



BEA WebLogic Adapter for SAP®

Installation and Configuration Guide

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About This Document

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

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

Who Should Read This Documentation

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

- **Integration Specialists**—Lead the integration design effort. Integration specialists have expertise in defining the business and technical requirements of integration projects, and in designing integration solutions that implement specific features of WebLogic Integration. The skills of integration specialists include business and technical analysis, architecture design, project management, and WebLogic Integration product knowledge.
- **Technical Analysts**—Provide expertise in an organization’s information technology infrastructure, including telecommunications, operating systems, applications, data repositories, future technologies, and IT organizations. The skills of technical analysts include technical analysis, application design, and information systems knowledge.
- **Enterprise Information System (EIS) Specialists**—Provide domain expertise in the systems that are being integrated using WebLogic adapters. The skills of EIS specialists include technical analysis and application integration design.
- **System Administrators**—Provide in-depth technical and operational knowledge about databases and applications deployed in an organization. The skills of system administrators

include capacity and load analysis, performance analysis and tuning, deployment topologies, and support planning.

Background Knowledge

This document assumes that you have an understanding of:

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

Additional Information

To learn more about the software components associated with the adapter, see the following documents:

- *BEA WebLogic Adapter for SAP Release Notes*
<http://edocs.bea.com/wladders/sap/docs81/pdf/relnotes.pdf>
- *BEA WebLogic Adapter for SAP Installation and Configuration Guide*
<http://edocs.bea.com/wladders/sap/docs81/pdf/install.pdf>
- *BEA Application Explorer Installation and Configuration Guide*
<http://edocs.bea.com/wladders/bae/docs81/pdf/install.pdf>
- *Introduction to the BEA WebLogic Adapters*
<http://edocs.bea.com/wladders/docs81/pdf/intro.pdf>
- BEA WebLogic Adapters 8.1 Dev2Dev Product Documentation
<http://dev2dev.bea.com/products/product.jsp?highlight=wla>
- *Using the Application Integration Design Console*
<http://edocs.bea.com/wli/docs81/aiover/index.html>
- *Introducing Application Integration*
<http://edocs.bea.com/wli/docs81/aiuser/index.html>

- BEA WebLogic Integration documentation
<http://edocs.bea.com/wli/docs81/index.html>
- BEA WebLogic Platform documentation
<http://edocs.bea.com/platform/docs81/index.html>
- SAP documentation
www.sap.com

Contact Us!

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

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

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

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

- Your name, e-mail address, phone number, and fax number
- Your company name and company address
- Your machine type and authorization codes
- The name and version of the product you are using
- A description of the problem and the content of pertinent error messages

Documentation Conventions

The following documentation conventions are used throughout this document.

Convention	Item
boldface text	Indicates terms defined in the glossary.
Ctrl+Tab	Indicates that you must press two or more keys simultaneously.
<i>italics</i>	Indicates emphasis or book titles.
monospace text	Indicates code samples, commands and their options, data structures and their members, data types, directories, and file names and their extensions. Monospace text also indicates text that you must enter from the keyboard. <i>Examples:</i> <pre>#include <iostream.h> void main () the pointer psz chmod u+w * \tux\data\ap .doc tux.doc BITMAP float</pre>
monospace boldface text	Identifies significant words in code. <i>Example:</i> <pre>void commit ()</pre>
<i>monospace italic text</i>	Identifies variables in code. <i>Example:</i> <pre>String <i>expr</i></pre>
UPPERCASE TEXT	Indicates device names, environment variables, and logical operators. <i>Examples:</i> <pre>LPT1 SIGNON OR</pre>
{ }	Indicates a set of choices in a syntax line. The braces themselves should never be typed.

Convention	Item
[]	<p>Indicates optional items in a syntax line. The brackets themselves should never be typed.</p> <p><i>Example:</i></p> <pre>buildobjclient [-v] [-o name] [-f file-list]... [-l file-list]...</pre>
	<p>Separates mutually exclusive choices in a syntax line. The symbol itself should never be typed.</p>
...	<p>Indicates one of the following in a command line:</p> <ul style="list-style-type: none"> • That an argument can be repeated several times in a command line • That the statement omits additional optional arguments • That you can enter additional parameters, values, or other information <p>The ellipsis itself should never be typed.</p> <p><i>Example:</i></p> <pre>buildobjclient [-v] [-o name] [-f file-list]... [-l file-list]...</pre>
.	<p>Indicates the omission of items from a code example or from a syntax line. The vertical ellipsis itself should never be typed.</p>

Installing the BEA WebLogic Adapter for SAP

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

This section is organized as follows:

- [Preparing to Install the Adapter](#)
- [Understanding the Representation of Paths](#)
- [Installing the Adapter](#)
- [Next Steps](#)

Preparing to Install the Adapter

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

- [Review the Release Notes](#)
- [Downloading and Installing the SAP Java Connector](#)
- [Understanding the Representation of Paths](#)

Review the Release Notes

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

<http://edocs.bea.com/wladapters/sap/docs81/pdf/relnotes.pdf>

Downloading and Installing the SAP Java Connector

In order to use the adapter with SAP, you must download and install the SAP Java Connector, also known as SAP JCo.

To download and install the SAP Java Connector:

1. Download the SAP Java Connector archive appropriate to your system. Visit the SAP web site at:

<http://service.sap.com/connectors>

Note: In order to use this Web site, you must have a valid SAP Service ID. For more information, see your SAP administrator.

- On a Windows system, download the file `sapjco-ntintel-2.1.1.zip`.
 - On a UNIX system, download the file appropriate to your system. For example, on a Solaris system, download the file `sapjco-sun-2.1.1.tgz`.
2. Extract the files using an appropriate extraction tool. Place the files in a directory of your choice (for example, `BEA_HOME\adapters\sap\win32` on Windows or `BEA_HOME/adapters` on UNIX).
 - On a Windows system, extract these files: `sapjco.jar`, `sapjcorfc.dll` and `librfc32.dll`.

- On a UNIX system, extract these files: `sapjco.jar`, `librfccm` and `libsapjcorfc`. The file extensions of the last two files will depend on your particular UNIX system. For example, on Solaris the files are: `librfccm.so` and `libsapjcorfc.so`.
3. Ensure that the files are correctly placed.
 - On a Windows system, keep `sapjcorfc.dll` in the same directory with `sapjco.jar`, the jar file. Place `librfc32.dll` in the Windows `\system32` directory. For example, place this file in `C:\winnt\system32`.
 - On a UNIX system, keep both library files in the same directory with `sapjco.jar`.
 4. Copy the files to the BEA Application Explorer directory structure. If these files are not in the BEA Application Explorer directory structure, the BEA Application Explorer cannot access your SAP system.
 - On a Windows system, copy `sapjco.jar` to the BEA Application Explorer\lib directory. For example, place this file in `C:\Program Files\BEA Application Explorer\lib`. Place `sapjcorfc.dll` and `librfc32.dll` in the BEA Application Explorer\lib\win32 directory. For example, place these files in `C:\Program Files\BEA Application Explorer\lib\win32`.
 - On a UNIX system, copy the jar file and both library files to the BEA Application Explorer directory. For example, copy these files to `/baebse/lib`.

Understanding the Representation of Paths

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

- *BEA_HOME* represents the BEA Home directory of your WebLogic installation. For example:
 - If you install the product in the default location on a Windows system, *BEA_HOME* represents `c:\bea`.
 - If you install the product in the default location on a UNIX system, *BEA_HOME* represents `/bea`.
- *WLI_HOME* represents the root of your WebLogic Integration installation. For example:
 - If you install WebLogic Integration in the default location on a Windows system, *WLI_HOME* represents `c:\bea\weblogic81\integration`.

- If you install WebLogic Integration in the default location on a UNIX system, *WLI_HOME* represents `/bea/weblogic81/integration`.

- *domain* is used to indicate the name of a domain.

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

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

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

BEA_HOME\user_projects\domains\domain

If you accept the Configuration Wizard default location on a Unix system, *BEA_HOME/user_projects*, the files required by the administration server are installed in the following directory:

BEA_HOME/user_projects/domains/domain

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

For example, if you use the Configuration Wizard to create a domain in the default location on a Windows system, *DOMAIN_HOME* represents `c:\bea\weblogic81\user_projects\domains\domain`.

If you use the Configuration Wizard to create a domain in the default location on a UNIX system, *DOMAIN_HOME* represents `/bea/weblogic81/user_projects/domains/domain`.

Note: *WLI_HOME* and *BEA_HOME* (italicized) also represent the corresponding Windows and UNIX environment variables. For example, the literal interpretation of *WLI_HOME* is `%WLI_HOME%` for Windows and `$WLI_HOME` for UNIX.

Unlike *WLI_HOME* and *BEA_HOME*, *DOMAIN_HOME* is not an environment variable that is set by default in the WebLogic Integration environment.

Installing the Adapter

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

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

Step 1. Obtain the BEA WebLogic Adapter for SAP

To obtain the EAR file containing the BEA WebLogic Adapter for SAP software (BEA_SAP_8_1.ear), do one of the following:

- Download the file from the following URL:
http://commerce.bea.com/products/weblogicadapters/wl_adapter_home.jsp
- Obtain the software on CD.

Step 2. Configure the Domain

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

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

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

To learn more about the Configuration Wizard, see the *Configuration Wizard Template Reference* at the following URL:

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

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

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

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

Set the classpath using the procedure appropriate for your system:

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

Extracting Files and Adjusting the Classpath for Windows

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

1. Use WinZip (or another similar extracting product) to extract the `BEA_SAP_8_1.ear` file to a directory of your choice (for example, `BEA_HOME\adapters\sap`).
2. Copy the `sapjco.jar` file from the directory to which you extracted the ear file to your BEA Application Explorer `\lib` directory. The BEA Application Explorer requires these jar files to connect to SAP.
3. Go to the root directory for your domain:

```
cd DOMAIN_HOME
```

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

4. Open the WebLogic script file with an ASCII editor. For WebLogic Integration 8.1 SP2, the file is `setDomainEnv.cmd`. For earlier versions of WebLogic Integration, the file is `startWeblogic.cmd`.
5. Find the following command in the script file:

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

Note: Depending on your system configuration, your script file may be slightly different from this example.

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


```
rem ===== SAP Java Libraries and DLLs (for JNI calls) =====
set CLASSPATH=%CLASSPATH%;%BEA_HOME%\adapters\sap\win32\sapjco.jar
rem ===== Adding sap win32 directory to PATH =====
set PATH=%PATH%;%BEA_HOME%\adapters\sap\win32
```

Note: `BEA_HOME\adapters\sap\win32` is the directory that holds the SAP Java Connector jar file and the `sapjcorfc.dll`. To learn more about the SAP Java Connector, see [“Downloading and Installing the SAP Java Connector.”](#)

7. Save your changes and close the script file.

Extracting Files and Adjusting the Classpath for UNIX

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

1. Use `jar` (or another similar extracting product) to extract `BEA_SAP_8_1.ear` to a directory of your choice (for example, `BEA_HOME/adapters/sap`).
2. Copy the `sapjco.jar` file from the directory to which you extracted the ear file to your BEA Application Explorer `/lib` directory. The BEA Application Explorer requires these jar files to connect to SAP.
3. Find the `tools.jar` file in your JDK directory.
4. Go to the root directory for your domain:

```
cd DOMAIN_HOME
```

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

5. Open the WebLogic script file with an editor. For WebLogic Integration 8.1 SP2, the file is `setDomainEnv.sh`. For earlier versions of WebLogic Integration, the file is `startWeblogic.sh`.
6. Update the `CLASSPATH` environment variable settings in the script file.

After the following line:

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

Note: Depending on your system configuration, your script file may be slightly different from this example.

add the following JAR files:

```
# ===== SAP Java Libraries and DLL's (for JNI calls) =====
CLASSPATH=$CLASSPATH:$BEA_HOME/adapters/sap/your_unix_system/sapjco.jar

# ===== Adding sap directory to PATH =====
LD_LIBRARY_PATH=$LD_LIBRARY_PATH:$BEA_HOME/user_projects/domains/sap/your_unix_system

export LD_LIBRARY_PATH
```

Here, *BEA_HOME/user_projects/domains/sap* is the directory where you extracted the adapter ear file, and *your_unix_system* is *hpux*, *solaris*, or *aix*, depending on your UNIX system.

Note: *BEA_HOME/adapters/sap/your_unix_system* is the directory that holds the SAP Java Connector jar file and the libraries. To learn more about the SAP Java Connector, see [“Downloading and Installing the SAP Java Connector.”](#)

7. In the script file, find the variable `PRE_CLASSPATH`.
8. Add the path to the `tools.jar` file to the `PRE_CLASSPATH` variable.
9. Save your changes and close the script file.

Step 4. Update the BEA License

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

To update your `license.bea` file:

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

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

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

- On a Windows system:

```
set PATH=BEA_HOME\jdk141_05\bin;%PATH%
```

- On a UNIX system:

```
PATH=BEA_HOME/jdk141_05/bin:$PATH
export PATH
```

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

- On a Windows system:

```
UpdateLicense license_update_file
```

- On a UNIX system:

```
sh UpdateLicense.sh license_update_file
```

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

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

Step 5. Deploy the Adapter

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

To deploy the adapter:

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

```
http://host:port/console/
```

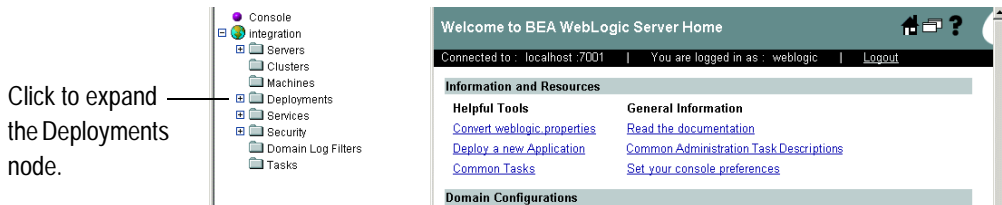
where

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

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

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

The WebLogic Server Administration Console appears.



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

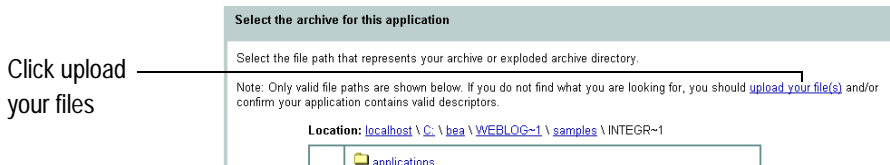
The Administration Console displays the Applications window.

An application is a J2EE application or Web Service contained in an Enterprise Application Archive (EAR) file or exploded EAR directory. Individual components contained in a J2EE application can be deployed to one or more target servers or clusters.
This Applications page displays key information about the EAR files or exploded EAR directories that have been configured for deployment in this WebLogic Server domain.

Click Deploy a New Application — [Deploy a new Application](#)
[Customize this view...](#)

6. Click the Deploy a new Application link.

The Administration Console displays the Deploy an Application window.



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

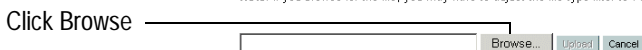
The Administration Console displays the Install or Update an Application window.

Upload and Install an Application or Module

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

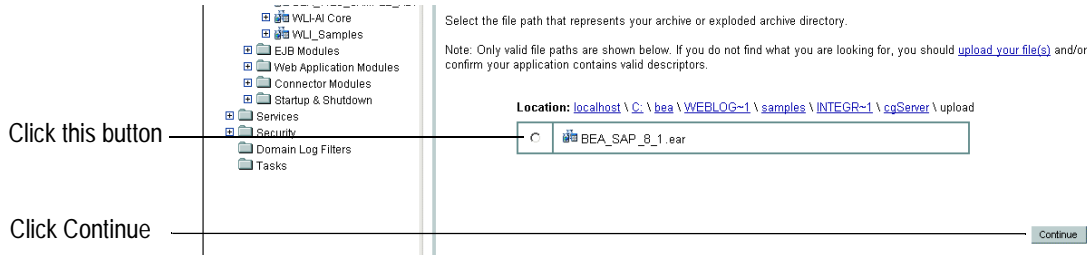
- A **.jar** containing EJBs (Enterprise JavaBeans)
- A **.war** (Web Application Archive) containing JSPs and Servlets
- A **.rar** (Resource Adapter Archive) containing a Connector module
- An **.ear** (J2EE Enterprise Application Archive) containing any of the above

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



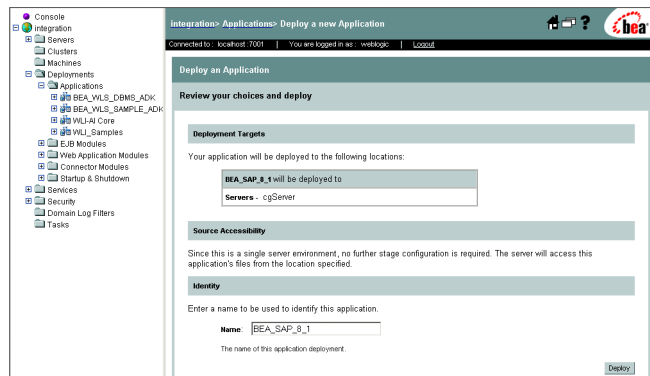
8. Click the Browse button, navigate to the directory in which the BEA_SAP_8_1.ear file resides, and then click the Upload button.

The Administration Console prompts you to confirm the uploaded application.



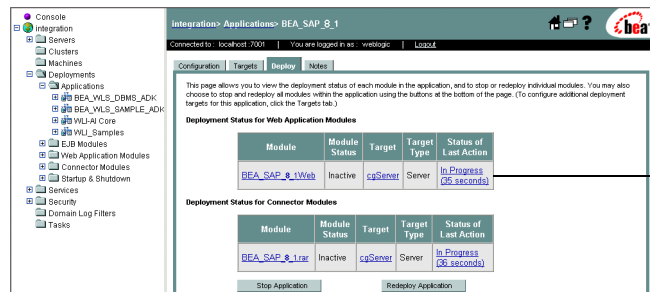
9. Click the radio button next to the application file and then click Continue.

The Administration Console uploads the file and displays the Deploy an Application window (in which the default target server is specified).



10. Click the Deploy button.

The Administration Console deploys the application and displays its deployment status. When you see the status of the last action is success, you can proceed to the next step.



11. Click the Deploy Application button to activate the application, or wait until the Administration Console does so automatically.

Step 6. Create an Adapter Administrative User

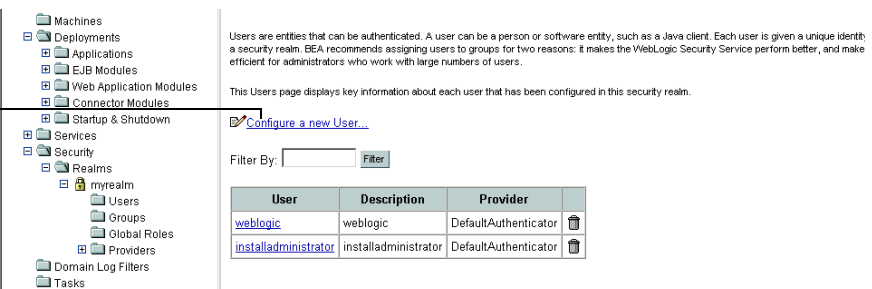
If you want to manage security for the BEA WebLogic Adapter for SAP, you can create an administrative user (such as `sapAdapterAdmin`) who is authorized to log in to the Application View Console, create application views, configure services and events, deploy, and test. This adapter administrator also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

To create a new adapter administrative user:

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

The Users page opens.

Click
Configure a new
User



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

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

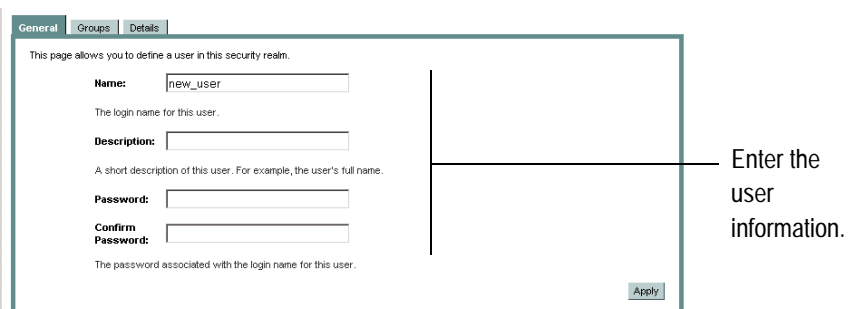
[Configure a new User...](#)

Filter By: [Filter](#)

User	Description	Provider	
weblogic	weblogic	DefaultAuthenticator	
installadministrator	installadministrator	DefaultAuthenticator	

5. Click the Configure a New User link.

The Create User page opens.



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

Name:

The login name for this user.

Description:

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

Password:

Confirm Password:

The password associated with the login name for this user.

[Apply](#)

Enter the user information.

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

The User page opens.

Enter a description for this user.

Click to change the password.

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

General Groups Details

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

Name: MyAdapterAdmin
The login name for this user.

Description: MyAdapter Administrator
A short description of this user. For example, the user's full name.

Password: [Change...](#)

Apply

7. Click the Groups tab.

The Groups page opens.

Select a group for the user.

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

General Groups Details

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

Possible Groups

- Administrators
- Deployers
- Monitors
- Operators

Current Groups

Group Membership:

Apply

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

Next Steps

After you have finished installing the BEA WebLogic Adapter for SAP, you can proceed to the following tasks:

- [Installing the BEA Application Explorer](#)
- [Starting Integration with SAP](#)

Installing the BEA Application Explorer

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

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

Note: The BEA Application Explorer requires some SAP files in order to properly access your SAP system. To learn more about these files and how to make them available to BEA Application Explorer, see [Preparing to Install the Adapter](#).

Configuring the Adapter to Use an SAP Router

The adapter supports SAP Routers. If your system uses this SAP feature, you can configure your application views to use it.

To configure the BEA Application Explorer to support an SAP router:

1. In the BEA Application Explorer, right-click on SAP.
2. Choose a connection or configure a new one.

The SAP login screen appears.

Enter the SAP router and server information here.

3. For the application server information, enter

`/H/<an ip address>/H/<another ip address>/H/mysapappserver`

Here, the application server is *mysapappserver*

and the SAP Router is `/H/<an ip address>/H/<another ip address>/H/`

Starting Integration with SAP

After you have successfully installed and deployed the BEA WebLogic Adapter for SAP and the BEA Application Explorer, you can begin integrating with your SAP system using the adapter

and BEA WebLogic Integration. To learn more about integrating with SAP, see the *BEA WebLogic Adapter for SAP User Guide* at the following URL:

<http://edocs.bea.com/wlapters/sap/docs81/index.html>

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