Oracle®

Application Adapter Installation Guide
(SAP R/3, Siebel, PeopleSoft, J.D. Edwards)

WebLogic Server 10*g* Release 3 (10.3.1.0)

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Oracle Application Adapter Installation Guide, WebLogic Server 10*g* Release 3 (10.3.1.0)

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Preface

This Preface contains the following topics:

Audience

The *Oracle Application Adapter (WebLogic Server 10gr3) Installation Guide* is intended for system administrators who install and configure ERP application adapters.

Documentation Accessibility

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AT&T Customer Assistant contacts Oracle Support Services, an Oracle Support Services engineer will handle technical issues and provide customer support according to the Oracle service request process.

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
`monospace`	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

1 Introduction

This chapter provides an overview of Oracle Application Adapters (WebLogic Server 10gr3). It contains the following topics:

Oracle Application Adapters (WebLogic Server 10gr3) Overview

The Oracle Application Adapters (WebLogic Server 10gr3) CD enables you to install the following types of adapters:

Packaged Application Adapters

Packaged application adapters integrate Oracle WebLogic Server with various packaged applications, such as SAP R/3 and Siebel. These adapters include Oracle Application Adapter for PeopleSoft, Oracle Application Adapter for SAP R/3, Oracle Application Adapter for Siebel, and Oracle Application Adapter for J.D. Edwards.

Table 1–1 describes the packaged application adapters.

Table 1–1 Oracle WebLogic Server Application Adapters for Packaged Applications

Adapter	Description
Oracle Application Adapter for J.D. Edwards	Provides comprehensive, bidirectional, and standards-based connectivity to J.D.Edwards applications.
Oracle Application Adapter for PeopleSoft	Provides comprehensive, bidirectional, and standards-based connectivity to PeopleSoft applications.
Oracle Application Adapter for Siebel	Connects Oracle WebLogic Server to a Siebel system by providing unique features that minimize the implementation effort.
Oracle Application Adapter for SAP R/3	Connects Oracle WebLogic Server to an SAP R/3 system through Oracle Application Adapter for SAP R/3 to provide connectivity and carry out interactions on an SAP system.

Types of Installation

Packaged application adapters can be deployed as a:

- J2CA 1.0 resource adapter and test servlet for J2CA deployments
- Web services servlet within Oracle WebLogic Server, which is known as Oracle Adapter Business Services Engine (BSE)

Oracle Adapter Application Explorer (WebLogic Server 10gr3) (Application Explorer) is also provided to configure Oracle Application Adapters for packaged applications (for J2CA and BSE deployments).

Oracle Application Adapters (WebLogic Server 10gr3) System Requirements

The following sections describe the system requirements for installing Oracle WebLogic Server Application Adapters:

Hardware Requirements

Table 1–2 lists the hardware requirements for the computer where Oracle WebLogic Server Application Adapters will be installed.

Table 1–2 Hardware Requirements

Hardware	Windows 2000	Solaris	Linux
Disk Space (to install all adapters)	200 MB	200 MB	200 MB
Memory	256 MB	256 MB	256 MB

Software Requirements

The following section describes the Oracle Application Adapters (WebLogic Server 10gr3) software requirements:

Operating System Requirements

Table 1–3 lists the operating system requirements for the computer where Oracle Application Adapters will be installed.

Table 1–3 Operating System Requirements

Operating System	Version
HP-UX	HP-UX (PA-RISC) 11.11, 11.23
Linux (x86)	Red Hat Enterprise Linux 3.0, 4.0 SuSE SLES8, SLES9 **See Also:** *Oracle WebLogic Server Installation Guide for Microsoft Windows* for Linux x86 for information about any required operating system patches and packages and kernel parameter settings

Table 1–3 (Cont.) Operating System Requirements

Operating System	Version
Sun SPARC Solaris	Sun SPARC Solaris 8, 9, 10 **See Also:** *Oracle WebLogic Server Installation Guide for Microsoft Windows* for Solaris for information about any required operating system patches and packages, swap space requirements, and kernel parameter settings
Microsoft Windows	Windows XP Professional, Windows 2000 (SP3 or later), Windows 2003 **See Also:** *Oracle WebLogic Server Installation Guide for Microsoft Windows* for information on processor, `TEMP` directory, virtual memory, and swap space requirements

2

Installation and Configuration

This chapter describes how to install and configure Application Adapters for Oracle WebLogic Server. It contains the following topics:

Installing Application Adapters 10g Release 3 (10.3.1.0)

Application Adapters can be installed with the following:

- Oracle WebLogic Server 10g Release 3 (10.3.1.0)
- Oracle Service Bus 10g Release 3 (10.3.1.0)

To install Application Adapters, perform the following steps:

1. Install Java Development Kit (JDK) version 1.6 on the machine, since it is a prerequisite.

   Application Adapters are certified with JDK version 1.6.

2. Ensure that the JDK is added to your system PATH or on one of the pre-defined paths.

   If you have multiple JDK versions other than 1.6 installed on your system, ensure that JDK 1.6 is listed first in your system PATH. The installation program should install the adapters only with JDK 1.6. The adapters should not be installed with any other JDK version.

3. Navigate to the location on your system where the installation executable file is located.

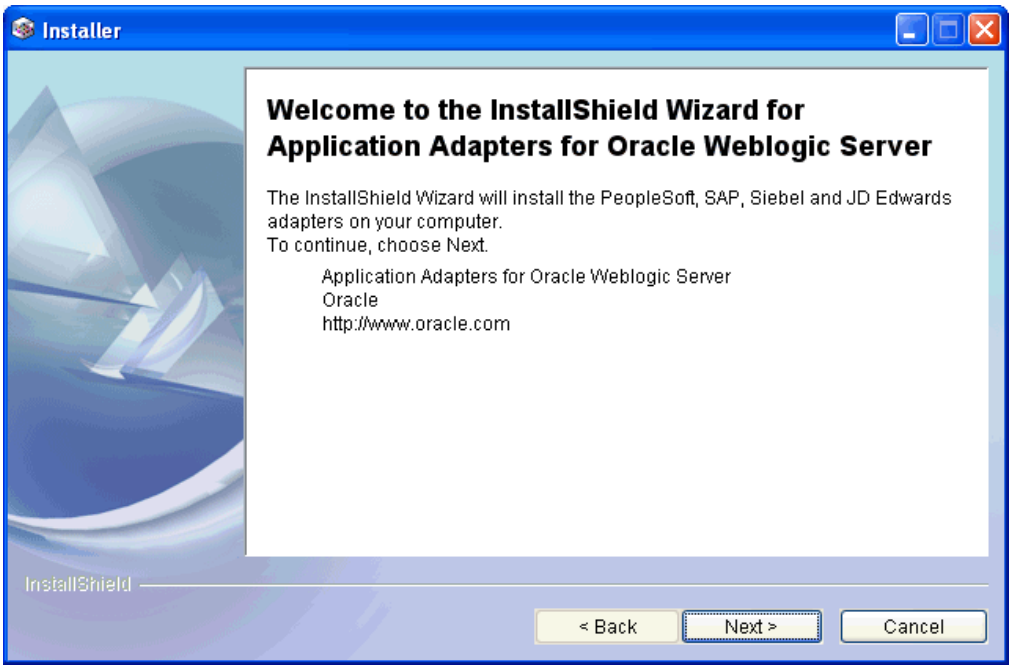
   On Windows:

   ```
   iwosb.erp-adapters.win32.exe
   ```

4. Double-click this file to start the Application Adapters for Oracle WebLogic Server installation program.

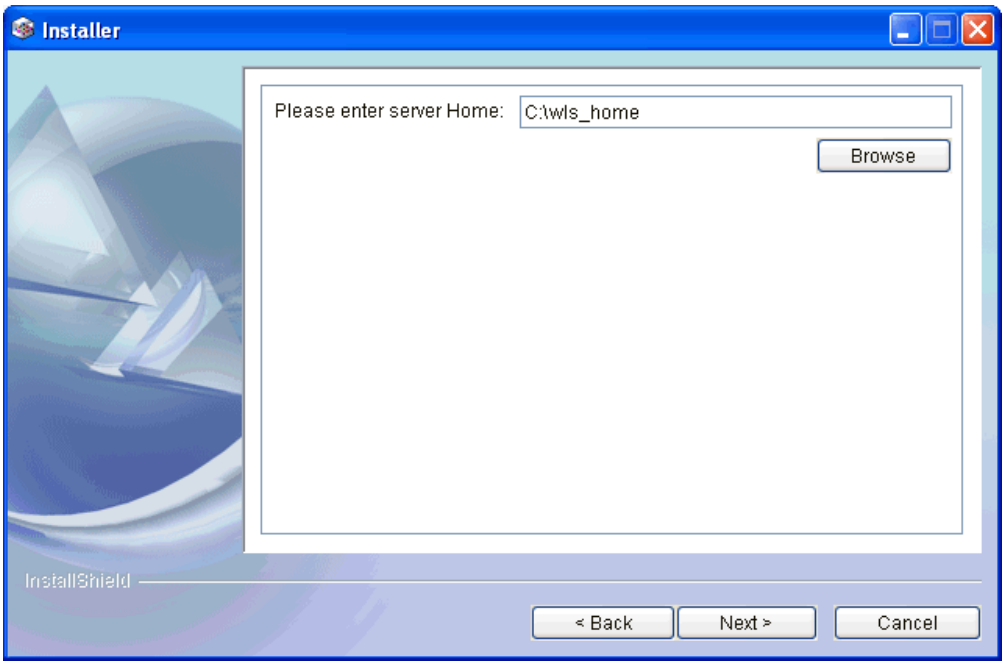
   The installation program uses the JDK version that is available in your system PATH or on one of the pre-defined paths.

The Welcome screen is displayed as shown in the following image.



5. Click **Next**.

   The Oracle WebLogic Server Home screen is displayed as shown in the following image.



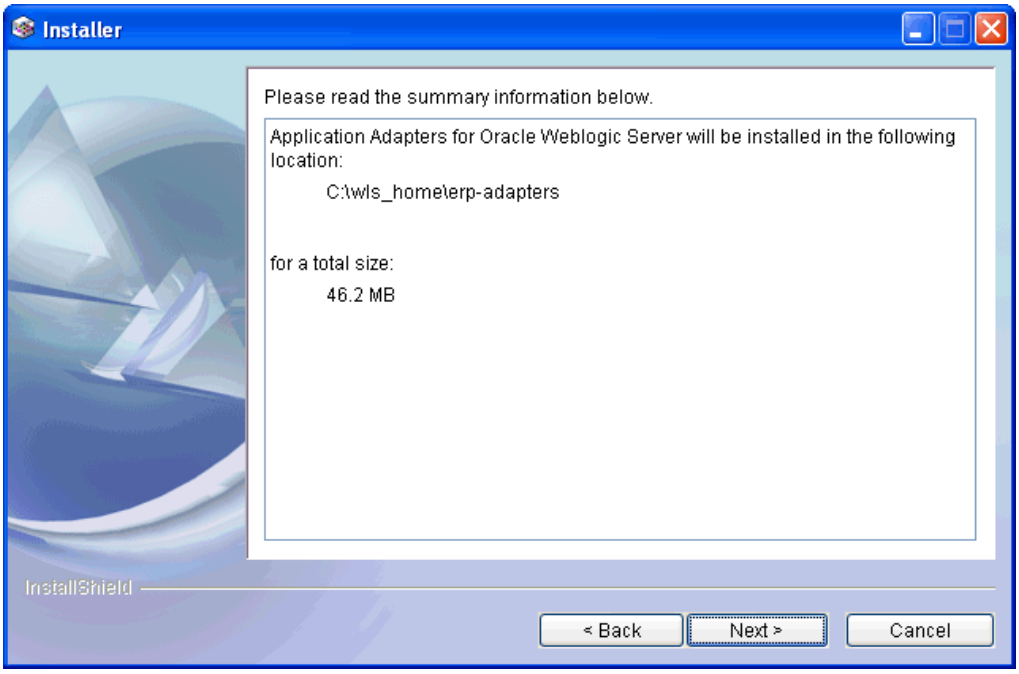
6. Enter the path where Oracle WebLogic Server is installed on your system. For example:

   `C:\wls_home`

   The installation program will create a subdirectory called erp-adapters under the Oracle WebLogic Server home where all the ERP adapter-related files are installed.

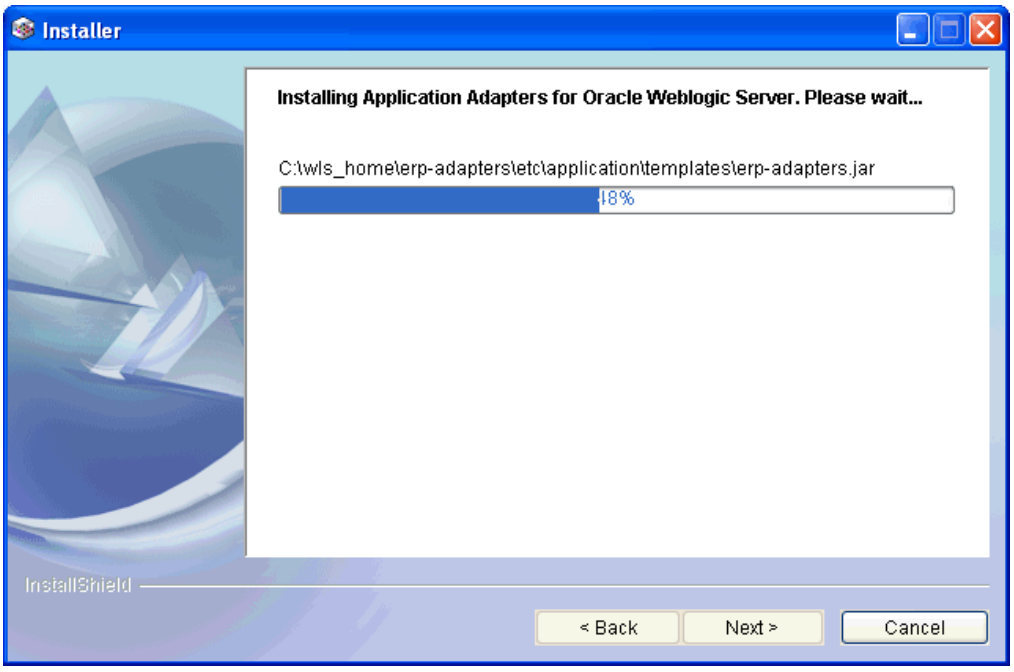
7. Click **Next**.

   The Summary screen is displayed as shown in the following image.

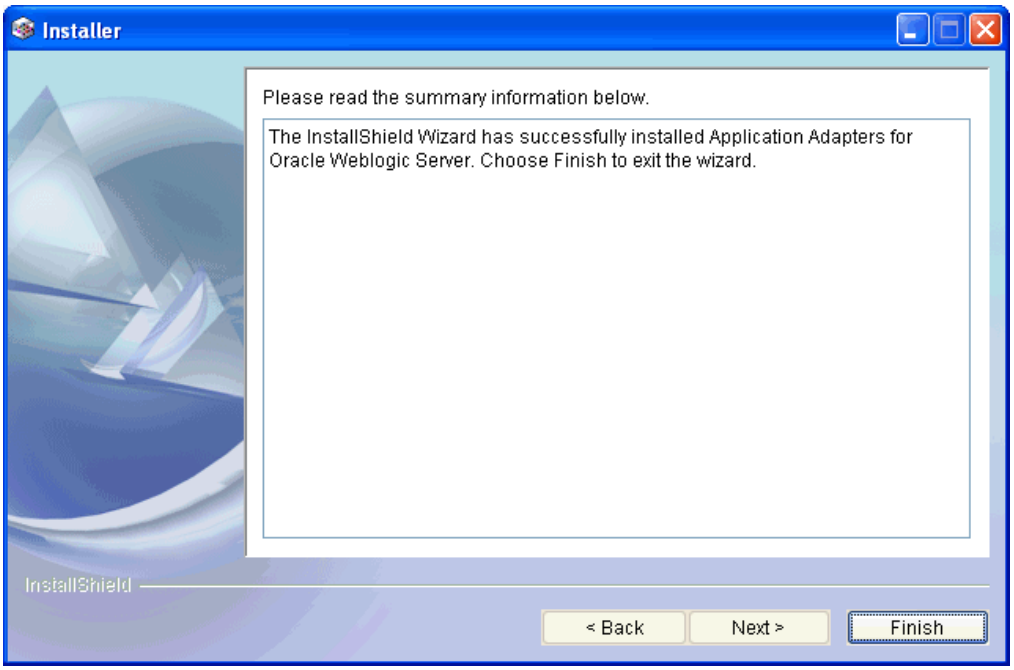


8. Review specific details on the Summary screen, including the disk requirements to ensure that you have sufficient disk space, and click **Next** to begin the installation.

   A Status screen is displayed as shown in the following image.



   After the installation is complete, an Install Confirmation screen is displayed as shown in the following image.



9. Click **Finish**.

   The Application Adapters for Oracle WebLogic Server are now installed on your system in the following directory:

   ```
   C:\wls_home\erp-adapters
   ```

Running the Installation Program From a Command Line

If you want the installation program to use a JDK version in a specific path, you can invoke the installer by performing the following steps:

1. Navigate to the command prompt for your system.
2. Enter the following command:

   ```
   iwosb.erp-adapters.win32.exe -is:javahome c:\myfolder\jdk1.6
   ```

   In this example, the installation program will run using JDK version 1.6.

Configuring Oracle Adapter Application Explorer

Before you can use Application Explorer to publish WSDL files to Oracle Service Bus (OSB) projects, you must add th following OSB .jar files to the classpath:

```
c:\bea\osb_10.3\lib\sb-kernel-api.jar;
c:\bea\modules\com.bea.common.configfwk_1.2.1.0.jar;
c:\bea\modules\com.bea.core.management.jmx_1.1.0.0.jar;
c:\bea\modules\com.bea.core.management.core_2.3.0.0.jar;
c:\bea\wlserver_10.3\server\lib\weblogic.jar;
```

You must also create a repository where your Web services are stored. Since you can deploy Application Explorer using the Oracle Adapter Business Services Engine (BSE) (WebLogic Server 10gr3) or Oracle Adapter J2CA (WebLogic Server 10gr3), each implementation requires you to configure a specific repository before you can explore Enterprise Information System (EIS) metadata. The information in the repository is also referenced at run-time.

The BSE exposes, as Web services, enterprise assets that are accessible from adapters regardless of the programming language or the particular operating system. In addition, you can use BSE as a stand-alone Java application running in Oracle WebLogic Server.

The J2CA runs in J2EE Connector Architecture compliant application servers and uses the Common Client Interface (CCI) to provide integration services using Application Adapters for Oracle WebLogic Server. After you deploy the connector, you can access the adapters.

Creating a Configuration for Oracle Adapter Business Services Engine

To create a configuration for Oracle Adapter Business Services Engine (BSE) (WebLogic Server 10gr3) using Application Explorer, you must first define a new configuration. This is a prerequisite for deploying BSE as a Web application in Oracle WebLogic Server.

Defining a New Configuration for BSE

To define a new configuration for BSE:

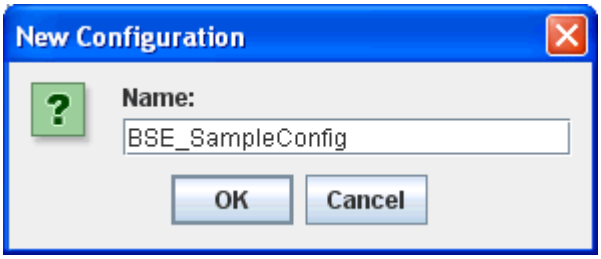
1. Start Application Explorer by executing the ae.bat file, which is located in the following directory:

   ```
   wls_home\erp-adapters\tools\iwae\bin\ae.bat
   ```

   You can also create a shortcut for the ae.bat file on your desktop.

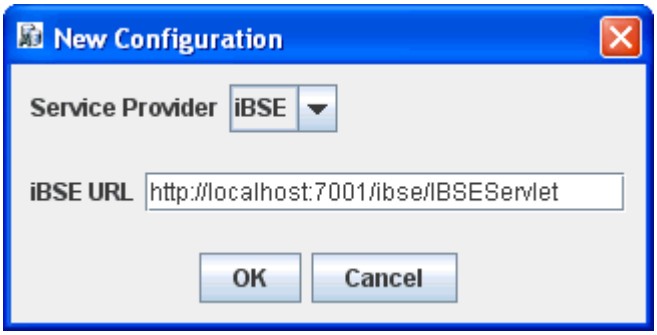
2. Right-click **Configurations** and select **New**.

   The New Configuration dialog box is displayed.



3. Enter a name for the new configuration, for example, BSE_SampleConfig, and click **OK**.

   Please note that the name of the BSE configuration that is specified here will be used during the BSE deployment process.



4. From the **Service Provider** drop-down list, select **iBSE**.

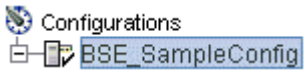
5. In the **iBSE URL** field, accept the default URL or replace it with a different URL with the following format:

   `http://host name:port/ibse/IBSEServlet`

   Where `host name` is the system on which Oracle WebLogic Server resides and `port` is the HTTP port number where Oracle WebLogic Server is listening.

6. Click **OK**.

   A node representing the new configuration appears beneath the root Configurations node.



Creating a Configuration for OracleWLS Adapter J2EE Connector Architecture

To create a configuration for Oracle Adapter J2EE Connector Architecture (J2CA) using Application Explorer, you must first define a new configuration. This is a prerequisite for deploying J2CA as a Web application in Oracle WebLogic Server.

Defining a New Configuration for J2CA

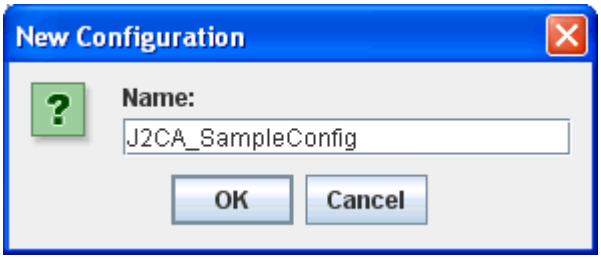
To define a new configuration for J2CA:

1. Start Application Explorer by executing the ae.bat file, which is located in the following directory:

   `wls_home\erp-adapters\tools\iwae\bin\ae.bat`
   You can also create a shortcut for the ae.bat file on your desktop.

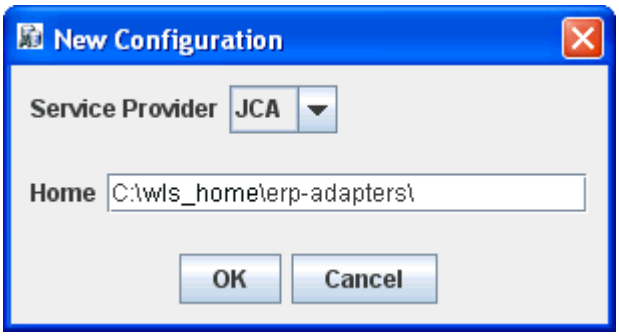
2. Right-click **Configurations** and select **New**.

   The New Configuration dialog box is displayed.



3. Enter a name for the new configuration, for example, J2CA_SampleConfig, and click **OK**.

   Please note that the name of the J2CA configuration that is specified here will be used during the J2CA deployment process.

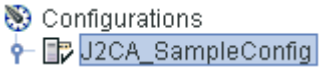


4. From the **Service Provider** list, select JCA.
5. In the **Home** field, enter a path to your J2CA configuration directory where the repository, schemas, and other information is stored, for example:

   ```
   wls_home\erp-adapters\
   ```

6. Click **OK**.

   A node representing the new configuration appears beneath the root Configurations node.



Configuring and Deploying J2CA

This section describes how to configure settings for the J2CA Connector Application and J2CA Installation Verification Program (IVP). Once the appropriate settings are configured according to your requirements, you must first deploy the J2CA Connector Application for use with Oracle WebLogic Server using the Oracle WebLogic Server Administration Console. Once the J2CA Connector Application is deployed successfully, you can configure and deploy the J2CA Installation Verification Program (IVP).

Configuring Settings for the J2CA Connector Application

To configure settings for the J2CA Connector Application:

1. Locate the ra.xml file, which is located in the following directory:

   ```
   wls_home\erp-adapters\iwafjca.rar\META-INF\ra.xml
   ```

2. Open the ra.xml file in an editor.
3. Enter a value for the IWayHome property.

   This is the folder where the adapters are installed. For example:

   ```
   <config-property>
      <config-property-name>IWayHome</config-property-name>
      <config-property-type>java.lang.String</config-property-type>
      <config-property-value>c:\wls_home\erp-adapters\</config-property-value>
   </config-property>
   ```

4. Enter a value for the IWayConfig property.

   This is the value that you specified when you created a new J2CA configuration using Application Explorer. For example:

   ```
   <config-property>
   ```

```
    <config-property-name>IWayConfig</config-property-name>
    <config-property-type>java.lang.String</config-property-type>
    <config-property-value>J2CA_SampleConfig</config-property-value>
</config-property>
```

5. Enter a value for the Loglevel property.

   This property can be set to DEBUG, INFO, or ERROR. For example:

```
<config-property>
    <config-property-name>LogLevel</config-property-name>
    <config-property-type>java.lang.String</config-property-type>
    <config-property-value>DEBUG</config-property-value>
</config-property>
```

6. Save the ra.xml file and exit the editor.

Deploying the J2CA Connector Application Using the Oracle WebLogic Server Administration Console

To deploy the J2CA Connector Application:

1. Start the Oracle WebLogic Server for the Oracle WebLogic Server domain that you have configured.
2. Open the Oracle WebLogic Server Administration Console in a Web browser by entering the following URL:

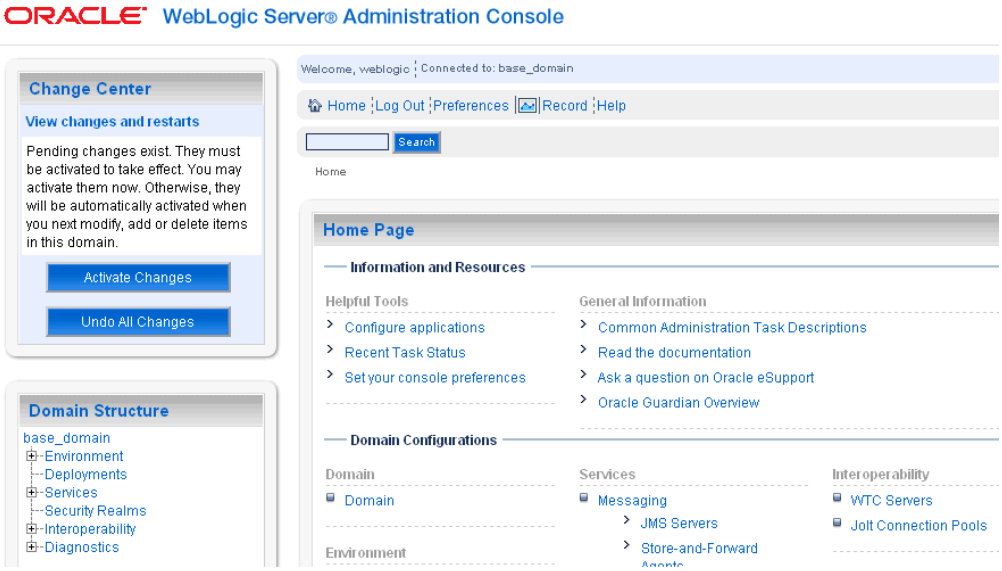
```
http://hostname:port/console
```

Where hostname is the name of the machine where Oracle WebLogic Server is running and port is the port for the domain you are using. The port for the default domain is 7001.

The Oracle WebLogic Server Administration Console logon page is displayed.

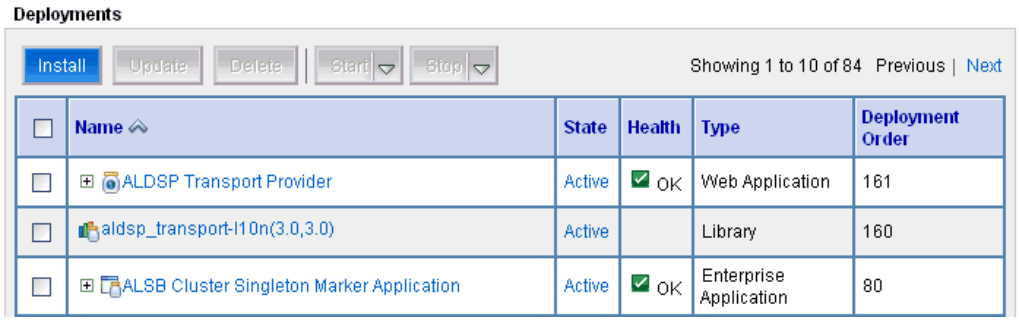
3. Log on to the Oracle WebLogic Server Administrative Console using an account that has administrator privileges.

   The Oracle WebLogic Server Administration Console home page is displayed.



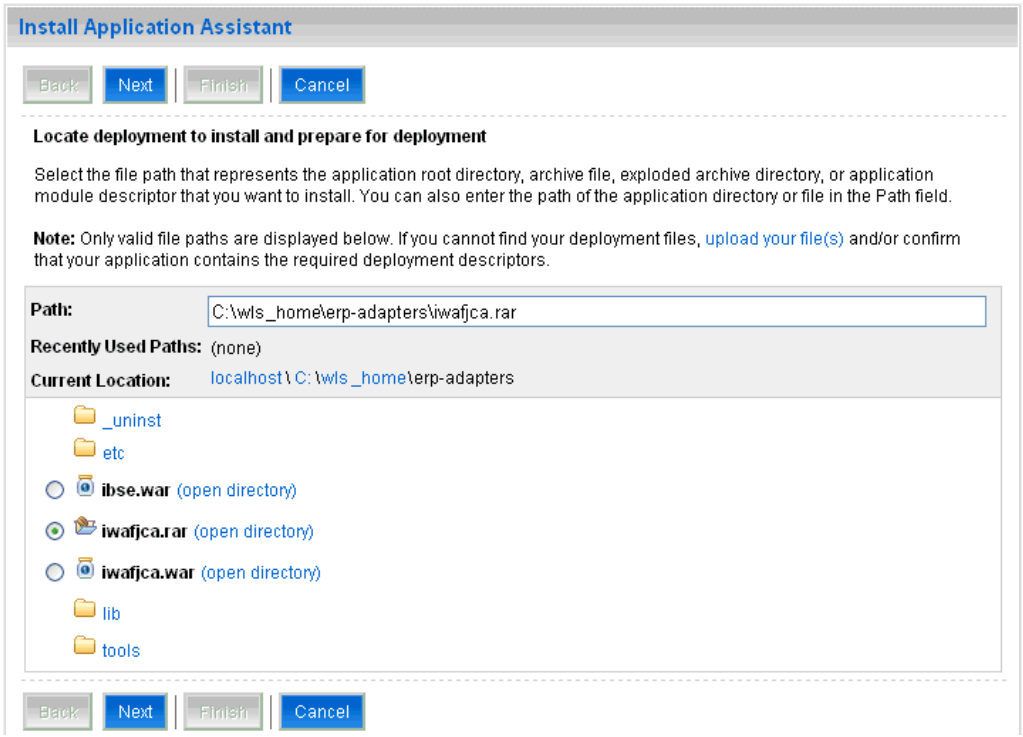
4. In the Domain Structure section in the left pane, click **Deployments**

   The Deployments page is displayed.



5. Click **Install**.

   The Install Application Assistant page is displayed.

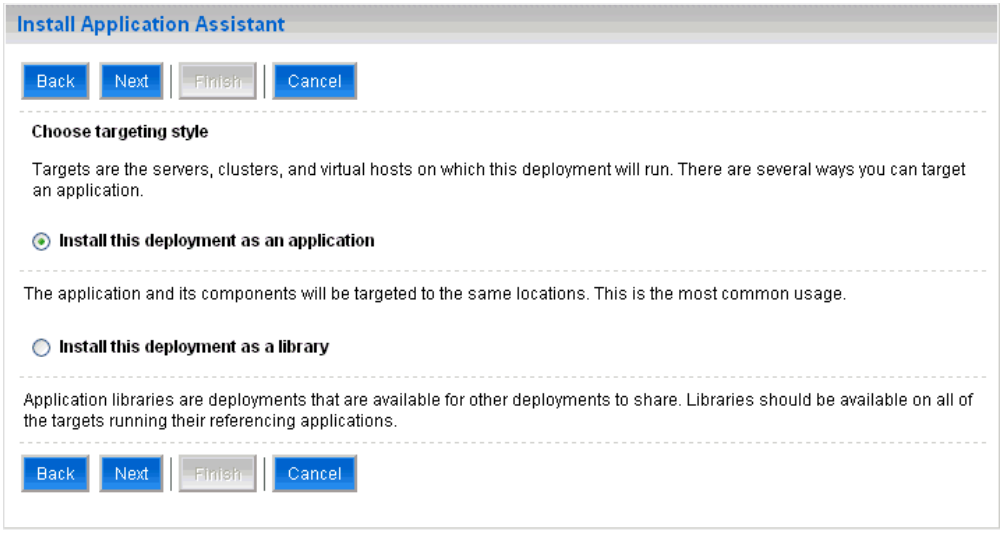


6. Browse to the following directory:

   `C:\wls_home\erp-adapters\iwafjca.rar`

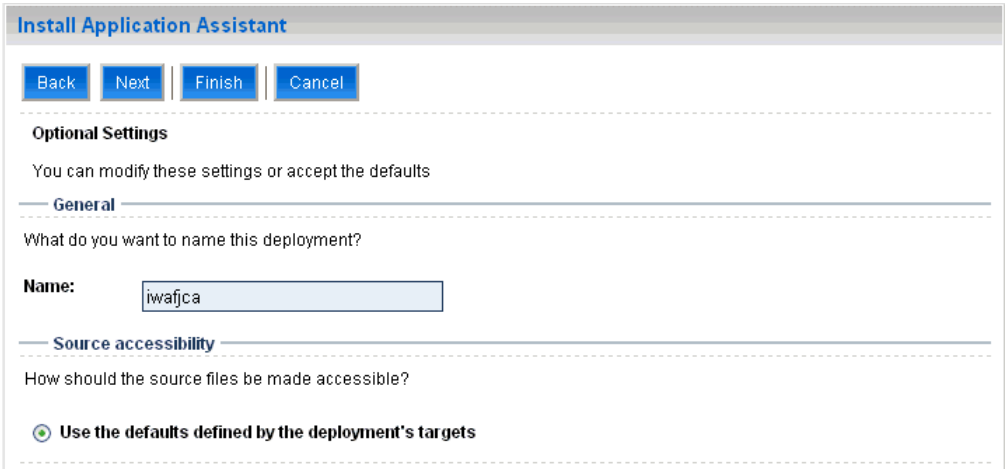
7. Select the radio button next to **iwafjca.rar** and click **Next**.

   The Choose Targeting Style page is displayed.



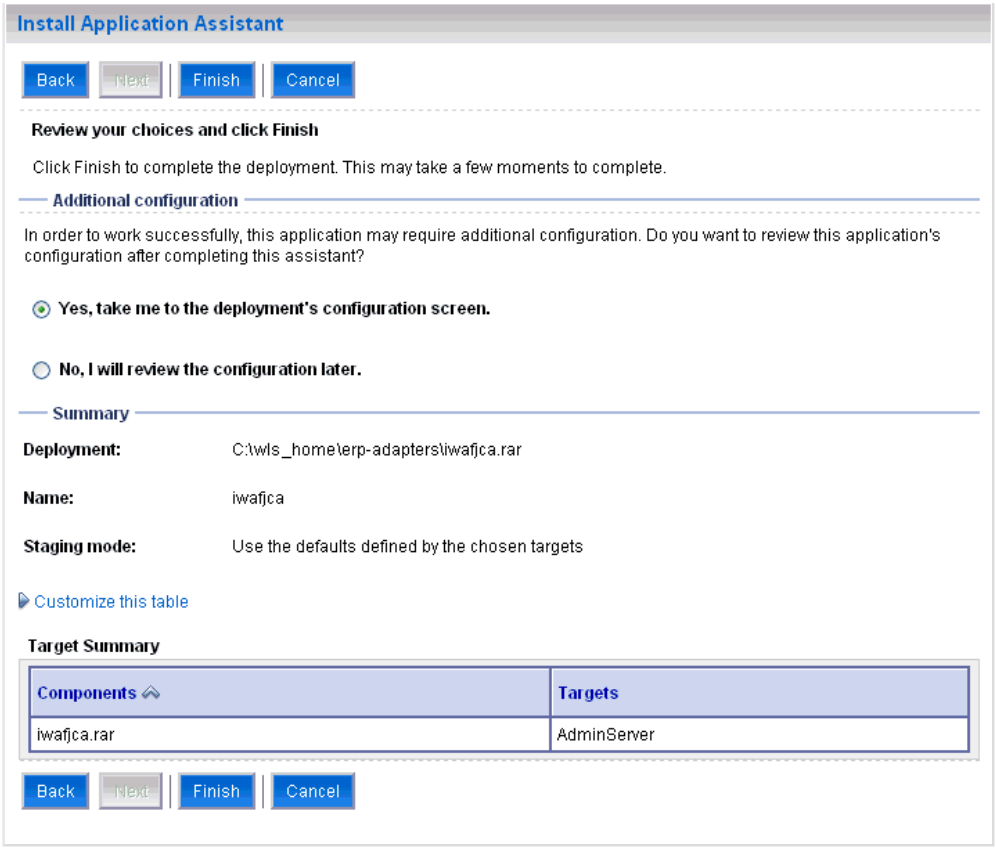
8. Leave the default Install this deployment as an application selected and click **Next**.

   The Optional Settings page is displayed.



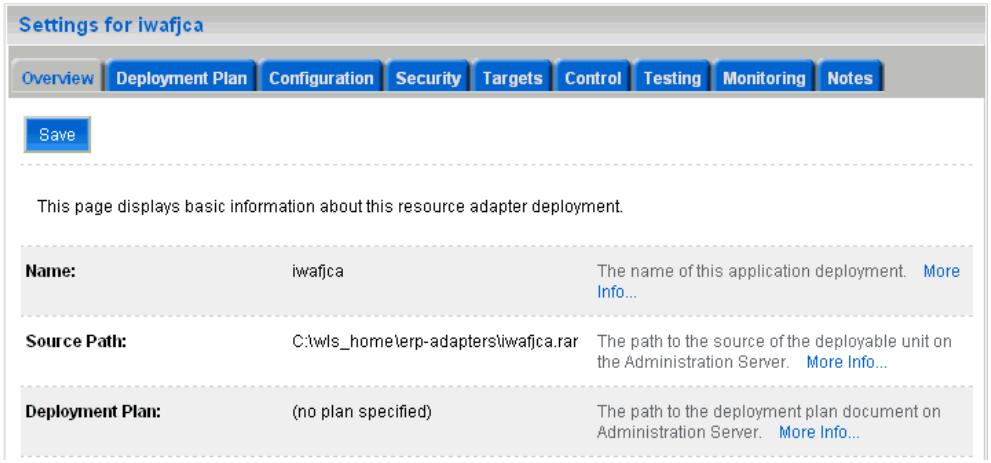
9. Click **Next** again leaving the default values.

   The Summary page is displayed.



10. Click **Finish**.

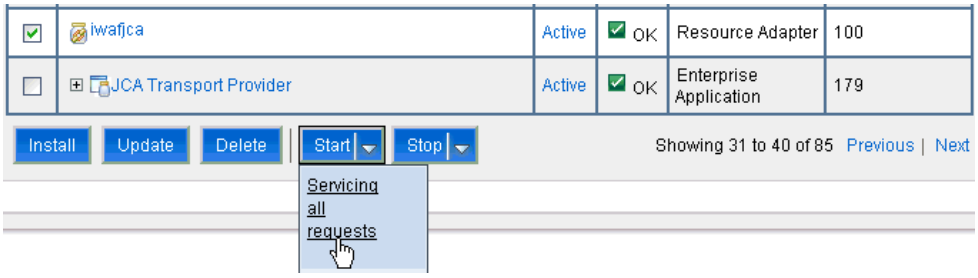
    The Settings page for the J2CA (iwafjca) Connector Application opens.



11. Click **Save**.

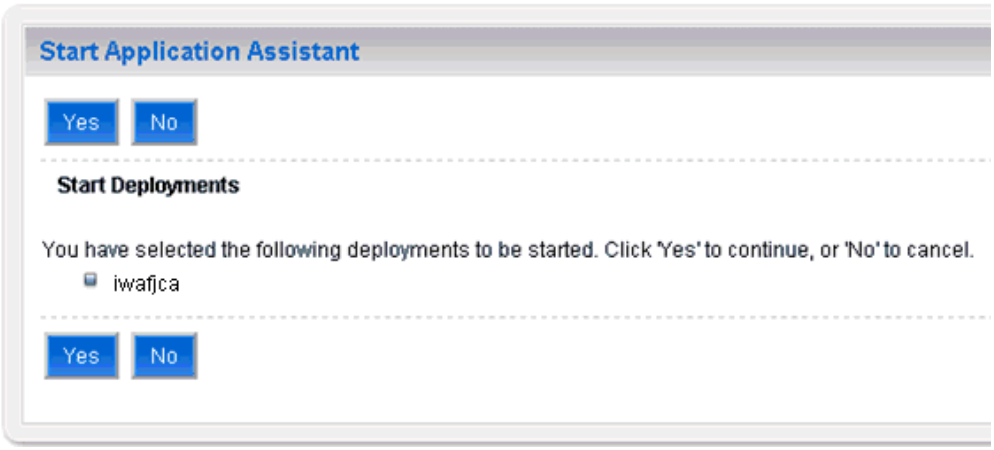
    The following messages are displayed, which indicate a successful deployment.

12. In the Domain Structure section in the left pane, click **Deployments**.
13. Navigate through the table that lists all the deployed applications until you find the J2CA (iwafjca) Connector Application.



14. Select the check box next to **iwafjca**.
15. Click the **Start** submenu (down arrow) and select **Servicing all requests**.

    The Start Application Assistant is displayed.

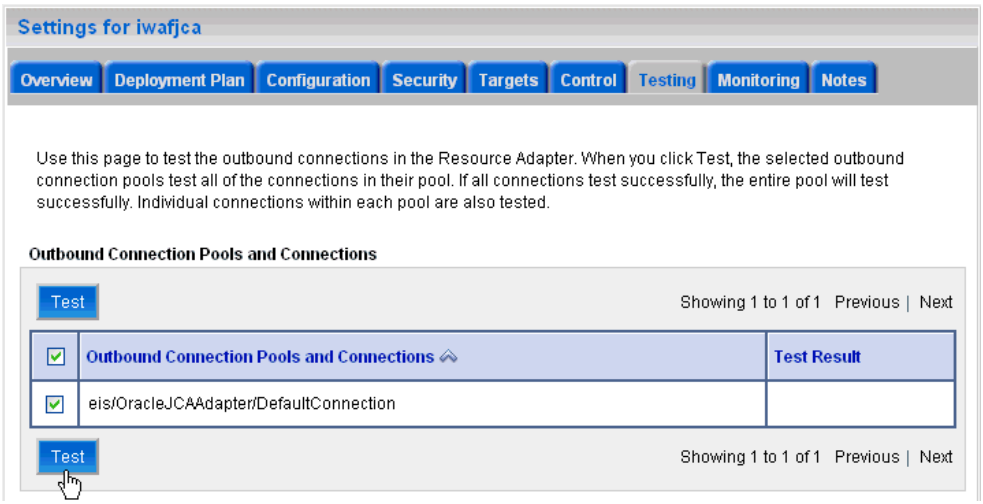


16. Click **Yes** to start the selected deployment.
17. From the list of deployed applications, select **iwafjca**.

The Settings page for the J2CA (iwafjca) Connector Application opens.

18. Click the **Testing** tab.

The Outbound Connection Pools and Connections Testing page is displayed.



19. Select the check box next to **eis/OracleJCAAdapter/DefaultConnection** and click **Test**.

The Test Result column indicates **Passed**, as shown in the following image.

The J2CA (iwafjca) Connector Application has been deployed successfully to Oracle WebLogic Server.

You are now ready to configure and deploy the J2CA Installation Verification Program (IVP).

Configuring Settings for the J2CA Installation Verification Program (IVP)

To configure settings for the J2CA Installation Verification Program (IVP):

1. Locate the **web.xml** file, which is located in the following directory:

   ```
   wls_home\erp-adapters\iwafjca.war\WEB-INF\web.xml
   ```

2. Open the **web.xml** file in an editor.
3. Enter a value for the **iway.jndi** parameter.

   This the J2CA connection factory URL for the J2CA connector. Enter the value exactly as shown in the following example:

   ```
   <context-param>
      <param-name>iway.jndi</param-name>
      <param-value>eis/OracleJCAAdapter/DefaultConnection</param-value>
   <description>
      JNDI name for the IWAF JCA Resource Adapter. If not
      provided, the application will create a new one based
      on iway.home, iway.config and iway.loglevel.
   </description>
   </context-param>
   ```

4. Save the **web.xml** file and exit the editor.

Deploying the J2CA Installation Verification Program (IVP) Using the Oracle WebLogic Server Administration Console

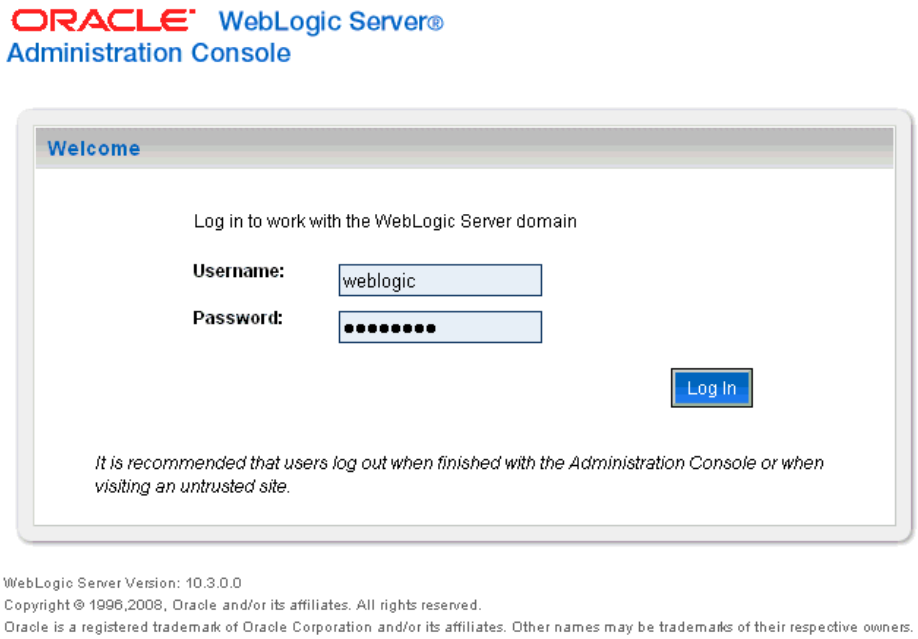
To deploy the J2CA Installation Verification Program (IVP):

1. Start the Oracle WebLogic Server for the Oracle WebLogic Server domain that you have configured.
2. Open the Oracle WebLogic Server Administration Console in a Web browser by entering the following URL:

   ```
   http://hostname:port/console
   ```

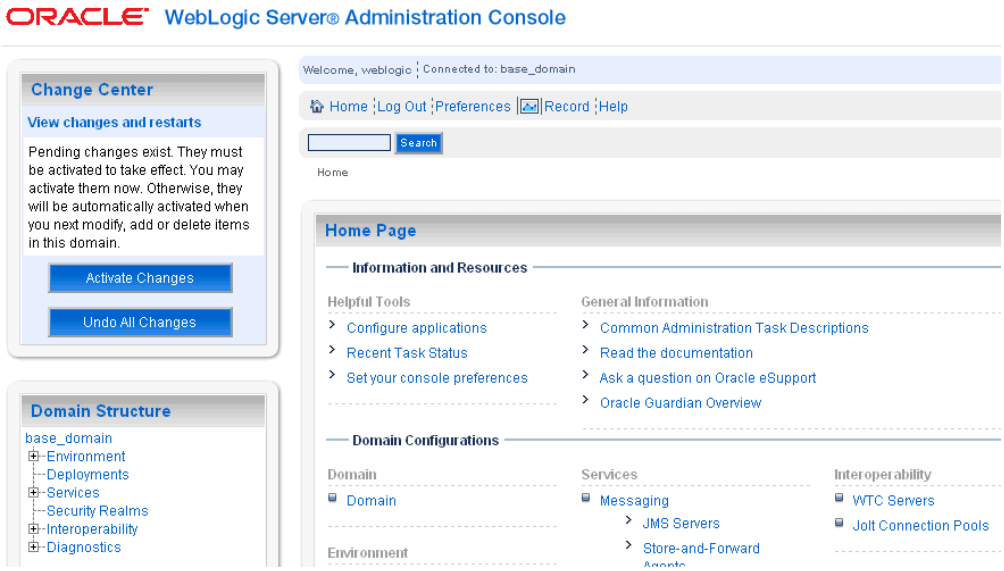
Where *hostname* is the name of the machine where Oracle WebLogic Server is running and *port* is the port for the domain you are using. The port for the default domain is 7001.

The Oracle WebLogic Server Administration Console logon page is displayed.



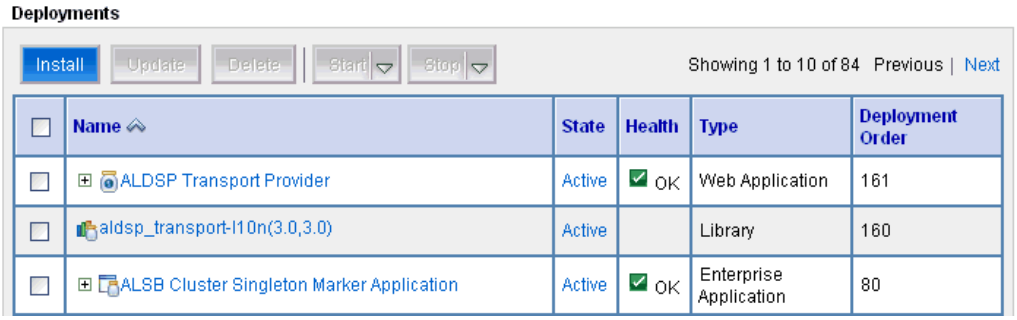
3. Log on to the Oracle WebLogic Server Administrative Console using an account that has administrator privileges.

   The Oracle WebLogic Server Administration Console home page is displayed.



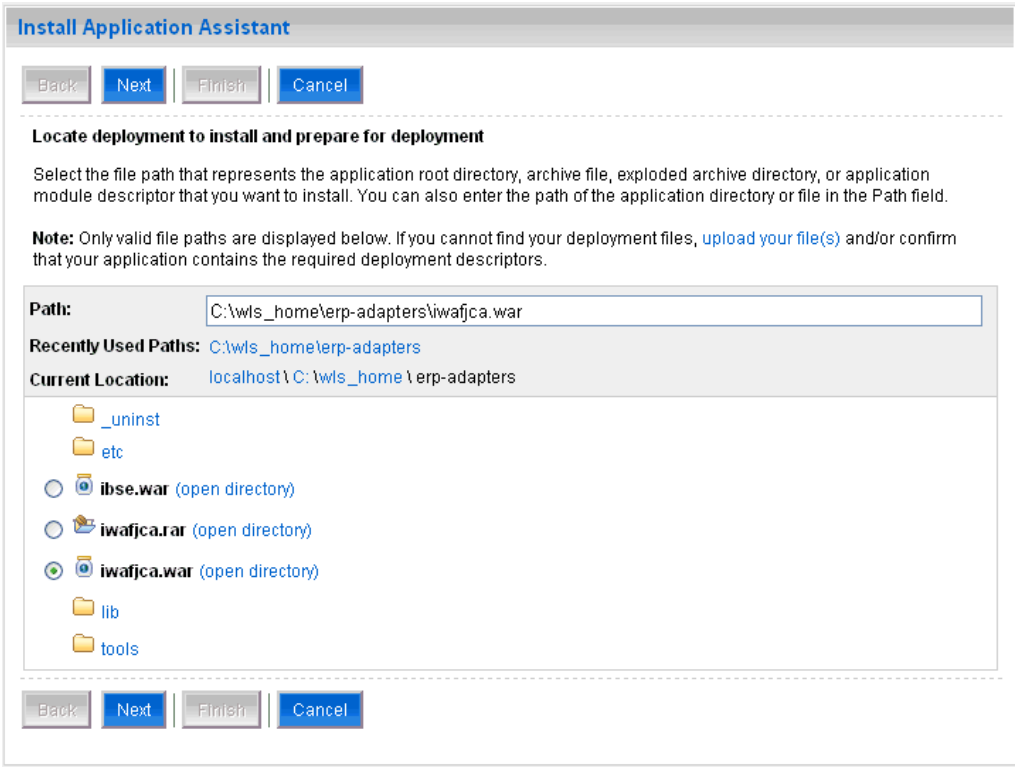
4. In the Domain Structure section in the left pane, click **Deployments**

   The Deployments page is displayed.



5. Click **Install**.

   The Install Application Assistant page is displayed.

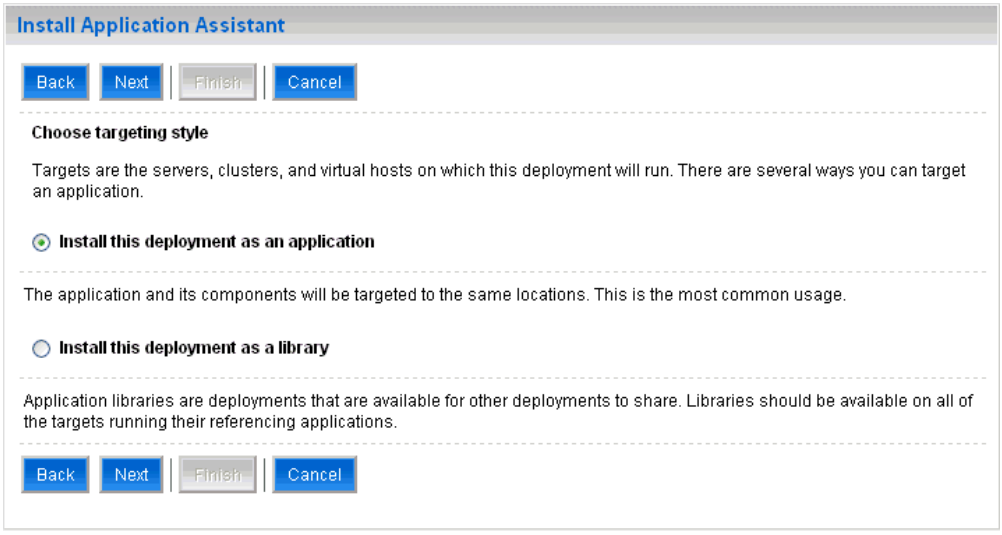


6. Browse to the following directory:

   `C:\wls_home\erp-adapters\iwafjca.war`

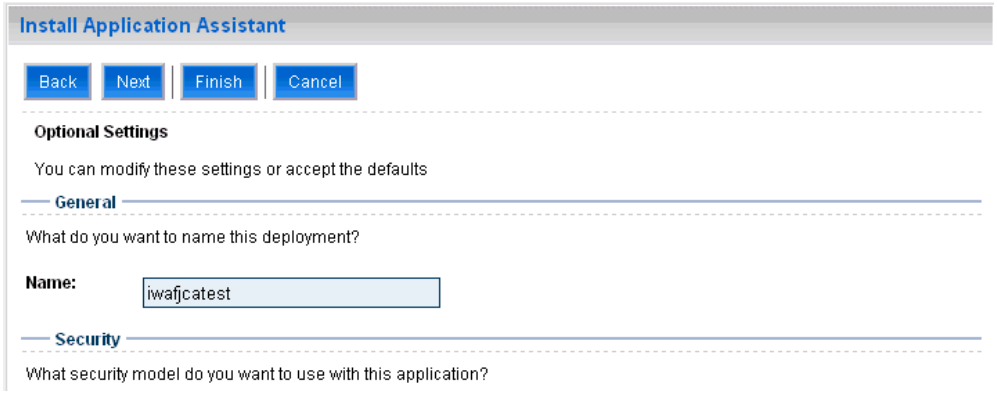
7. Select the radio button next to **iwafjca.war** and click **Next**.

   The Choose Targeting Style page is displayed.



8. Leave the default **Install this deployment as an application** selected and click **Next**.

   The Optional Settings page is displayed.

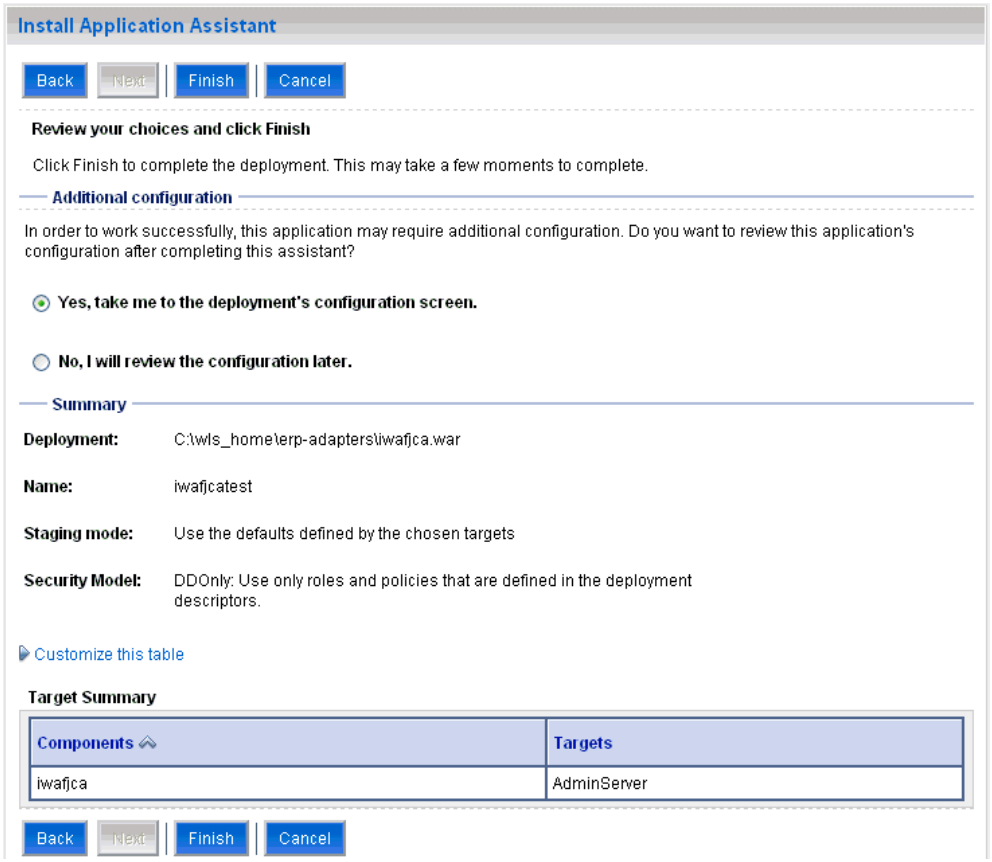


9. In the Name field, enter the following:

   `iwafjcatest`

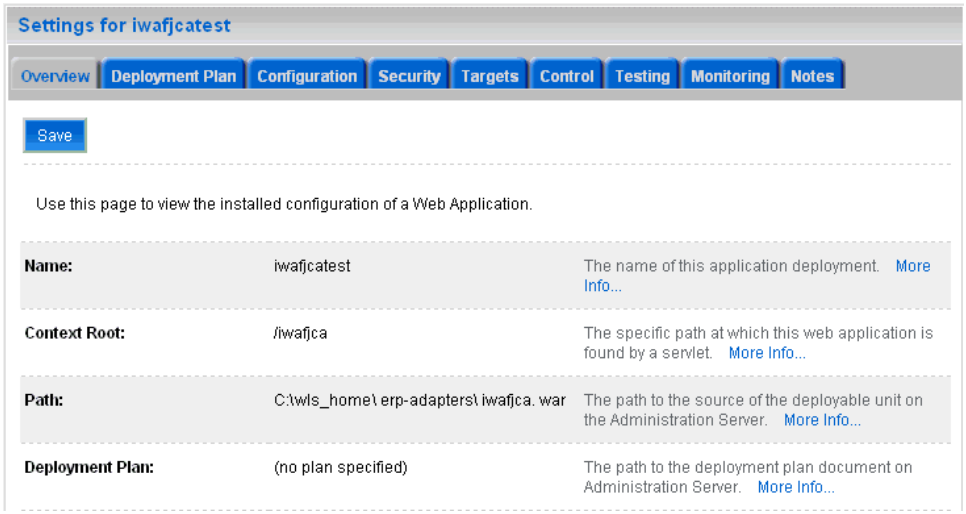
10. Click **Next** and leave the remaining default values unchanged.

    The Summary page is displayed.



11. Click **Finish**.

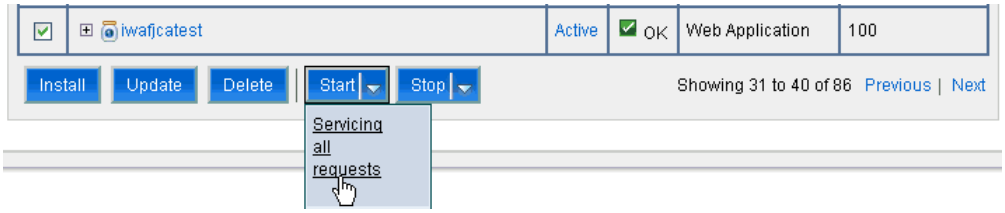
    The Settings page for the J2CA Installation Verification Program (IVP) opens.



12. Click **Save**.

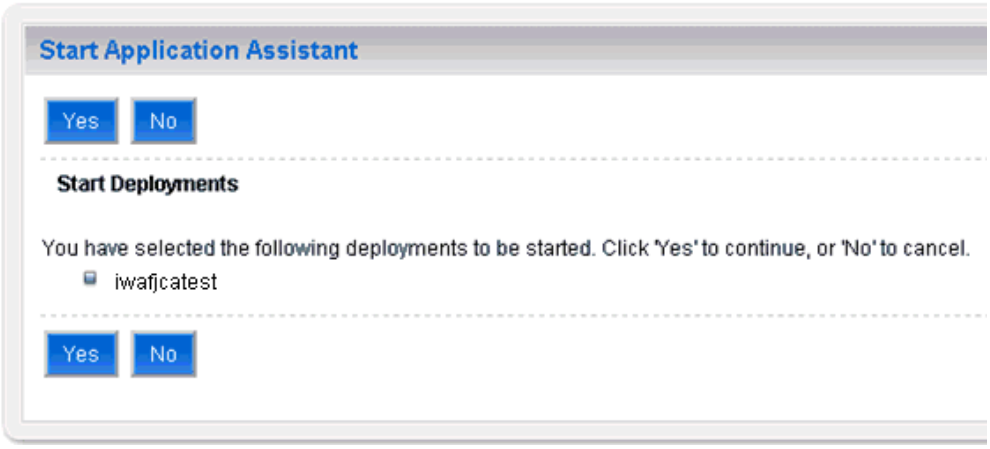
    The following messages are displayed, which indicate a successful deployment.

13. In the Domain Structure section in the left pane, click **Deployments**.
14. Navigate through the table that lists all the deployed applications until you find the J2CA (iwafjcatest) Installation Verification Program (IVP).



15. Select the check box next to **iwafjcatest**.
16. Click the **Start** submenu (down arrow) and select **Servicing all requests**.

    The Start Application Assistant is displayed.

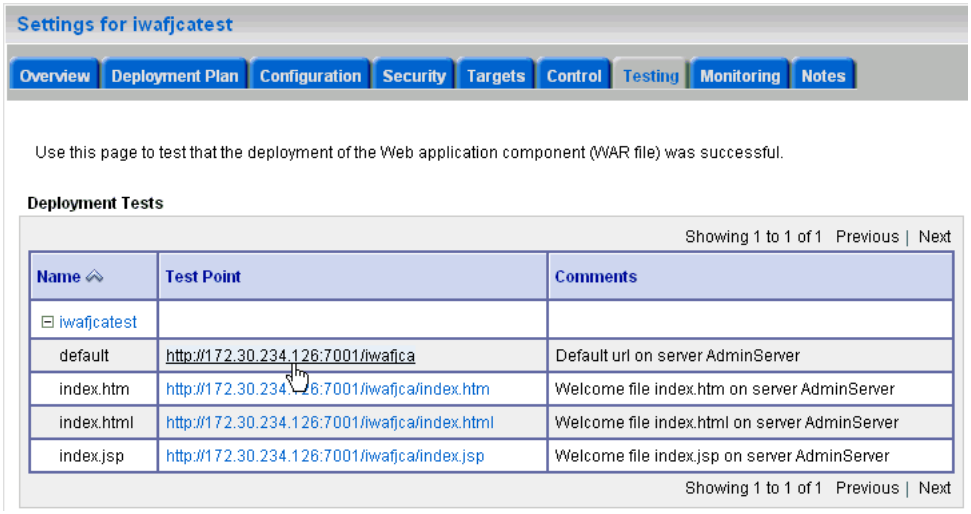


17. Click **Yes** to start the selected deployment.
18. From the list of deployed applications, select **iwafjcatest**.

    The Settings page for the J2CA (iwafjcatest) Installation Verification Program (IVP) opens.

19. Click the **Testing** tab.

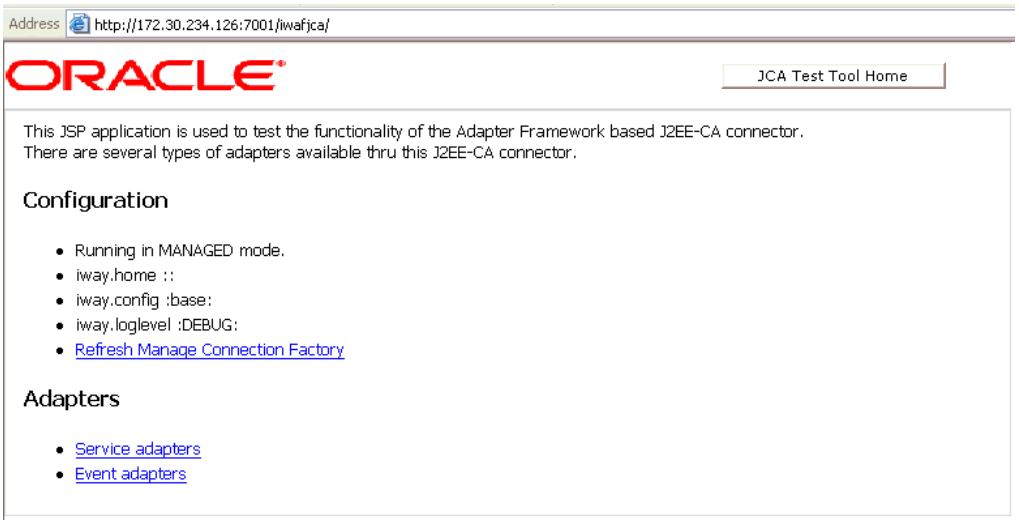
The Deployment Tests page is displayed.



20. Click the following link:

```
http://172.30.234.126:7001/iwafjca
```

The Oracle J2CA Test Servlet page opens in a new browser window, as shown in the following image.



Once adapter targets are created using Application Explorer, you can select these targets and test outbound connections from the Oracle J2CA Test Servlet. Please note that Oracle WebLogic Server must be restarted after adapter targets are created using Application Explorer.

The J2CA (iwafjcatest) Installation Verification Program (IVP) has been deployed successfully to Oracle WebLogic Server.

Connecting to a J2CA Configuration Using Application Explorer

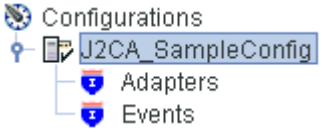
To connect to a new J2CA configuration:

1. Right-click the configuration to which you want to connect, for example, **J2CA_SampleConfig**.

2. Select **Connect**.

   Nodes appear for Adapters and Events. Please note that you can configure events using a J2CA configuration only.

   The following is an example of a J2CA configuration named J2CA_SampleConfig:



- Use the **Adapters** folder to create inbound interaction with an adapter, for example, SAP R/3. For example, you can use the SAP node in the Adapters folder to configure a service that updates SAP R/3.
- Use the **Events** folder to configure listeners that listen for events in SAP R/3.

You can now define new targets to Application Adapters for Oracle WebLogic Server.

Configuring and Deploying Business Services Engine

This section describes how to configure settings for Oracle Adapter Business Services Engine (BSE). Once the appropriate settings are configured according to your requirements, you must deploy BSE for use with Oracle WebLogic Server using the Oracle WebLogic Server Administration Console.

Configuring Settings for Oracle Adapter Business Services Engine (BSE)

To configure settings for BSE:

1. Locate the **web.xml** file, which is located in the following directory:

   ```
   wls_home\erp-adapters\ibse.war\WEB-INF\web.xml
   ```

2. Open the **web.xml** file in an editor.
3. Enter a value for the **ibseroot** parameter.

   This is the folder where the BSE files are stored in subdirectories for each adapter. For example:

   ```
   <context-param>
      <param-name>ibseroot</param-name>
      <param-value>C:\wls_home\erp-adapters\ibse.war</param-value>
      <description>ibse root directory</description>
   </context-param>
   ```

4. Enter a value for the **iway.home** parameter.

   This is the folder where adapters are installed. For example:

   ```
   <context-param>
      <param-name>iway.home</param-name>
      <param-value>c:\wls_home\erp-adapters</param-value>
      <description>license file location</description>
   </context-param>
   ```

5. Enter a value for the **iway.config** parameter.

   This is the value that you specified when you created a new BSE configuration using Application Explorer. For example:

   ```
   <context-param>
      <param-name>iway.config</param-name>
      <param-value>BSE_SampleConfig</param-value>
   ```

```
    <description>Base Configuration</description>
</context-param>
```

6. Save the **web.xml** file and exit the editor.
7. From the same directory, open the **ibseconfig.xml** file in an editor.
8. Enter a value for the **afroot** parameter, which is the path to the adapters lib directory. For example:

```
<param name="afroot" type="string" required="false" value="c:\wls_
home\erp-adapters\lib"/>
```

9. Save the **ibseconfig.xml** file and exit the editor.

Deploying Oracle Adapter Business Services Engine (BSE) Using the Oracle WebLogic Server Administration Console

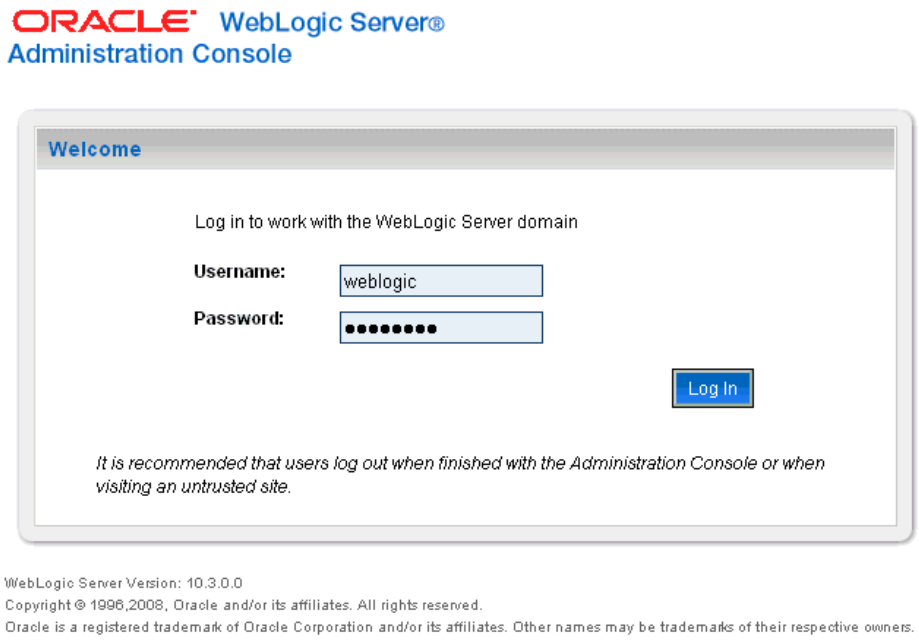
To deploy BSE:

1. Start the Oracle WebLogic Server for the Oracle WebLogic Server domain that you have configured.
2. Open the Oracle WebLogic Server Administration Console in a Web browser by entering the following URL:

```
http://hostname:port/console
```

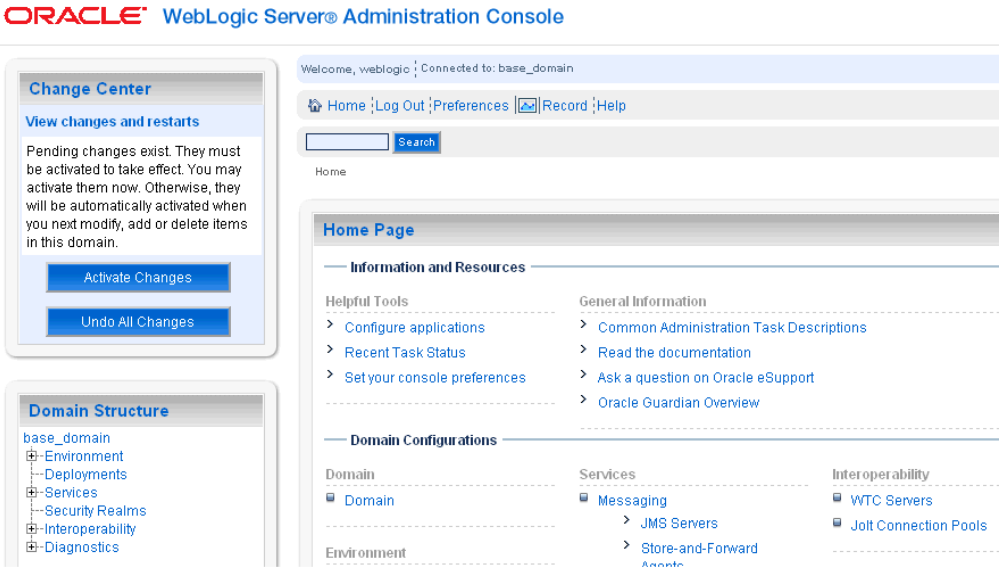
Where *hostname* is the name of the machine where Oracle WebLogic Server is running and *port* is the port for the domain you are using. The port for the default domain is 7001.

The Oracle WebLogic Server Administration Console logon page is displayed.



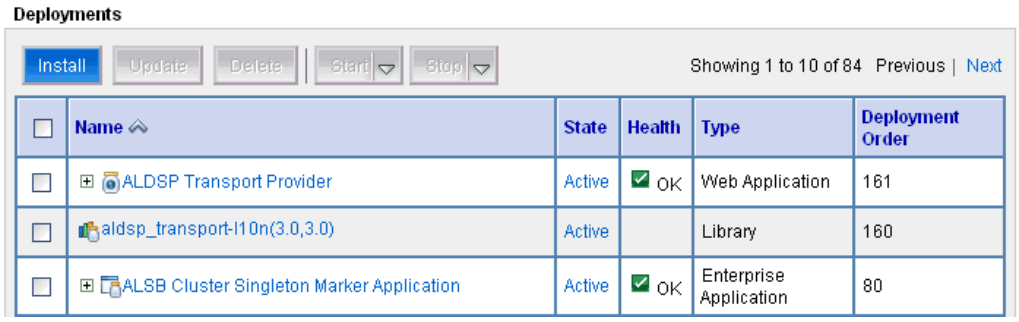
3. Log on to the Oracle WebLogic Server Administrative Console using an account that has administrator privileges.

   The Oracle WebLogic Server Administration Console home page is displayed.



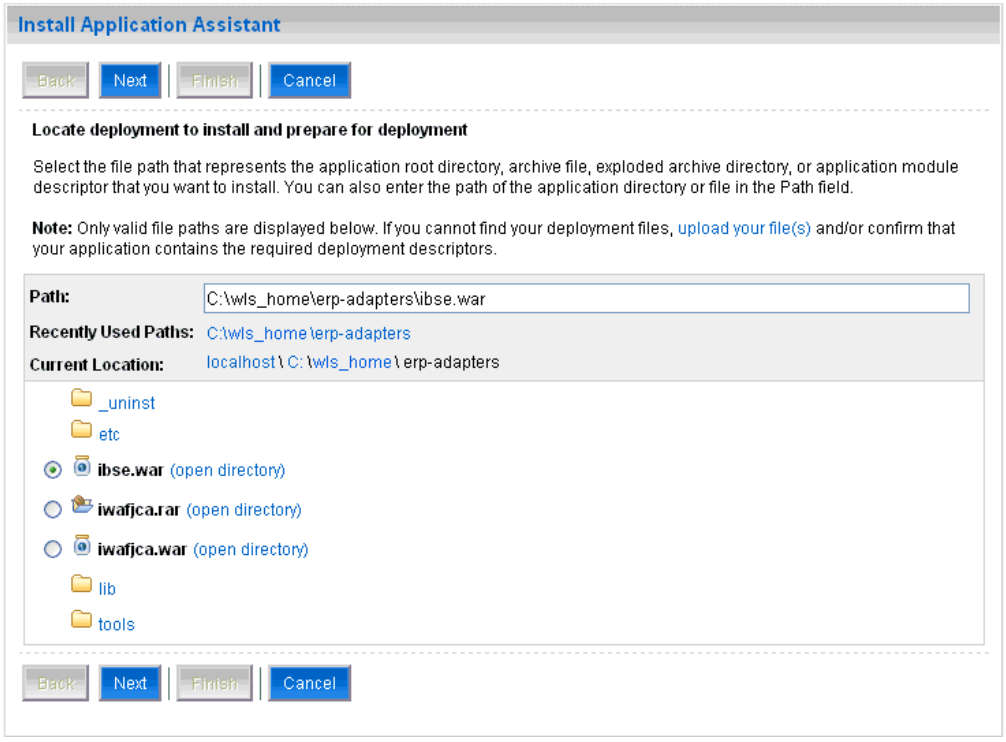
4. In the Domain Structure section in the left pane, click **Deployments**

   The Deployments page is displayed.



5. Click **Install**.

   The Install Application Assistant page is displayed.

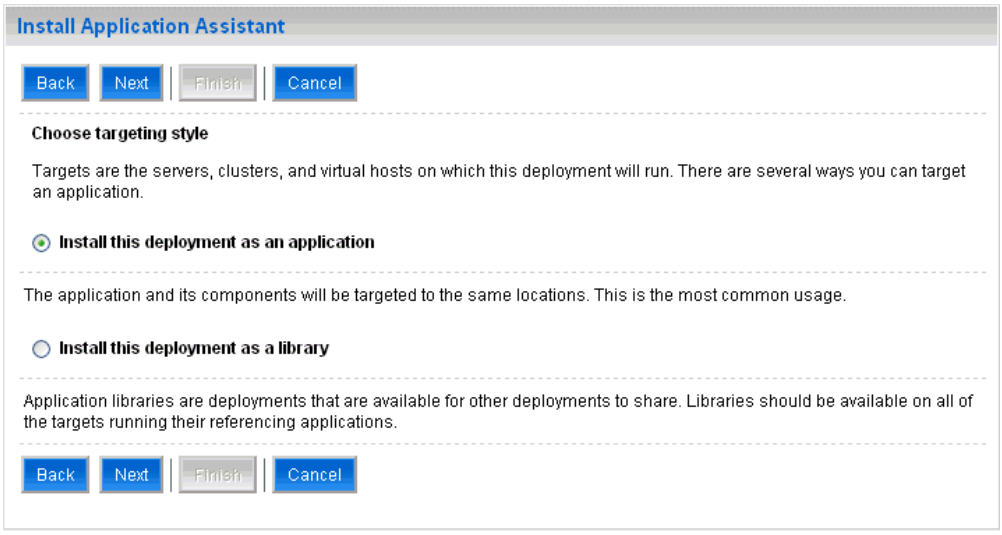


6. Browse to the following directory:

   `C:\wls_home\erp-adapters\ibse.war`

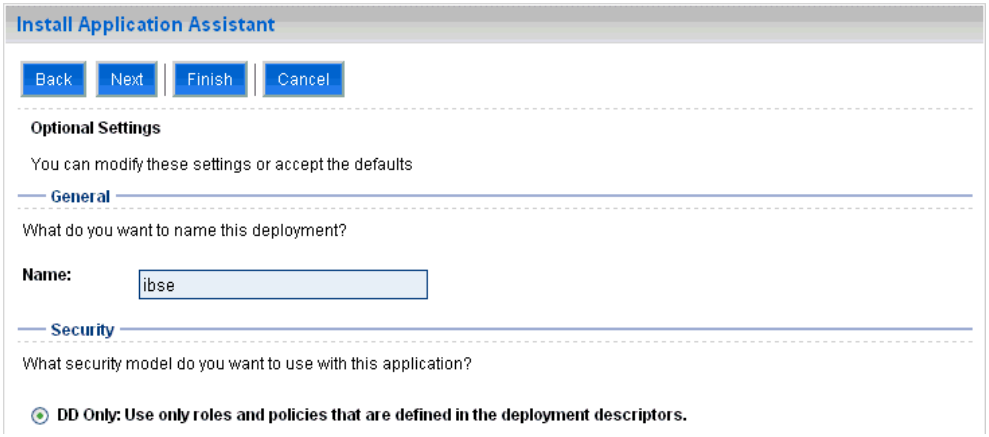
7. Select the radio button next to **ibse.war** and click **Next**.

   The Choose Targeting Style page is displayed.



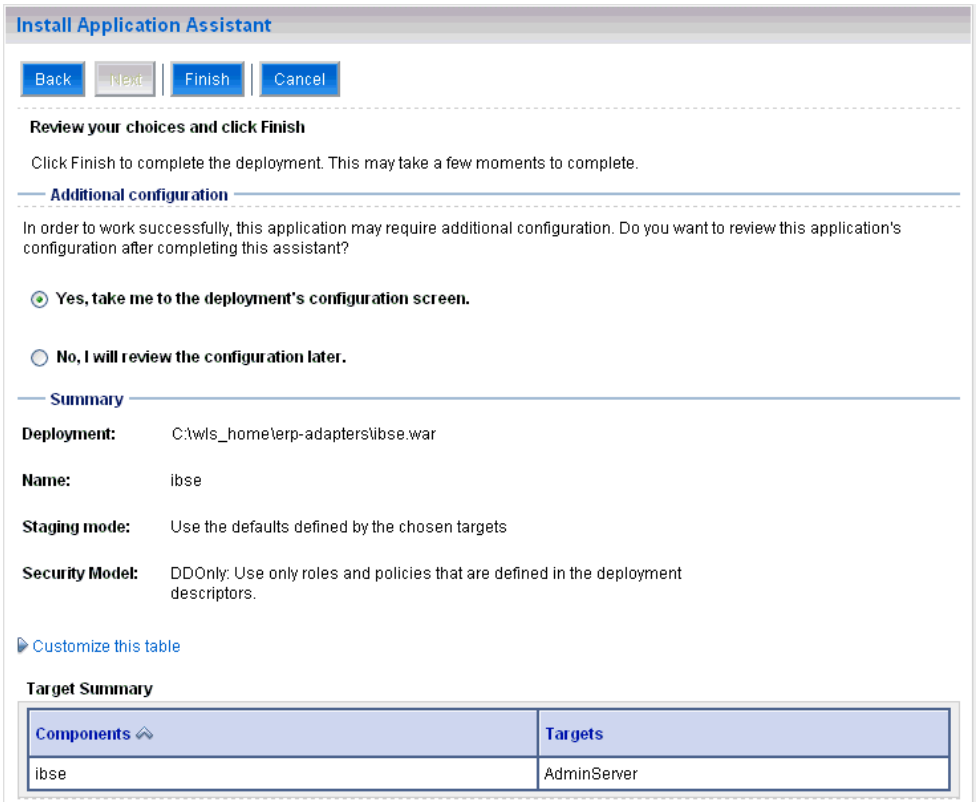
8. Leave the default **Install this deployment as an application** selected and click **Next**.

   The Optional Settings page is displayed.



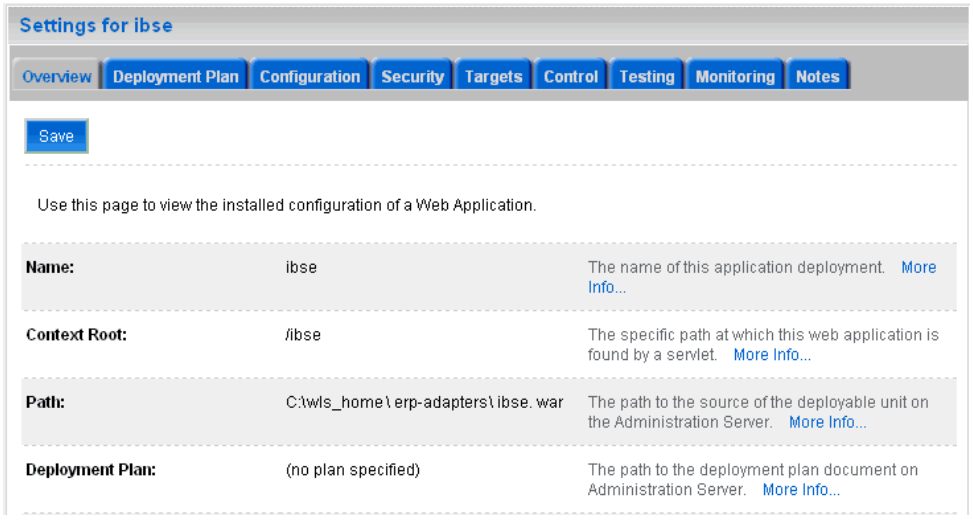
9. Click **Next** and leave the remaining default values unchanged.

   The Summary page is displayed.



10. Click **Finish**.

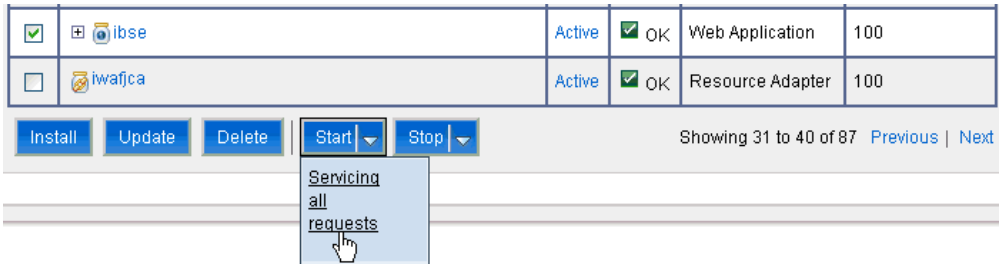
    The Settings page for the BSE (ibse) Application opens.



11. Click **Save**.

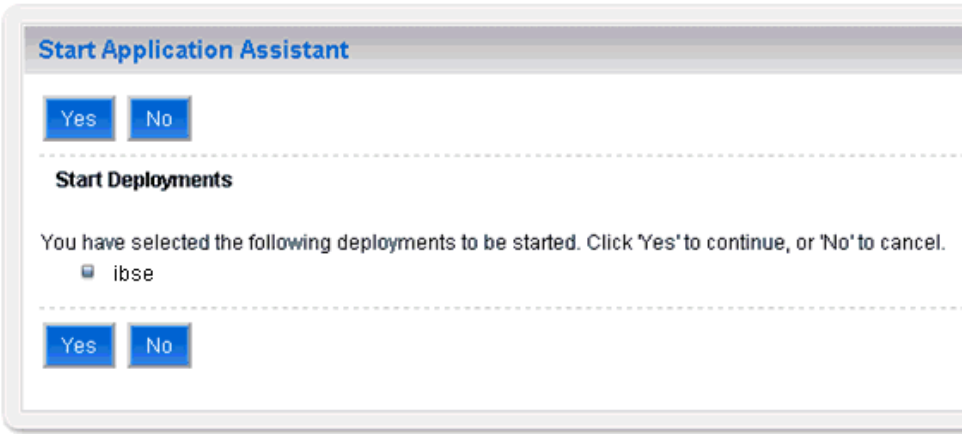
    The following messages are displayed, which indicate a successful deployment.

12. In the Domain Structure section in the left pane, click **Deployments**.
13. Navigate through the table that lists all the deployed applications until you find the BSE (ibse) Application.

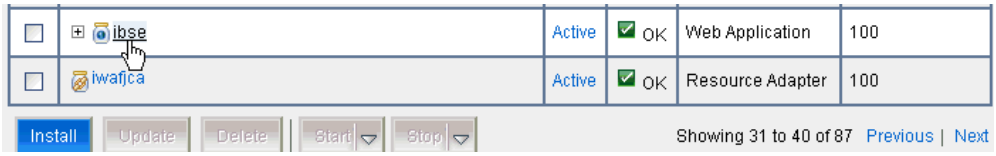


14. Select the check box next to **ibse**.
15. Click the **Start** submenu (down arrow) and select **Servicing all requests**.

    The Start Application Assistant is displayed.



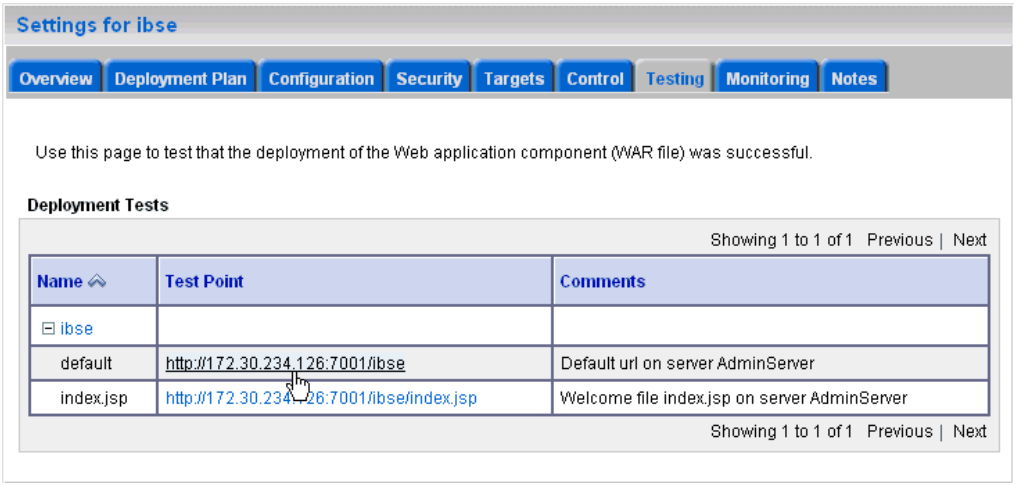
16. Click **Yes** to start the selected deployment.
17. From the list of deployed applications, select **ibse**.



The Settings page for the BSE (ibse) Application opens.

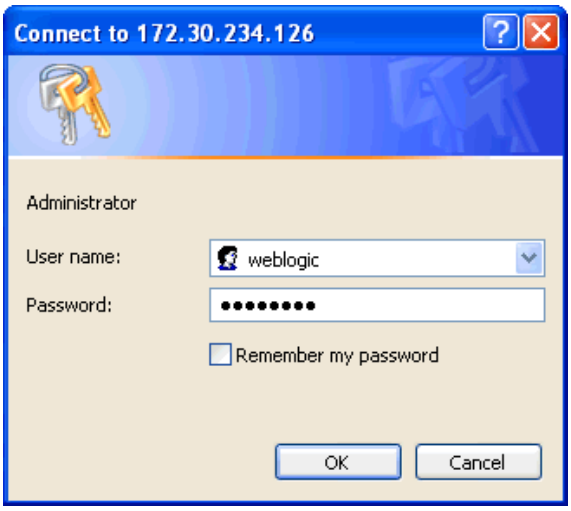
18. Click the **Testing** tab.

The Deployment Tests page is displayed.



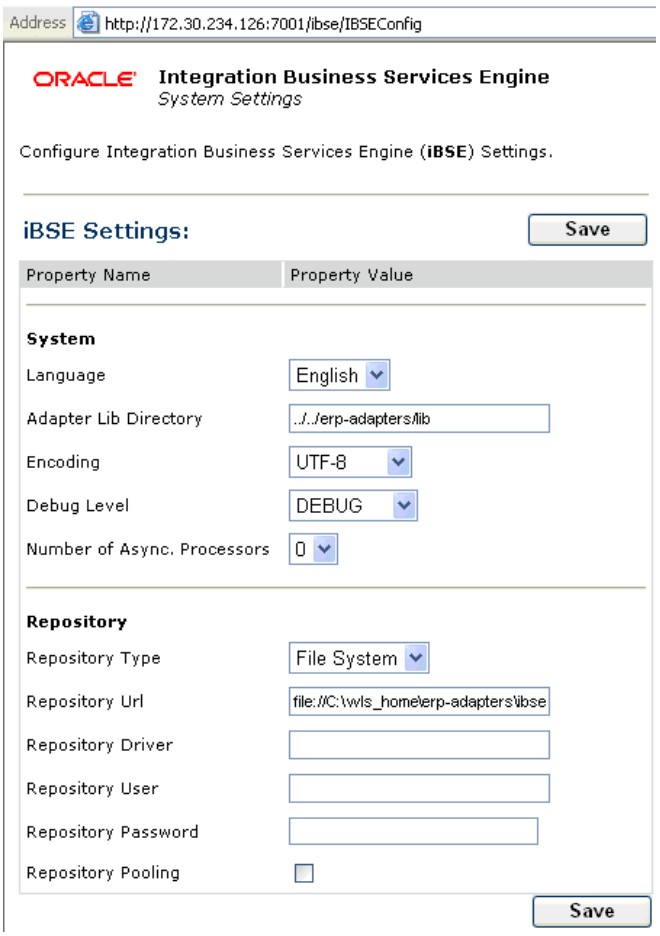
19. Click the following link:

`http://172.30.234.126:7001/ibse`
The following logon window is displayed.



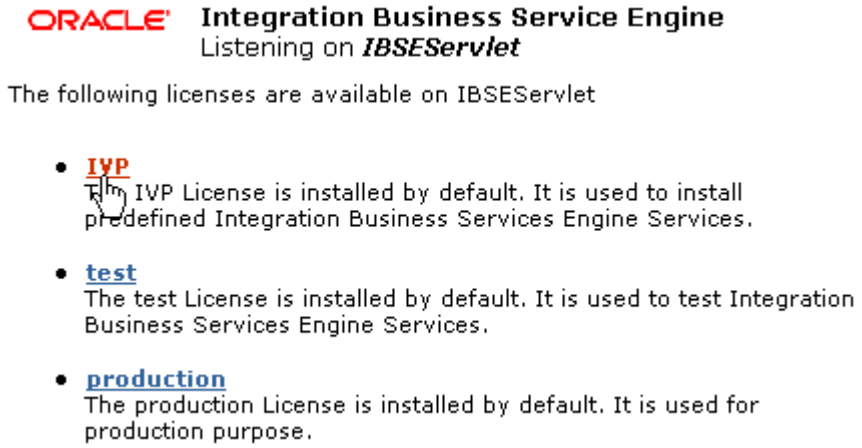
20. Enter the user name and password that you configured for the Oracle WebLogic Server domain.
21. Click **OK**.

    The Oracle BSE Configuration page opens in a new browser window, as shown in the following image.



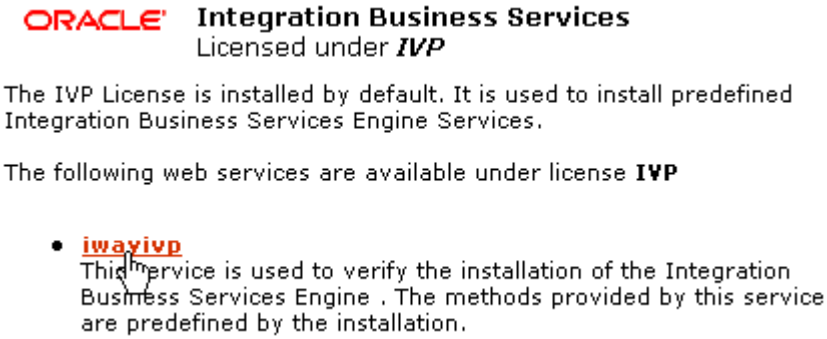
22. Make the necessary changes according to your specific requirements and click **Save** when you are finished.

The Oracle BSE Test Servlet page opens.



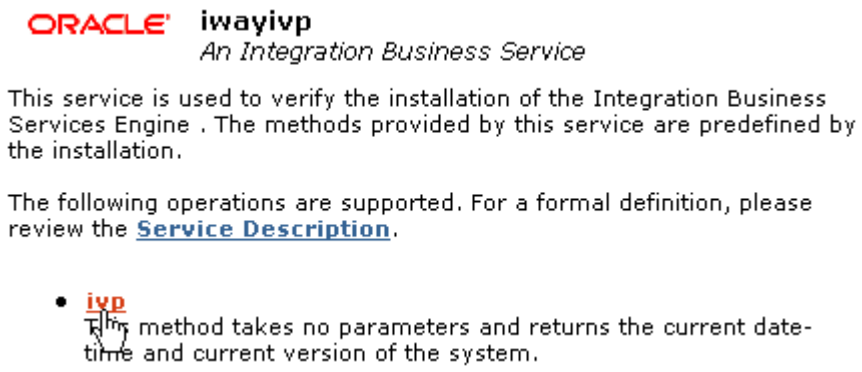
23. Click the **IVP** license.

The following list of available Web services for the IVP license is displayed.



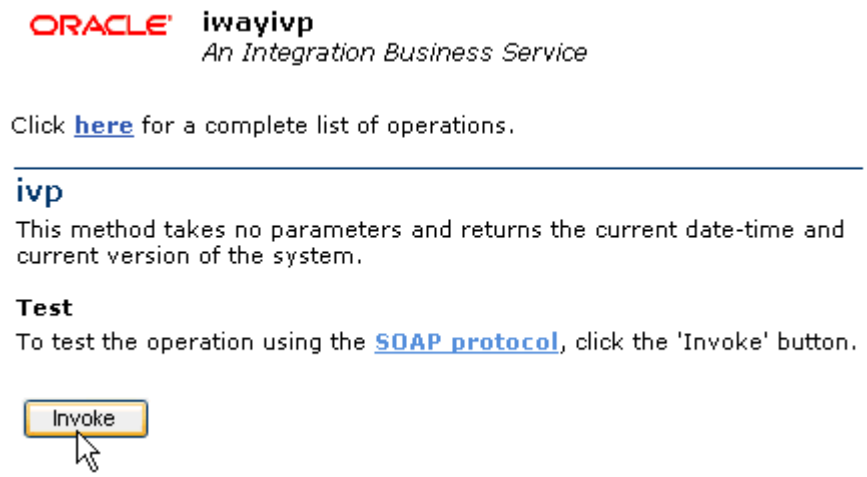
24. Click the **iwayivp** Web service.

The following list of available methods for the iwayivp Web service is displayed..



25. Click the **ivp** method.

The following Test page for the ivp method is displayed.



26. Click **Invoke**.

    The following output response is displayed.

```
<?xml version="1.0" encoding="UTF-8" ?>
- <SOAP-ENV:Envelope xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
  instance" xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
 - <SOAP-ENV:Body>
  - <ivpResponse xmlns="urn:iwaysoftware:ibse:jul2003:ivp:response" cid="4AFACFF72D01EFB6288EF200B5D1397F">
     <CurrentTime>2009-04-10T19:48:29Z</CurrentTime>
     <Version>IWAY5.5</Version>
    </ivpResponse>
   </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

    The BSE (ibse) Application has been deployed successfully to Oracle WebLogic Server.

Connecting to a BSE Configuration Using Application Explorer

To connect to a new BSE configuration:

1. Right-click the configuration to which you want to connect, for example, **BSE_SampleConfig**.
2. Select **Connect**.

   Nodes appear for Adapters, Events, and Business Services (also known as Web services). The Business Services node is only available for BSE configurations.

   Events are not applicable when using a BSE configuration. You can configure events using a J2CA configuration only. As a result, you can disregard the Events node that appears for a BSE configuration.

   The following is an example of a BSE configuration named BSE_SampleConfig:

- Use the **Adapters** folder to create inbound interaction with an adapter, for example, SAP R/3. For example, you can use the SAP node in the Adapters folder to configure a service that updates SAP R/3.

- Do not use the **Events** folder with a BSE configuration, since events are not supported with BSE. To configure events, you must use a J2CA configuration.
- Use the **Business Services** folder (available for BSE configurations only) to test Web services created in the Adapters folder. You can also control security settings for the Web services by using the security features of the Business Services folder.

You can now define new targets to Application Adapters for Oracle WebLogic Server.

Postinstallation Tasks

Perform the following postinstallation configuration tasks for packaged-application adapters:

- Copying the Library Files
- Directory Structure
- Starting Application Explorer
- Configuring the Database Repository for J2CA
- Configuring the Database Repository for BSE

If you installed the Oracle WebLogic Server Application Adapter for PeopleSoft, see Configuring Oracle Application Adapter for PeopleSoft (WebLogic Server 10gr3). If you installed the Oracle WebLogic Server Application Adapter for J.D. Edwards, see Configuring Oracle Application Adapter for J.D. Edwards (WebLogic Server 10gr3).

Note: The directory paths mentioned in this guide follow UNIX conventions. For example, forward slashes (`/`) are used.

If you are using an Oracle WebLogic Server Application Adapter on Windows, then modify the directory paths as required.

Copying the Library Files

Packaged-application adapters require you to copy library files to directories.

1. Copy the library files for these adapters into the *`WLS_HOME`*`/erp-adapters/lib` directory.
2. Copy the library files into the lib directory for your domain. For example:

   `WLS_HOME``/user_projects/domains/`*`domain_name`*`/lib`

Adapter	Library Files
Oracle Application Adapter for J.D. Edwards (WebLogic Server 10gr3)	J.D. Edwards Java-based ThinNet API This API is distributed as `.jar` files on the J.D. Edwards installation media. These libraries can vary based on the J.D. Edwards release. On the J.D. Edwards system, these library files are located in the following folder: `\\system\classes` For XE (B7333): ■ Connector.jar ■ Kernel.jar For ERP 8.0 (B7334): ■ Connector.jar ■ Kernel.jar For EnterpriseOne 8.9 (B9): ■ Connector.jar ■ Kernel.jar ■ jdeutil.jar ■ log4.jar For EnterpriseOne 8.10: ■ Connector.jar ■ Kernel.jar ■ jdeutil.jar ■ log4.jar For EnterpriseOne 8.11 (SP1 and Tools Release 8.95): ■ Base_JAR.jar ■ Connector.jar ■ JdeNet_JAR.jar ■ log4.jar ■ System_JAR.jar For EnterpriseOne 8.12 (Tools Release 8.96 2.0): ■ Connector.jar ■ log4.jar ■ Base_JAR.jar ■ EventProcesser_EJB.jar ■ EventProcesser_JAR.jar ■ JdeNet_JAR.jar ■ System_JAR.jar Refer to *Oracle Application Adapter for J.D. Edwards (WebLogic Server 10gr3) User's Guide* for any additional steps required for the J.D. Edwards system.
Oracle Application Adapter for PeopleSoft (WebLogic Server 10gr3)	■ PeopleSoft Java Object Adapter file (`psjoa.jar`) This file provides a low-level interface between client applications and PeopleSoft. This file is provided with PeopleSoft in the *`PeopleSoft_home_directory`*`/web/PSJOA` directory. The `psjoa.jar` file is different for every version of PeopleSoft. When you upgrade your Peopletools release, ensure that you copy the `psjoa.jar` file for the new release into the `lib` directory and restart all components. ■ `pstools.properties` This file is required for PeopleSoft 8.1*x*. This file belongs in the *`PeopleSoft_home_directory`*`/web/jmac` directory. Refer to *Oracle Application Adapter for PeopleSoft (WebLogic Server 10gr3) User's Guide* for any additional steps required for PeopleSoft.

Adapter	Library Files
Oracle Application Adapter for SAP R/3 (WebLogic Server 10gr3)	The SAP Java connector Version 2.1.8 (typically named `sapjco.jar`) Information on the current set of SAP connectors is available at `http://service.sap.com/connectors`. A valid SAP service ID is required to access this file. Follow the instructions provided on the SAP Java Connector (SAP JCo) overview page to download the current version. For more information, contact your SAP BASIS Administrator. Using the archive tool, open the archive containing the SAP JCo and extract the runtime files. The file names can vary by operating system, but typically are contained in the root of the archive. **Note: All operating systems**: You must place the `sapjco.jar` file in the *`WLS_HOME`*`\erp-adapters\lib` directory. Then, you must add the `sapjco.jar` to the Oracle WebLogic Server classpath. On Windows, `librfc32.dll` should be placed in the `%WINDIR%\system32` directory and `sapjcorfc.dll` should be placed in the same directory as `sapjco.jar` (*`WLS_HOME`*`\erp-adapters\lib`). On other platforms, use the corresponding location. These library files vary by operating system. For example: `Linux/Solaris/OS400`: ■ `libsapjcorfc.so` ■ `librfccm.so` `HP-UX`: ■ `librfccm.sl` ■ `libsapjcorfc.sl` `AIX`: ■ `librfccm.so` ■ `libsapjcorfc.so` On `UNIX` platforms, the directory in which the shared library files are located must be added to the shared library variable applicable to the operating system. The following is a list of platforms and associated variables: `AIX`: ■ `LIBPATH` `HP-UX`: ■ `SHLIB_PATH` Other `UNIX` Platforms ■ `LD_LIBRARY_PATH` **`Solaris`**: The following are the two supported methods for specifying the `SAP` library files: ■ Copy the `SAP JCO` files (`sapjco.jar`, `librfccm.so`, and `libsapjcorfc.so`) to *`jdk/jre/lib/sparc/server`* ■ Copy the `SAP JCO` files to `/usr/j2sdk1.4.2_09/jre/lib/sparcv9/server` Alternatively, you may add the path to these files to your environment variable definition using the Application Server Control console. For details on application server administration options, see Oracle Application Server Administrator's Guide. Refer to *Oracle Application Adapter for SAP R/3 (WebLogic Server 10gr3) User's Guide* for any additional steps required for SAP R/3.

Adapter	Library Files
Oracle Application Adapter for Siebel (WebLogic Server 10gr3)	For Siebel 6.3.*x* and later, the Siebel Java Data Bean API, which is distributed as `.jar` files with the Siebel Thin Client These libraries vary by Siebel release in both content and name. Therefore, the Siebel Thin Client that comes with the target Siebel system must always be used with the adapter. For example: On the Siebel system, these library files are located in the following folder: *<siebel home>*`\siebsrvr\CLASSES` For Siebel 6.3.*x*: ■ `SiebelTcOM.jar` ■ `SiebelTcCommon.jar` ■ `SiebelTC_enu.jar` ■ `SiebelDataBean.jar` For Siebel 7.0.3: ■ `SiebelJI_Common.jar` ■ `SiebelJI_enu.jar` For Siebel 7.5.2: ■ `SiebelJI_Common.jar` ■ `SiebelJI_enu.jar` ■ `SiebelJI.jar` For Siebel 7.7 - 8.0: ■ `SiebelJI_enu.jar` ■ `Siebel.jar` The Siebel COM-based API (Windows only) requires the Siebel Thin Client to be installed and accessible to the Siebel adapter. **Note:** The following previously listed files are for English language installations: ■ `SiebelTC_enu.jar` ■ `SiebelJI_enu.jar` For non-English installations, the last three letters (`_enu`) vary. If you are using the MQ Series as a transport, then you also need to use `com.ibm.mq.jar` file. Refer to *Oracle Application Adapter for Siebel (WebLogic Server 10gr3) User's Guide* for any additional steps required for Siebel.

Directory Structure

The packaged application adapters are installed into the `erp-adapters` subdirectory of your Oracle WebLogic Server home directory. Table 2–1 shows the directory structure.

Table 2–1 Packaged Application Adapter Directory Structure

Subdirectory	Description
`_uninst`	Contains the uninstallation files
`config`	Contains the *J2CA_SampleConfig* subdirectory and the XML-file-based repository for OracleWLS Adapter J2CA
`etc`	Contains the `ibse.ear`, `iwafjca.ear`, `iwafjca.rar`, and `iwse.ora` files
ibse.war	Contains the BSE application and repository configuration
iwafjca.rar	Contains the J2CA application and repository configuration
iwafjca.war	Contains the J2CA Installation Verification Program (IVP)

Table 2–1 (Cont.) Packaged Application Adapter Directory Structure

Subdirectory	Description
`lib`	Contains library files
`tools`	Contains the Application Explorer graphical user interface

Starting Application Explorer

Use Application Explorer to configure the J2CA version 1.0 and Business Services Engine repository projects.

On Windows, double-click the `ae.bat` file, found under *`wls_home`*`\erp-adapters\tools\iwae\bin`

Where *`wls_home`* is the directory where Oracle WebLogic Server is installed.

On UNIX, load the `iwae.sh` script, found under *`wls_home`*`/erp-adapters/tools/iwae/bin`

Where *`wls_home`* is the directory where Oracle WebLogic Server is installed.

Configuring the Database Repository for J2CA

1. Execute the `iwse.ora` SQL script on the machine where the database is installed.

   The `iwse.ora` SQL script is located in the following directory:

   `wls_home`\erp-adapters\etc

   This script creates the required tables that are used to store the adapter configuration information in the database. These tables are used by Application Explorer and by adapters during design time and runtime. It is recommended that you use the same credentials to create the database repository and also in the `ra.xml` file for database user credentials.

```
C:\wls_home\erp-adapters\etc>sqlplus

SQL*Plus: Release 10.1.0.2.0 - Production on Tue Dec 27 18:10:44 2005
Copyright (c) 1982, 2004, Oracle.  All rights reserved.

Enter user-name: scott
Enter password: scott1

Connected to:
Oracle Database 10g Enterprise Edition Release 10.1.0.2.0 - Production
With the Partitioning, OLAP and Data Mining options

SQL>@ iwse.ora
```

2. Create the `jcatransport.properties` file and save it in the following directory:

   `wls_home`\erp-adapters\config\J2CA_SampleConfig

> **Note:** The `jcatransport.properties` file is required for each J2CA configuration that is created using Application Explorer. The J2CA configuration folder, for example, J2CA_SampleConfig, is named according to the configuration name that is specified in Application Explorer.

3. Enter values for `iwafjca.repo.url`, `iwafjca.repo.user` and `iwafjca.repo.password` fields in the newly created `jcatransport.properties` file, as shown in the following example:

   ```
   iwafjca.repo.url=jdbc:oracle:thin:@90.0.0.51:1521:orcl

   iwafjca.repo.user=scott

   iwafjca.repo.password=scott1
   ```

   The following table lists the parameters with descriptions of the information to provide.

Parameter	Description
iwafjca.repo.url	Specify the JDBC URL to use when opening a connection to the database. For example, the following repository URL format is used when connecting to Oracle: `jdbc:oracle:thin:@host name:port;SID`
iwafjca.repo.user	Specify a valid user ID to use when opening a connection to the database.
iwafjca.repo.password	Specify a valid password that is associated with the user ID.

4. Navigate to the following directory:

   WLS_HOME\erp-adapters\iwafjca.rar\META-INF
5. Open the `ra.xml` file in a text editor.
6. Provide the JDBC connection information as a value for the `IWAYRepo_URL` property.
7. Provide a valid user name for the `IWAYRepo_User` property.
8. Provide a valid password for the `IWAYRepo_Password` property.
9. Save your changes to the `ra.xml` file.

Configuring the Database Repository for BSE

1. Execute the `iwse.ora` SQL script on the machine where the database is installed.

   The `iwse.ora` SQL script is located in the following directory:

   wls_home\erp-adapters\etc

   This script creates the required tables that are used to store the adapter configuration information in the database. These tables are used by Application Explorer and by adapters during design time and runtime. It is recommended that you use the same credentials to create the database repository and also in the `web.xml` file for database user credentials.

   ```
   C:\wls_home\erp-adapters\etc>sqlplus

   SQL*Plus: Release 10.1.0.2.0 - Production on Tue Dec 27 18:10:44 2005
   Copyright (c) 1982, 2004, Oracle.  All rights reserved.

   Enter user-name: scott
   Enter password: scott1

   Connected to:
   Oracle Database 10g Enterprise Edition Release 10.1.0.2.0 - Production
   ```

```
With the Partitioning, OLAP and Data Mining options

SQL>@ iwse.ora
```

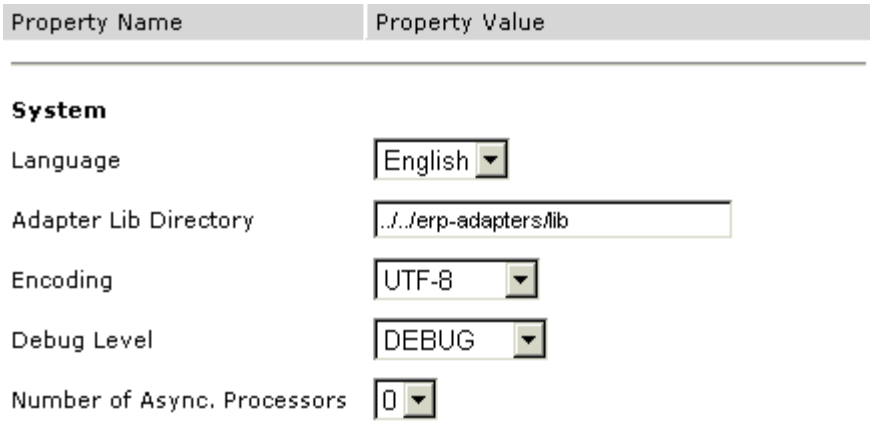
2. Display the **BSE configuration** page in a browser:

   `http://host name:port/ibse/IBSEConfig`

   Where `host name` is the system where BSE is installed and `port` is the port number on which BSE is listening.

   Note: The server to which BSE is deployed must be running.

The BSE settings pane is displayed, as shown in the following figure.

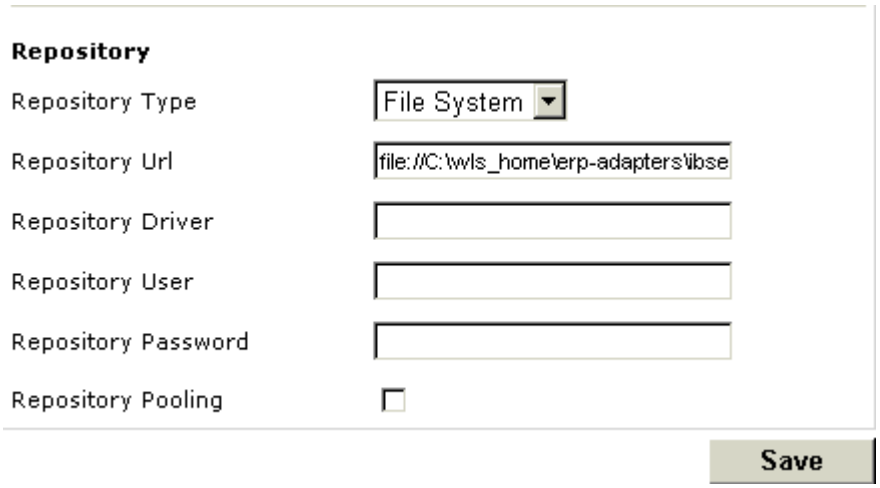


3. Configure the system settings.

   The following table lists the parameters with descriptions of the information to provide.

Parameter	Description
Language	Specify the required language.
Adapter Lib Directory	Enter the full path to the directory where the adapter jar files reside.
Encoding	Only UTF-8 is supported.
Debug Level	Specify the debug level from one of the following options: ■ None ■ Fatal ■ Error ■ Warning ■ Info ■ Debug
Number of Async. Processors	Select the number of asynchronous processors.

The following image shows all fields and check boxes for the Repository pane.



4. Configure the repository settings.

   BSE requires a repository to store transactions and metadata required for the delivery of Web services.

   The following table lists the parameters with descriptions of the information to provide.

Parameter	Description
Repository Type	Select one of the following repositories from the list: ■ Oracle ■ File (Do not use for BSE in production environments.)
Repository URL	Enter the JDBC URL to use when opening a connection to the database. For example, the following repository URL format is used when connecting to Oracle: `jdbc:oracle:thin:@host name:port;SID`
Repository Driver	Provide the driver class to use when opening a connection to the database (optional). For example, the following repository driver format is used when connecting to Oracle: `oracle.jdbc.driver.OracleDriver`
Repository User	Enter a valid user ID to use when opening a connection to the database.
Repository Password	Enter a valid password that is associated with the user ID.
Repository Pooling	If selected, repository pooling will be used. This option is disabled by default.

5. Click **Save**.

Uninstalling Application Adapters 10g Release 3 (10.3.1.0)

To uninstall Application Adapters for Oracle WebLogic Server on a Windows platform, perform the following steps:

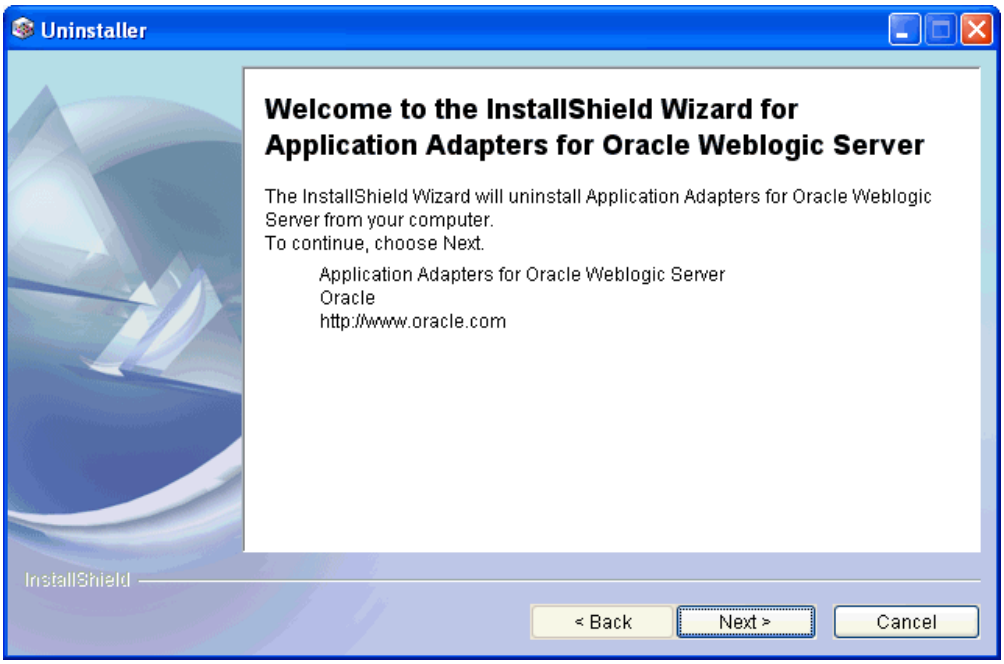
1. Undeploy the Oracle Adapter J2EE Connector Architecture (J2CA) and J2CA Installation Verification Program (IVP) using the Oracle WebLogic Server Administration Console.

2. Undeploy Oracle Adapter Business Services Engine (BSE) using the Oracle WebLogic Server Administration Console.
3. Stop the Oracle WebLogic Server.
4. Navigate to the following directory:

   WLS_HOME\erp-adapters_uninst

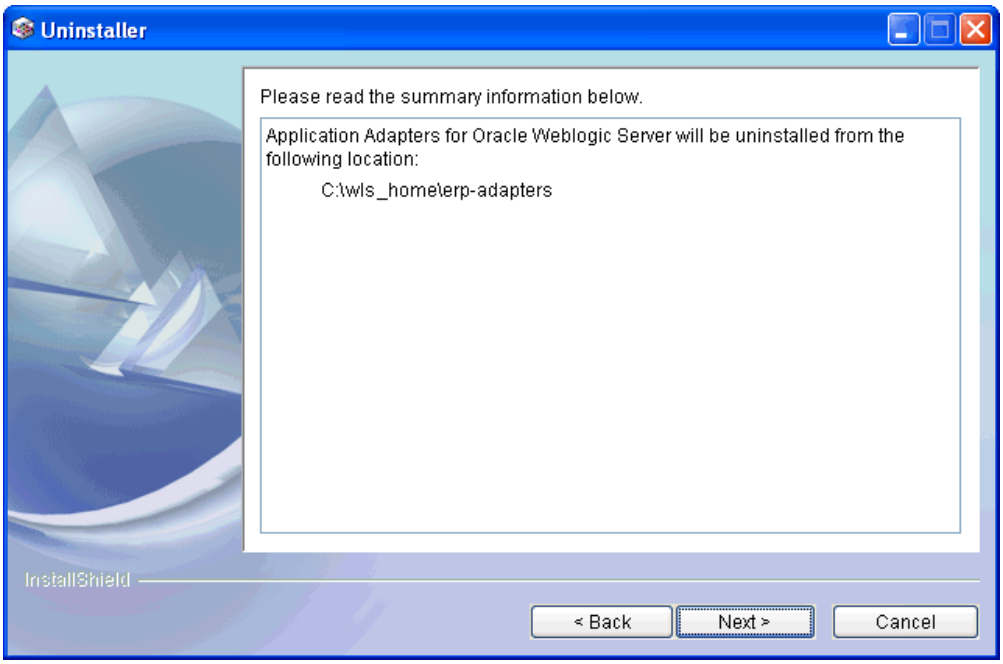
5. Double-click the **uninstaller.exe** file.

   The Application Adapters for Oracle WebLogic Server Uninstallation Welcome screen is displayed as shown in the following image.



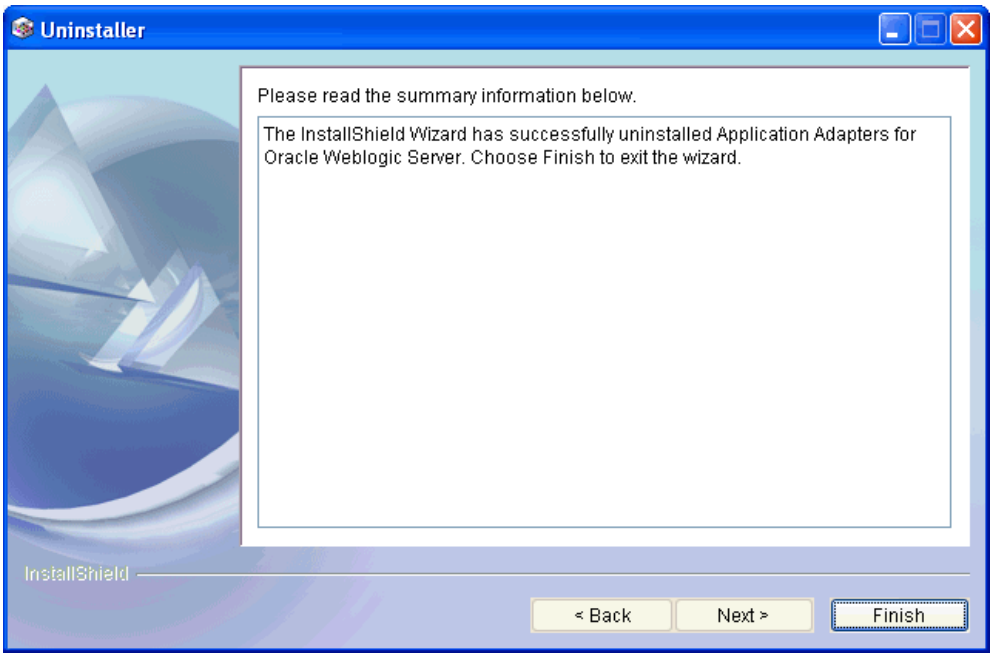
6. Click **Next**.

   The following Summary screen opens, which indicates the path to the Application Adapters for Oracle WebLogic Server that will be uninstalled.



7. Click **Next**.

   The Application Adapters for Oracle WebLogic Server are uninstalled. When the uninstallation process is finished, the following screen is displayed.



8. Click **Finish**.

To uninstall Application Adapters for Oracle WebLogic Server on UNIX and Linux platforms, perform the following steps:

1. Undeploy the J2CA Connector Application and J2CA Installation Verification Program (IVP) using the Oracle WebLogic Server Administration Console.

2. Undeploy Business Services Engine (BSE) using the Oracle WebLogic Server Administration Console.
3. Stop the Oracle WebLogic Server.
4. Navigate to the following directory:

   WLS_HOME/erp-adapters/_uninst

5. Enter the following command at the prompt to begin the uninstallation process:

   ```
   java -jar uninstall.jar
   ```

A

Configuring Oracle Application Adapter for PeopleSoft (WebLogic Server 10gr3)

This appendix describes how to configure Oracle Application Adapter for PeopleSoft (WebLogic Server 10gr3). To configure:

- Specify the version of PeopleSoft you are using.
- Install the Component Interfaces of the adapter.
- Install the TCP/IP message router adapter.
- Copy the `psjoa.jar` file (and, for PeopleSoft release 8.1, the `pstools.properties` file) into the *`wls_home`*`\erp-adapters\lib` directory.

This appendix contains the following topics:

Specifying the PeopleSoft Version

Oracle Application Adapter for PeopleSoft (WebLogic Server 10gr3) supports multiple versions of PeopleSoft. However, certain versions are incompatible with each other, and the adapter must recognize the version you are using.

After installation, the `iwpsci84.jar` file for PeopleTools 8.4x releases will be available in the default location, *`wls_home`*`\erp-adapters\lib`.

The iwpsci81.jar file for PeopleTools 8.1x releases will be available under *`wls_home`*`\erp-adapters\etc\peoplesoft`.

Use the corresponding location on non-Windows systems.

To ensure that the adapter functions properly, use the file that corresponds to your release:

- For PeopleSoft 8.4x releases, use `iwpsci84.jar`.
- For PeopleSoft 8.1x releases, remove `iwpsci84.jar` and copy `iwpsci81.jar` from *`wls_home`*`\erp-adapters\etc\peoplesoft` to *`wls_home`*`\erp-adapters\lib`.

After changing the contents of the lib directory, restart all components.

Installing the Adapter Component Interfaces

Oracle Application Adapter for PeopleSoft (WebLogic Server 10gr3) includes two custom Component Interfaces. Oracle WebLogic Server Adapter Application Explorer uses these Component Interfaces to create schemas for events and services.

To configure Component Interfaces for Oracle Application Adapter for PeopleSoft (WebLogic Server 10gr3), you must:

1. Import and build the Component Interfaces.
2. Configure Component Interface security.
3. Test the Component Interfaces.

Importing and Building the Component Interfaces

The Component Interfaces provided with Oracle Application Adapter for PeopleSoft (WebLogic Server 10gr3) are delivered through a PeopleSoft project:

- For PeopleSoft Release 8.4, it is the IWY_CI_84 project, packaged in `iwpsci84.zip`.
- For PeopleSoft Release 8.1, it is the IWY_CI_81 project, packaged in `iwpsci81.zip`.

On Microsoft Windows, the default location of the files is *`wls_home`*`\erp-adapters\etc\peoplesoft`.

Use the corresponding location on non-Windows systems.

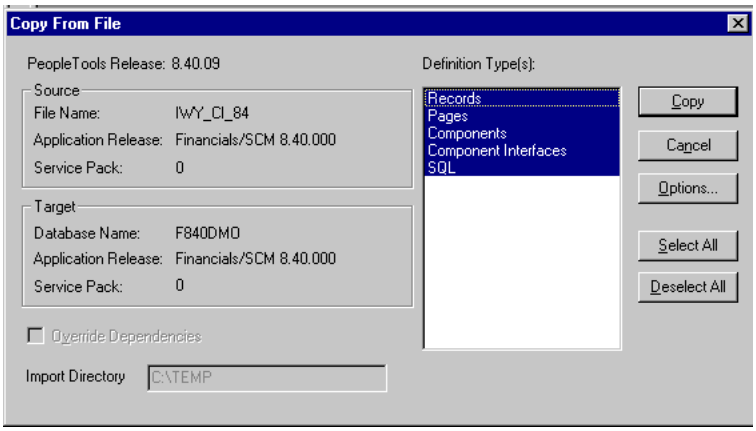
Importing and Building the Component Interfaces

To import the IWY_CI_81 or IWY_CI_84 project to PeopleSoft:

1. Unzip `iwpsci81.zip` or `iwpsci84.zip` to any directory.

   The unzip process creates its own subdirectory. For example, if you extract the file to `c:\temp`, it creates `c:\temp\IWY_CI_81` or `c:\temp\IWY_CI_84`.
2. Launch the PeopleSoft Application Designer in the two-tier mode.
3. Open the Copy From File Select Project dialog box as follows:
   - In PeopleSoft 8.4, select **Copy Project** from the Tools menu, and then select **From File.**
   - In PeopleSoft 8.1, select **Copy Project from File** from the File menu.

     The Copy Project From File dialog box opens.
4. Navigate to the original directory in which you unzipped the file.

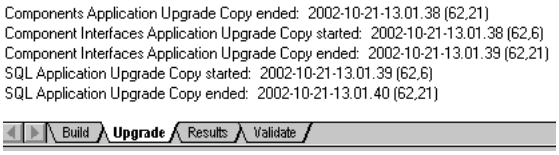


5. Click **Open** (in release 8.4) or **Copy** (in release 8.1) to open the Copy From File dialog box.

> **Note:** Although the preceding figures illustrate PeopleSoft release 8.4, the corresponding instructions are accurate for releases 8.1 and 8.4.

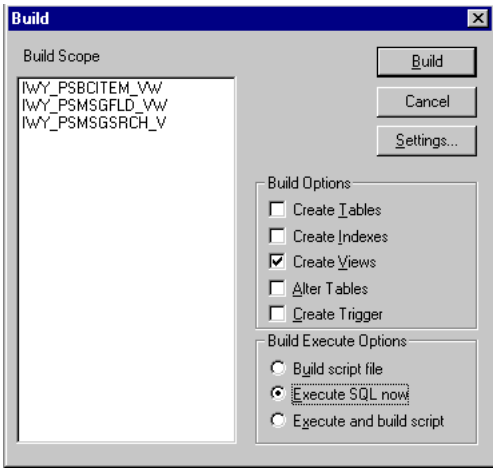
6. Highlight all objects listed in **Definition Type(s)**, and then click **Copy.**

   The Application Designer displays the following message, which indicates successful completion.



7. To build the views in the project, select **Build,** and then select **Project.**

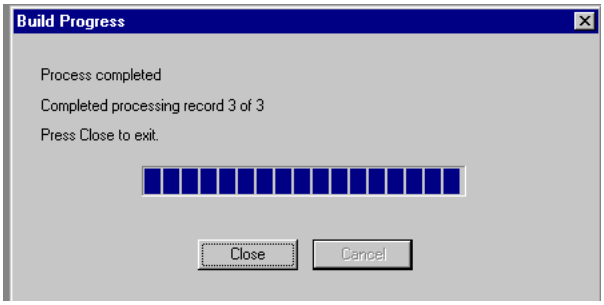
   The Build dialog box is displayed.



8. In the Build Options pane, select **Create Views.**
9. Select your site's customary option in the Build Execute Options pane. (In the previous figure, Execute SQL now is selected.)

10. Click **Build.**

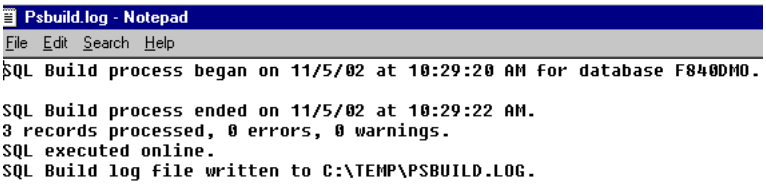
    The Application Designer displays a Build Progress status window.



    You can use your native SQL Tool to view the records from the generated view to ensure that they have been created correctly.

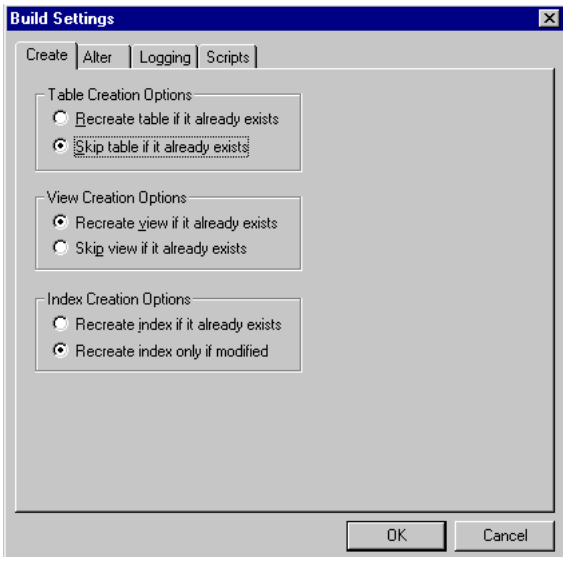
11. If the view has not been generated correctly, click **Close,** and double-click the SQL Build log statement.

    The `PSBUILD` log file appears.



12. If you encounter problems, check the Build settings options by selecting **Build,** and then **Settings.**

    The Build Settings dialog box is displayed.



Depending on the application server database for PeopleSoft, some databases may require the Tablespace name. Consult your PeopleSoft database administrator for more information regarding this function.

You have now finished importing and building the Component Interfaces. To configure security for Component Interfaces, refer to "Configuring Component Interface Security" on page A-5.

Configuring Component Interface Security

Application Explorer requires the custom Component Interfaces that you imported and built in the previous step, so you need to ensure that all Application Explorer users have access to these Component Interfaces. As with all PeopleSoft objects, security is assigned at the Permission List level. Review your site security requirements to determine which users are going to work with Application Explorer, and then set Component Interface security for each distinct Permission List belonging to those users.

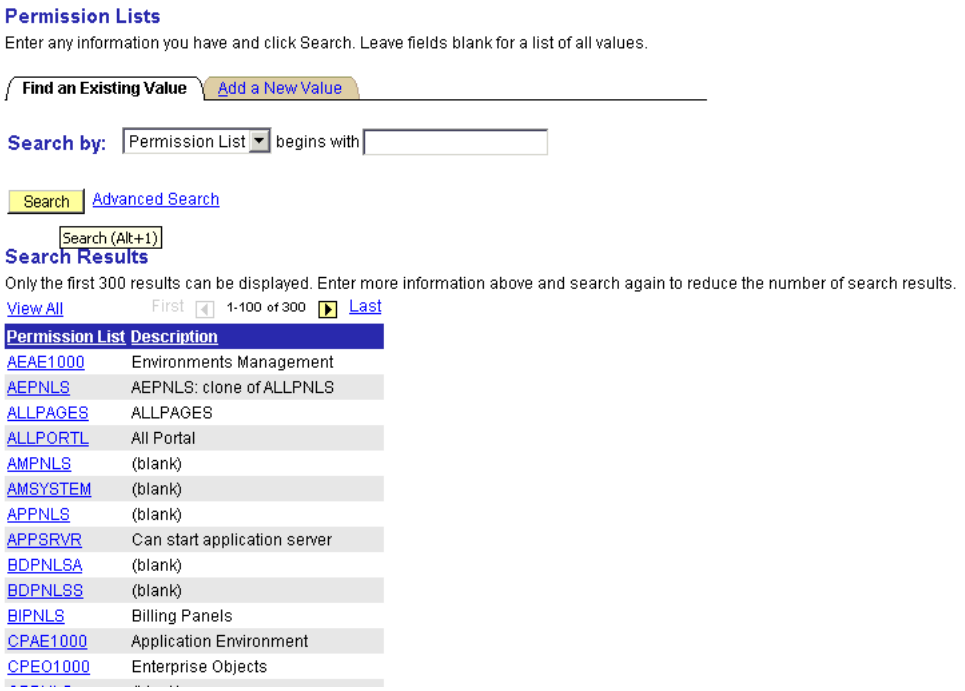
Note: These Component Interfaces are required for creating schemas and business services, and they are used at runtime for using the Find method. They have only Get and Find access and cannot be used to update your PeopleSoft database. This minimizes any possible security exposure.

In PeopleSoft release 8.1, you can set security in 2, 3, or 4-tier mode, whereas in release 8.4 and higher, you can set security 4-tier mode only.

The following steps describe how to configure security for all supported releases of PeopleSoft in all supported modes. The figures shown in the steps reflect PeopleSoft release 8.4 in 4-tier mode.

1. Select PeopleTools, Security, User Profiles, Permissions & Roles, and then Permission Lists.
2. Click **Search** and select the relevant Permission List.

   The Permission List pane opens on the right.



3. Click the right arrow next to the **Sign-on Times** tab to display the Component Interfaces tab.

4. Click the **Component Interfaces** tab.
5. To add a new row to the Component Interfaces list, select the plus sign (+).
6. Enter or select **IWY_CI_ATTRIBUTES Component Interface** and click **Edit.**
7. To set the Get and Find methods to Full Access, click **Full Access (All).**
8. Click **OK.**
9. Repeat steps 5 through 8 for the IWY_CI_MESSAGES Component Interface.
10. Scroll down to the bottom of the Component Interfaces window, and click **Save.**

You have finished configuring security for the Component Interfaces delivered with Oracle Application Adapter for PeopleSoft (WebLogic Server 10gr3). To test these Component Interfaces, refer to "Testing the Component Interfaces" on page A-6.

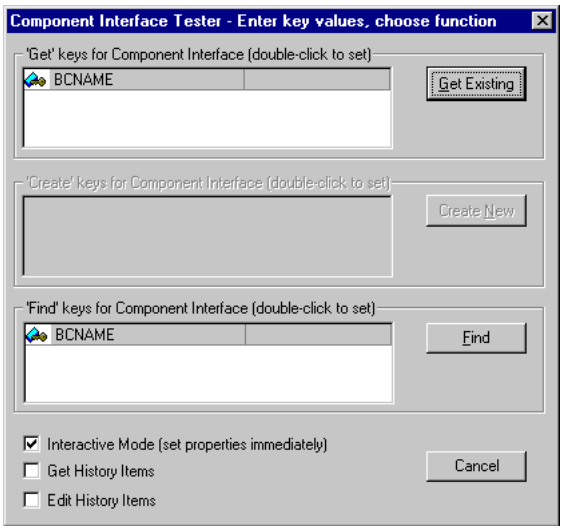
Testing the Component Interfaces

You must test each of the Oracle Application Adapter for PeopleSoft (WebLogic Server 10gr3) Component Interfaces before using them.

To test the Component Interfaces:

1. In PeopleSoft Application Designer, open the IWY_CI_ATTRIBUTES Component Interface.
2. Select **Tools**, and then **Test Component Interface.**

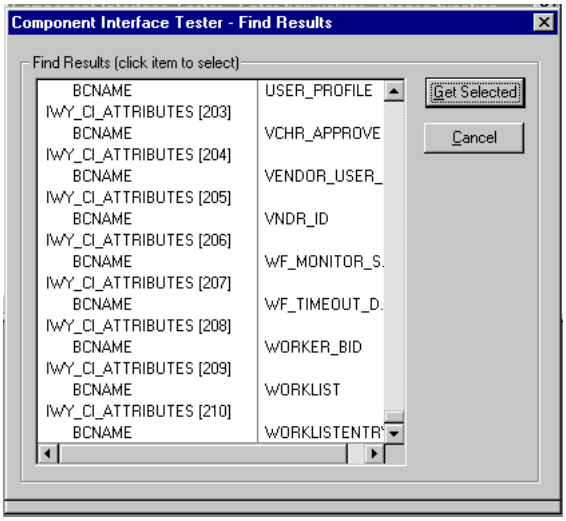
   The Component Interface Tester dialog box is displayed.



Note: The Create New option is disabled because the Add method is not applicable to this Component Interface.

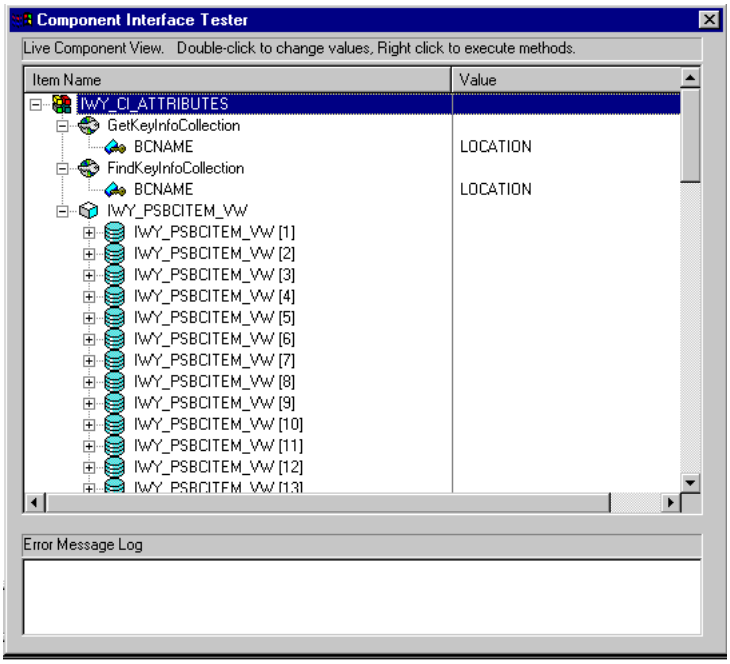
3. Click **Find**. Entries for the underlying component appear.

   A message may appear stating that display is limited to a certain number of entries. This is not a problem.

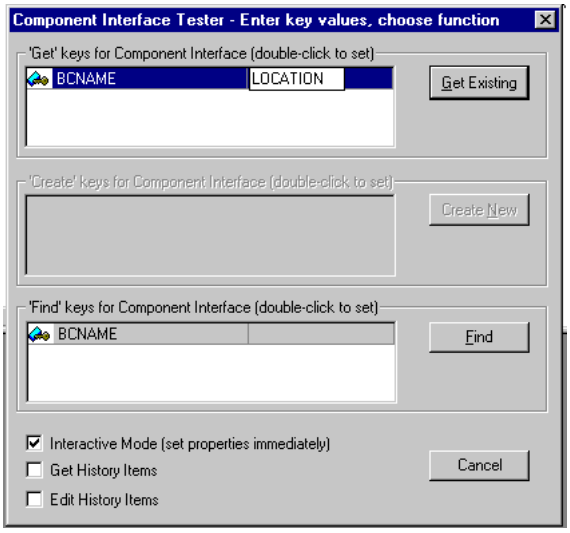


4. Highlight one of the lines with its corresponding key in the Find Results window and click **Get Selected**. The relevant data for the selected key is displayed.

   If this window opens, the Component Interface has been successfully tested for the Find method.

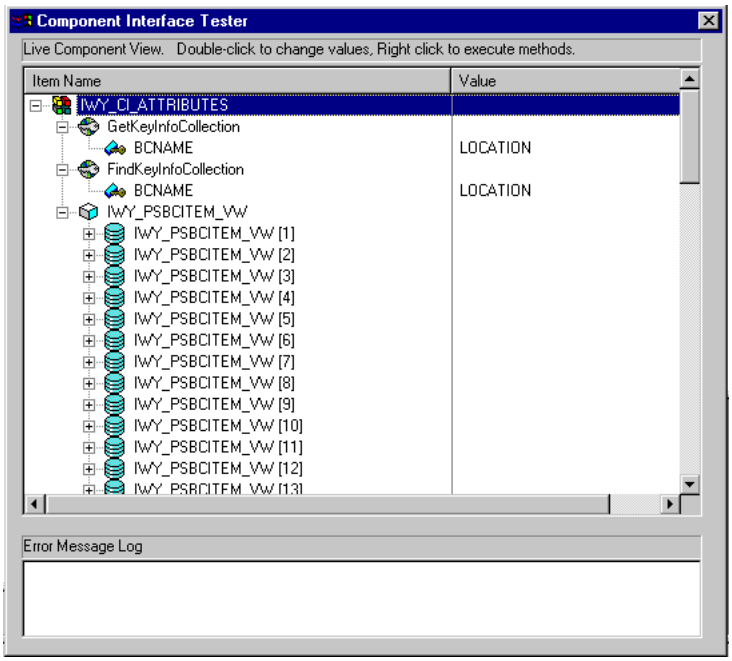


5. Click **Get Existing**. For the Get method, an existing key must be entered.



The exposed properties for the key that is entered are returned.

If the following window opens, the the Component Interface has been successfully tested for the `Get` method.



6. Repeat this process for the IWY_CI_MESSAGES Component Interface.

You have finished testing the Component Interfaces.

Installing the TCP/IP Message Router for Oracle Application Adapter for PeopleSoft (WebLogic Server 10gr3)

To enable PeopleSoft to send an XML event document to components using TCP/IP, you must install the type of TCP/IP message router required for your PeopleSoft release:

- For Release 8.4, install the TCP/IP target connector. For more information, refer to "Installing the TCP/IP Target Connector for PeopleSoft Release 8.4" on page A-9.
- For Release 8.1, install the TCP/IP handler. For more information, refer to "Installing the TCP/IP Handler for PeopleSoft Release 8.1" on page A-10.

> **Note:** If you are not using PeopleSoft messages for event handling, you may skip this topic.

Installing the TCP/IP Target Connector for PeopleSoft Release 8.4

The TCP/IP target connector for PeopleSoft release 8.4 is installed with Oracle Application Adapter for PeopleSoft (WebLogic Server 10gr3). The default location on Microsoft Windows is *`wls_home`*`\erp-adapters\etc\peoplesoft\iwpsevent84.jar`.

Use the corresponding location on non-Windows systems.

To install the TCP/IP target connector for PeopleSoft Release 8.4:

1. Extract `TCPIPTARGET84.class` from `iwpsevent84.jar`. Use any extraction utility for your platform.
2. Port `TCPIPTARGET84.class` to the platform where the PeopleSoft gateway Web server is located.

3. Place `TCPIPTARGET84.class` in the PeopleSoft server target connector directory.

Installing the TCP/IP Handler for PeopleSoft Release 8.1

The TCP/IP target connector for PeopleSoft release 8.1 is installed with Oracle Application Adapter for PeopleSoft (WebLogic Server 10gr3). The default location on Microsoft Windows is *`wls_home`*`\erp-adapters\etc\peoplesoft\iwpsevent81.jar`.

Use the corresponding location on non-Windows systems. If this location does not exist, contact your distributor for copies of the relevant files.

To install the TCP/IP Handler for PeopleSoft release 8.1:

1. Port `iwpsevent81.jar` to the platform on which the PeopleSoft gateway Web server is located.
2. Place `iwpsevent81.jar` in the servletclasses directory under the PeopleSoft Web server.
3. Extract the embedded class files.

Installing the TCP/IP Handler on a UNIX System

To install the TCP/IP handler for PeopleSoft release 8.1 on a UNIX system:

1. Log on to the UNIX system with the proper PeopleSoft ID and permissions.
2. Navigate to the PeopleSoft Web servlets directory. This may vary by release and by Web server, but is usually:

   ```
   $PS_HOME/webserv/servletclasses
   ```

3. Issue the `jar` command to extract the class files required by PeopleSoft.

   This is a sample command:

   ```
   jar -xvf /tmp/iwpsevent81.jar
   ```

   It displays the following output on a Sun or Solaris system:

   ```
   $ jar -xvf /tmp/iwpsevent81.jar
   created: META-INF/
   extracted: META-INF/MANIFEST.MF
   extracted: psft/pt8/tcphandler/TCPIPHandler81$Entry.class
   extracted:
   psft/pt8/tcphandler/TCPIPHandler81$HandlerEntry.class
   extracted:
   psft/pt8/tcphandler/TCPIPHandler81$PublicationHandler.class
   extracted: psft/pt8/tcphandler/TCPIPHandler81.class
   $
   ```

Note: The files are placed in a new directory, `tcphandler`, under `psft/pt8`.

B

Configuring Oracle Application Adapter for J.D. Edwards (WebLogic Server 10gr3)

This appendix describes how to configure Oracle Application Adapter for J.D. Edwards (WebLogic Server 10gr3).

This appendix contains the following topics:

Modifying the JDE.INI File for Outbound and Inbound Processing

This section describes the settings that are required in the JDE.INI file for the XML call object kernel (outbound and inbound processing).

Open the JDE.INI file and modify the [JDENET_KERNEL_DEF6] and **[JDENET_KERNEL_DEF15]** sections as follows:

```
[JDENET_KERNEL_DEF6]
krnlName=CALL OBJECT KERNEL
dispatchDLLName=XMLCallObj.dll
dispatchDLLFunction=_XMLTransactionDispatch@28
maxNumberOfProcesses=1
numberOfAutoStartProcesses=1

[JDENET_KERNEL_DEF15]
krnlName=XML TRANSACTION KERNEL
dispatchDLLName=XMLTransactions.dll
dispatchDLLFunction=_XMLTransactionDispatch@28
maxNumberOfProcesses=1
numberOfAutoStartProcesses=1
```

The parameters containing an underscore (_) and @28 are for Windows NT operating systems only. For other operating systems, replace the parameters with the values in the following table:

Operating System	Call Object dispatch DLLName	XML Trans dispatch DLLName
AS400	XMLCALLOBJ	XMLTRANS
HP9000B	libxmlcallojb.sl	libxmltransactions.lo

Operating System	Call Object dispatch DLLName	XML Trans dispatch DLLName
Sun or RS6000	libxmlcallojb.so	Libxmltransactions.so

Note: The J.D. Edwards installation for version B7333(XE) does not include **[JDENET_KERNEL_DEF15]**. As a result, if you are using version B7333(XE), you must manually add it to the jde.ini file. For all other J.D. Edwards versions, **[JDENET_KERNEL_DEF15]** is included with the installation.

The J.D. Edwards Event Listener

Oracle WebLogic Server Application Adapter for J.D. Edwards OneWorld Event Listener is designed specifically to provide J.D. Edwards approved access to your business events. The J.D. Edwards Event Listener refers to a specialized application that runs with J.D. Edwards business functions and is called by the J.D. Edwards application system.

The J.D. Edwards application system provides the Event Listener with the information required to retrieve the event information for only the desired events. For information about configuring the J.D. Edwards environment, see the *J.D. Edwards Interoperability Guide for OneWorld.*

The J.D. Edwards Event Listener is called directly from the J.D. Edwards application and is passed a Z-file record identifier. This identifier then generates a request document that is passed to the server for processing. The server retrieves the event information from the J.D. Edwards system and propagates the information for integration with other application systems.

Configuring the J.D. Edwards Event Listener

The J.D. Edwards Event Listener is installed as part of the basic installation. The J.D. Edwards Adapter is automatically installed in the appropriate directory. If the integration server is not installed on the same computer as the J.D. Edwards application server, you must configure the J.D. Edwards Event Listener.

The J.D. Edwards Event Listener is invoked by J.D. Edwards for specific transactions as configured in the J.D. Edwards environment.

The J.D. Edwards Event Listener includes the following components:

- The listener exit `(IWOEvent)`, located under *`adapters_home`*`\etc\jde`, where `adapters_home` is *`wls_home`*`\erp-adapters\`. For example:

  ```
  C:\wls_home\erp-adapters\etc\jde\iwoevent.dll
  ```

  The file extension varies depending on your operating system:

  - For **Windows**, the exit is `iwoevent.dll`.
  - For **Sun Solaris**, the exit is `libiwoevent.so`.
  - For **HP-UX**, the exit is `libiwoevent.sl`.
  - For **AS/400**, the exit is `iwaysav.sav`.
  - For **IBM AIX**, the exit is `libiwoevent.so`.

- The listener configuration file (`iwoevent.cfg`), which must be created by the user.

The J.D. Edwards Event listener exit is the function that passes the key fields for a record in the J.D. Edwards outbound transaction tables to the integration server for processing by the inbound Oracle WebLogic Server Application Adapter for J.D. Edwards OneWorld. The J.D. Edwards Event listener is deployed under the J.D. Edwards Enterprise Server. The Java class for the J.D. Edwards Event listener is called IWOEvent (the file extension depends on the operating system) and is case-sensitive.

1. Create a folder called Outbound under the JDE structure on the JDE Enterprise Sever, for example:

   ```
   \\JDEdwards\E812\DDP\Outbound
   ```

2. Copy the `iwoevent.dll` file in the new Outbound folder.
3. Create an environment variable, *`IWOEVENT_HOME`*, to point to the directory containing the `iwoevent.dll` file.
   - On Windows: Add *`IWOEVENT_HOME`* to the system environment variables.
   - On UNIX: Add the following command to your start-up script:

     ```
     export IWOEVENT_HOME =/directory_name
     ```

4. On the J.D. Edwards Server, create an `iwoevent.cfg` file in the defined directory, *`IWOEVENT_HOME`*.

   The J.D. Edwards Event listener requires connection information for the associated adapter to initiate events properly. This information is contained in the `iwoevent.cfg` file. You must create this file and add the connection information to it. The J.D. Edwards Event Listener requires connection information for the associated integration server to function properly. This information is contained in the `iwoevent.cfg` file. The `iwoevent.cfg` file has three distinct sections:

   - **Common**

     The common section of the configuration file contains basic configuration options. Currently, only the trace option is supported.

     To set the trace option, select **on** or **off**.

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

     Where `on` sets the tracing to on and `off` sets the tracing to off. Off is the default value.

   - **Alias**

     The alias section of the configuration file contains the connection information required to send transactions to specific servers. Currently, the Oracle WebLogic Server Application Adapter for J.D. Edwards OneWorld supports 100 entries (alias names) in the configuration file.

     The alias values to these entries are as follows:

     ```
     Alias.aliasname={ipaddress|dsn}:port, trace={on|off}
     ```

     Where:

     `aliasname` is the symbolic name given to the connection.

`ipaddress|dsn` is the IP address or DSN name for the server containing Oracle WebLogic Server Application Adapter for J.D. Edwards OneWorld (required).

`port` is the port defined for Oracle WebLogic Server Application Adapter for J.D. Edwards OneWorld in the TCP channel configuration (required).

`trace={on|off}` sets the tracing to on for the particular alias.

- **Trans**

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

  If a particular J.D. Edwards transaction is not defined to an alias, it is sent to all aliases. The trans values to these entries are as follows:

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

  Where `jdeTransactionName` is the JDE-defined name for the outbound transaction and `alias1,alias2,aliasn` is the list of aliases to which the transactions are sent.

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

```
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.JDESOOUT=edamcs1t,edamcs2
trans.JDEPOOUT=edamcs1
```

5. Create a folder using the alias names that are specified in the iwoevent.cfg file under the defined directory, *`IWOEVENT_HOME`*. For example:

   `\\JDEdwards\E812\DDP\Outbound\edamcs1`

Runtime Overview

After J.D. Edwards starts the Event listener, the listener accesses the configuration file, called `iwoevent.cfg` (case-sensitive). Based on the information in the configuration file, the listener sends the event notification to the integration server. All log information is saved in a file called `iwoevent.log`. The `iwoevent.log` file is created in the outbound folder where the `iwoevent.dll` and `iwoevent.cfg` files are located.

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