BEA WebLogic Process Integrator

Installation and Configuration Guide

BEA WebLogic Process Integrator Release 1.1
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BEA WebLogic Process Integrator Installation and Configuration Guide

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Contents

About This Document

What You Need to Know v
e-docs Web Site vi
How to Print the Document vi
Related Information vii
Contact Us! vii
Documentation Conventions viii

1. Getting Started

WebLogic Process Integrator Software Package 1-2
Installation Prerequisites 1-3
Installed Components 1-5

2. Installing WebLogic Process Integrator on Windows NT

Installing the WebLogic Process Integrator Software Package 2-1
Installing Your Software License 2-10

3. Installing WebLogic Process Integrator on UNIX

Installing the WebLogic Process Integrator Software Package 3-1
Installing Your Software License 3-2

4. Configuring and Starting WebLogic Process Integrator

Creating Database Tables 4-1
Customizing and Starting WebLogic Process Integrator 4-2
    Customizing and Starting the Server 4-2
        Step 1. Edit the Server Environment Variables File 4-2
        Step 2. Edit the weblogic.properties File 4-4

Step 3. Configure the Mail Session Properties for the Workflow Processor EJBs 4-6
Step 4. Edit the rdbmsrealm.properties File 4-8
Step 5. Start the WebLogic Process Integrator Server 4-9
Customizing and Starting the Studio 4-9
Step 1. Edit the Studio Environment Variables File 4-9
Step 2. Start the WebLogic Process Integrator Studio 4-10
Customizing and Starting the Worklist 4-11
Step 1. Edit the Worklist Environment Variables File 4-11
Step 2. Start the WebLogic Process Integrator Worklist 4-11

About This Document

This document explains how to install BEA WebLogic Process Integrator™ and how to configure a database server and BEA WebLogic Server™ to run the WebLogic Process Integrator application. This document is organized as follows:

- Chapter 1, “Getting Started,” provides an overview of package contents and hardware and software requirements for WebLogic Process Integrator.
- Chapter 2, “Installing WebLogic Process Integrator on Windows NT,” provides instructions for installing WebLogic Process Integrator on a Windows NT platform.
- Chapter 3, “Installing WebLogic Process Integrator on UNIX,” provides instructions for installing WebLogic Process Integrator on a UNIX platform.
- Chapter 4, “Configuring and Starting WebLogic Process Integrator,” provides instructions for configuring a database server to run WebLogic Process Integrator, along with instructions for configuring and starting the WebLogic Process Integrator server, studio, and worklist components.

What You Need to Know

This document is intended for system administrators and application programmers who install and configure WebLogic Process Integrator.

e-docs Web Site

BEA product documentation is available on the BEA corporate Web site. From the BEA Home page, click on Product Documentation or go directly to the "e-docs" Product Documentation page at `http://e-docs.bea.com`.

How to Print the Document

You can print a copy of this document from a Web browser, one file at a time, by using the File—>Print option on your Web browser.

A PDF version of this document is available on the WebLogic Process Integrator documentation Home page on the e-docs Web site (and also on the documentation CD). You can open the PDF in Adobe Acrobat Reader and print the entire document (or a portion of it) in book format. To access the PDFs, open the WebLogic Process Integrator documentation Home page, click the PDF files button, and select the document you want to print.

If you do not have the Adobe Acrobat Reader, you can get it for free from the Adobe Web site at `http://www.adobe.com/`.

Related Information

The following BEA WebLogic Process Integrator documents contain information that is relevant to using this product.

- *BEA WebLogic Process Integrator Tutorial*
- *BEA WebLogic Process Integrator Studio User Guide*
- *BEA WebLogic Process Integrator Worklist User Guide*
- *BEA WebLogic Process Integrator Javadoc*
- *BEA WebLogic Process Integrator Release Notes*

Contact Us!

Your feedback on the BEA WebLogic Process Integrator 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 WebLogic Process Integrator documentation.

In your e-mail message, please indicate which release of the BEA WebLogic Process Integrator documentation you are using.

If you have any questions about this version of BEA WebLogic Process Integrator, or if you have problems installing and running WebLogic Process Integrator, 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
Ctrl+Tab	Indicates that you must press two or more keys simultaneously.
italics	Indicates emphasis or book titles.

`monospace text`	Indicates code samples, commands and their options, data structures and their members, data types, directories, and file names and their extensions. Monospace text also indicates text that you must enter from the keyboard.
	Examples:
	`#include <iostream.h> void main ( ) the pointer psz`
	`chmod u+w *`
	`\tux\data\ap`
	`.doc`
	`tux.doc`
	`BITMAP`
	`float`

`monospace italic text`	Identifies variables in code. *Example*: `String` *`expr`*
UPPERCASE TEXT	Indicates device names, environment variables, and logical operators. *Example*s: LPT1 SIGNON OR

Convention	Item
`{ }`	Indicates a set of choices in a syntax line. The braces themselves should never be typed.

`[ ]`	Indicates optional items in a syntax line. The brackets themselves should never be typed.
	Example:
	`buildobjclient [-v] [-o name ] [-f` *`file-list`*`]...`
	`[-l` *`file-list`*`]...`

`|`	Separates mutually exclusive choices in a syntax line. The symbol itself should never be typed.

`...`	Indicates one of the following in a command line:
	■ That an argument can be repeated several times in a command line
	■ That the statement omits additional optional arguments
	■ That you can enter additional parameters, values, or other information
	The ellipsis itself should never be typed.
	Example:
	`buildobjclient [-v] [-o name ] [-f` *`file-list`*`]...`
	`[-l` *`file-list`*`]...`

. . .	Indicates the omission of items from a code example or from a syntax line. The vertical ellipsis itself should never be typed.

CHAPTER

1 Getting Started

The following sections describe what you need to know before you install and run WebLogic Process Integrator:

- WebLogic Process Integrator Software Package
- Installation Prerequisites
- Installed Components

WebLogic Process Integrator Software Package

The WebLogic Process Integrator package includes the following:

- Software CD

  The software CD contains the following WebLogic Process Integrator components:

  - WebLogic Process Integrator Server
  - WebLogic Process Integrator Studio Client Application
  - WebLogic Process Integrator Worklist Client Application

- Documentation CD

  The documentation CD contains the following documents:

  - *BEA WebLogic Process Integrator Tutorial*
  - *BEA WebLogic Process Integrator Studio User Guide*
  - *BEA WebLogic Process Integrator Worklist User Guide*
  - *BEA WebLogic Process Integrator Javadoc*
  - *BEA WebLogic Process Integrator Release Notes*

- Hard Copy Documentation

  - *BEA WebLogic Process Integrator Installation and Configuration Guide* (this document)
  - *BEA WebLogic Process Integrator Release Notes*

Installation Prerequisites

Before you install the components included on the WebLogic Process Integrator software CD, make sure you have the following software and hardware configuration for your machine:

- For a Windows NT installation, a computer with a Pentium processor or better running Windows NT 4.0 with Service Pack 5 or later
- For a UNIX installation:
  - Solaris—UltraSparc running Sun Microsystems Solaris 2.7
  - HP-UX—PA-RISC 100 MHz or higher computer running Hewlett-Packard HP-UX 11
  - AIX—RS/6000 PowerPC-604 200 MHz or higher computer with Performance Pack running IBM AIX 4.3.3

Note: For up-to-date information about platform support for WebLogic Process Integrator, go to `http://www.bea.com/products/weblogic/integrator/platforms.html`

- A minimum of 256 MB of RAM
- 100 MB of free disk space
- A network connection
- Access to a CD reader
- WebLogic Process Integrator installation CD and a valid WebLogic Process Integrator license
- BEA WebLogic Server 5.1 with Service Pack 5
- Java 2 SDK, Standard Edition, v1.2.2

- One of the following supported databases:
  - Oracle 8.1.5
  - Microsoft SQL Server 7.0
  - Sybase System 11

  WebLogic Process Integrator must have access to a database server that is installed on the local network. You must also have a database server account with sufficient privileges to create a database with tables.

- JDBC drivers for your database server.
  - Oracle: BEA's Type-2 JDBC driver for Oracle, WebLogic jDriver for Oracle, is included with the WebLogic Server distribution. This driver requires an Oracle client installation.
  - Oracle: The Oracle thin driver is a Type-4 JDBC driver distributed by Oracle.
  - Microsoft SQL Server: BEA's WebLogic jDriver for SQL Server is a pure Java Type-4 JDBC driver that provides connectivity to Microsoft SQL Server. You can download this driver from the BEA Web site. The driver is available in two versions: one for SQL Server version 6.5 and another for version 7.
  - Sybase: The jConnect Type-4 driver from Sybase is now bundled with your WebLogic Server distribution. This driver is provided for your use without charge.

Note: Refer to `http://www.weblogic.com/docs51/classdocs/jdbcdrivers.html` for updated information about JDBC drivers for WebLogic Process Integrator.

Installed Components

The BEA WebLogic Process Integrator installation procedure installs the following components:

- WebLogic Process Integrator Server
- WebLogic Process Integrator Studio
- WebLogic Process Integrator Worklist
- Apache Xerces 1.0.3
- Apache Xalan 1.0.1

2 Installing WebLogic Process Integrator on Windows NT

The following sections describe installing WebLogic Process Integrator on Windows NT systems:

- Installing the WebLogic Process Integrator Software Package
- Installing Your Software License

Installing the WebLogic Process Integrator Software Package

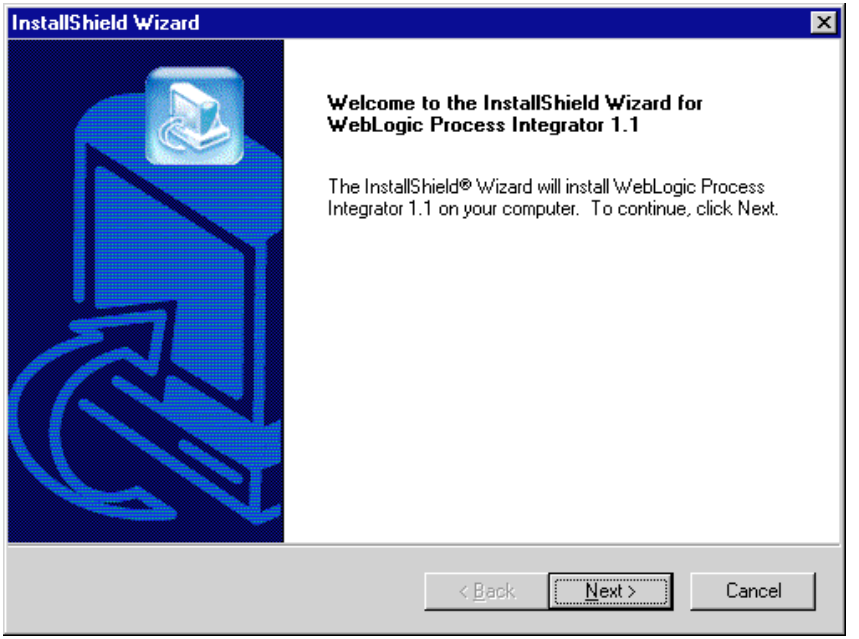
The following procedure explains how to install WebLogic Process Integrator on Windows NT. After installation, you must perform certain configuration tasks before you can run the product. For instructions, refer to Chapter 4, "Configuring and Starting WebLogic Process Integrator."

To install WebLogic Process Integrator on Windows NT:

1. Insert the WebLogic Process Integrator CD in the CD tray.
2. Choose Start—>Programs—>Windows NT Explorer from the Start menu.

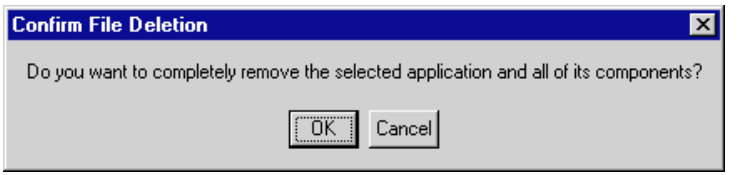
3. Click on the CD drive and navigate to the `nt\` folder.
4. Double-click `Setup.exe` to start the installation process. The Welcome screen displays.

Figure 2-1 Welcome screen



Note: If you already have a version of WebLogic Process Integrator installed on your system, the Confirm File Deletion dialog is displayed instead of the Welcome screen.

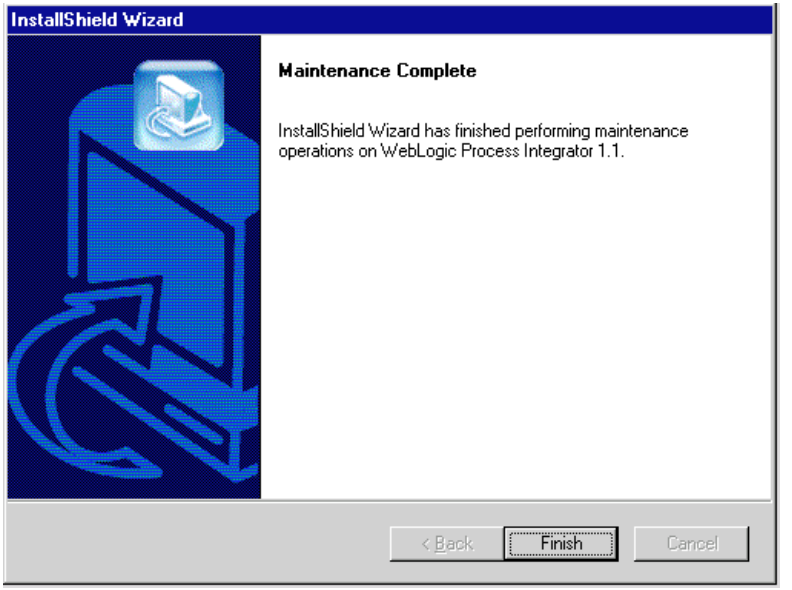
Figure 2-2 Confirm File Deletion dialog box



You must delete the earlier version of WebLogic Process Integrator before you can install the current version.

a. Click OK to delete the earlier version and display the Maintenance Complete screen.

Figure 2-3 Maintenance Complete screen

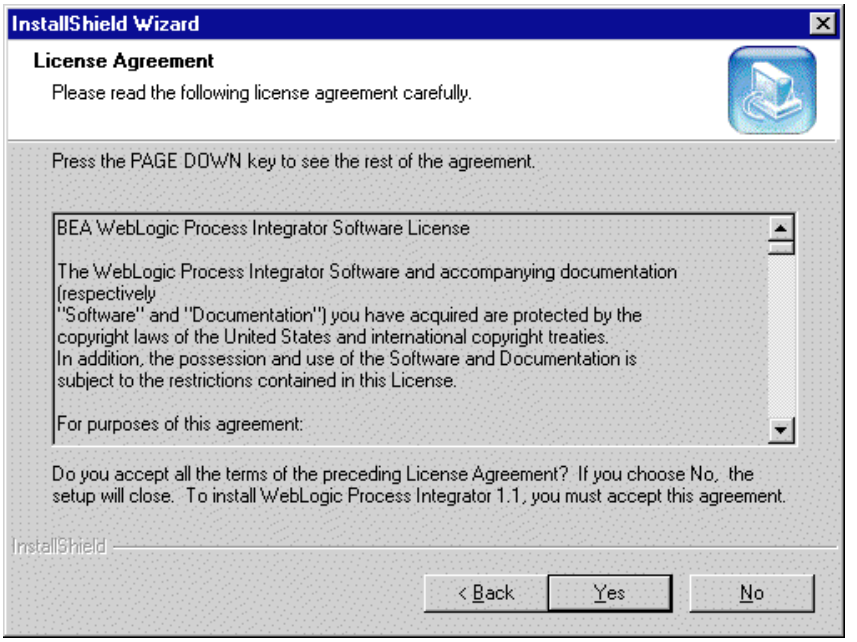


b. Click Finish to complete the deletion process and exit.

c. Restart the installation process as described in step 2 to install the current version.

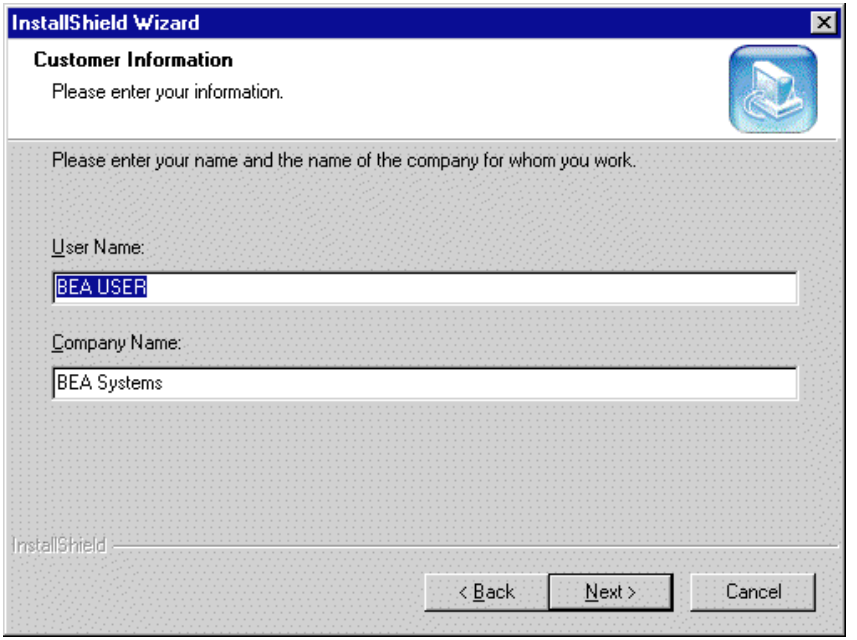
5. Click Next on the Welcome screen to display the License Agreement screen.

Figure 2-4 License Agreement screen



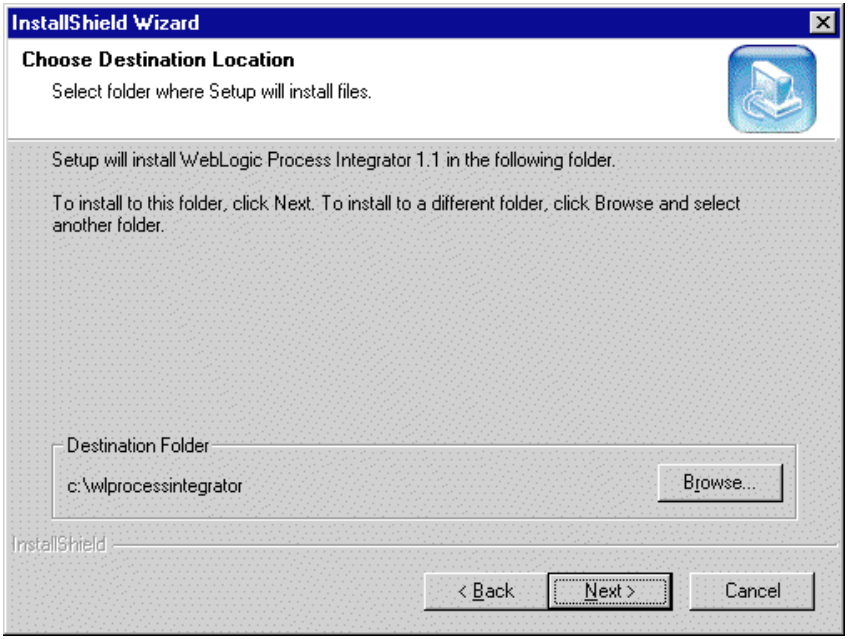
6. Click Yes to accept the license agreement and display the Customer Information screen.

Figure 2-5 Customer Information screen



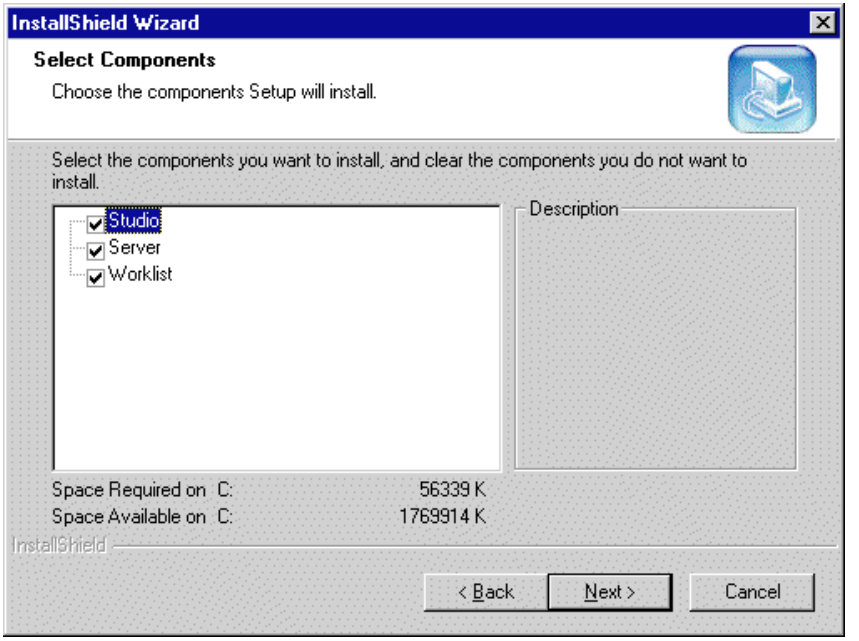
7. Enter your name and company information. Click Next to display the Choose Destination screen.

Figure 2-6 Choose Destination screen



8. Accept the default location or click Browse to specify a different location. Click Next to display the Select Components screen.

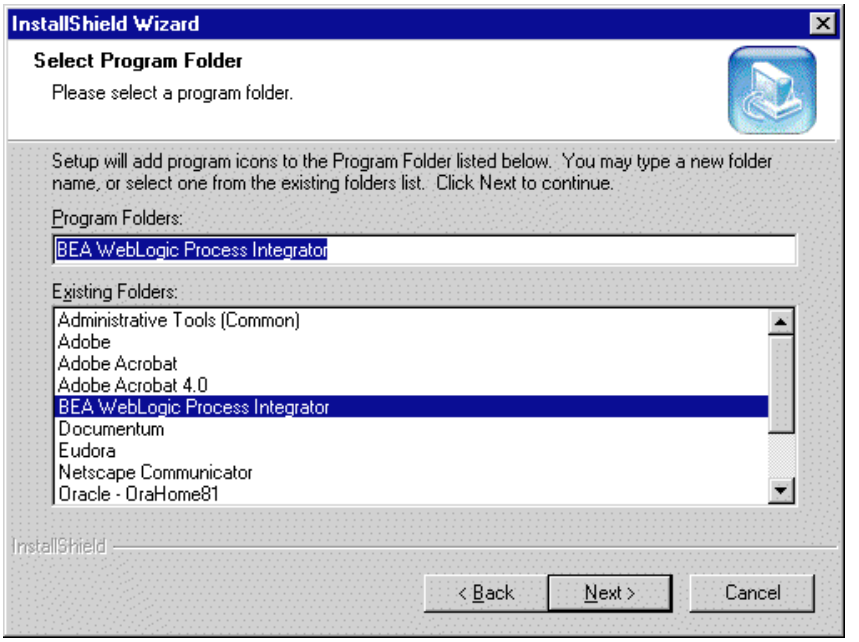
Figure 2-7 Select Components screen



9. Choose the WebLogic Process Integrator components you want to install by selecting or deselecting the checkboxes. Note the "Space Required" and "Space Available" indicators at the bottom of the screen, and make sure you have enough space to install on the selected disk.

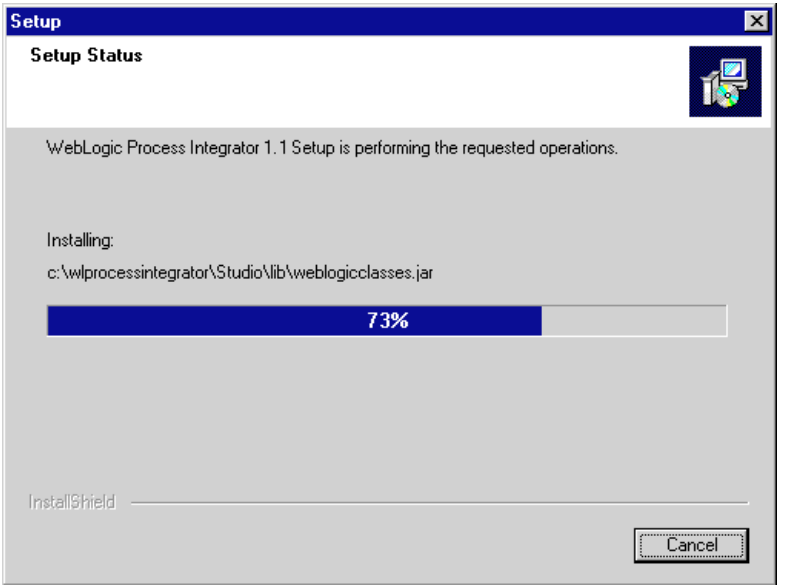
   After you have selected the components to install, click Next to display the Select Program Folder screen.

Figure 2-8 Select Program Folder screen



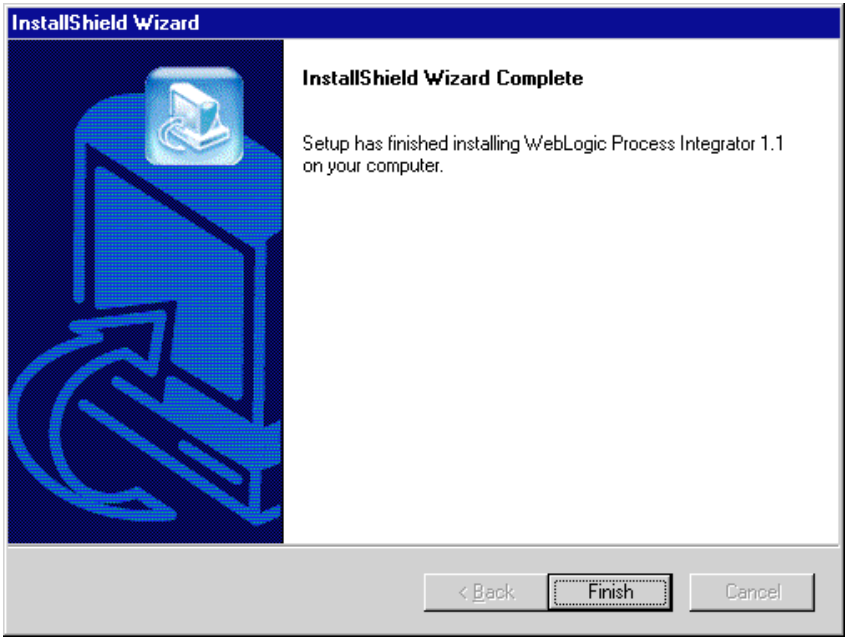
10. Accept the default or choose a different folder in the Existing Folders list. Click Next to start the installation and display the Setup Status screen.

Figure 2-9 Setup Status screen



After the installation process has completed, the Setup Complete screen displays.

Figure 2-10 Setup Complete screen



11. Click Finish to complete the installation.

    The installation process creates a root directory for WebLogic Process Integrator named `\wlprocessintegrator`. The server, studio, and worklist components are stored, respectively, in the following subdirectories under the root: `\Server`, `\Studio`, and `\Worklist`.

Installing Your Software License

The WebLogic Process Integrator requires a software license in order to use the product. To install the software license, copy `license.bea` to the `\wlprocessintegrator\Server\license` directory.

3 Installing WebLogic Process Integrator on UNIX

The following sections describe installing WebLogic Process Integrator on UNIX:

- Installing the WebLogic Process Integrator Software Package
- Installing Your Software License

Installing the WebLogic Process Integrator Software Package

The following procedure explains how to install WebLogic Process Integrator on a UNIX platform. After installation, you must complete certain configuration tasks before you can run the product. For instructions, refer to Chapter 4, "Configuring and Starting WebLogic Process Integrator."

To install the WebLogic Process Integrator on a UNIX system:

1. Insert the WebLogic Process Integrator CD in the CD tray. If the `daemon /usr/sbin/vold` is running, the CD should be mounted in the `/cdrom` directory. If `vold` is not running, consult your UNIX administration documentation to mount the CD.

2. Create a directory named `wlpi` to install WebLogic Process Integrator:

   ```
   mkdir wlpi
   ```

3. Change directories to `wlpi`:

   ```
   cd wlpi
   ```

4. Unzip the compressed files for the Server, Studio, and Worklist components:

   ```
   unzip <CD Directory>/Server.zip
   unzip <CD Directory>/Studio.zip
   unzip <CD Directory>/Worklist.zip
   ```

5. Change the file permissions as appropriate:

   ```
   chmod –R 777 wlprocessintegrator
   ```

Installing Your Software License

The WebLogic Process Integrator requires a software license in order to use the product. To install the software license, copy `license.bea` to the `wlpi/Server/license` directory.

CHAPTER

4 Configuring and Starting WebLogic Process Integrator

The following sections explain how to configure and start the WebLogic Process Integrator Server, Studio client application, and Worklist client application:

- Creating Database Tables
- Customizing and Starting WebLogic Process Integrator

Creating Database Tables

In order to run WebLogic Process Integrator, you must first create the required database tables. The `\wlprocessintegrator\server\ddl` directory contains SQL Data Definition Language (DDL) files to create the required tables. Use your database administrator tool to execute the appropriate DDL file.

- Oracle 8.1.5—Use `wlpi_oracle.ddl`
- Microsoft SQL Server 7.0—Use `wlpi_mssql.ddl`
- Sybase System 11—Use `wlpi_sybase.ddl`

Customizing and Starting WebLogic Process Integrator

Before you can use WebLogic Process Integrator, you need to customize the run-time environment by setting environment variables for each of the WebLogic Process Integrator components. The following sections explain how to set the environment variables and start the WebLogic Process Integrator components:

- Customizing and Starting the Server
- Customizing and Starting the Studio
- Customizing and Starting the Worklist

Customizing and Starting the Server

The following steps explain how to customize the WebLogic Process Integrator Server run-time environment and start the server.

Step 1. Edit the Server Environment Variables File

To edit the server environment variables file:

On Windows NT:

1. Navigate to `\wlprocessintegrator\Server` using Windows NT Explorer.
2. Right click `setWLPIServerEnv.cmd` to edit the file.
3. Set the following variables to values appropriate for your environment:

- JAVA_HOME

  This variable represents the root of the Java run-time environment (for example, `c:\jdk1.2.2`). WebLogic Process Integrator expects to find a Java archive called `jre\lib\rt.jar` in the subdirectory of this path.

- WL_HOME

  This variable represents the root of the WebLogic Server installation directory (for example, `c:\weblogic`).

- JDBC_DRIVER

  This variable represents the directory path containing the JDBC driver classes, .jar, or .zip. Set this variable similar to the following values based on your database:

  - WebLogic jDriver for Oracle

    ```
    %WL_HOME%\lib\classes12_01.zip;%WL_HOME%\lib\nls_charset12_0
    1.zip
    ```

  - WebLogic jDriver for SQL Server

    ```
    %WL_HOME%\mssqlserver4\classes
    ```

  - Sybase jConnect

    ```
    %WL_HOME%\lib\jConnect.jar
    ```

4. Save your changes and close the file.

On UNIX:

1. Change directories to the `wlpi/Server` directory:

   ```
   cd wlpi/Server
   ```

2. Edit `setwlpiserverenv.sh` to make the following changes:

   a. Set `JAVA_HOME` to match the JDK directory on your machine.

   b. Set `WL_HOME` to match your WebLogic Server home directory.

   c. Set `JDBC_DRIVER_CLASSPATH` to point to your JDBC Driver.

      For example, if you have installed JDK in `/home/wlpiuser/jdk1.2.2` and WebLogic server in `/home/wlpiuser/weblogic5.1`, then edit the following lines in `setwlpiserverenv.sh`:

      ```
      JAVA_HOME=/home/wlpiuser/jdk1.2.2
      WL_HOME=/home/wlpiuser/weblogic5.1
      JDBC_DRIVER_CLASSPATH=$WL_HOME/lib/classes12_01.zip:\
      $WL_HOME/lib/nls_charset12_01.zip
      ```

3. Save your changes and close the file.

4. Launch a `sh` or `ksh`.
5. Run the environment script:

   ```
   . ./setwlpiserverenv.sh
   ```

Step 2. Edit the weblogic.properties File

To edit the `weblogic.properties` file:

1. Navigate to the `weblogic.properties` file in the `Server` directory of the WebLogic Process Integrator installation.
   - On Windows NT, navigate to `\wlprocessintegrator\Server`.
   - On UNIX, change directories to the `wlpi/Server` directory

     ```
     cd wlpi/Server
     ```
2. Use a text editor to open the `weblogic.properties` file.
3. Scroll down to the "WLPI Specific Settings" section.
4. Uncomment the JDBC driver section for your database by removing the pound (#) characters.
5. Specify your database name, host server, and port in the line beginning with `url=`. Refer to Listing 4-1, Listing 4-2, and Listing 4-3 for the appropriate values based on your database.
6. Set `user=` and `password=` to an account with create/update/delete privileges on the database server. Refer to Listing 4-1, Listing 4-2, and Listing 4-3 for the appropriate values based on your database.

Listing 4-1 JDBC Connection Pool Properties for Oracle Thin

```
# Connection pool to Oracle using Thin
weblogic.jdbc.connectionPool.wlpiPool=\
       url=jdbc:oracle:thin:@MyOracleHost:1521:MyDB,\
       driver=oracle.jdbc.driver.OracleDriver,\
       loginDelaySecs=1,\
       initialCapacity=1,\
       maxCapacity=3,\
       capacityIncrement=1,\
       allowShrinking=true,\
       shrinkPeriodMins=15,\
       refreshTestMinutes=10,\
       props=user=MyUserName;password=MyPassword
```

Listing 4-2 JDBC Connection Pool Properties for MS SQL Server

```
# Connection pool for MS SQL Server 7.0 database connectivity
weblogic.jdbc.connectionPool.wlpiPool=\
       url=jdbc:weblogic:mssqlserver4:MyDB@MySqlServerHost\
       :1433?sql7=true,\
       driver=weblogic.jdbc.mssqlserver4.Driver,\
       loginDelaySecs=1,\
       initialCapacity=1,\
       maxCapacity=2,\
       capacityIncrement=1,\
       allowShrinking=true,\
       shrinkPeriodMins=15,\
       refreshTestMinutes=10,\
       props=user=MyUserName;password=MyPassword
```

Listing 4-3 JDBC Connection Pool Properties for Sybase jConnect

```
# Connection pool to Sybase using jConnect
weblogic.jdbc.connectionPool.wlpiPool=\
        url=jdbc:sybase:Tds:MySybaseHost:5000/MyDB,\
        driver=com.sybase.jdbc.SybDriver,\
        loginDelaySecs=1,\
        initialCapacity=1,\
        maxCapacity=3,\
        capacityIncrement=1,\
        allowShrinking=true,\
        shrinkPeriodMins=15,\
        refreshTestMinutes=10,\
        props=user=MyUserName;password=MyPassword
```

7. Edit the `MailSession` property using the value shown in Listing 4-4.

Listing 4-4 Mail Session Property

```
# Mail session
weblogic.resource.MailSession.wlpi.MailSession=mail.from=\
myWLPIApplication@mycompany.com,mail.host=smtp.mycompany.com
```

8. Save your changes and close the file.

Step 3. Configure the Mail Session Properties for the Workflow Processor EJBs

To configure the mail-session properties:

1. Run the WebLogic EJB deployer tool.

On Windows NT:

   a. Navigate to `\wlprocessintegrator\Server` using Windows NT Explorer.

   b. Double click `DeployerTool.cmd` to start the WebLogic EJB deployer tool.

On UNIX:

a. Change directories to the `wlpi/Server` directory:

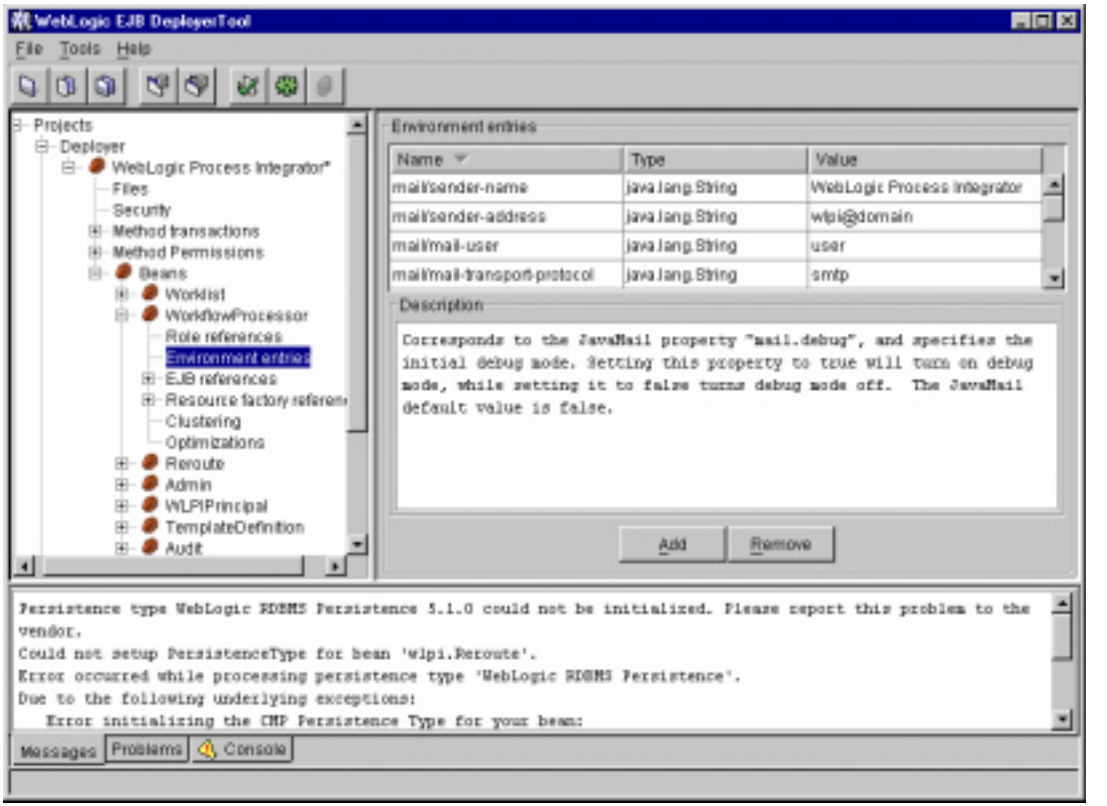
```
cd wlpi/Server
```

b. Run the WebLogic EJB deployer tool:

```
. ./deployertool.sh
```

2. Navigate to Deployer—>Beans—>WorkflowProcessor—>Environment Entries. The environment entries for the Workflow Processor EJB are displayed in the upper-right panel.

Figure 4-1 WebLogic EJB Deployer Tool Showing Environment Entries



3. Define the following mail-session properties by double-clicking in the text field you want to edit and typing the appropriate value:
   - `mail/sender-name`
   - `mail/sender-address`
   - `mail/mail-user`
   - `mail/mail-transport-protocol`
   - `mail/mail-host`
   - `mail/mail-from`
   - `mail/mail-debug`
   - `mail/authenticator-password`
   - `mail/authenticator-id`
4. Select File—>Save to save your changes and exit.

   For more information, see *Deploying EJBs with the Deployer Tool* at `http://www.weblogic.com/docs51/classdocs/API_ejb/EJB_deploy.html`

Step 4. Edit the rdbmsrealm.properties File

To edit the `rdbmsrealm.properties` file:

1. Navigate to the `rdbmsrealm.properties` file in the `Server` directory of the WebLogic Process Integrator installation.
   - On Windows NT, navigate to `\wlprocessintegrator\Server`.
   - On UNIX, change directories to the `wlpi/Server` directory

     ```
     cd wlpi/Server
     ```
2. Use a text editor to open the `rdmsrealm.properties` file.
3. Uncomment the JDBC driver section for your database by removing the pound (#) characters.
4. Specify your database name, host server, and port in the line beginning with `dbURL=`. Use the same settings as those shown for `url=` in Listing 4-1, Listing 4-2, and Listing 4-3 for your database.

5. Set `dbUser=` and `dbPassword=` to the appropriate user account.
6. Save your changes and close the file.

Step 5. Start the WebLogic Process Integrator Server

To start the WebLogic Process Integrator Server:

On Windows NT:

1. Choose Start—>Programs—>BEA WebLogic Process Integrator —>Server from the Windows NT Start menu.

On UNIX:

1. Change directories to the `wlpi/Server` directory:

   ```
   cd wlpi/Server
   ```

2. Run the script `wlpi.sh`:

   ```
   . ./wlpi.sh
   ```

Customizing and Starting the Studio

The following steps explain how to customize the WebLogic Process Integrator Studio run-time environment and start the Studio.

Step 1. Edit the Studio Environment Variables File

To edit the Studio environment variables file:

On Windows NT:

1. Navigate to `\wlprocessintegrator\Studio\bin` using Windows NT Explorer.
2. Right click `setWLPIStudioEnv.cmd` to edit the file.
3. Set the JAVA_HOME variable to a value appropriate for your environment.

   This variable represents the root of the Java run-time environment (for example, `c:\jdk1.2.2`). WebLogic Process Integrator expects to find a Java archive called `jre\lib\rt.jar` in the subdirectory of this path.

On UNIX:

1. Change directories to the `/wlpi/Studio/bin` directory:

   ```
   cd wlpi/Studio/bin
   ```

2. Edit the `setwlpistudio.sh` script to include the correct JDK directory path for the JAVA_HOME variable.

3. Set the environment by running `setwlpistudio.sh`:

   ```
   . ./setwlpistudio.sh
   ```

Step 2. Start the WebLogic Process Integrator Studio

To start the WebLogic Process Integrator Studio:

On Windows NT:

1. Choose Start—>Programs—>BEA WebLogic Process Integrator—>Studio from the Windows NT Start menu.

On UNIX:

1. Change directories to the `wlpi/Studio/bin` directory:

   ```
   cd wlpi/Studio/bin
   ```

2. Run the `studio.sh` script:

   ```
   . ./studio.sh
   ```

Customizing and Starting the Worklist

The following steps explain how to customize the WebLogic Process Integrator Worklist run-time environment and start the Worklist.

Step 1. Edit the Worklist Environment Variables File

On Windows NT:

1. Navigate to `\wlprocessintegrator\Worklist\bin` using Windows NT Explorer.
2. Right click `setWLPIWorklistEnv.cmd` to edit the file.
3. Set the JAVA_HOME variable to a value appropriate for your environment.

   This variable represents the root of the Java run-time environment (for example, `c:\jdk1.2.2`). WebLogic Process Integrator expects to find a Java archive called `jre\lib\rt.jar` in the subdirectory of this path.

On UNIX:

1. Change directories to the `wlpi/Worklist/bin` directory:

   ```
   cd wlpi/Worklist/bin
   ```

2. Edit the `setwlpistudio.sh` script to include the correct JDK directory path for the JAVA_HOME variable.
3. Set the environment by running `setwlpiworklist.sh`:

   ```
   . ./setwlpiworklist.sh
   ```

Step 2. Start the WebLogic Process Integrator Worklist

To start the WebLogic Process Integrator Worklist:

On Windows NT:

1. Choose Start—>Programs—>BEA WebLogic Process Integrator—>Worklist from the Windows NT Start menu.

On UNIX:

1. Change directories to the `wlpi/Worklist/bin` directory.

   ```
   cd wlpi/worklist/bin
   ```

2. Run the `worklist.sh` script:

   ```
   . ./worklist.sh
   ```