



BEA WebLogic Adapter for J.D. Edwards® OneWorld®

Installation and Configuration Guide

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About This Document

This document explains how to install and configure the BEA WebLogic Adapter for J.D. Edwards OneWorld. This document is organized as follows:

- [Chapter 1, “Installing the BEA WebLogic Adapter for J.D. Edwards OneWorld,”](#) explains how to install the adapter.
 - [Review the Release Notes](#)
 - [Understanding the Representation of Paths](#)
 - [Step 1. Obtain the BEA WebLogic Adapter for J.D. Edwards OneWorld](#)
 - [Step 2. Configure the Domain](#)
 - [Step 3. Extract the Adapter Files and Change the WebLogic Startup Script](#)
 - [Step 4. Update the BEA License](#)
 - [Step 5. Deploy the Adapter](#)
 - [Step 6. Create an Adapter Administrative User](#)
 - [Installing the BEA Application Explorer](#)
 - [Starting Integration with J.D. Edwards OneWorld](#)
- [Chapter 2, “Installing and Configuring the J.D. Edwards OneWorld Event Listener,”](#) explains how to install and configure the J.D. Edwards OneWorld event listener.
 - [How the Event Listener Is Supplied](#)
 - [Installing the OneWorld Event Listener](#)

- [Creating iwoevent.cfg](#)
- [How the J.D. Edwards OneWorld Event Listener Works](#)
- [Sample Request and Response](#)
- [Logging and Error Handling](#)

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 Integration 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
- J.D. Edwards OneWorld software, system, and environment. This includes understanding of J.D. Edwards OneWorld tools and configuration as well as processes and data models.
- Your specific J.D. Edwards OneWorld 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 J.D. Edwards OneWorld Release Notes*
<http://edocs.bea.com/wladders/jde/docs811/pdf/relnotes.pdf>
- *BEA WebLogic Adapter for J.D. Edwards OneWorld User Guide*
<http://edocs.bea.com/wladders/jde/docs811/pdf/user.pdf>
- *BEA Application Explorer Installation and Configuration Guide*
<http://edocs.bea.com/wladders/bae/docs811/pdf/install1.pdf>
- *Introduction to the BEA WebLogic Adapters*
<http://edocs.bea.com/wladders/docs81/pdf/intro.pdf>
- BEA WebLogic Adapters 8.1.1 Dev2Dev Product Documentation
<http://dev2dev.bea.com/products/wladders/index.jsp>
- Application Integration documentation
<http://edocs.bea.com/wli/docs81/aiover/index.html>
<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>

- J.D. Edwards OneWorld documentation

<http://www.jdedwards.com>

Contact Us!

Your feedback on the BEA WebLogic Adapter for J.D. Edwards OneWorld 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 J.D. Edwards OneWorld documentation.

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

If you have any questions about this version of BEA WebLogic Adapter for J.D. Edwards OneWorld, or if you have problems using the BEA WebLogic Adapter for J.D. Edwards OneWorld, 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.

Convention	Item
monospace text	<p>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.</p> <p><i>Examples:</i></p> <pre>#include <iostream.h> void main () the pointer psz chmod u+w * \tux\data\ap .doc tux.doc BITMAP float</pre>
monospace boldface text	<p>Identifies significant words in code.</p> <p><i>Example:</i></p> <pre>void commit ()</pre>
<i>monospace italic text</i>	<p>Identifies variables in code.</p> <p><i>Example:</i></p> <pre>String <i>expr</i></pre>
UPPERCASE TEXT	<p>Indicates device names, environment variables, and logical operators.</p> <p><i>Examples:</i></p> <pre>LPT1 SIGNON OR</pre>
{ }	<p>Indicates a set of choices in a syntax line. The braces themselves should never be typed.</p>
[]	<p>Indicates optional items in a syntax line. The brackets themselves should never be typed.</p> <p><i>Example:</i></p> <pre>buildobjclient [-v] [-o name] [-f file-list]... [-l file-list]...</pre>
	<p>Separates mutually exclusive choices in a syntax line. The symbol itself should never be typed.</p>

Convention	Item
...	<p data-bbox="344 361 825 383">Indicates one of the following in a command line:</p> <ul data-bbox="344 395 1056 496" style="list-style-type: none"> <li data-bbox="344 395 1022 418">• That an argument can be repeated several times in a command line <li data-bbox="344 430 911 453">• That the statement omits additional optional arguments <li data-bbox="344 465 1056 487">• That you can enter additional parameters, values, or other information <p data-bbox="344 510 733 532">The ellipsis itself should never be typed.</p> <p data-bbox="344 545 435 567"><i>Example:</i></p> <pre data-bbox="344 579 1005 638">buildobjclient [-v] [-o name] [-f file-list]... [-l file-list]...</pre>
.	<p data-bbox="344 673 1056 718">Indicates the omission of items from a code example or from a syntax line. The vertical ellipsis itself should never be typed.</p>

Installing the BEA WebLogic Adapter for J.D. Edwards OneWorld

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

This section is organized as follows:

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

Preparing to Install the Adapter

Before you install the BEA WebLogic Adapter for J.D. Edwards OneWorld, be sure to complete the following tasks:

- [Review the Release Notes](#)
- [Understanding the Representation of Paths](#)

Review the Release Notes

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

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 `/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 `/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>

- *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\domain`.

If you use the Configuration Wizard to create a domain in the default location on a UNIX system, *DOMAIN_HOME* represents `/bea/weblogic81/user_projects/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 J.D. Edwards OneWorld with WebLogic Integration. It includes the following steps:

- [Step 1. Obtain the BEA WebLogic Adapter for J.D. Edwards OneWorld](#)
- [Step 2. Configure the Domain](#)
- [Step 3. Extract the Adapter Files and Change the WebLogic Startup 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 J.D. Edwards OneWorld

To obtain the EAR file containing the BEA WebLogic Adapter for J.D. Edwards OneWorld software (*BEA_JDEDWARDSOW_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
- Obtain the software on CD.

Step 2. Configure the Domain

You must deploy the BEA WebLogic Adapter for J.D. Edwards OneWorld 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 *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 Startup Script

This section explains how to extract the BEA WebLogic Adapter for J.D. Edwards OneWorld files and edit your WebLogic startup script (`startWeblogic`) 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 J.D. Edwards OneWorld files and edit the WebLogic script:

1. Use WinZip (or another similar extracting product) to extract the `BEA_JDEDWARDSOW_8_1.ear` file to a directory of your choice (for example, `BEA_HOME\adapters\jde`).
2. Go to the `\system\classes` directory in your J.D. Edwards environment.
3. Copy the following files from the `\system\classes` directory to a directory of your choice (for example, `BEA_HOME\adapters\jde`):
 - `Connector.jar`
 - `Kernel.jar`
4. Go to the root directory for your domain:

```
cd DOMAIN_HOME
```

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

5. 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`.

6. Find the following command in the script file:

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

7. Immediately *after* this command line, insert the following command lines so that the `CLASSPATH` and `PATH` point to the files you extracted in Step 1:

```
rem === JD Edwards One World Java Libraries and DLLs (for JNI calls) ===
```

```
set CLASSPATH=%CLASSPATH%;BEA_HOME\adapters\jde\Connector.jar
```

```
set CLASSPATH=%CLASSPATH%;BEA_HOME\adapters\jde\Kernel.jar
```

Here, `BEA_HOME\AdapterEars\jde` is the directory specified in step 1.

```
rem ===== Adding jde win32 directory to PATH =====
```

```
set PATH=%PATH%;BEA_HOME\adapters\jde\win32
```

8. Save your changes and close the script file.

Extracting Files and Adjusting the Classpath for UNIX

To extract the BEA WebLogic Adapter for J.D. Edwards OneWorld files and edit the WebLogic startup script:

1. Use `jar` (or another similar extracting product) to extract `BEA_JDEDWARDSOW_8_1.ear` to a directory of your choice (for example, `BEA_HOME/adapters/jde`).
2. Go to the `/system/classes` directory in your J.D. Edwards environment.
3. Copy the following files from the `/system/classes` directory to a directory of your choice (for example, `BEA_HOME/adapters/jde/`):
 - `Connector.jar`
 - `Kernel.jar`
4. Go to the root directory for your domain:

```
cd DOMAIN_HOME
```

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

5. 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`.

6. Find the following command in the script file:

```
set CLASSPATH="${ARDIR}/ant/ant.jar;${JAVA_HOME}/jre/lib/rt.jar"
```

7. Immediately after this command line, insert the command lines so that the `CLASSPATH` and `PATH` point to the files you extracted in Step 1:

```
rem === JD Edwards OneWorld Java Libraries and DLL's (for JNI calls) ===
set CLASSPATH=$CLASSPATH:BEA_HOME/adapters/jde/Connector.jar
set CLASSPATH=$CLASSPATH:BEA_HOME/adapters/jde/Kernel.jar

rem ===== Adding jde directory to PATH =====
set PATH=$PATH:BEA_HOME/adapters/jde/your_UNIX_system
```

Here, `BEA_HOME/adapters/jde` is the directory specified in step 1, and `your_UNIX_system` is `hpux`, `solaris`, or `aix`, depending on your UNIX system.

8. Save your changes and close the script file.

Step 4. Update the BEA License

In order to use the BEA WebLogic Adapter for J.D. Edwards OneWorld 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 `jde_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 J.D. Edwards OneWorld, 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/`

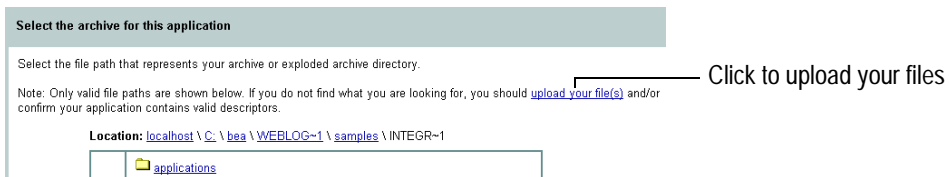
3. Enter the user name and password for the server.

The WebLogic Server Administration Console appears.



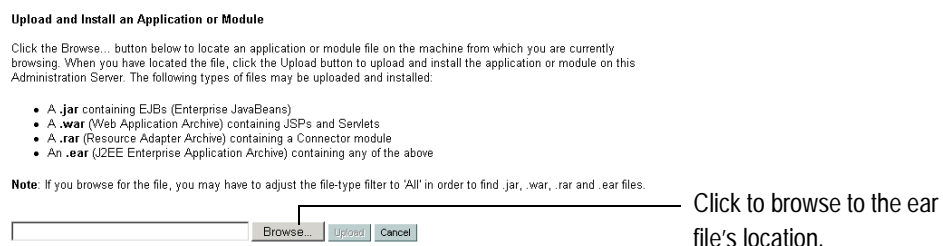
4. In the left pane, expand the Deployments node.
5. Under the Deployments node, right-click Applications, and select Deploy a New Application.

The Administration Console displays the Deployment Assistant in the right panel.



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

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



7. Click Browse, navigate to the directory in which the BEA_JDEDWARDSOW_8_1.ear file resides, and then click Upload.

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: localhost \ C: \ bea \ WEBLOG-1 \ samples \ domains \ INTEGR-1 \ cgServer \ upload

Click to confirm the upload

Continue

8. 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).

Deploy an Application

Review your choices and deploy

Deployment Targets

Your application will be deployed to the following locations:

BEA_JDEDWARDSOW_8_1 will be deployed to

Servers - cgServer

Source Accessibility

Since this is a single server environment, no further stage configuration is required. The server will access this application's files from the location specified.

Identify

Enter a name to be used to identify this application.

Name

The name of this application deployment.

9. Click Deploy.

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

Configuration | Targets | **Deploy** | Notes

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_JDEDWARDSOW_8_1_Web	Inactive	cgServer	Server	In Progress

Deployment Status for Connector Modules

Module	Module Status	Target	Target Type	Status of Last Action
BEA_JDEDWARDSOW_8_1_rat	Inactive	cgServer	Server	In Progress

When this status is success, you can go to the next step.

Step 6. Create an Adapter Administrative User

If you want to manage security for the BEA WebLogic Adapter for J.D. Edwards OneWorld, you can create an administrative user (such as `jdeAdapterAdmin`) 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...](#)

Click to configure a new user.

Filter By:

User	Description	Provider	
weblogic	weblogic	DefaultAuthenticator	
installadministrator	installadministrator	DefaultAuthenticator	

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.

Enter the user information.

6. Enter the user name, description and password, and then click Apply.

The User page appears.

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

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

Name: MyAdapterAdmin
The login name for this user.

Description: MyAdapter Administrator
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.

- Click the Groups tab.

The Groups page appears.

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

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

Group Membership:

Possible Groups	Current Groups
Administrators	
Deployers	
IntegrationAdministrators	
IntegrationDeployers	
IntegrationMonitors	
IntegrationOperators	
IntegrationUsers	
Monitors	
Operators	
TaskCreationGroup	

Apply

Select a group for the user.

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

Next Steps

After you have finished installing the BEA WebLogic Adapter for J.D. Edwards OneWorld, you can proceed to the following tasks:

- [Installing the BEA Application Explorer](#)
- [Installing the J.D. Edwards OneWorld Event Listener](#)

- [Starting Integration with J.D. Edwards OneWorld](#)

Installing the BEA Application Explorer

To proceed, you must install the BEA Application Explorer. If you have not already done so, install it now. To learn more about installing the BEA Application Explorer, see the *BEA Application Explorer Installation and Configuration Guide* at the following URL:

<http://edocs.bea.com/wladapters/bae/docs811/pdf/install.pdf>

Installing the J.D. Edwards OneWorld Event Listener

To learn more about installing the J.D. Edwards OneWorld event listener, see [Chapter 2, “Installing and Configuring the J.D. Edwards OneWorld Event Listener.”](#)

Starting Integration with J.D. Edwards OneWorld

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

<http://edocs.bea.com/wladapters/jde/docs811/pdf/user.pdf>

Installing and Configuring the J.D. Edwards OneWorld Event Listener

The OneWorld Event Listener is invoked by J.D. Edwards OneWorld for specific business functions as configured in the J.D. Edwards OneWorld environment. For related information, refer to Appendix A, “Configuring J.D. Edwards OneWorld for Outbound Processing,” in the *BEA WebLogic Adapter for J.D. Edwards OneWorld User Guide*.

This section describes how to install and configure the J.D. Edwards OneWorld Event Listener for use with specific business functions. It includes the following topics:

- [How the Event Listener Is Supplied](#)
- [Installing the OneWorld Event Listener](#)
- [Creating iwoevent.cfg](#)
- [How the J.D. Edwards OneWorld Event Listener Works](#)
- [Sample Request and Response](#)
- [Logging and Error Handling](#)

How the Event Listener Is Supplied

The J.D. Edwards OneWorld Event Listener (`iwoevent`) is supplied in the `BEA_JDEDWARDSOW_SAMPLES.zip` file, in the directory path `\LISTENERS\operating_system`. For example, for Microsoft Windows 2000, the module is located in the `\LISTENERS\win32\` subdirectory and is named `plugin.dll`.

Installing the OneWorld Event Listener

To install the J.D. Edwards OneWorld Event Listener, perform the following steps:

1. Create a directory in which the module will reside. To create a directory, go to the desired root directory, such as the BEA home directory, and enter the following command:

```
mkdir dirname
```

Here, *dirname* is the name of the subdirectory to be created.

Note: If the WebLogic Server is not installed on the same computer as the J.D. Edwards OneWorld application server, you may need to create a BEA root directory first.

2. Extract the module for your J.D. Edwards OneWorld server operating system from the `BEA_JDEDWARDSOW_SAMPLES.zip` file using a utility such as Winzip on Windows, or jar on UNIX.
3. On the J.D. Edwards OneWorld server, create an `iwoevent.cfg` file in the defined directory. Refer to the section [“Creating iwoevent.cfg” on page 2-2](#) for information on the contents of that file.
4. Create an environment variable `IWOEVENT_HOME` to point to the directory containing the `iwoevent.cfg` file.
 - On Windows: Add `IWOEVENT_HOME` to the system environment variables.
 - On UNIX: Add the following command to your startup script:

```
export IWOEVENT_HOME =/directory_name
```

Creating iwoevent.cfg

For the J.D. Edwards OneWorld Event Listener to properly initiate events in WebLogic Integration, connection information for the associated WebLogic Server must be available. This information is contained in the `iwoevent.cfg` file. You must create this file and add the connection information to it.

A sample `iwoevent.cfg` file is installed in `BEA_JDEDWARDSOW_SAMPLES.zip` and is in the root path. You must add server and port entries that are specific to your environment to `iwoevent.cfg`.

The `iwoevent.cfg` file has three distinct sections:

1. Common

The common section of the configuration file contains basic configuration options. Currently, only the trace option is supported. Use `on` or `off`, which is the default, to set the trace option.

```
common.trace=on|off
```

2. Alias

The alias section of the configuration file contains the connection information required to send transactions to specific servers.

```
alias.aliasname=ipaddress|dsn:port[, trace=on]
```

The alias values to these entries are defined as follows:

- *aliasname* is the symbolic name given to the connection.
- *Ipaddress|dsn* is the IP address or DSN name for the server containing the BEA WebLogic Adapter for JD Edwards OneWorld (required).
- *Port* is the port defined for the BEA WebLogic Adapter for JD Edwards OneWorld (required).
- `Trace=on` enables tracing for the particular alias (optional).

3. Trans

The trans section of the configuration file contains transaction information required to route JD Edwards OneWorld transactions to specified servers.

```
trans.jdeTransactionName=alias1,alias2,aliasn
```

The trans values to these entries are as follows:

- *jdeTransactionName* is the JDE-defined name for the outbound transaction.
- *alias1,alias2,alias3* is the list of aliases to which the transactions are sent.

Note: If a particular JD Edwards OneWorld transaction is not defined to an alias, it is sent to all aliases.

Sample

The following is a sample entry from `iwoevent.cfg` that supplies connection information:

Listing 2-1 Sample Entry from `iwoevent.cfg`

```
common.trace=on  
  
alias.edamcs1=172.1.1.1:3694  
alias.edamcs1t=172.1.1.1:3694, trace=on  
alias.edamcs2=222.2.2.2:1234  
  
trans.JDESOW=edamcs1t,edamcs2  
trans.JDEPOOUT=edamcs1
```

How the J.D. Edwards OneWorld Event Listener Works

The J.D. Edwards OneWorld Event Listener is comprised of the listener module (`iwoevent`), which is deployed under the J.D. Edwards OneWorld server, and the outbound agent (`XDJdeOutboundAgent`), which is deployed on WebLogic Server. The listener module passes the key fields from the outbound transaction table record for the event to WebLogic Server for processing. The outbound agent then uses the key fields to retrieve the event information.

The J.D. Edwards OneWorld Listener accesses the configuration file, called `iwoevent.cfg` (case-sensitive), and based on the information in the file, sends the event notification to WebLogic Server. If WebLogic Server is unavailable or some exception occurs, the listener saves the event information in a file called `timestamp.xml`. In this file name, `timestamp` is a number indicating the time. All the log information is saved in a file called `iwoevent.log`.

When WebLogic Server receives an XML request from the listener exit, it invokes the `XDJdeOutboundAgent` to process the request. The `XDJdeOutboundAgent` creates a J.D. Edwards XML request and executes the request against the J.D. Edwards OneWorld system.

Sample Request and Response

Here is a sample request sent to J.D. Edwards OneWorld by the listener exit to retrieve event information.

Listing 2-2 Sample Request

```
<jdeRequest environment="DV7333" user="JDE" type="trans" sessionidle="
300" session="" pwd="JDE">
  <transaction type="JDES00UT" action="transactionInfo">
    <key>
      <column name="EdiUserId">islywm</column>
      <column name="EdiBatchNumber">100</column>
      <column name="EdiTransactionNumber">100100</column>
    </key>
  </transaction>
</jdeRequest>
```

Here is a sample response from J.D. Edwards OneWorld as processed by the outbound agent.

Listing 2-3 Sample Response

```
<jdeResponse type='trans' user='user' session='session1'
environment='env'>
  <transaction type='JDES00UT' action='transactionInfo'>
    <returnCode code='0'>XML Request OK</returnCode>
    <key>
      <column name='EdiUserId'></column>
      <column name='EdiBatchNumber'></column>
      <column name='EdiTransactNumber'></column>
    </key>
    <table name='F4201Z1' type='header'>
      <column name='EdiUserId'></column>
      <column name='EdiBatchNumber'></column>
```

```
</table>
<table name='F4211Z1' type='detail'>
  <column name='EdiUserId'></column>
  <column name='EdiBatchNumber'></column>
</table>
<table name='F49211Z1' type='additionalHeader'>
  <WARNING>No record found</WARNING>
</table>
</transaction>
</jdeResponse>
```

The connection setting for retrieving information from J.D. Edwards OneWorld is defined at event creation time.

Logging and Error Handling

The client listener provides a log of each transaction it processes. The log is placed in the directory specified by the `IWOEVENT_HOME` environment variable. For more information on the `IWOEVENT_HOME` variable, see [Installing the OneWorld Event Listener](#).

When there is an event failure, the event payload is saved to the local file system in a sub-directory of the `IWOEVENT_HOME` directory. For example, if the `IWOEVENT_HOME` environmental variable is set to `d:\IWOEVENT`, the BEA WebLogic Adapter for JD Edwards OneWorld is not available, and you have the alias `edamcs1`, then the event information is saved to the following directory

```
d:\IWOEVENT\edamcs1
```

The following listing is a sample portion of the log file.

Listing 2-4 Sample Portion of Log File

```
.
.
.
Event call begin...
userId           : JDE
batchNumber      : 0
```

```

transactionNumber: 102628
lineNumber       : 2.000000
transactionType  : JDEWO
sequenceNumber   : 1.000000
Request xml:
=====
<?xml version="1.0" encoding="UTF-8"?><eda><request><connection><dsn
/><user /><password /><sp><proc>JDEWO  </proc><data><ediUserId>JDE
</ediUserId><ediBatchNumber>0
</ediBatchNumber><ediTransactionNumber>102628
</ediTransactionNumber></data></sp></connection></request></eda>
=====
Connection failed with Error

```

```

connect socket failed: IO_DRIVERERROR
WSAECONNREFUSED(274D)

```

```

Payload dumped into file
[g:\jdedwardsoneworld\ddp\b7333\outbound\ibiwfk\1055355515.xml]

```

```

Event call begin...
userId          : JDE
batchNumber     : 0
transactionNumber: 102629
lineNumber     : 2.000000
transactionType : JDEWO
sequenceNumber  : 1.000000
Request xml:
=====
<?xml version="1.0" encoding="UTF-8"?><eda><request><connection><dsn
/><user /><password /><sp><proc>JDEWO  </proc><data><ediUserId>JDE
</ediUserId><ediBatchNumber>0
</ediBatchNumber><ediTransactionNumber>102629
</ediTransactionNumber></data></sp></connection></request></eda>
=====
Connection failed with Error

```

```
connect socket failed: IO_DRIVERERROR  
WSAECONNREFUSED(274D)
```

```
.  
. .  
.
```

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