

BEAWebLogic Adapter for ClarifyCRM°

Installation and Configuration Guide

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About This Document

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

- Chapter 1, "Installing the BEA WebLogic Adapter for ClarifyCRM with the CBO Interface," explains how to install the adapter for use with the CBO interface of ClarifyCRM.
 - Preparing to Install the Adapter
 - Installing the Adapter
 - Next Steps
- Chapter 2, "Installing the BEA WebLogic Adapter for ClarifyCRM with the ClearBasic Interface," explains how to install the adapter for use with the ClearBasic interface of ClarifyCRM.
 - Preparing to Install the Adapter
 - Installing the Adapter
 - Next Steps

About the Adapter Distribution

The BEA WebLogic Adapter for ClarifyCRM is distributed in a single zip file. This zip file contains two ear files. Which one you use depends on which ClarifyCRM interface you use. You can use the adapter with either interface, or both.

The distribution zip file contains:

- BEA_CLARIFY_8_1.ear is the ear file for the CBO interface of ClarifyCRM.
- BEA_CLARIFYCB_8_1.ear is the ear file for the ClearBasic interface for ClarifyCRM.

To learn more about installing and configuring the adapter to use the CBO interface, see Chapter 1, "Installing the BEA WebLogic Adapter for ClarifyCRM with the CBO Interface."

For information on installing and configuring the adapter to use the ClearBasic interface, see Chapter 2, "Installing the BEA WebLogic Adapter for ClarifyCRM with the ClearBasic Interface."

Who Should Read This Documentation

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

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

What You Need to Know

This document assumes that you have an understanding of:

- Web technologies
- WebLogic Integration
- ClarifyCRM software, system, and environment. This includes understanding of ClarifyCRM tools and configuration as well as processes and data models.
- BEA Tuxedo, if you are using ClarifyCRM with the ClearBasic interface.
- Your specific ClarifyCRM business needs and applications.

Product Documentation on the dev2dev Web Site

BEA product documentation, along with other information about BEA software, is available from the BEA dev2dev Web site:

http://dev2dev.bea.com

To view the documentation for a particular product, select that product from the list on the dev2dev page; the home page for the specified product is displayed. From the menu on the left side of the screen, select Documentation for the appropriate release. The home page for the complete documentation set for the product and release you have selected is displayed.

Related Information

Readers of this document may find the following documentation and resources especially useful:

BEA WebLogic Adapter for ClarifyCRM Release Notes

http://edocs.bea.com/wladapters/clarify/docs811/pdf/relnotes.pdf

BEA WebLogic Adapter for ClarifyCRM User Guide

http://edocs.bea.com/wladapters/clarify/docs811/pdf/user.pdf

• Introduction to the BEA WebLogic Adapters

http://edocs.bea.com/wladapters/docs81/pdf/intro.pdf

• BEA WebLogic Adapters 8.1.1 Dev2Dev Product Documentation

http://dev2dev.bea.com/products/wladapters/index.jsp

- Application Integration documentation
 http://edocs.bea.com/wli/docs81/aiover/index.html
 http://edocs.bea.com/wli/docs81/aiuser/index.html
- BEA WebLogic Integration documentation

http://edocs.bea.com/wli/docs81/index.html

BEA WebLogic Platform documentation

http://edocs.bea.com/platform/docs81/index.html

• ClarifyCRM documentation

http://www.amdocs.com

Contact Us!

Your feedback on the BEA WebLogic Adapter for ClarifyCRM 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 ClarifyCRM documentation.

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

If you have any questions about this version of BEA WebLogic Adapter for ClarifyCRM, or if you have problems using the BEA WebLogic Adapter for ClarifyCRM, 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.
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</iostream.h>
	chmod u+w *
	\tux\data\ap
	.doc
	tux.doc
	BITMAP
	float
monospace	Identifies significant words in code.
boldface	Example:
text	void commit ()
monospace	Identifies variables in code.
italic	Example:
text	String expr
UPPERCASE	Indicates device names, environment variables, and logical operators.
TEXT	Examples:
	LPT1
	SIGNON
	OR
{ }	Indicates a set of choices in a syntax line. The braces themselves should never be typed.

Convention	Item
[]	Indicates optional items in a syntax line. The brackets themselves should never be typed.
	Example:
	<pre>buildobjclient [-v] [-o name] [-f file-list] [-1 file-list]</pre>
	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:
	<pre>buildobjclient [-v] [-o name] [-f file-list] [-1 file-list]</pre>
	Indicates the omission of items from a code example or from a syntax line. The vertical ellipsis itself should never be typed.



Installing the BEA WebLogic Adapter for ClarifyCRM with the CBO Interface

This chapter provides instructions for installing the BEA WebLogic adapter for ClarifyCRM with the CBO interface on both Windows and UNIX systems. To learn more about installing the BEA WebLogic Adapter for ClarifyCRM with the ClearBasic interface, see Chapter 2, "Installing the BEA WebLogic Adapter for ClarifyCRM with the ClearBasic Interface."

This section is organized as follows:

- Preparing to Install the Adapter
- Installing the Adapter
- Next Steps

Preparing to Install the Adapter

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

- Review the Release Notes
- Install the Clarify Desktop LAN/WAN Client
- Obtain Samples and Run Database Scripts
- Obtain the JDBC Driver
- Understanding the Representation of Paths

Review the Release Notes

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

http://edocs.bea.com/wladapters/clarify/docs811/pdf/relnotes.pdf

Install the Clarify Desktop LAN/WAN Client

Before you install the BEA WebLogic adapter for ClarifyCRM with the CBO interface, you must install the Clarify Desktop LAN/WAN Client. See your Clarify product documentation for installation instructions for the Clarify Desktop LAN/WAN Client.

Obtain Samples and Run Database Scripts

Before you use the adapter, you must obtain the bea_clarify_samples.zip file. This file contains:

- The database scripts necessary for generating triggers for ClarifyCRM events
- Sample XML and XSD files for requests, responses, and events

To obtain the samples file and run the database scripts:

1. Go to

http://commerce.bea.com/products/weblogicadapters/wladapters_samples.jsp

and download the samples for the Adapter for ClarifyCRM.

2. Use WinZip or a similar extracting tool to extract the contents of this zip file. The samples include scripts for the Oracle and Microsoft SQL Server databases.

Directory	Script Name Function	
createtables\ <i>database</i>	wli_clarify_events.sql	Creates the events table for the BEA WebLogic Adapter for ClarifyCRM .
	wli_clarify_events_seq.sql	Creates the sequence object for
	(Oracle)	events.
	wli_clarify_events_sql.sql	
	(Microsoft SQL Server)	
dbtriggers	database_TriggerGen.bat	Creates the database trigger table.

 Table 1-1
 Clarify Database Scripts

Here, *database* is the name of your database.

- 3. Go to the dbtriggers directory and find the batch file that is appropriate for your database.
- 4. Edit the batch file. Replace user with the name of a valid database user and password with the password associated with the database user name.
- 5. Start your database SQL interface. For example, if your database is Oracle, you can start SQL*Plus. Or, if your database is Microsoft SQL Server, use the Query Analyzer. You must log on as a user that has privileges to create tables.
- 6. Execute the wli_clarify_events.sql script to generate the event table within your database.
- 7. Execute the script to generate the event sequence object within your database.

If you are using Oracle, execute the wli_clarify_events_seq.sql script.

If you are using Microsoft SQL Server, execute the wli_clarify_events_sql.sql script.

8. Exit your database SQL interface.

9. Run the *database_TriggerGen.bat* batch file to create the databasae trigger table.

Obtain the JDBC Driver

The BEA WebLogic Adapter for ClarifyCRM relies on JDBC access to the ClarifyCRM database for event processing. Before you install the adapter, you must install the appropriate JDBC driver and set in the classpath for the new driver.

If the ClarifyCRM database is stored in Microsoft SQL Server, you can obtain the necessary JDBC driver from the following URL:

http://msdn.microsoft.com/downloads/default.asp

If the ClarifyCRM database is stored in Oracle, you can obtain the necessary JDBC driver from the following URL:

http://otn.oracle.com/software/tech/java/sqlj_jdbc/content.html

Note: This page requires you to have a username and password on the Oracle site.

After you have obtained and installed the required driver, you can proceed with installing the adapter.

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, such as *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/confgwiz/index.html

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

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

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

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

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

Installing the Adapter

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

- Step 1. Obtain the BEA WebLogic Adapter for ClarifyCRM
- 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 ClarifyCRM

To obtain the EAR file containing the BEA WebLogic Adapter for ClarifyCRM software (BEA_CLARIFY_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.

If you haven't already obtained the bea_clarify_samples.zip file and run the scripts contained in this zip file, do so now. This zip file contains the tool necessary for generating triggers for ClarifyCRM events. To learn about obtaining this file and running the scripts, see Obtain Samples and Run Database Scripts.

Step 2. Configure the Domain

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

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

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

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

http://edocs.bea.com/platform/docs81/confgwiz/index.html

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

This section explains how to extract the BEA WebLogic Adapter for ClarifyCRM files and edit your WebLogic script to add jar files to the classpath, and adjust the path.

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

Set the classpath using the procedure appropriate for your system:

- Extracting Files and Adjusting the Classpath for Windows
- Extracting Files and Adjusting the Classpath for UNIX

Extracting Files and Adjusting the Classpath for Windows

To extract the BEA WebLogic Adapter for ClarifyCRM for the CBO interface files and edit the WebLogic script:

- 1. Use WinZip (or another similar extracting product) to extract the BEA_CLARIFY_8_1.ear file to a directory of your choice (for example, *BEA_HOME*\adapters\clarify).
- 2. Go to the root directory for your domain:

cd DOMAIN_HOME

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

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

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

- 5. 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:
 - If you're using Microsoft SQL Server, set the classpath as follows:

rem ===== JDBC Java Libraries and DLLs (for JNI calls) =====

- set CLASSPATH=%CLASSPATH%; "JDBC_inst_path\msbase.jar"
- set CLASSPATH=%CLASSPATH%; "JDBC_inst_path\mssqlserver.jar"
- set CLASSPATH=%CLASSPATH%; "JDBC_inst_path\msutil.jar"

set CLASSPATH=%CLASSPATH%; "Clarify_path\javaclasses\ClfyCbo.jar"

Here, *JDBC_inst_path* is the path to where you installed the JDBC driver. To learn more about installing the JDBC driver, see Obtain the JDBC Driver.

Here, *Clarify_path* is the path to where you installed the adapter.

- If you're using Oracle, set the classpath as follows:

```
rem ===== JDBC Java Libraries and DLLs (for JNI calls) =====
set CLASSPATH=%CLASSPATH%;"JDBC_inst_path\classes12.zip"
```

set CLASSPATH=%CLASSPATH%; "Clarify_path\javaclasses\ClfyCbo.jar"

Here *JDBC_inst_path* is the path to where you installed the JDBC driver. To learn more about installing the JDBC driver, see Obtain the JDBC Driver.

Here *Clarify_path* is the path to where you installed the adapter.

6. Add the ClarifyCRM /bin directory to the path.

rem ==== Adding clarify bin directory to PATH =====
set PATH=%PATH%;"BEA_HOME\adapters\clarify\bin"

Here, BEA_HOME\adapters\clarify is the directory to which you extracted the adapter files in Step 1.

7. Save your changes and close the script file.

Extracting Files and Adjusting the Classpath for UNIX

To extract the BEA WebLogic Adapter for ClarifyCRM for the CBO interface files and edit the WebLogic startup script:

- 1. Use jar (or another similar extracting product) to extract BEA_CLARIFY_8_1.ear to a directory of your choice (for example, *BEA_HOME*/adapters/clarify).
- 2. Go to the root directory for your domain:

cd DOMAIN_HOME

- **Note:** You must choose a WebLogic Integration domain that supports application integration functionality.
- 3. 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.
- 4. Update the classpath and path environment settings in the script file.

After the following line:

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

Insert the following command lines so that the CLASSPATH and PATH point to the files you extracted in Step 1:

rem ===== JDBC Java Libraries and DLLs (for JNI calls) =====

```
set CLASSPATH=$CLASSPATH:"JDBC_inst_path/classes12.zip"
```

```
set CLASSPATH=$CLASSPATH:"Clarify_path/javaclasses/ClfyCbo.jar"
```

Here *JDBC_inst_path* is the path to where you installed the JDBC driver. To learn more about installing the JDBC driver, see Obtain the JDBC Driver.

Here *Clarify_path* is the path to where you installed the adapter.

5. Add the ClarifyCRM /bin directory to your path. Add the following line to your script file:

```
rem ==== Adding clarify directory to PATH =====
set PATH=$PATH:"$BEA_HOME/adapters/clarify/your_UNIX_system/bin"
```

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

6. Save your changes and close the script file.

Step 4. Update the BEA License

In order to use the BEA WebLogic Adapter for ClarifyCRM 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:

 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 clarify_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_02\bin;%PATH%

- On a UNIX system:

```
PATH=BEA_HOME/jdk141_02/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 ClarifyCRM, 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.

● Console ⊡ 🌏 samples	samples>Applications Offer? BEA 🕻		
E Servers	Connected to: localhost:7001 You are logged in as: system Logout		
Clusters	Click to expand the Deployments node.		
Machines	An application is a JZEE application or Web Service contained in an Enterprise Application Archive (EAR) file or exploded EAR directory. Individual components contained in a		
🖻 🖼 Deployments	application can be deployed to one or more target servers or clusters.		
Applications	When one or more empireations have been configured for devicument in the current Webl colo Server domain this Applications have disclave law information about the EAP 6		
BEA_WLS_DBMS_ADK	vinit de d'ande applications nere explored to trapportent in the context vestoge server domain, in a Applications page displays key information accurate Excline explored EAR directories. To configure en application or deployment, click the Deploy a new Applications, link.		
🗉 💏 WLI System EJBs			
🗉 🗃 WLI Worklist Worker User	Protocology a new Application		
🗉 🏭 WLI-Al Design-time			

4. In the left pane, expand the Deployments node.

5. Under the Deployments node, right-click Applications, and select Deploy a New Application.

This initiates the Deployment Assistant in the right panel.

Select the file path that represents your archive or exploded archive directory.	
Note: Only valid file paths are shown below. If you do not find what you are looking for, you should <u>u</u> confirm your application contains valid descriptors. Location: localhost \ C: \ bea \ WEBLOG-1 \ samples \ INTEGR~1	Click to upload your files
applications]

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

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

Upload	and Instal	I 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 Uplad 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.	- Click to browse to the ear
Browse Upload Cancel	file's location.

7. Click the Browse button, navigate to the directory in which the BEA_CLARIFY_8_1.ear file resides, and then click the Upload button.

The Administration Console prompts you to confirm the uploaded application.

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

The Administration Console uploads the file and displays the Deploy an Application window (specifying the default target server).

	Console Gintegration	integration> Applications> Deploy a new Application	(be a
	Glustere	Connected to : locathost :7001 You are logged in as : weblogic Logout	
	Machines	Deploy an Application	
	Applications Born BEA_WLS_DBMS_ADK Born BEA_WLS_SAMPLE ADK	Review your choices and deploy	
	표 삶에 WLI-AI Core 표 삶에 WLI_Samples	Deployment Targets	
	Connector Modules Generation Modules Generation Modules	Your application will be deployed to the following locations:	
	🗉 🚞 Startup & Shutdown	BEA_CLARIFY_8_1 will be deployed to	
	Services	Servers - cgServer	
	Domain Log Filters		
	Tasks	Source Accessibility	
		Since this is a single server environment, no further stage configuration is required. The server will access this application's files from the location specified.	
		Identity	
		Enter a name to be used to identify this application.	
		Name: BEA_CLARIFY_8_1	
		The name of this application deployment.	

9. Click Deploy.

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



Step 6. Create an Adapter Administrative User

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

To create a new adapter administrative user:

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

The Users page appears.

Users are entities that ca a security realm. BEA re efficient for administrator	an be authenticated. A us commends assigning use rs who work with large r	er can be a person or soft ers to groups for two reaso numbers of users.	ware ins: it	entity, such as a Java client. Each user is given a unique identity within makes the WebLogic Security Service perform better, and makes it more	
This Users page display:	s key information about e	ach user that has been co	nfigur	ed in this security realm.	Click to configure
Configure a new l	Jser				
Filter By:	Fitter				a new user.
User	Description	Provider			
weblogic	weblogic	DefaultAuthenticator	Û		
installadministrator	installadministrator	DefaultAuthenticator	Ĥ		

5. Click the Configure a New User link.

The Create User page appears.

General Groups Details	1	
This page allows you to define	a user in this security realm.	
Name:	new_user	
The login name	for this user.	
Description:		
A short descrip	tion of this user. For example, the user's full name.	Enter the user information.
Password:		
Confirm Password:		
The password	associated with the login name for this user.	
	Apply	

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

The User page appears.

☑ Configure a new User...

General Groups Details		_	
This page allows you to define a us	er in this security realm.		
Name: M	yAdapterAdmin		
The login name for th	nis user.	Enter a description for this us	ser
Description:	MyAdapter Administrator		501.
A short description of	of this user. For example, the user's full name.	Click to change the passwor	Ч
Password: <u>Cha</u>	ange		u.
	Apply	1	

7. Click the Groups tab.

The Groups page appears.

<u> Configure a new User</u>					
General Groups Details					
This page allows you to select the	e groups to which this user be	longs.			
Group Membership:	Possible Groups Administrators Deployers Integration2eployers IntegrationOperators IntegrationOperators IntegrationUsers Monitors Operators TaskCreationGroup	*	Current Groups	Anniv	——— Select a group for the user.
				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, right-click the Users node, select Open and confirm that the user you created appears in the list of users.

Next Steps

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

• Starting Integration with ClarifyCRM

Starting Integration with ClarifyCRM

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

http://edocs.bea.com/wladapters/clarify/docs811/pdf/user.pdf



Installing the BEA WebLogic Adapter for ClarifyCRM with the ClearBasic Interface

This section explains how to install the BEA WebLogic Adapter for ClarifyCRM with the ClearBasic interface with WebLogic Integration on both Windows and UNIX systems. To learn more about installing the BEA WebLogic Adapter for ClarifyCRM with the CBO interface, see Chapter 1, "Installing the BEA WebLogic Adapter for ClarifyCRM with the CBO Interface."

This section is organized as follows:

- Preparing to Install the Adapter
- Installing the Adapter
- Next Steps

Preparing to Install the Adapter

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

- Review the Release Notes
- Understanding the Representation of Paths

Review the Release Notes

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

http://edocs.bea.com/wladapters/clarify/docs811/pdf/relnotes.pdf

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/confgwiz/index.html

• DOMAIN_HOME represents the complete path to the root of a domain.

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

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

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

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

Installing the Adapter

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

- Step 1. Obtain the BEA WebLogic Adapter for ClarifyCRM
- Step 2. Configure the WebLogic Domain
- Step 3. Update the BEA License
- Step 4. Deploy the Adapter
- Step 5: Configure the WebLogic Tuxedo Connector
- Step 6. Create an Adapter Administrative User

Step 1. Obtain the BEA WebLogic Adapter for ClarifyCRM

To obtain the EAR file containing the BEA WebLogic Adapter for ClarifyCRM for the ClearBasic interface software (BEA_CLARIFYCB_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 WebLogic Domain

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

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

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

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

http://edocs.bea.com/platform/docs81/confgwiz/index.html

Step 3. Update the BEA License

In order to use the BEA WebLogic Adapter for ClarifyCRM 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 clarify_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_02\bin;%PATH%

- On a UNIX system:

```
PATH=BEA_HOME/jdk141_02/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 4. Deploy the Adapter

After you have installed the BEA WebLogic Adapter for ClarifyCRM, 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. Expand the Applications node.



5. Click Deploy a new Application.

This initiates the Deployment Assistant in the right panel.

Select the archive for this application	
Select the file path that represents your archive or exploded archive directory.	Click to upload your files
Note: Only valid file paths are shown below. If you do not find what you are looking for, you should <u>upload your file(s)</u> and/or confirm your application contains valid descriptors.	click to upload your lifes
Location: localhost \ C: \ bea \ WEBLOG~1 \ samples \ INTEGR~1	
applications	

6. 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.	 Click to browse to the ear
Browse Upload Cancel	file's location.

 Click the Browse button, navigate to the directory in which the BEA_CLARIFYCB_8_1.ear file resides, and then click the Upload button.

The Administration Console prompts you to confirm the uploaded application.

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

The Administration Console uploads the file and displays the Deploy an Application window (specifying the default target server).

● Console □ ③ samples □ □ Servers	samples>Applications>Deploy a new Application Conceterto: Invelver 7001 I You're loood nasvoten I Loood	🕯 🖙 🕈 👸 👘 🖓 👘
◆ cgServer Clusters Machines © Deployments	Deploy an Application	
Applications A	Kevlew your choices and deploy	
B WL-A Design-time B WL-A Design-time B WL-A Design-time B WL-A Design-time B Web Application Modules Connector Modules B Connector Modules B Startup & Shutdown Genices	Your application will be deployed to the following locations: IEA_CLARETYCE_1_1 will be deployed to Servers - cgServer	
Domain Log Filters Tasks	Source Accessibility Since this is a single server environment, no further stage configuration is required. The server will access th location specified.	nis application's files from the
	Mentay Enter a name to be used to identify this application Menne [BEA_CARFIPC0.9.1	
	ine ranne oi trus apparation aspontert.	Deploy

9. Click Deploy.

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



Using the Adapter in a Clustered Environment

The adapter for ClarifyCRM adapter is supported for a clustered environment. In order to successfully deploy the adapter on a clustered environment, you must deploy the WTC and EJB services on each node in the cluster. For more information on clustering, see "Clusters" in "Deployment Targets" in "Deploying WebLogic Server Applications" in the WebLogic Server documentation:

http://edocs.bea.com/wls/docs81/deployment/overview.html#1040441

Step 5: Configure the WebLogic Tuxedo Connector

The ClearBasic interface of the BEA WebLogic Adapter for ClarifyCRM uses Tuxedo and the WebLogic Tuxedo Connector (WTC) to communicate to the ClarifyCRM application server. ClearBasic routines are then executed at the Tuxedo-based ClarifyCRM application server through a Tuxedo-to-ClearBasic router service.

WTC provides a Tuxedo Domain-to-Domain connectivity between the services available in Tuxedo and the services hosted by EJBs in WebLogic. WTC also provides the Java ATMI (JATMI) interface, which enables Java components to call Tuxedo services and Tuxedo services to invoke the service methods of WebLogic-hosted EJBs.

WebLogic Integration service calls to the ClearBasic interface of the BEA Adapter for ClarifyCRM translate the XML request document into a JATMI Tuxedo service call through the facilities provided by the adapter and WTC to a remote Tuxedo application. This application receives the service call and its arguments (in an FML32-based buffer) and routes the request to a ClearBasic ClarifyCRM routine. The results are returned and presented as the response to the original WebLogic Integration service request.

Conversely, ClarifyCRM ClearBasic routines may call a Tuxedo service that is routed through the Tuxedo Domain configuration to a WebLogic Server-based WTC domain. The WebLogic Server WTC Exported Service and the EJB supporting this service will be invoked, with the ClearBasic arguments (in an FML32-based buffer) forming the contents of a WebLogic Integration posted XML event.

This step includes the following topics:

- Creating a Local WebLogic Domain
- Creating a Remote Tuxedo Domain
- Exporting a Local WTC Service
- Importing a Remote Tuxedo Service
- Creating a New WTC Server
- Configuring the WebLogic Tuxedo Connector EJBs
- Creating Domain Access Permissions for WTC Server

Creating a Local WebLogic Domain

To create a local WebLogic domain:

1. Log on to the WebLogic Server Console and expand your WebLogic Tuxedo Connector (WTC) Server's node in the left pane, if you have not yet done so.



- 2. In the left pane, expand your WTC Service node.
- 3. Click Configure a new Local Tuxedo Access Point in the right pane.

The Create a new WTCLocalTuxDom... window opens.

 Console Samples 	samples> WTC Services> MyWTC Service> Local Tuxedo Access Points> Create a new 🏚 🖃 🕈 👸 🥳
🗉 🖾 Servers	Connected to : Josefwort 2001 L You are longed in as : system L Longout
Clusters	General Connections Security
Machines	
Deployments	This page allows you to define the general configuration of a local Tuxedo access point that will be used with this WTC Service.
Services	Access Point: Mill ocal Tuxado Access Point
јсом	Wyceca racas recess roll
	The unique name used to identify this local Tuxedo access point. This name should be unique for all local and remote Tuxedo access
Managarian Driden	points defined within a WTC Service.
M L Wessaging Bridge	Access Point ID:
E SIMP	The connection principal name used to identify this local Tuxedo access point when attempting to establish a session connection
	remote Tuxedo access points.
E 🛃 MW/TC Service	Network Address:
Local Tuxedo Access Points	
Remote Tuxedo Access Points	The network address and port number of this local Tuxedo access point. Specify the TCP/IP address in the
Exported Services	Wormat //hostname:port_number 0/ //#.#.#:port_number.
imported Services	Crea
Passwords	

- 4. Specify the access point, the access point ID, and the network address.
- 5. Click Create.

You have successfully created the local WebLogic domain. To create a remote Tuxedo domain, see "Creating a Remote Tuxedo Domain."

If you have already created a remote Tuxedo domain, you can now create services.

- To export a local WTC service, see "Exporting a Local WTC Service."
- To import a remote Tuxedo service, see "Importing a Remote Tuxedo Service."

You can export and import services in any order.

Creating a Remote Tuxedo Domain

This configuration corresponds to the remote Tuxedo domain that will be running ClarifyCRM and to which the local WebLogic Server WTC domain will be communicating.

To create a remote Tuxedo domain:

- 1. Log on to the WebLogic Server Console and expand your WebLogic Tuxedo Connector (WTC) Server's node in the left pane.
- 2. In the left pane, expand your WTC Service node.



3. Click Configure a new Remote Tuxedo Access Point in the right pane.

The Create A Remote Tux Domain window appears.



- 4. Enter the domain's properties:
 - Access Point: the name of the remote Tuxedo domain.
 - Access Point Id: the ID of the Tuxedo domain as listed in the DMCONFIG configuration on Tuxedo.
 - Local Access Point: the name of the local WLS domain that will be connected to this remote Tuxedo domain.
 - Network Address: the TCP/IP //host:port of the remote Tuxedo domain.
 - Federation URL: the URL for a foreign name service that is federated into JNDI. You are not required to provide this value.
 - Federation Name: the context at which to federate to a foreign name service. You are not required to provide this value.
- 5. Click Create to activate the configuration you have defined.

You may also want to modify default values in the Connections and Security tabs. Please see your WebLogic Tuxedo Connector Administration manual for help with modifying these values.

You have successfully created a remote Tuxedo domain. To create a local WebLogic domain, see "Creating a Local WebLogic Domain."

If you have already created a local WebLogic domain, you can now create services.

- To export a local WTC service, see "Exporting a Local WTC Service."
- To import a remote Tuxedo service, see "Importing a Remote Tuxedo Service."

You can export and import services in any order.

Exporting a Local WTC Service

Exported local WebLogic Tuxedo Connector (WTC) services are services hosted on the WebLogic Server, implemented through Enterprise JavaBeans (EJBs) which implement the weblogic.wtc.jatmi.TuxedoService interface. The ClearBasic interface of the BEA WebLogic Adapter for ClarifyCRM supplies an EJB to support the inbound invocation of service requests and to post the constructed XML event document into WebLogic Integration. These local WTC services support the event adapter.

To export a local WTC service:

1. Log on to the WebLogic Server Console and expand your WTC Server's node in the left pane.

2. In the left pane, expand your WTC Service node.



3. Click Configure a new Exported Service.

The Create a new WTC Exported Service screen appears.

● Console ⊐ 😍 samples	samples> WTC Services> MyWT WTCExport	C Service> Exported Services> Create a new	🕇 🗖 📍 🏙 a 🎸
	Connected to : localhost:7001	You are logged in as : system Loqout	
Clustere			
Machines	General		
Deployments	This page allows you to define the exp	orted services configuration for a local Tuxedo access point that v	vill be used with this WTC Service.
E Services			
Сом	Resource Name:	MyExported Service	
⊞ 🛄 JDBC ⊞ 🛄 JMS	The name used to identif	y this exported service.	
🗉 🧰 Messaging Bridge	Local Access Point:		
	The name of the local ar-	case noint that exports this service	
FT SNMP	N		
	EJÊ Name:		
MyWTC Service Call Local Tuxedo Access Points	The complete name of the	e EJB home interface to use when invoking this service.	
🔵 clarifylocal 🖃 🖼 Remote Tuxedo Access Points	Remote Name:		
appsiv	The remote name of this	service.	
Exported Services			_
imported Services			Crea
Passwords	<u></u>		

- 4. Enter the service's properties:
 - Resource Name: the locally known name of the service.
 - Local Access Point: the name of the local WebLogic WTC domain access point containing the service.
 - EJB Name: the JNDI name of the EJB implementing the Tuxedo service locally on the WebLogic Server.
 - Remote Name: the name the local service will be known as when accessed in the remote Tuxedo domains.
- 5. Click Create to activate the configuration entries.

You have successfully exported the local WTC service. To import a remote Tuxedo service, see "Importing a Remote Tuxedo Service."

Importing a Remote Tuxedo Service

Imported remote Tuxedo services are services hosted on the remote Tuxedo server. ClarifyCRM supplies a routing service, CB_EXESUB, that takes Tuxedo requests and calls into ClarifyCRM ClearBasic routines.

To import a remote WTC service:

- 1. Log on to the WebLogic Server Console and expand your WTC Server's node in the left pane.
- 2. In the left pane, expand your WTC Service node.



3. Click Configure a new Imported Service.

● Console □ ③ samples	samples> WTC Services> MyWTC Service> Imported Services> Create a new 👘 🗇 🍞 👸 🗛 💡
E Servers	Connected to: localhost:7001 You are logged in as: system Logout
V cgServer	
Mashinaa	General
Machines Deploymente	This name allows you to define the imported services configuration for a remote Tuxedo access point that will be used with this WTC Service
E Services	
	Resource Name: MyImported Service
	The name used to identify this imported service.
🗉 🛄 Messaging Bridge	Local Access Point:
XML .	
🔵 JTA	The name of the local access point that offers this service.
	Remote Access Point List:
E Gel MyWIC Service	The comma-separated failover list that identifies the remote domain access points through which resources are imported.
🔮 clarifylocal 🖃 🔄 Remote Tuxedo Access Points	Remote Name:
appsrv	The remote name of this service.
🗉 🚞 Exported Services	
IWAYWTC_GEN_SVC	
imported Services	

4. Enter the service's properties:

- Resource Name: the locally-known name of the service.
- Local Access Point: the name of the local WebLogic WTC domain access point in which the service will be made available.
- Remote Access Point List: the list of all defined remote Tuxedo domains that can be called on to execute the imported service.
- Remote Name: the name the remote service as it exists in the Tuxedo domains.
- 5. Click Create to activate the configuration entries.

You have successfully imported the remote Tuxedo service. To export a local Tuxedo service, see "Exporting a Local WTC Service."

Creating a New WTC Server

To create a new WTC Server:

1. Log on to the BEA WebLogic Server Console.

● Console E 🚱 samples	Welcome to BEA WebLogic Server Home		🕯 🗖 📍 👸 💰
Clusters	Connected to : localhost:7001 You are logo	ed in as : system Logout	
Machines	Information and Resources		
Deployments Services	Helpful Tools Convert weblogic properties	General Information Read the documentation	
Domain Log Filters	Deploy a new Application Recent Task Status	Common Administration Task Descriptions Set your console preferences	
	Domain Configurations		
	Network Configuration	Yojur Deployed Resources	Your Application's Security Settings
	Domain	Applications	Realms
	Servers	EJB Modules	
	<u>Clusters</u>	Web Application Modules	
	Machines	Connector Modules	
		Startup & Shutdown	
	Services Configurations		
	JDBC	SNMP	Other Services
	Connection Pools	Agent	XML Registries
	MultiPools	Proxies	JTA Configuration
	Data Sources	Monitors	Virtual Hosts
	Data Source Factories	Log Filters	Domain-wide Logging
		Attribute Changes	Mail
	JMS	Trap Destinations	FileT3
	Connection Factories		
	Templates	Connectivity	Messaging Bridge
	Destination Keys	WebLogic Tuxedo Connector	Bridges
	Stores	Tuxedo via JOLT	JMS Bridge Destinations
	Servers	Tuxedo via WLEC	General Bridge Destinations
1	Distributed Destinations		

2. Click WebLogic Tuxedo Connector.

The WTCServers window opens.

● Console ⊟ 🌏 samples	samples > WTC Services			0 1 - ? BEA	
E Servers	Connected to : localhost 7001	You are logged in as : system	Logout		
Clusters					
🛄 Machines	The WebLogic Tuxedo Connector (V	/TC) provides interoperability between W	abLogic Server applications and Tuxedo services. It a	llows WebLogic Tuxedo Connecto	r client
🗉 🧰 Deployments	Service to establish a session conner	clients to invoke webLogic Server applic ection to link WebLogic Server to Tuxedo.	ations, such as EJBs and serviets. To configure web	Logic Tuxedo Connector, you must	create
	Vvhen one or more VVTC Services ar Service link.	e configured, this WTC Services page dis	plays key information about each of them. To create :	a W/TC Service, click the Configure	a new
E 🛄 JMS					
🗉 🚞 Messaging Bridge	Configure a new WTC Servi	<u>ce</u>			
XML XML	1				

3. Click Configure a new WTCServer...

The Create a new WTCServer... window opens.

😑 Cons E 🌏 sam	ole ples	samples> WTC	Services> Crea	ate a new V	VTCServer					#□?	
🗆 🖻 🖼 s	ervers > cgServer	Connected to : local	nost:7001	You are lo	gged in as : syste	m <u>Loqout</u>		_	_	_	
	lusters	General Targ	et and Deploy Co	ontents No	tes						
	eployments	This page allow	/s you to define the g	general config	uration of this VVT	Service.					
	ervices jcom	Δ	Name:	MyWT	C Service						
	JDBC JMS		The name of this W	A/TC Service.							
	Messaging Bridge		Deployment Orde	ter: 1000							
			The priority that We the lowest deployn	/ebLogic Serve ment order val	r uses to determir ue are deployed fi	e when it deploy: st.	s an item. The p	riority is relative f	to other deployat	le items of the s	ame type. Items wit
	⊒ SNMP ⊒ WTC		the left collection of the pro-								Crea
1 9	WLEC (deprecated)										

4. Enter a name and deployment order for this WebLogic Tuxedo Connector Server (that is, for this instance of the WebLogic Tuxedo Connector).

You can provide any descriptive name for the server: it serves only to contain the configuration of domains and services.

- 5. Click Create to create your new WTC Server.
- 6. Select the Targets tab.
- 7. Select the WebLogic Server on which you want the WTC server to be deployed.

● Console ⊟ 🌏 samples	samples> WTC Services	samples> WTC Services> MyWTC Service			
Servers Custers Machines Deployments	Connected to : localhost.7001 General Target and Dep This page allows you to se	You are logged in as: system Looput Nov Contents Notes Lect the servers on which you would like to deploy this WTC Service. You can rec	onfigure deployment targets later if		
Services COM D JDBC D JMS B JMS	yuu wish. Targets:	Servers 🗹 cgServer			
			Ар		

8. In the left pane, expand the node corresponding to your new WTC Server.

The WTC Server's components are displayed in the left pane.

You have successfully created the WTC Server.

To create:

- A local WebLogic domain, see "Creating a Local WebLogic Domain."
- A remote Tuxedo domain, see "Creating a Remote Tuxedo Domain."

You can create the domains in any order.

Configuring the WebLogic Tuxedo Connector EJBs

The ClearBasic interface for the BEA WebLogic Adapter for ClarifyCRM requires Enterprise JavaBeans (EJBs) to access the Java-based Application to Monitor Interface (JATMI) of the WebLogic Tuxedo Connector (WTC). Two EJBs are supplied:

- TuxConnectorEJB for WLAI service invocation.
- TuxEventConnectorEJB for Tuxedo service invocation and WLAI event posting.

The EJBs are automatically installed and deployed when the adapter's Web Application .ear file is installed. This section describes the configuration options available to the Tuxedo Connector EJBs.

- 1. Log on to the WebLogic Server Console if you have not already done so.
- 2. Select Deployments \rightarrow EJB in the left pane.

The list of all EJBs deployed on your WebLogic Server is displayed.

Console	WLI-AI Async Processor	WebLogic Integration	wlai-asyncprocessor- ejb.jar	1000	ð	
E Servers	WLI-B2B ebXML BPM Plug-in	WebLogic Integration	ebxml-bpm-plugin.jar	1000	ðt	
Machines	Sample EJB	WebLogic Integration	pobean.jar	1000	ð	
Deployments Applications	WLI-AI Event Processor	WebLogic Integration	wlai-eventprocessor- ejb.jar	1000	ðî	
E 🖨 EJB	WLI-BPM Server	WebLogic Integration	wlpi-ejb.jar	1000	ðt	
Sample BPM Plug-in	WLI-BPM Event Processor	WebLogic Integration	wlpi-mdb-ejb.jar	1000	80	
Sample DI EJB	WLI-DI BPM Plug-in	WebLogic Integration	wlxtpi.jar	1000	ð	
WLI Error Listener	WLI-B2B RN MDB	WebLogic Integration	b2b-rosettanet.jar	1000	ðÛ	
WLI Repository WLI-AI Async Processo	WLI-AI BPM Plug-in	WebLogic Integration	wlai-plugin-ejb.jar	1000	ðt	
WLI-AI BPM Plug-in	WLI-B2B RN BPM Plug-in	WLI-B2B RN BPM Plug-in WebLogic Integration wlc-wlpi-plugin.jar	1000	80		
WLI-AI Server	WLI-BPM Initialization	WebLogic Integration	bpm-init-ejb.jar	1000	ð	
WLI-B2B ebXML BPM P WI LB2B RN BPM Plug	WLI-BPM Plugin Manager	WebLogic Integration	wlpi-master-ejb.jar	1000	ðt	
œWLI-B2B RN MDB	WLI Repository	WebLogic Integration	repository-ejb.jar	1000	80	
WLI-B2B Startup WLI-BPM Event Proces:	Sample BPM Plug-in	WebLogic Integration	sampleplugin-ejb.jar	1000	ðî	
WLI-BPM Initialization	ibi-ejb-tuxedo.jar	BEA_CLARIFYCB_1_0	ibi-ejb-tuxedo.jar	1000	ð	

3. Click ibi-ejb-tuxedo.jar, the EJB .jar file that is supplied with the adapter. Both EJBs are contained in this file.

The ibi-ejb-tuxedo.jar summary window opens.

Console	-	wtc> EJB D	eployments> ibi-ejb	-tuxedo.jar	着 🗖 🔋 🧳 🔂 👘				
E Servers		Connected to local	host:7001	Active Domain: wtc	Apr 10, 2003 9:25:17 PM EDT				
Marchines									
Network Channels		Edit EJB Desc	riptor						
Deployments									
🖽 🚭 Applications		Configuration Targets Deploy Monitoring Notes							
E EIB		General	EJBC options						
Bibi-ejb-tuxedo.jar									
Sample DFM Flug-In Sample DI F.IB			Name:	ibi-ejb-tuxedo.jar					
Sample EJB		2	Path	D:\hea\adapters\BEA_CLARIEYCB_1_0_7	70 ear\ibi-eib-tuxedo iar				
WLI Error Listener					or our rest of p to not or span				
WLI Repository		?	Deployment Order:	1000					

4. Click Edit EJB Descriptor....

A separate WebLogic Server Console window opens, with ibi-ejb-tuxedo.jar the root node in the left pane.

The nodes for the two EJBs are displayed in the left pane.

😑 单 ibi-ejb-tuxedo.jar 😑 🎴 EJB Jar	ibi-ejb-tuxedo.jar		📲 ? 🛛 🔞
Enterprise Beans	Connected to localhost:7001	Active Domain: wtc	Apr 10, 2003 9:27:26 PM EDT
Sessions TuxConnectorEJB	Configuration		
Entities			
Message Driven Beans			
	Persist changes made to the Descriptor(s)	Persist	
 WebLogic Enterprise Beans Security Role Assignments Transaction Isolations 	Validate changes made to the Descriptor(s)	Validate	

6. Expand the two EJB nodes in the left pane.

TuxEventConnectorEJB is responsible for receiving Tuxedo service requests, translating the Tuxedo data into XML, and posting into the WebLogic Integration event adapter. TuxEventConnectorEJB has environment entries (run-time properties that control the behavior of the EJB). You will configure its properties.

TuxConnectorEJB receives XML request documents and invokes Tuxedo service calls via the JATMI layer of WTC, and receives the corresponding response data and creates response documents from it. It has no properties to be configured.

7. Unfold TuxEventConnectorEJB's Env Entries folder.

The EJB's environment entries are displayed.

 ibi-ejb-tuxedo.jar EJB Jar Entermise Beens 	•	ibi-ejb-tuxed Sessions> Ti Entries	lo.jar> EJBJar-23 uxEventConnec	7> EnterpriseB to> Environm	eans-27> Bent 🛛 🔂 🖶 🗇	? 🧯
E Sessions		Connected to local	host:7001	Active Domain	: wto Apr 10	, 2003 9:33
TuxConnectorEJB Erry Entries EJB Refs EJBLocal Refs Security Role Refs		ISV Configure a I⊂Customize	new Environment E	Entry		
Resource Env Refs		Description	Env Entry Name	Env Entry Type	Env Entry Value	
TuxEventConnectorEJB			EVENT_PORT	java.lang.String	6996	
Erventries			EVENT_HOST	java.lang.String	localhost	
EVENT_HOST			EVENT_BUFFER	java.lang.String	HI_WORKFLOW_NAME	
EVENT_PORT OCCUR_FLAG			OCCUR_FLAG	java.lang.String	Y	

This EJB has the following environment entries:

- EVENT_PORT, which specifies the port to which the event XML file will be posted by the EJB.
- EVENT_HOST, which specifies the host to which the event XML file will be posted by the EJB.
- EVENT_BUFFER, which specifies the Tuxedo FML field from which the root XML element will be obtained.
- OCCUR_FLAG, which indicates whether OCCURRENCE attributes will be added to the created XML document elements to ensure addressability of repeating XML elements. (Y indicates that OCCURRENCE attributes will be created for every field; N indicates that no OCCURRENCE attributes will be created.)
- 8. To change the EJB's environment entry:
 - a. Select the entry.
 - b. Select the Optional tab.



- c. Enter a new value.
- d. Click Apply.

You have finished configuring the WTC EJBs.

Creating Domain Access Permissions for WTC Server

The Local WLS-based WTC domain and the remote Tuxedo domain have several security settings. By default, there is no domain-to-domain security configured for a WebLogic Server WebLogic Tuxedo Connector (WTC) to Tuxedo domain setup. For information about other security options that restrict access at the domain level, consult your WTC manual.

Regardless of the security levels chosen ("none", "application password," or "domain password") on the local and remote domains, a connection principle will be required for the remote Tuxedo domain. It will be under this account that the remote domain will invoke local WTC-based service requests. By default, the connection principle or user ID under which a remote domain connects is its Access Point ID. An account must be created in the active security realm under which the remote domain request can be executed.

WebLogic Interface adapters must run in a domain that supports application integration, and these domains run under CompatibilityRealm security.



For this reason, you must create a user account for the remote Tuxedo domain:

1. Create a new account for the remote Tuxedo domain.

From the WebLogic Console, expand the Compatibility Security branch, and select Users.

Fill in the requisite fields to create a new user:

- a. name, which must match the remote Tuxedo Access Point ID.
- b. password, which can be anything as it is not checked when domain security is set to "none."

Click Create and then click Click here to save these changes to the realm implementation.

Startup & Statuto with	Users			#⊐?	é be a
■ □JDBC	Connected to localhost 7001	Active Dom	nain: wtc	Mar 24, 2003 6	25:02 PM EST
🖽 🛄 JMS					
🖽 🛄 Messaging Bridge					
⊞ [™] XML	Create a New User			Change a User's Pas	sword
JTA	Nama	-1		Neme	
E SNMP	Name:	Icianiy		Name:	
@WLEC	Password	Addadadada		Old Password	
WebLogic Tuxedo Connector				ola i dobroral	
E C MWTCServer	Confirm Password:	and a state of the	Create	New Password:	
E Cocal WLS Domains			p		
E GRemote Luxedo Domains				Confirm Password:	
Exponed Services	Delete a User				
Becoworde		-			
Pacoursos	Name:		Delete		
TUXEDO Queuing Bridge					
Init	Vunlock Users				
Virtual Hosts					
🗉 🚰 Mail	Users admin wdcSan	nlesliser ine huh wiisvst	em system r	nanv quest	
		ipieseser, jee, nub, wiisyst	iem, system, i	nuny, guest	

Step 6. Create an Adapter Administrative User

If you want to manage security for the BEA WebLogic Adapter for ClarifyCRM, you can create an administrative user (such as clarifyAdapterAdmin) who is authorized to log in to the

Application View Console, create application views, configure services and events, deploy, and test. This adapter administrator also needs to be added to the Administrators group.

To create a new adapter administrative user:

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

The Users page appears.

Users are entitles that can be submicicated. A user can be a person or software entity, such as a Java client. Each user is given a unique identity within a security realm. BEA recommends assigning users to groups for two reasons: it makes the WebLogic Security Service perform better, and makes it more efficient for administrators who work with large numbers of users.								
This Users page displays key information about each user that has been configured in this security realm.								
© ² Configure a new User Click to configure								
Filter By:	a new user.							
User	Description	Provider						
weblogic	weblogic	DefaultAuthenticator	Û					
installadministrator	installadministrator	DefaultAuthenticator	Û					

5. Click the Configure a New User link.

The Create User page appears.

General Groups Details		
This page allows you to defin	e a user in this security realm.	
Name:	new_user	
The login name	for this user.	
Description:		
A short descri	otion of this user. For example, the user's full name.	Enter the user information.
Password:		
Confirm Password:		
The password	associated with the login name for this user.	
	Apply	

 Enter the user name, description and password, and then click the Apply button. The User page appears. ☑ 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.	Enter a description for this user
Description: MyAdapter Administrator	
A short description of this user. For example, the user's full name.	Click to change the password
Password: <u>Change</u>	
Apply	

7. Click the Groups tab.

The Groups page appears.

l	Configure a new User					
	General Groups Details	groups to which this user be	longs.			
	Group Membership:	Possible Groups Administrators Deployers IntegrationAdministrators IntegrationApeloyers IntegrationOperators IntegrationOperators IntegrationUsers Monitors Operators TeskCreationGroup	*	Current Groups		———— Select a group for the user.
				A	pply	

- 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 Apply.
- 10. In the left pane, right-click the Users node, select Open and confirm that the user you created appears in the list of users.

Next Steps

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

• Starting Integration with ClarifyCRM

Starting Integration with ClarifyCRM

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

http://edocs.bea.com/wladapters/clarify/docs811/pdf/user.pdf

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