

BEA SmartConnect Installation and Configuration Guide Version 2.6 RP1

# Preface

This documentation describes how to install and configure BEA SmartConnect for use with BEA AquaLogic Service Bus (ALSB). It is intended for those with an administrator's knowledge of the operating systems and target systems involved in their implementation.

## How This Manual Is Organized

The following table includes numbers, titles, and brief descriptions of chapters and appendixes in this manual.

Chapter/Appendix		Contents	
1	BEA SmartConnect Installation Overview	Provides an overview of the installation and configuration of BEA SmartConnect for AquaLogic Service Bus (ALSB).	
2	Installing BEA SmartConnect	Describe the requirements and initial installation procedures for BEA SmartConnect ERP Transports and BEA SmartConnect Explorer.	

### **Documentation Conventions**

The following table lists and describes the conventions that apply throughout this manual.

Convention	Description
THIS TYPEFACE <b>Or</b> this typeface	Denotes syntax that you must enter exactly as shown.
this typeface	Represents a placeholder (or variable) in syntax for a value that you or the system must supply.
underscore	Indicates a default setting.
this typeface	Represents a placeholder (or variable), a cross-reference, or an important term. It may also indicate a button, menu item, or dialog box option you can click or select.
this typeface	Highlights a file name or command. It may also indicate a button, menu item, or dialog box option you can click or select.
Key + Key	Indicates keys that you must press simultaneously.

Convention	Description
{ }	Indicates two or three choices; type one of them, not the braces.
	Separates mutually exclusive choices in syntax. Type one of them, not the symbol.
	Indicates that you can enter a parameter multiple times. Type only the parameter, not the ellipsis points ().
•	Indicates that there are (or could be) intervening or additional commands.

### **Contact Us!**

Your feedback on BEA SmartConnect 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 BEA SmartConnect documentation.

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

If you have any questions about this version of BEA SmartConnect, or if you have problems using BEA SmartConnect, 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

### Help Us to Serve You Better

To help our consultants answer your questions effectively, please be prepared to provide specifications and sample files and to answer questions about errors and problems.

The following tables list the specifications our consultants require.

Platform	
Operating System	
OS Version	
Product List	
Transports	
Transport Deployment	
Container Version	

The following table lists components. Specify the version in the column provided.

Component	Version
Transport	
EIS (DBMS/APP)	
HOTFIX / Service Pack	

In the following table, specify the JVM version and vendor in the columns provided.

Version	Vendor

The following table lists additional questions to help us serve you better.

Request/Question	Error/Problem Details or Information
Provide usage scenarios or summarize the application that produces the problem.	
Did this happen previously?	

Request/Question	Error/Problem Details or Information
Can you reproduce this problem consistently?	
Any change in the application environment: software configuration, EIS/ database configuration, application, and so forth?	
Under what circumstance does the problem <i>not</i> occur?	
Describe the <b>steps</b> to reproduce the problem.	
Describe the <b>problem</b> .	
Specify the <b>error</b> message(s).	

The following lists error/problem files that might be applicable.

- XML schema
- XML instances
- Other input documents (transformation)
- Error screen shots
- Error output files
- Trace and log files
- Log transaction

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# Chapter 1

# **BEA SmartConnect Installation Overview**

#### **Topics:**

- BEA SmartConnect Components
- Installation and Configuration
   Overview

This section provides an overview of the installation and configuration of BEA SmartConnect for AquaLogic Service Bus (ALSB).

## **BEA SmartConnect Components**

This manual explains how to install and configure the following products and their components for use with ALSB:

- BEA SmartConnect for mySAP
- BEA SmartConnect for Siebel
- BEA SmartConnect Explorer

The following topics briefly summarize the components. Most users require only a subset of the available components.

### **BEA SmartConnect ERP Transports**

BEA SmartConnect ERP Transports provide the fastest and most efficient way to connect your applications to the following systems:

- mySAP
- Siebel

### **BEA SmartConnect Explorer**

BEA SmartConnect Explorer is a servlet-based Web application that uses a tree metaphor to introspect ERP system metadata. It enables you to create XML schemas and publish WSDLS for an associated object and import them into ALSB, without requiring in-depth knowledge of the objects or systems.

### **Installation and Configuration Overview**

Depending on the ERP Transports and components you wish to use, installation and configuration steps include the following:

- 1. Review the requirements and install any required third party components.
- **2.** Run the installation program to install the ERP Transports and BEA SmartConnect Explorer.
- **3.** Deploy the ERP Transports and BEA SmartConnect Explorer using the Configuration Wizard.
- 4. Add any required third party libraries to the ALSB domain classpath.
- **5.** Perform any transport-specific post-installation steps described in the documentation for your transports.

For more information on each of the installation and configuration steps, see Chapter 2, *Installing BEA SmartConnect*.

# CHAPTER 2

# Installing BEA SmartConnect

#### **Topics:**

- Installation Requirements
- Running the BEA SmartConnect Installation Program
- Deploying BEA SmartConnect
- Post-Installation Topics and Tasks

This section describes the requirements and initial installation procedures for BEA SmartConnect ERP Transports and BEA SmartConnect Explorer.

### **Installation Requirements**

Review the following installation requirements to ensure your system supports BEA SmartConnect ERP Transports.

#### **BEA Requirements**

BEA SmartConnect ERP Transports run as part of ALSB and require the same hardware, operating system, and Java software requirements as ALSB version 2.6 RP1 (or later). Ensure that ALSB 2.6 RP1 is properly installed and functioning before configuring it for use with BEA SmartConnect ERP Transports. Be sure to install any needed service packs.

Make sure you have also upgraded ALSB and your ALSB domains to meet this requirement. For more information on upgrading ALSB, see the *BEA AquaLogic Service Bus 2.6 RP1 Upgrade Guide*, which can be accessed here:

http://edocs.bea.com/alsb/docs261/pdf/upgrade.pdf

You can use an existing ALSB domain or create a new ALSB domain for transport components using the Configuration Wizard.

- You can access the Configuration Wizard on Windows from the Start menu by selecting *Programs, BEA Products, Tools,* and then *Configuration Wizard*.
- You can access the Configuration Wizard on UNIX by executing the following:

BEA\_HOME/weblogic92/common/bin/config.sh

where:

BEA\_HOME

Is the location where BEA WebLogic is installed.

**Note:** If multiple domains run on your machine, be sure to change the default port so it does not conflict with other domains. For more information, see the BEA WebLogic documentation.

The procedures, names, and paths in this manual use Windows conventions and default locations unless otherwise indicated. For other operating systems and non-default locations, substitute accordingly. Names and case may vary between operating systems.

**Note:** Ensure that /JAVA\_HOME/bin is in PATH on UNIX.

### **Additional ERP Transport Requirements**

Additional ERP Transport requirements include:

• One of the supported operating system and hardware configurations on which BEA supports AquaLogic Service Bus 2.6 RP1. For a complete list of supported configurations, see the *AquaLogic Service Bus 2.6 Supported Configurations* document, which can be accessed here:

http://edocs.bea.com/platform/suppconfigs/configs\_al26/26\_over/
overview.html

• Third party libraries. Some transports require third party libraries provided by the vendor of the target system. You must add these files to the ALSB domain classpath after you install and deploy BEA SmartConnect. For more information, see *Adding Files to the ALSB Domain Classpath* on page 2-13.

## **Running the BEA SmartConnect Installation Program**

The BEA SmartConnect installation program installs the following:

- BEA SmartConnect for mySAP
- BEA SmartConnect for Siebel
- BEA SmartConnect Explorer

On Windows, you must be an administrator for the local machine to run the installation.

On UNIX, since ERP Transports run as part of your application server, it is a good idea to install as the user ID under which your application server runs.

### **Running the Installation**

Use the steps below to install BEA SmartConnect.

#### Procedure: How to Install BEA SmartConnect

To install BEA SmartConnect:

- **1.** Execute the installation program for your platform. The name of this program may vary, for example:
  - On Windows:

BEA\_smartconnect260\_win32.exe

• On Linux platforms:

BEA\_smartconnect260\_linux32.bin

The installation begins and the Welcome window opens.

Note: In this section, the Windows version of the installation is used as an example.



2. Click Next.

The BEA License Agreement window opens.

🔯 BEA Installer - SmartConnect 2.6		
BEA License Agreement Read the license agreement and select the appropriate button. You must choose Yes to continue the installation.	1	
BEA SYSTEMS, INC. SOFTWARE LICENSE AGREEMENT		
USE OF SOFTWARE ORDERED FROM BEA SYSTEMS, INC. ("BEA") IS PROVIDED ONLY UNDER LICENSE FROM B PLEASE READ THE FOLLOWING LICENSE CAREFULLY AND INDICATE YOUR ACCEPTANCE BY CLICKING THE ACCEPTANCE BOX. CERTAIN CAPITALIZED TERMS ARE DEFINED IN SECTION 11.	EA.	
1. LICENSE TERMS		
a. WebLogic SDK Use. The terms of this Section 1(a) are applicable to you if you have registered as a WebLogic SDK customer. Subject to the terms of this Agreement, BEA grants to you a non-exclusive, non-transferable, royalty-free license to use WebLogic SDK solely for Development Use and Scale-Limited Personal Use for the number of users and/or developers and the number of CPU's, Servers and/or at the Sites, as specified at the time of registration. Third party software products or modules supplied by BEA, if any, may be used solely with the Software. All rights not specifically granted to you herein are retained by BEA.		
b. WebLogic SDK Pro Use. The terms of this Section 1(b) are applicable to you if you have registered as a Web	Logic 🔽	
Do you agree with the terms of the license?		
⊙ <u>Y</u> es O N <u>o</u>		
<u>Exit</u>	<u>N</u> ext	

**3.** Review the information, indicate that you accept the terms, and click *Next* to continue. The Choose BEA Home Directory window opens.

🐱 BEA Installer - SmartConnect 2.6	
Choose BEA Home Directory Specify the BEA Home where you wish to install BEA SmartConnect 2.6.	«bear
BEA Home Type       Exibea         Image: Use an existing BEA Home       Create a new BEA Home         Image: Create a new BEA Home       Create a new BEA Home	
BEA Home Directory	
Browse Reset	
Exit	Previous Next

- 4. Specify the BEA directory into which WebLogic and other BEA software are installed.
- 5. Click Next.

The Choose Install Type window opens.

BEA Installer - SmartConnect 2.6	
Choose Install Type Select the type of installation you wish to perform.	<b>¢be</b> a <sup>.</sup>
<ul> <li>Complete</li> <li>Install the following software components and examples:</li> <li>BEA SmartConnect</li> </ul>	
○ Custom	
Choose software components to install and perform option	al configuration.
E⊻it	Previous Next

- **6.** Select the type of installation you want to perform:
  - Complete (default)

Installs the entire BEA SmartConnect product suite.

Custom

Installs only selected components you can specify from the BEA SmartConnect product suite.

7. Click Next.

The Choose Product Installation Directories window opens.

🐱 BEA Installer - SmartConnect 2.6	(	
Choose Product Installation Directories Provide the directories where you wish to install BEA SmartConnect 2.6.	<b>&amp;be</b> a	P
	💍 Dis <u>c</u> ard	l Changes
BEA Home Directory		
C:\bea		
The Default Product Home will contain WebLogic Server, any other products and o directories are not set, and shared utilities. Default Product Home:	components for which u	nique
C:\bea\weblogic92	Brows	se
BEA SmartConnect:		
C:\bea\SmartConnect	Brows	se
Exit	Previous	<u>N</u> ext

This window allows you to specify the location where the default BEA WebLogic product home is installed and where BEA SmartConnect will be installed.

**8.** Accept the default or click *Browse* to specify a new location and then click *Next*.

The Choose Shortcut Location window opens.

🐱 BEA Installer - SmartConnect 2.6	
Choose Shortcut Location The installer creates shortcuts to BEA components, samples, and tools. As a user with administrative privileges, you can specify where these shortcuts are created.	P
Select the Start Menu folder in which you want to create BEA shortcuts:	
Configuration Wizard in this installation to create domains, the user may have to create Start menu shortcuts manually. Refer to the documentation for more information.	
O <b>Local user's Start Menu folder</b> Select this option if you need to ensure that other profiles registered on this machine will not have access to these shortcuts.	
Exit Previous	Next

- 9. Select the Start Menu folder where you want to create BEA shortcuts:
  - "All Users" Start Menu Folder (recommended)
  - Local user's Start Menu folder
- **10.** Click *Next* to start the installation.

Files are copied to your system in the directory you specified.

Once the installation is complete, you can deploy BEA SmartConnect ERP Transports and BEA SmartConnect Explorer using the Configuration Wizard.

## **Deploying BEA SmartConnect**

After you have finished installing BEA SmartConnect, perform the following steps to extend your ALSB domains and deploy BEA SmartConnect ERP Transports and BEA SmartConnect Explorer:

- 1. Stop all running ALSB servers.
- 2. Back up all ALSB domains.
- 3. In a command window, go to the following directory:

BEA\_HOME/common/bin

where:

BEA\_HOME

Is the location where BEA WebLogic is installed.

4. Execute the following script for each ALSB domain:

```
ALSBDomainUtils.cmd/sh extendALSBDomain <fully qualified path to domain> <fully qualified path to SmartConnect domain extension template>
```

For example:

ALSBDomainUtils.cmd extendALSBDomain d:\beaALSB\user\_projects\domains\base\_domain d:\beaALSB\weblogic92\common\templates\applications\smartconnect.jar

Your ALSB domains are now extended, and BEA SmartConnect ERP Transports and SmartConnect Explorer are deployed.

5. Restart your ALSB servers for the changes to take effect.

## **Post-Installation Topics and Tasks**

Review the topics that follow to determine if any tasks are required for your platform and transports.

### **Copying and Collecting Files for BEA SmartConnect ERP Transports**

Some ERP Transports require third party libraries or JDBC drivers. Use the table that follows to determine which third party files are required for your transport.

**Note:** The table sometimes lists the actual names of required files rather than the generic name of the driver or library. However, your vendor may change file names, update files, or have different versions of the drivers for different releases. Therefore, confirm which files are required by reviewing information provided by your vendor. Ensure you use the latest version of the driver for the correct release of your target system, data source, or protocol.

The following table lists the required libraries or drivers for your transports.

BEA SmartConnect ERP Transport for	Required Libraries or Drivers
mySAP	SAP Java connector 2.16 (normally sapjco.jar).
	For the current release status of the SAP Java Connector, refer to SAP Note #549268 in the SAP Service Marketplace Web site.
	A valid SAP service ID is required to access this site. To download the current version, follow the information provided on the SAP Java Connector (SAP JCo) overview page. For more information, contact your SAP BASIS Administrator.
	Using the appropriate archive tool, open the archive containing the SAP Java Connector (SAP JCo) and extract the run-time files. The file names may vary by platform, but usually are contained in the root of the archive.
	<b>Note:</b> The librfc32.dll file, which is also provided by SAP with the Java Connector system files, must be copied into the Windows\System32 directory.
	When using an application server, if you run into problems with the BEA SmartConnect for mySAP, add sapjco.jar to your application server CLASSPATH. For BEA WebLogic, the sapjco.jar file must be added to your WebLogic domain CLASSPATH.

BEA SmartConnect ERP Transport for	Required Libraries or Drivers	
Siebel	For Siebel 7.0.3 through 8.0, Siebel Java Data Bean API.	
	This 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 provided with the target Siebel system must always be used with the transport, for example:	
	• Siebel 7.0.3	
	SiebelJI_Common.jar	
	SiebelJI_enu.jar	
	• Siebel 7.5.2	
	SiebelJI_Common.jar	
	SiebelJI_enu.jar	
	SiebelJI.jar	
	• Siebel 7.7	
	SiebelJI_enu.jar	
	Siebel.jar	
	• Siebel 7.8	
	SiebelJI_enu.jar	
	Siebel.jar	
	• Siebel 8.0	
	SiebelJI_enu.jar	
	Siebel.jar	
	<b>Note:</b> The following file is used for English language implementations:	
	SiebelJI_enu.jar	
	For non-English installations, the last three letters (_enu) vary.	

### Adding Files to the ALSB Domain Classpath

Once BEA SmartConnect ERP Transports and BEA SmartConnect Explorer are installed and deployed to ALSB, you must add any required third-party files to your ALSB domain classpath.

You can add these files to the classpath by modifying the environment properties in the setDomainEnv script file on your platform:

• Windows:

BEA\_HOME\user\_projects\domains\DOMAIN\_NAME\bin\setDomainEnv.cmd

where:

BEA\_HOME

Is the location where BEA WebLogic is installed.

#### DOMAIN\_NAME

Is the name of your ALSB domain.

UNIX:

BEA\_HOME/user\_projects/domains/DOMAIN\_NAME/bin/setDomainEnv.sh

where:

BEA\_HOME

Is the location where BEA WebLogic is installed.

DOMAIN\_NAME

Is the name of your ALSB domain.

### Procedure: How to Add Files to the ALSB Domain Classpath

To add files to the ALSB domain classpath:

- 1. If it is started, stop the ALSB domain you are using.
- **2.** Depending on your platform, open the setDomainEnv.cmd (Windows) or setDomainEnv.sh (UNIX) file in a text editor.
- **3.** Add the full path to any required files required to the POST\_CLASSPATH variable. For example:

On Windows:

#### set

POST\_CLASSPATH=%POST\_CLASSPATH%;%WL\_HOME%\servicebus\L10N;%WL\_HOME%\servicebus\lib\sb-public.jar;%WL\_HOME%\servicebus\lib\sb-common.jar;%WL\_ HOME%\servicebus\lib\sb-internal.jar;%WL\_HOME%\servicebus\lib\sb-core. jar;%WL\_HOME%\integration\common\lib\mfl-common.jar;%WL\_HOME%\platform \lib\p13n\p13n\_system.jar;%WL\_HOME%\common\p13n\lib\p13n\_common.jar;%W L\_HOME%\server\lib\wlxbean.jar;%WL\_HOME%\server\lib\apachexmlbeansutil .jar;%WL\_HOME%\server\lib\xquery.jar;%WL\_HOME%\server\lib\binxml.jar;% WL\_HOME%\common\lib\log4j.jar;%WL\_HOME%\servicebus\lib\uddi\_library.ja r;%WL\_HOME%\servicebus\lib\uddi\_client\_v3.jar;%WL\_HOME%\servicebus\lib \version.jar;<INSERT FULL PATH HERE>

#### On UNIX:

POST\_CLASSPATH="\${POST\_CLASSPATH}\${CLASSPATHSEP}\${WL\_HOME}/servicebus/ L10N\${CLASSPATHSEP}\${WL\_HOME}/servicebus/lib/sb-public.jar\${CLASSPATHS EP}\${WL\_HOME}/servicebus/lib/sb-common.jar\${CLASSPATHSEP}\${WL\_HOME}/servicebus/lib/sbrvicebus/lib/sb-internal.jar\${CLASSPATHSEP}\${WL\_HOME}/servicebus/lib/sbb-core.jar\${CLASSPATHSEP}\${WL\_HOME}/integration/common/lib/mfl-common. jar\${CLASSPATHSEP}\${WL\_HOME}/platform/lib/p13n/p13n\_system.jar\${CLASSPATHSEP}\${WL\_HOME}/common.jar\${CLASSPATHSEP}\${WL\_HOME}/common.jar\${CLASSPATHSEP}\${WL\_HOME}/server/lib/wlxbean.jar\${CLASSPATHSEP}\${WL\_HOME}/server/lib/apache xmlbeansutil.jar\${CLASSPATHSEP}\${WL\_HOME}/server/lib/xquery.jar\${CLASSPATHSEP}\$ ATHSEP}\${WL\_HOME}/server/lib/binxml.jar\${CLASSPATHSEP}\${WL\_HOME}/comm on/lib/log4j.jar\${CLASSPATHSEP}\${WL\_HOME}/servicebus/lib/uddi\_library. jar\${CLASSPATHSEP}\${WL\_HOME}/servicebus/lib/uddi\_library. jar\${CLASSPATHSEP}\${WL\_HOME}/servicebus/lib/uddi\_library. jar\${CLASSPATHSEP}\${WL\_HOME}/servicebus/lib/uddi\_library. jar\${CLASSPATHSEP}}\${WL\_HOME}/servicebus/lib/uddi\_library. jar\${CLASSPATHSEP}}\${WL\_HOME}/servicebus/lib/uddi\_library. jar\${CLASSPATHSEP}}\${WL\_HOME}/servicebus/lib/uddi\_library. jar\${CLASSPATHSEP}}\${WL\_HOME}/servicebus/lib/uddi\_library.jar\${CLASSPATHSEP}}\$ ATHSEP}\${WL\_HOME}/servicebus/lib/version.jar"\$<INSERT FULL PATH HERE>} export POST\_CLASSPATH

**Note:** Adding directories is not sufficient. You must add the full paths including each file. On UNIX, make sure to export the variable.

- 4. Save and exit the file.
- 5. Restart ALSB.

### Merging the BEA SmartConnect License File

BEA SmartConnect ERP Transports cannot be used without a valid software license. When you have obtained a valid license for the ERP Transport, you must merge the BEA SmartConnect license file by updating your *license.bea* file.

#### Procedure: How to Merge the BEA SmartConnect License File

To merge the BEA SmartConnect license file:

 Save the BEA SmartConnect license file that you obtained with a name other than license.bea, in the BEA\_HOME directory. For example, save the file as SmartConnectLicense.bea. Use this file as the license\_update\_file in step 4 of this procedure. Warning: Do not overwrite or change the name of the existing *license.bea* file.

- 2. Perform the step appropriate for your platform:
  - On a Windows system, open an MS-DOS session and go to the *BEA\_HOME* directory.
  - On a UNIX system, go to the *BEA\_HOME* directory.
- **3.** If it is not already included, add the JDK to your PATH variable by executing the command appropriate to your system:
  - On a Windows system:

set PATH=BEA\_HOME\jdk131\_03\bin;%PATH%

• On a UNIX system:

PATH=BEA\_HOME/jdk131\_03/bin:\$PATH export PATH

- **4.** Merge the license update file into your existing license by executing the command appropriate to your system:
  - On a Windows system:

UpdateLicense license\_update\_file

On a UNIX system:

sh UpdateLicense.sh license\_update\_file

where:

license\_update\_file

Is the name to which you saved the BEA SmartConnect license update file in step 1.

5. Save a copy of your updated *license.bea* file in a safe place.

#### **Enabling Debug Tracing**

As a default, debug tracing is disabled for BEA SmartConnect for mySAP and BEA SmartConnect for Siebel. In the event that you wish to troubleshoot Business Services or Proxy Services, or you wish to prepare a trace file for a support call, you must enable debug tracing by adding the following line to the StartWebLogic.cmd file in your domain directory:

• BEA SmartConnect for mySAP:

set EXTRA\_JAVA\_PROPERTIES=-Dmysap.transport.debug=y

BEA SmartConnect for Siebel:

set EXTRA\_JAVA\_PROPERTIES=-Dsiebel.transport.debug=y

### **Configuring the Siebel.Properties File**

You must create a *siebel.properties* file for use with BEA SmartConnect for Siebel.

This file must be located in your classpath and can be used to provide default parameters for applications connecting to Siebel using the Java Data Bean API.

The following table lists and describes the property values that can be added in the siebel.properties file.

Property Type	Property	Description
Request Timeout	siebel.conmgr.txtimeout	Indicates the transaction timeout in seconds on the server side.
		The default is 2700 seconds.
Poolsize	siebel.conmgr.poolsize	Indicates the connection pool size. Connection pool maintains a set of connections to a specific server process.
		The default is 2 with a maximum of 500.
Session Timeout	siebel.conmgr.sesstimeout	Indicates the transaction timeout in seconds on the client side.
		The default is 600 seconds.
Encryption	siebel.conmgr.jce	Indicates the usage of Java Cryptography Extension.
		You can set this to 1 for jce usage and 0 for nonusage.
Boolean	siebel.user.encrypted	Specifies whether the user name and the password is encrypted with com.siebel.extra.MangleString.

You must restart the ALSB server after setting this environment variable.

### **Uninstalling BEA SmartConnect**

An uninstall utility is provided to properly remove BEA SmartConnect and its related components from your system. You should use the uninstall utility rather than manually deleting directories. Manually removing directories on your system may cause problems if you wish to reinstall at a later time.

#### Procedure: How to Uninstall BEA SmartConnect

To uninstall BEA SmartConnect:

1. Select Programs, BEA Products, and click Uninstall BEA Products.

The BEA Uninstaller - SmartConnect 2.6 utility opens, as shown in the following image.

👼 BEA Uninstaller - SmartConnect 2	2.6	
Welcome This uninstaller will guide you through the unir (C:\bea\weblogic92)	nstallation of BEA SmartConnect 2.6	P
(C:\bea\weblogic92)		stallation. putton.
Exit	Previous	Next

2. Click Next.

The Choose Components window opens.

BEA Uninstaller - SmartConnect 2.6			
Choose Components Check the BEA SmartConnect 2.6 components you want to uninstall. Once you click Next, uninstallation cannot be aborted!		<b>&amp;be</b> a <sup>r</sup>	9
Image: BEA SmartConnect         Image: BEA SmartConnect Explorer         Image: BEA SmartConnect for SAP         Image: BEA SmartConnect for Siebel	Description		
Exit		Previous	Next

3. Select the BEA SmartConnect components you want to uninstall and click Next.

**Note:** Once you click *Next* at this point, the uninstallation process will begin and cannot be aborted.