



BEA WebLogic Adapter for CORBA™

Installation and Configuration Guide for WebLogic Integration 2.1

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About This Document

This document explains how to install the BEA WebLogic Adapter for CORBA, which is used to develop client-server interfaces between CORBA and other applications. It describes how to install the BEA WebLogic Adapter for CORBA with WebLogic Integration 2.1 and use adapter tools to develop online connections to CORBA applications.

This document is organized as follows:

- [Chapter 1, “Installing the Adapter,”](#) describes how to install the BEA WebLogic Adapter for CORBA.

Audience

This document is written for system integrators who develop client interfaces between CORBA and other applications. It describes how to install and deploy the BEA WebLogic Adapter for CORBA and how to use it with WebLogic Integration 2.1 and adapter tools to develop online connections to CORBA applications. It is assumed that readers know Web technologies and have a general understanding of Microsoft Windows and UNIX systems as well as:

- General knowledge of CORBA concepts.
- Knowledge of CORBA processes and data model for the required application area.
- Knowledge of WebLogic Integration architecture.
- General knowledge of client-server concepts.

Related Information

The following documents provide additional information for the associated software components:

- BEA WebLogic Adapter for CORBA User Guide
- *BEA WebLogic Adapter for CORBA Release Notes*
- *BEA Application Explorer Installation and Configuration Guide*
- BEA WebLogic Server installation and user documentation, which is available at the following URL:

http://edocs.bea.com/more_wls.html

- BEA WebLogic Integration installation and user documentation, which is available at the following URL:

http://edocs.bea.com/more_wli.html

Contact Us!

Your feedback on the BEA WebLogic Adapter for CORBA 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 CORBA documentation.

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

If you have any questions about this version of the BEA WebLogic Adapter for CORBA, or if you have problems installing and running the BEA WebLogic Adapter for CORBA, 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
boldface text	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> <pre>#include <iostream.h> void main () the pointer psz chmod u+w * \tux\data\ap .doc tux.doc BITMAP float</pre>
monospace boldface text	Identifies significant words in code. <i>Example:</i> <pre>void commit ()</pre>

Convention	Item
<i>monospace</i> <i>italic</i> <i>text</i>	Identifies variables in code. <i>Example:</i> String <i>expr</i>
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 <i>file-list</i>]... [-l <i>file-list</i>]...
	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">■ That an argument can be repeated several times in a command line■ That the statement omits additional optional arguments■ That you can enter additional parameters, values, or other information The ellipsis itself should never be typed. <i>Example:</i> buildobjclient [-v] [-o name] [-f <i>file-list</i>]... [-l <i>file-list</i>]...
. . .	Indicates the omission of items from a code example or from a syntax line. The vertical ellipsis itself should never be typed.

1 Installing the Adapter

This section provides instructions for installing the BEA WebLogic Adapter for CORBA. It includes the following topics:

- [Path Representation](#)
- [Step 1. Obtaining the Adapter](#)
- [Step 2. Setting Up Your ORB Environment](#)
- [Step 3. Extracting JARs and Adjusting Class Paths](#)
- [Step 4. Configuring the Integration Database](#)
- [Step 5. Replacing xmltoolkit.jar](#)
- [Step 6. Updating the BEA License](#)
- [Step 7. Deploying the Adapter](#)
- [Step 8. Adding the Administrative Server User Name](#)
- [Step 9. Initializing Application Explorer for JacORB](#)
- [Next Steps](#)

Before you install the BEA WebLogic Adapter for CORBA, you must review the *BEA WebLogic Adapter for CORBA Release Notes* to ensure that you have the required prerequisite software installed. The *BEA WebLogic Adapter for CORBA Release Notes* is available at the following URL:

<http://edocs.bea.com/wlapters/doc703/index.html>

Path Representation

Because the location of files in the WebLogic Integration environment depends on options selected during installation and configuration, the conventions that follow are used throughout to represent paths.

- *BEA_HOME* represents the BEA Home directory specified for your WebLogic installation.

For example, if you install the product in the default location on a Windows system, *BEA_HOME* represents `c:\bea`.

- *WLI_HOME* represents the root of your WebLogic Integration installation.

For example:

- If you install WebLogic Integration 2.1 in the default location on a Windows system, *WLI_HOME* represents `c:\bea\wlintegration2.1`.
- The term *domain* is used to indicate the name of a domain.
 - In WebLogic Integration 2.1, preconfigured domains (`bpmdomain`, `eaideomain`, `wlidomain`, and `samples`) are created as subdirectories of the *WLI_HOME*\config directory. Therefore, *domain* may be used to represent the root of a preconfigured WebLogic Integration 2.1 domain as follows:
`WLI_HOME\config\domain`

- *DOMAIN_HOME* represents the complete path to the root of a domain.

For example:

- If you install WebLogic Integration 2.1 in the default location on a Windows system, *DOMAIN_HOME* represents
`c:\bea\wlintegration2.1\config\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.

Step 1. Obtaining the Adapter

Obtain the following BEA WebLogic Adapter for CORBA software components on CD or download them from www.bea.com:

- The BEA WebLogic Adapter for CORBA, which is packaged as an EAR file (`BEA_CORBA_1_0.ear`).
- The `BEA_CORBA_SAMPLES.zip` file, which includes JacORB components and sample service schemas.

Note: At the time of publication of this document, WebLogic Server 6.1 is unable to explode RAR files (BEA Support CASE number 333672). Use an extraction tool (such as WinZip) to extract the contents of the adapter EAR file, `BEA_CORBA_1_0.ear`, and add the location of the unpackaged objects to the server's classpath (see [Step 3. Extracting JARs and Adjusting Class Paths](#)).

Step 2. Setting Up Your ORB Environment

Before installing and configuring the BEA WebLogic Adapter for CORBA, you should set up your ORB environment and configure it to work with the adapter, as described in Appendix A, “Using CORBA Implementations with the Adapter” in the *BEA WebLogic Adapter for CORBA User Guide*. Verify that the following conditions are satisfied:

- Your ORB infrastructure is properly configured.
- Your server is registered in the Naming Service (NS), or you have an Interoperable Object Reference (IOR) file for your server.
- Your interface repository (IFR) is running and populated.

Step 3. Extracting JARs and Adjusting Class Paths

Set the classpath using the procedure appropriate for your system:

- [Extracting JARs and Adjusting Class Paths for Windows](#)
- [Extracting JARs and Adjusting Class Paths for UNIX](#)

Extracting JARs and Adjusting Class Paths for Windows

To unzip the adapter JAR files and adjust the classpath on Windows, complete the following steps:

1. Use WinZip (or another similar extracting product) to extract the `BEA_CORBA_1_0.ear` file to a directory of your choice (for example, `BEA_HOME\AdapterEars`).
2. Extract `JacORB1_4_1.zip` from `BEA_CORBA_SAMPLES.zip`, then extract `jacorb.jar` from `JacORB1_4_1.zip`. Accept the default extraction locations.
3. Go to the root directory for your domain:

```
cd DOMAIN_HOME
```

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

4. Find the `SetDomainTypeData.cmd` file.

Here, *DomainType* is the type of the domain. For example, if your domain is configured to support the development of solutions that employ the full range of WebLogic Integration functionality, it contains the `SetwliDomainData.cmd` file.

5. Update the following SVRCP environment variable settings to the `SetDomainTypeData.cmd` file for the domain to include all the JAR files included in the EAR file.

Step 3. Extracting JARs and Adjusting Class Paths

Note: The SVRCP environment variable is used in the *SetDomainTypeData* script to set the classpath for the java executable.

Note: The following instructions are for access to JacORB services. For details for other ORBs, see your ORB documentation.

After the following line:

```
set SVRCP=%SVRCP%;%WLI_DOMAIN_HOME%\wlai
```

add the following JAR files, which are listed in the order required for the classpath:

```
SET SVRCP=%SVRCP%;BEA_HOME\AdapterEars\ibi-edaqm.jar
SET SVRCP=%SVRCP%;BEA_HOME\AdapterEars\xercesImpl.jar
SET SVRCP=%SVRCP%;BEA_HOME\AdapterEars\xmlParserAPIs.jar
SET SVRCP=%SVRCP%;BEA_HOME\AdapterEars\xmltoolkit.jar
SET SVRCP=%SVRCP%;BEA_HOME\AdapterEars
SET SVRCP=%SVRCP%;BEA_HOME\AdapterEars\BEA_CORBA_1_0.jar

REM Set the CLASSPATH for use with JacORB Object Request Broker
SET SVRCP=%SVRCP%;E:\JacORB1_4_1
```

Here, *BEA_HOME\AdapterEars* is the directory specified in step 1 and *E:\JacORB1_4_1* points to the directory where *jacorb.properties* resides.

6. Find the *StartWeblogic.cmd* file, which is in your *DOMAIN_HOME* directory along with the *SetDomainTypeData.cmd* file mentioned above.
7. Update the Java command line to add *-Xbootclasspath* after *%DB_JVMARGS%*.

Note: The following instructions are for access to JacORB services. For details for other ORBs, see your ORB documentation.

```
%JAVA_HOME%\bin\java %DB_JVMARGS%
-Xbootclasspath/p:d:\JacORB1_4_1\lib\jacorb.jar -Xmx256m
-classpath
%SVRCP% -Dbea.home=%BEA_HOME% -Dweblogic.home=%WL_HOME%
-Dweblogic.system.home=%WLI_HOME%
-Dwli.bpm.server.evaluator.supportsNull=false
-Dweblogic.Domain=wlidomain
-Dweblogic.management.password=security
-Dweblogic.Name=myserver
-Dweblogic.RootDirectory=%WLI_HOME%
-Djava.security.policy=%WL_HOME%\lib\weblogic.policy
-Dweblogic.management.discover=false weblogic.Server
```

Extracting JARs and Adjusting Class Paths for UNIX

To extract the adapter JAR files and adjust the classpath on UNIX, complete the following steps:

1. Use jar (or another similar extracting product) to extract `BEA_CORBA_1_0.ear` to a directory of your choice (for example, `BEA_HOME/AdapterEars`).
2. Extract `JacORB1_4_1.zip` from `BEA_CORBA_SAMPLES.zip`, then extract `jacorb.jar` from `JacORB1_4_1.zip`. Accept the default extraction locations.
3. Go to the root directory for your domain:

```
cd DOMAIN_HOME
```

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

4. Find the `SetDomainTypeData.cmd` file.

Here, *DomainType* is the type of the domain. For example, if your domain is configured to support the development of solutions that employ the full range of WebLogic Integration functionality, it contains the `SetwliDomainData.cmd` file.

5. Update the following SVRCP environment variable settings to the `SetDomainTypeData.cmd` file for the domain to include all the JAR files included in the EAR file.

The SVRCP environment variable is used in the `SetDomainTypeData` script to set the classpath for the java executable.

Note: The following instructions are for access to JacORB services. For details for other ORBs, see your ORB documentation.

After the following line:

```
SVRCP=$SVRCP;$WLI_DOMAIN_HOME/wlai
```

add the following JAR files, which are listed in the order required for the classpath:

```
SVRCP=$SVRCP:BEA_HOME/AdapterEars/ibi-edagm.jar
SVRCP=$SVRCP:BEA_HOME/AdapterEars/xercesImpl.jar
SVRCP=$SVRCP:BEA_HOME/AdapterEars/xmlParserAPIs.jar
SVRCP=$SVRCP:BEA_HOME/AdapterEars/xmltoolkit.jar
```

```
SVRCP=$SVRCP:BEA_HOME/AdapterEars
SVRCP=$SVRCP:BEA_HOME/AdapterEars/BEA_CORBA_1_0.jar

# Set the CLASSPATH for use with JacORB Object Request Broker
SVRCP=$SVRCP:/usr/JacORB1_4_1
```

Here, *BEA_HOME/AdapterEars* is the directory specified in step 1 and */usr/JacORB1_4_1* points to the directory where *jacorb.properties* resides.

6. Find the *StartWeblogic.cmd* file, which is in your *DOMAIN_HOME* directory along with the *SetDomainTypeData.cmd* file mentioned above.
7. Update the java command line to add *-Xbootclasspath* after *\$DB_JVMARGS*.

Note: The following instructions are for access to JacORB services. For details for other ORBs, see your ORB documentation.

```
$JAVA_HOME/bin/java $DB_JVMARGS
-Xbootclasspath/p:/opt/JacORB1_4_1/lib/jacorb.jar -Xmx256m -classpath
$SVRCP -Dbea.home=$BEA_HOME -Dweblogic.home=$WLI_HOME
-Dweblogic.system.home=$WLI_HOME
-Dwli.bpm.server.evaluator.supportsNull=false
-Dweblogic.Domain=wlidomain
-Dweblogic.management.password=security
-Dweblogic.Name=myserver
-Dweblogic.RootDirectory=$WLI_HOME
-Djava.security.policy=$WLI_HOME/lib/weblogic.policy
-Dweblogic.management.discover=false weblogic.Server
```

Step 4. Configuring the Integration Database

If you have not already done so, you must create the WebLogic Integration database tables for your domain. For detailed instructions, see “Configuring the Database for a Domain” in *Starting, Stopping and Customizing BEA WebLogic Integration*, which is available at the following URL:

http://edocs.bea.com/wlintegration/v2_1sp/config/index.htm

Step 5. Replacing xmltoolkit.jar

The BEA WebLogic Adapters include a new `xmltoolkit.jar` file. You must replace your existing WebLogic Integration `xmltoolkit.jar` with the new JAR file.

To configure the new `xmltoolkit.jar` file, follow these steps:

1. Rename your original `xmltoolkit.jar` to `xmltoolkit.jar.old` by entering the commands appropriate for your operating system:

- On a Windows system:

```
cd WLI_HOME\lib
rename xmltoolkit.jar xmltoolkit.jar.old
```

- On a UNIX system:

```
cd WLI_HOME/lib
mv xmltoolkit.jar xmltoolkit.jar.old
```

2. Extract the `xmltoolkit.jar` from the adapter EAR file into a temporary directory.
3. Copy the new `xmltoolkit.jar` file (extracted in step 2) to the `WLI_HOME\lib` directory for Windows or the `WLI_HOME/lib` directory for UNIX.

Caution: Simply replacing the `xmltoolkit.jar` file is not sufficient; you must also make changes to the `setenv` and `SetDomainTypeData` scripts as described in the following steps.

4. Edit the top-level `setenv` script and make the appropriate changes for your operating system:

- On a Windows system, edit the `WLI_HOME\setenv.cmd` script.

Replace the line:

```
set WLICOMMONCP=
```

with

```
set WLICOMMONCP=%WLI_HOME%\lib\xmltoolkit.jar
```

- On a UNIX system, edit the `WLI_HOME/setenv.sh` script.

Replace the line:


```
WLICOMMONCP=$WLI_LIB/wlicommon.jar
```

with

```
WLICOMMONCP=$WLI_LIB/wlicommon.jar:$WLI_HOME/lib/xmltoolkit.jar
```

5. Edit the *SetDomainTypeData* script.

Here, *DomainType* is the type of the domain. For example, depending on the configuration of your domain, locate and edit the *SetwliDomainData.cmd* or *SeteaiDomainData.cmd* file.

- On a Windows system:

For example, edit the *DOMAIN_HOME\SetwliDomainData.cmd* script.

Replace the line:

```
set SVRCP=%WLISERVERCP%;%CMNCP%
```

with

```
set  
SVRCP=%WLI_HOME%\lib\xmltoolkit.jar;%WLISERVERCP%;%CMNCP%
```

- On a UNIX system:

For example, edit the *DOMAIN_HOME/SetwliDomainData* script.

Replace the line:

```
SVRCP=$WLISERVERCP:$CMNCP
```

with

```
SVRCP=$WLI_HOME/lib/xmltoolkit.jar:$WLISERVERCP:$CMNCP
```

Step 6. Updating the BEA License

The BEA WebLogic Adapter for CORBA cannot be used without a valid software license. If you have downloaded the adapter for evaluation, you must obtain an evaluation license as described on the adapter download page. If you have purchased a license for the adapter, the license file is typically sent to you as an e-mail attachment.

1 *Installing the Adapter*

When you have obtained a valid license for the adapter, update your `license.bea` file by completing the following steps:

1. Save the license file that you obtained with a name other than `license.bea`, in the `BEA_HOME` directory. For example, save the file as `corba_adapter_license.bea`. Use this file as the *license_update_file* in step 4 of this procedure.

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

2. Perform the step appropriate for your platform:
 - 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. If it is not already included, add the JDK to your `PATH` variable by executing the command appropriate to your system:

- On a Windows system:

```
set PATH=BEA_HOME\jdk131_03\bin;%PATH%
```
- On a UNIX system:

```
PATH=BEA_HOME/jdk131_03/bin:$PATH
export PATH
```

4. Merge the license update file into your existing license by executing the command appropriate to your system:

- 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 to which you saved the license update file in step 1.

5. Save a copy of your updated `license.bea` file in a safe place outside the WebLogic Integration and application installation directories.

Step 7. Deploying the Adapter

After the BEA WebLogic Adapter for CORBA is installed, it must be deployed to WebLogic Server for your domain (for example, `wl1domain`). To configure and deploy an adapter using the WebLogic Server Administration Console, complete the following steps:

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

`http://localhost:port/console/`

Here, *localhost* represents the machine on which WebLogic Server is running and *port* represents the listening port.

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

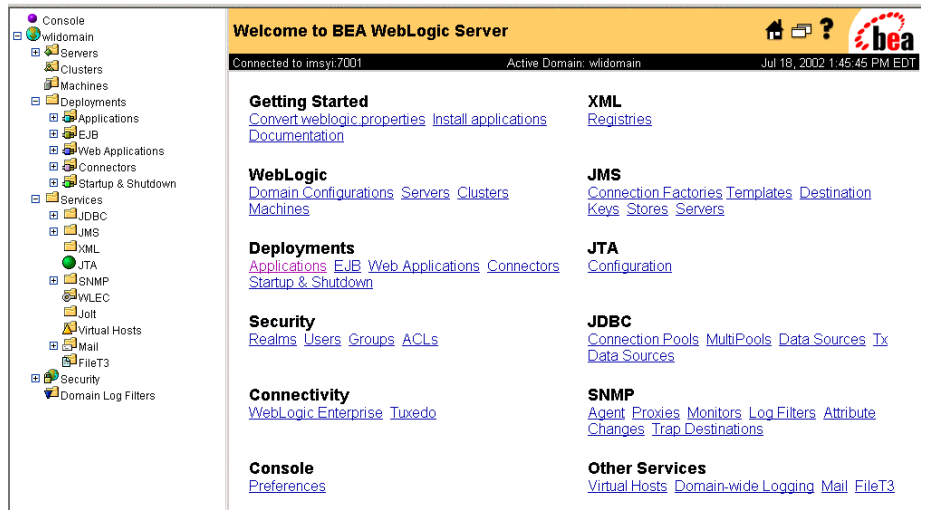
3. When prompted, enter the user name and password for the server.

Note: If you have not updated the default login, see “WebLogic Integration Users and Passwords” in *Starting, Stopping, and Customizing WebLogic Integration* at the following URL:

`http://edocs.bea.com/wlintegration/v2_1sp/config/getstart.htm`

The WebLogic Server Administration Console opens.

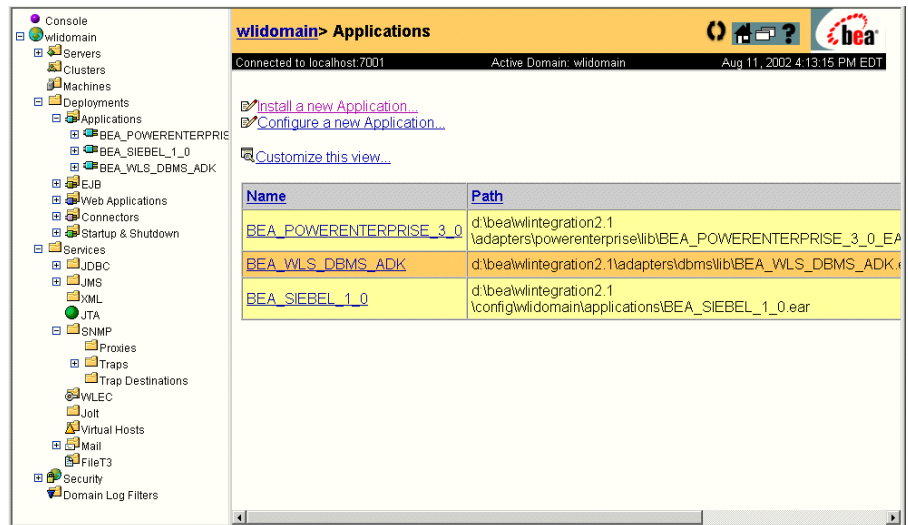
Figure 1-1 WebLogic Server Console



4. In the left pane, choose Deployments and then Applications from the navigation tree.

The console displays the Applications window.

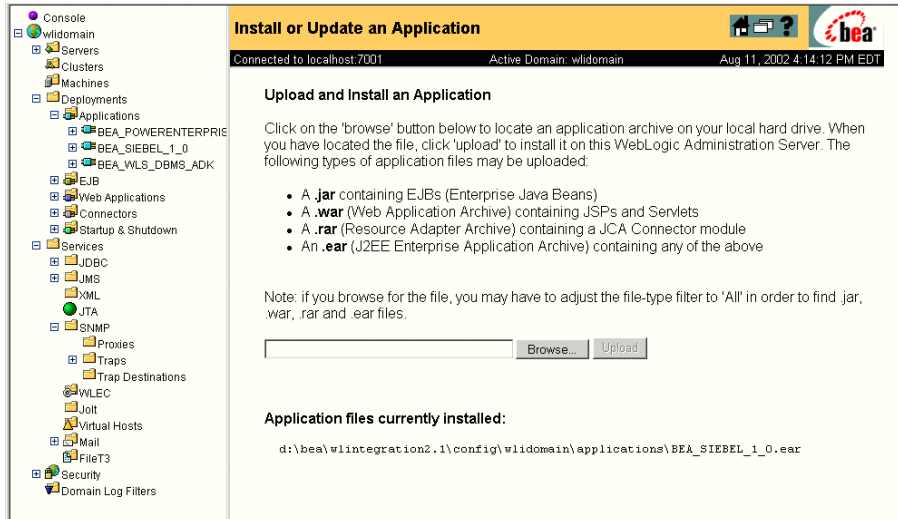
Figure 1-2 Applications Window



5. Click the Install a new Application link.

The console displays the Install or Update an Application window.

Figure 1-3 Install or Update an Application Window



6. Click Browse to locate the application archive you selected during installation (BEA_CORBA_1_0.ear).

7. Click Upload to upload the BEA_CORBA_1_0.ear file.

The console displays the application files currently installed to indicate that the upload is complete and the adapter file is deployed to WebLogic Server.

8. You can verify deployment by viewing the adapter configuration, as follows:
 - a. Choose Deployments and then Applications from the navigation tree.
 - b. Click the BEA_CORBA_1_0.ear file link.

Step 8. Adding the Administrative Server User Name

A user group, `adapter`, is defined in each domain that supports application integration functionality. Before you create an application view that employs the events or services supported by an adapter, you must add the user name defined for the administrative server to the `adapter` group.

Note: By default, the `adapter` group includes the user `system`. If the user name defined for the administrative server is `system`, skip this step. For example, if you are starting the server in a preconfigured domain, and you have not modified the default administrative server login, you can skip this step.

To add the administrative server user name to the `adapter` group, complete the following steps:

1. In the left pane of the WebLogic Server Administration Console, choose Security and then Groups from the navigation tree.

The console displays groups currently defined for the domain.

2. Locate and click the link for the `adapter` group to display the group definition.

Figure 1-4 Group Definition

The screenshot shows the WebLogic Server Administration Console interface. The breadcrumb navigation at the top reads: `eaidomain> Realms> myRealm> Groups`. Below this, a status bar indicates "Connected to localhost:7001", "Active Domain: eaidomain", and the date/time "Sep 10, 2002 7:18:19 PM EDT". The main content area is titled "Group" and displays the definition for the "adapter" group. It includes a "Name:" field with the value "adapter". Below that is a "Members:" section with a list of users: `joe`, `system`, `quest`, `hub`, `wlpisystem`, `mary`, `wlcsystem`, `admin`, and `wlcSamplesUser`. Each name is preceded by a checkbox. A note "(select to remove)" is shown below the list. At the bottom of the form are two input fields: "Add Users:" and "Add Groups:". An "Apply" button is located in the bottom right corner of the form.

3. If the administrative server user name is not included in the Members list, enter the user name in the Add Users field.
4. Click Apply to add the user name to the group.

The name is added to the Members list.

Step 9. Initializing Application Explorer for JacORB

To use the BEA Application Explorer to generate schemas for JacORB:

1. Open the BEA Application Explorer command file:

- On a Windows system, the default location of this .bat file is:

```
C:\Program Files\BEA Systems\BEA Application  
Explorer\bin\ae.bat
```

- On a UNIX system, the location of this shell script is

```
/installation_directory/bin/ae
```

For example: /home/apps/bea/bae/bin/ae

2. Uncomment the following statement:

- On a Windows system:

```
REM "%JAVACMD%" -Xbootclasspath/p:"%AE_HOME%\lib\jacorb.jar"  
-classpath "%LOCALCLASSPATH%" com.ibi.bse.gui.BseFlashScreen
```

- On a UNIX system:

```
#$JAVACMD -Xbootclasspath/p:$AE_HOME/lib/jacorb.jar  
-classpath $LOCALCLASSPATH com.ibi.bse.gui.BseFlashScreen $@
```

3. Comment the following statement:

- On a Windows system:

```
"%JAVACMD%" -classpath "%LOCALCLASSPATH%"  
com.ibi.bse.gui.BseFlashScreen
```

- On a UNIX system:

```
$JAVACMD -classpath $LOCALCLASSPATH  
com.ibi.bse.guil.BseFlashScreen $@
```

You can now generate schemas for JacORB using the BEA Application Explorer.

Next Steps

If you have not already installed the BEA Application Explorer, install it now. See the *BEA Application Explorer Installation and Configuration Guide*.

When you have successfully deployed the adapter and installed the BEA Application Explorer, you can log on to the WebLogic Integration Application View Console to create application views that employ events and services supported by the BEA WebLogic Adapter for CORBA. For more information, see the *BEA WebLogic Adapter for CORBA User Guide*.