the Configuration Wizard, you must specify a domain name, *domain*. You must also indicate where the directory associated with this domain is created. This directory contains files required for that domain. To learn more about the Configuration Wizard, see *Creating WebLogic Configurations Using the Configuration Wizard* which is available at the following URL:

<http://edocs.bea.com/platform/docs81/configwiz/index.html>

For example, if you accept the Configuration Wizard default location on a Windows system, *BEA\_HOME\user\_projects\domain*, the files required by the administration server are installed in the following directory:

*BEA\_HOME\user\_projects\domains\domain*

If you accept the Configuration Wizard default location on a UNIX system, *BEA\_HOME/user\_projects/domain*, the files required by the administration server are installed in the following directory:

*BEA\_HOME/user\_projects/domains/domain*

- *DOMAIN\_HOME* represents the complete path to the root of a domain.

For example, if you use the Configuration Wizard to create a domain in the default location on a Windows system, *DOMAIN\_HOME* represents

`c:\bea\weblogic81\user_projects\domains\domain.`

If you use the Configuration Wizard to create a domain in the default location on a UNIX system, *DOMAIN\_HOME* represents

`/usr/local/bea/weblogic81/user_projects/domains/domain.`

**Note:** *WLI\_HOME* and *BEA\_HOME* (italicized) also represent the corresponding Windows and UNIX environment variables. For example, the literal interpretation of *WLI\_HOME* is %WLI\_HOME% for Windows and \$WLI\_HOME for UNIX.

Unlike *WLI\_HOME* and *BEA\_HOME*, *DOMAIN\_HOME* is not an environment variable that is set by default in the WebLogic Integration environment.

## Installing the Adapter

This section explains how to install the BEA WebLogic Adapter for MQSeries with WebLogic Integration. It includes the following steps:

- [Step 1. Obtain the BEA WebLogic Adapter for MQSeries](#)
- [Step 2. Configure the Domain](#)
- [Step 3. Extract the Adapter Files and Change the WebLogic Script](#)
- [Step 4. Update the BEA License](#)
- [Step 5. Deploy the Adapter](#)
- [Step 6. Create an Adapter Administrative User](#)

## Step 1. Obtain the BEA WebLogic Adapter for MQSeries

To obtain the EAR file containing the BEA WebLogic Adapter for MQSeries software (BEA\_MQSERIES\_8\_1.ear), do one of the following:

- Download the file from the following URL:  
[http://commerce.bea.com/products/weblogicadapters/wl\\_adapter\\_home.jsp](http://commerce.bea.com/products/weblogicadapters/wl_adapter_home.jsp)
- Obtain the software on CD.

## Step 2. Configure the Domain

You must deploy the BEA WebLogic Adapter for MQSeries in a domain that supports application integration functionality. You can create one of your own, or use the sample integration domain. The sample integration domain is:

- On Windows: `BEA_HOME\weblogic81\samples\domains\integration`
- On UNIX: `BEA_HOME/weblogic81/samples/domains/integration`

If you have not already done so, use the Configuration Wizard to create the domain using the Integration domain template.

To learn more about the Configuration Wizard, see the *Creating WebLogic Configurations Using the Configuration Wizard* at the following URL:

<http://edocs.bea.com/platform/docs81/configwiz/index.html>

## Step 3. Extract the Adapter Files and Change the WebLogic Script

This section explains how to extract the BEA WebLogic Adapter for MQSeries files and edit your WebLogic script to add jar files to the CLASSPATH, and adjust the PATH.

**Note:** For WebLogic Integration 8.1 SP2, the script file you edit is `setDomainEnv.cmd` or `setDomainEnv.sh`. For versions of WebLogic Integration, earlier than 8.1 SP2, the file name is `startWeblogic.cmd` or `startWeblogic.sh`.

Set the classpath using the procedure appropriate for your system:

- [Extracting Files and Adjusting the Classpath for Windows](#)
- [Extracting Files and Adjusting the Classpath for UNIX](#)

## Extracting Files and Adjusting the Classpath for Windows

To extract the BEA WebLogic Adapter for MQSeries files and edit the WebLogic script:

1. Use WinZip (or a similar file extracting product) to extract the `BEA_MQSERIES_8_1.ear` file to a directory of your choice (for example, `BEA_HOME\adapters\mqseries`).
2. Go to the root directory for your domain:

```
cd DOMAIN_HOME
```

**Note:** You must choose a domain that supports application integration functionality.

3. Open the script file with an ASCII editor. For WebLogic Integration 8.1 SP2, the file is `setDomainEnv.cmd`. For earlier versions of WebLogic Integration, the file is `startWeblogic.cmd`.
4. In the script file, create a new variable `MQ_JAVA`, and initialize it as shown here:

```
set MQ_JAVA=C:\Program Files\IBM\MQSeries\Java\lib
```

**Note:** This path assumes the default MQSeries installation directory. It may vary if you install the IBM MQSeries Client in a different location.

5. Locate the following command in the script file:

```
set CLASSPATH=%ARDIR%\ant\ant.jar;%JAVA_HOME%\jre\lib\rt.jar
```

6. Immediately *after* this command line, insert the following command line:

```
set CLASSPATH=%CLASSSPATH%;%MQ_Java%\com.ibm.mq.jar;  
%MQ_Java%\mq_properties.jar
```

7. Set the `PATH` to the directory where `mqjbnd04.dll` is located, as shown below:

```
set PATH=%PATH%;%MQ_Java%
```

8. Save your changes and close the script file.

## Extracting Files and Adjusting the Classpath for UNIX

After you have installed MQSeries Server and MQSeries Client, create two environment variables and set the path as shown here:

```
CLASSPATH=/opt/mqm/java/lib/com.ibm.mq.jar:/opt/mqm/java/lib
```

```
LD_LIBRARY_PATH=/opt/mqm/lib:/opt/mqm/java/lib
```

**Note:** `/opt/mqm` is the default directory where the MQSeries Server is installed and `/opt/mqm/java` is the default directory where the MQSeries Client is installed.

To extract the BEA WebLogic Adapter for MQSeries files and edit the WebLogic script:

1. Use `jar` (or another similar extracting product) to extract `BEA_MQSERIES_8_1.ear` to a directory of your choice (for example, `BEA_HOME/adapters/mqseries`).

2. Go to the root directory for your domain:

```
cd DOMAIN_HOME
```

**Note:** You must choose a WebLogic Integration domain that supports application integration functionality.

3. Open the WebLogic script file with an editor. For WebLogic Integration 8.1 SP2, the file is `setDomainEnv.sh`. For earlier versions of WebLogic Integration, the file is `startWeblogic.sh`.

4. Find the following command in the script file:

```
CLASSPATH="${ARCDIR}/ant/ant.jar:${JAVA_HOME}/jre/lib/rt.jar"
```

5. Modify this command line as shown here:

```
CLASSPATH="${CLASSPATH}:${ARCDIR}/ant/ant.jar:
${JAVA_HOME}/jre/lib/rt.jar"
```

6. Add the `tools.jar` to your `CLASSPATH`, as follows:

```
CLASSPATH="${CLASSPATH}:${ARCDIR}/ant/ant.jar:
${JAVA_HOME}/lib/tools.jar"
```

7. Find the following command in the script file:

```
PATH="${WL_HOME}/server/bin:$PATH"
```

8. Modify this command line as shown here:

```
PATH="${LD_LIBRARY_PATH}:${WL_HOME}/server/bin:$PATH"
```

9. Save your changes and close the script file.

## Step 4. Update the BEA License

In order to use the BEA WebLogic Adapter for MQSeries you must have a valid software license. If you have downloaded the adapter for evaluation, see the instructions on the adapter download page to obtain an evaluation license. If you have purchased a license for the adapter, you should receive the license file as an e-mail attachment. Once you have the license file for the adapter, you must update your `license.bea` file to include the new information for the adapter.

To update your `license.bea` file:

1. Save the adapter license file in the `BEA_HOME` directory. To avoid overwriting your `license.bea` file, use a name other than `license.bea`. For example, save the file as `mqseries_adapter_license.bea`. The adapter license file is the *license\_update\_file* referred to in step 4 of this procedure.

**Warning:** Do not overwrite or change the name of the existing `license.bea` file.

2. Go to the `BEA_HOME` directory:
  - On a Windows system, open an MS-DOS session and go to the `BEA_HOME` directory.
  - On a UNIX system, go to the `BEA_HOME` directory.
3. Add the JDK to your `PATH` variable. If it is already included, skip to step 4.

- On a Windows system:

```
set PATH=BEA_HOME\jdk141_03\bin;%PATH%
```

- On a UNIX system:

```
PATH=BEA_HOME/jdk141_03/bin:$PATH
export PATH
```

4. Merge the adapter license file into your existing license:

- On a Windows system:

```
UpdateLicense license_update_file
```

- On a UNIX system:

```
sh UpdateLicense.sh license_update_file
```

Here, *license\_update\_file* is the name of the adapter license file you saved in step 1.

5. Save a backup copy of your updated `license.bea` file. This backup location should be a safe place that is neither the WebLogic Integration nor the application installation directories.

## Step 5. Deploy the Adapter

After you have installed the BEA WebLogic Adapter for MQSeries, you must deploy it to your domain.

To deploy the adapter:

1. Start WebLogic Server in your domain.

2. Start the WebLogic Server Administration Console in a browser using the following URL:

`http://host:port/console`

Where,

- `host` represents the machine on which WebLogic Server is running
- `port` represents the listening port.

For example, `http://localhost:7001/console`

3. Enter the user name and password for the server.

The WebLogic Server Administration Console appears.



4. In the left pane, expand the Deployments node.
5. Under the Deployments node, click the Applications node.

The Administration Console displays the Applications window.

An application is a J2EE application or Web Service contained in an Enterprise Application Archive (EAR) file or exploded EAR directory. Individual components contained in a J2EE application can be deployed to one or more target servers or clusters.

This Applications page displays key information about the EAR files or exploded EAR directories that have been configured for deployment in this WebLogic Server domain.

[Deploy a new Application](#)

[Customize this view...](#)

Click to deploy a new application

6. Click the Deploy a new Application link.

The Administration Console displays the Deploy an Application window.

**Select the archive for this application**

Select the file path that represents your archive or exploded archive directory.

Note: Only valid file paths are shown below. If you do not find what you are looking for, you should [upload your file\(s\)](#) and/or confirm your application contains valid descriptors.

Location: `localhost \ C: \ bea \ WEBLOG-1 \ samples \ INTEGR-1`



Click to upload your files

7. Click the upload your files(s) link.

The Administration Console displays the Install or Update an Application window.

### Upload and Install an Application or Module

Click the Browse... button below to locate an application or module file on the machine from which you are currently browsing. When you have located the file, click the Upload button to upload and install the application or module on this Administration Server. The following types of files may be uploaded and installed:

- A **.jar** containing EJBs (Enterprise JavaBeans)
- A **.war** (Web Application Archive) containing JSPs and Servlets
- A **.rar** (Resource Adapter Archive) containing a Connector module
- An **.ear** (J2EE Enterprise Application Archive) containing any of the above

**Note:** If you browse for the file, you may have to adjust the file-type filter to 'All' in order to find .jar, .war, .rar and .ear files.



Click to browse to the ear file's location.

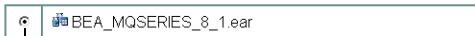
8. Click the Browse button, navigate to the directory in which the `BEA_MQSERIES_8_1.ear` file resides, and then click the Upload button.

The Administration Console prompts you to confirm the uploaded application.

Select the file path that represents your archive or exploded archive directory.

Note: Only valid file paths are shown below. If you do not find what you are looking for, you should [upload your file\(s\)](#) and/or confirm your application contains valid descriptors.

Location: `http://025051 \ D: \ bea81 \ WEBLOG~1 \ samples \ domains \ INTEGR~1 \ cgServer \ upload`

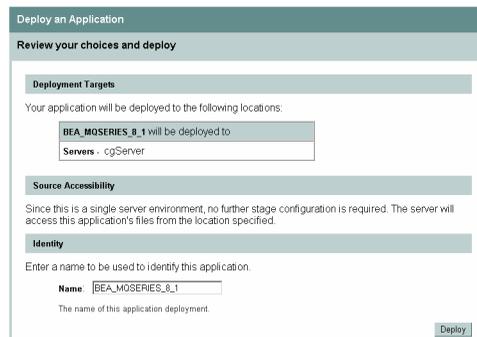


Click to confirm the upload

Continue

9. Click the radio button next to the application file and then click Continue.

The Administration Console uploads the file and displays the Deploy an Application window (specifying the default target server).



10. Click the Deploy button.

The Administration Console deploys the application and displays its deployment status.

This page allows you to view the deployment status of each module in the application, and to stop or redeploy individual modules. You may also choose to stop and redeploy all modules within the application using the buttons at the bottom of the page. (To configure additional deployment targets for this application, click the Targets tab.)

**Deployment Status for Web Application Modules**

Module	Module Status	Target	Target Type	Status of Last Action
BEA_MQSERIES_8_1_Web	Inactive	cgServer	Server	In Progress (2 seconds)

**Deployment Status for Connector Modules**

Module	Module Status	Target	Target Type	Status of Last Action
BEA_MQSERIES_8_1_rnr	Inactive	cgServer	Server	In Progress (2 seconds)

Deploy Application

When this status changes to success, it indicates that the adapter is successfully deployed.

## Step 6. Create an Adapter Administrative User

If you want to manage security for the BEA WebLogic Adapter for MQSeries, you can create an administrative user (such as `mqseriesAdapterAdmin`) who is authorized to log in to the Application View Console, create application views, configure services and events, deploy, and test. This adapter administrator also needs to be added to the `Administrators` group.

To create a new adapter administrative user:

1. In the left pane of the WebLogic Server Administration Console, click the Security node.
2. In the left pane, click the Realms node.
3. In the left pane, click the name of the realm for which you want to configure security.
4. In the left pane, click Users.

The Users page appears.

Users are entities that can be authenticated. A user can be a person or software entity, such as a Java client. Each user is given a unique identity within a security realm. BEA recommends assigning users to groups for two reasons: it makes the WebLogic Security Service perform better, and makes it more efficient for administrators who work with large numbers of users.

This Users page displays key information about each user that has been configured in this security realm.

[Configure a new User...](#)

Filter By:

User	Description	Provider	
<a href="#">weblogic</a>	weblogic	DefaultAuthenticator	
<a href="#">installadministrator</a>	installadministrator	DefaultAuthenticator	

Click to configure a new user.

5. Click the Configure a New User link.

The Create User page appears.

General Groups Details

This page allows you to define a user in this security realm.

**Name:**

The login name for this user.

**Description:**

A short description of this user. For example, the user's full name.

**Password:**

**Confirm Password:**

The password associated with the login name for this user.

Apply

6. Enter the user name, description, and password, and then click the Apply button. The password must be at least eight characters long.

The User page appears.

[Configure a new User...](#)

General Groups Details

This page allows you to define a user in this security realm.

**Name:** MyAdapterAdmin

The login name for this user.

**Description:**

A short description of this user. For example, the user's full name.

**Password:** [Change...](#)

Apply

Enter a description for this user.

Click to change the password.

7. Click the Groups tab.

The Groups page appears.

[Configure a new User...](#)

General Groups Details

This page allows you to select the groups to which this user belongs.

**Group Membership:**

Possible Groups	Current Groups
Administrators	
Deployers	
Monitors	
Operators	

Apply

Select this group for the user.

8. In the Possible Groups list, select Administrators and click the right arrow to add the Administrators group to the list of current groups.
9. Click the Apply button.
10. In the left pane, click the Users node and confirm that the user you created appears in the list of users.

## Next Steps

After you have successfully installed and deployed the BEA WebLogic Adapter for MQSeries, you can begin integrating with your MQSeries system using the adapter and BEA WebLogic Integration. To learn more about integrating with MQSeries, see the *BEA WebLogic Adapter for MQSeries User Guide* at the following URL:

<http://edocs.bea.com/wladders/mq/docs81/index.html>



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