

веа WebLogic Platform™

Using the Configuration Wizard

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About This Document

This document explains how to create a new WebLogic Platform domain using the Configuration Wizard. Although the majority of this document focuses on the Configuration Wizard, links to other tools and tasks for domain configuration are provided.

This document is organized as follows:

- Chapter 1, "Introducing the Configuration Wizard" describes conceptual and prerequisite information about creating WebLogic Platform domains.
- Chapter 2, "Creating a New WebLogic Domain" describes how to create a new WebLogic Platform domain.
- Chapter 3, "Creating a New WebLogic Domain Using Silent Mode," describes how to create a WebLogic domain without user intervention by using a template file during the domain creation process.

Audience

This document is intended mainly for system administrators or application developers who are configuring domains for WebLogic Platform environments. It assumes a familiarity with WebLogic Server and the concept of WebLogic domains.

e-docs Web Site

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

How to Print the Document

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

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

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

Related Information

The BEA corporate Web site provides all documentation for WebLogic Platform. Other WebLogic Platform documents that you may find helpful in understanding, configuring, and managing domains are:

- Installing BEA WebLogic Platform
- Creating and Configuring WebLogic Server Domains
- Using WebLogic Clusters
- Starting, Stopping, and Customizing WebLogic Integration

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In your e-mail message, please indicate the software name and version you are using, as well as the title and document date of your documentation. If you have any questions about this version of WebLogic Platform, or if you have problems installing and running WebLogic Platform, contact BEA Customer Support through BEA WebSupport at **www.bea.com**. You can also contact Customer Support by using the contact information provided on the Customer Support Card, which is included in the product package.

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

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

Documentation Conventions

The following documentation conventions are used throughout this document.

Convention	Item
Ctrl+Tab	Indicates that you must press two or more keys simultaneously.
italics	Indicates emphasis or book titles.

Convention	Item
monospace text	<pre>Indicates code samples, commands and their options, data structures and their members, data types, directories, and file names and their extensions. Monospace text also indicates text that you must enter from the keyboard. <i>Examples</i>: import java.util.Enumeration; chmod u+w * config/examples/applications .java config.xml float</pre>
monospace italic text	Identifies variables in code. <i>Example:</i> String <i>CustomerName</i> ;
UPPERCASE TEXT	Indicates device names, environment variables, and logical operators. <i>Examples</i> : LPT1 BEA_HOME OR
{ }	Indicates a set of choices in a syntax line. The braces themselves should never be typed.
[]	Indicates optional items in a syntax line. The brackets themselves should never be typed. <i>Example:</i> java.utils.MultiCastTest -n name -a address [-p portnumber] [-t timeout] [-s send]
	Separates mutually exclusive choices in a syntax line. The symbol itself should never be typed. java weblogic.deploy [list deploy undeploy update] password {application} {source}

Convention	Item		
	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.		

Using the Configuration Wizard X

1 Introducing the Configuration Wizard

The Configuration Wizard enables you to create custom WebLogic Platform domains. Use this tool to create new domain configurations for standalone servers, Administration Servers with Managed Servers, and clustered servers.

The following sections describe concepts and prerequisites you need to know before you begin to create a domain:

- What Is a WebLogic Domain?
- What Does the Configuration Wizard Create?
- Prerequisites for Creating New WebLogic Domains
- Roadmap for Creating a New Domain

What Is a WebLogic Domain?

The basic administrative unit for WebLogic Server is a domain. A domain is an interrelated set of WebLogic Server resources that are managed as a unit. A domain includes one or more WebLogic Server instances, and it may also include WebLogic Server clusters. Clusters are groups of WebLogic Servers that work together to provide scalability and high availability for applications.

One instance of WebLogic Server in each domain is configured as an Administration Server. The Administration Server provides a central point for managing a WebLogic domain. All other WebLogic Server instances in a domain are called Managed Servers. In a domain with only a single WebLogic Server instance, that server functions as both Administration Server and Managed Server.

For detailed information about the contents, functions, and configuration of domains, see *Creating and Configuring WebLogic Server Domains* at the following URL:

http://edocs.bea.com/wls/docs70/admin_domain/index.html

Common Domain Types

The most common domain configurations are:

- Domain with Managed Servers: The simplest production environments deploy several managed servers to host web applications, and an Administration Server to perform management operations.
- Domain with Managed Servers and Clusters: Production environments that require increased performance, throughput, or availability for a Web application may arrange a portion of their Managed Servers into a cluster. In this case, the domain consists of one or more clusters with their hosted applications, additional managed servers if necessary, and an Administration Server to perform management operations.
- Standalone Server Domain: For development or test environments, you may want to deploy a single application and server independently from other managed servers. In this case, you can deploy a domain consisting of a single Administration Server that also hosts the Web applications you want to test or develop. The "examples" domain that you can install with WebLogic Server is an example of a standalone server domain.
- **Note:** In production environments, BEA recommends that you deploy applications only on Managed Servers in the domain; the Administration Server should be reserved for management tasks.

Tools for Creating WebLogic Domains

Domain creation is a fundamental part of setting up a WebLogic Platform environment. Various tools and procedures are available to assist in creating and managing WebLogic domains. The following sections provide a brief summary of the various tools and the role each plays in domain creation and management.

Configuration Wizard

The Configuration Wizard is a standalone tool that uses preconfigured domain templates to facilitate domain creation for a target environment. These templates correspond to the basic domain types described in "Common Domain Types" on page 1-2. The Configuration Wizard also installs the appropriate directory structure and scripts for a domain, and creates a config.xml file that describes the domain layout for the servers.

The Configuration Wizard supports a graphical user interface (GUI), a text-based command-line option, and a silent-mode option that allows you to create domains without user intervention. You can invoke this application as part of the custom installation process or independently after installation.

Note: The Configuration Wizard supports the creation of new domains and the extension of existing domains through the addition of Managed Servers. It does not support the migration of domains from previous versions of WebLogic Server or WebLogic Platform. It also does not support the modification of existing domains.

WebLogic Administration Console

One of the functions of the WebLogic Administration Console is to extend the domain that was created by the Configuration Wizard. Use the Administration Console to extend the domain definition to include certain networking definitions, database connection definitions, as well as to manage and monitor the health and status of the domain. The WebLogic Administration Console is also the tool to use for modifying an existing domain.

For more information about the WebLogic Administration Console, see the *BEA WebLogic Server Administration Console Online Help* at the following URL:

http://edocs.bea.com/wls/docs70/ConsoleHelp/index.html

WebLogic Integration Database Wizard

After the Configuration Wizard and WebLogic Administration Console, the Database Wizard is the next tool you must use to configure your database connection to run using the WebLogic Integration component. For more information about the Database Wizard, see *Starting, Stopping, and Customizing WebLogic Integration* at the following URL:

http://edocs.bea.com/wli/docs70/config/index.html

What Does the Configuration Wizard Create?

The Configuration Wizard uses your input to generate a new config.xml file to describe the domain layout as well as the basic network configuration for the servers you added. The Configuration Wizard stores the config.xml file and all other generated components in a domain subdirectory that you specify.

In addition to the config.xml file, the Configuration Wizard creates server startup scripts, application subdirectories, and other files and directories to help you start and use the new domain and its servers. Scripts are populated with the values that you enter using the Configuration Wizard.

Note: The domain directory can be located anywhere on your system. For example, references will be to the default location and referred to as DOMAIN_HOME.

DOMAIN_HOME represents BEA_HOME/user_projects/domain, where:

BEA_HOME is the BEA Home directory that contains the WebLogic Platform installation. By default, this directory is C:\bea on Windows systems.

user_projects is the directory location specified for the domain.

domain is the name of the domain directory.

The table below summarizes some of the basic directories and files that the Configuration Wizard installs for a new domain. Depending on the template selected and type of domain created, there may be additional files within the domain directory.

Component	Function	
/applications	Stores the default Web application for servers in the domain.	
	Note: If you select a template that includes component examples, such as the WebLogic Server Pet Store application, then those sample applications are also copied into the applications subdirectory.	
/logs	Stores log files for servers in the domain.	
/dbInfo	Contains database-specific information used for creating and initializing a database.	
	Contains the following subdirectories (corresponding to supported databases):	
	 oracle: Oracle Server database 	
	pointbase: PointBase database	
	 mssql: Microsoft SQL Server database 	
	Within each database directory, the following files are defined:	
	 setDBVars command: basic database variables for the domain 	
	 setDBVarsExt command: extended database variables for the domain 	
setEnv.cmd, setEnv.sh	Sets environment variables for domain servers.	
setExamplesEnv.cmd, setExamplesEnv.sh	Sets environment variables for domains that include the WebLogic Server example applications.	
startWebLogic.cmd, startWebLogic.sh	Starts the Administration Server for a custom domain.	
stopWebLogic.cmd, stopWebLogic.sh	Starts the Administration Server for a custom domain.	

Component	Function
startManagedWebLogic.cmd, startManagedWebLogic.sh	Starts a Managed Server in a custom domain.
<pre>startExamplesServer.cmd, startExamplesServer.sh</pre>	Starts a server that hosts the WebLogic Server example applications.
<pre>startPetStore.cmd, startPetStore.sh</pre>	Starts a server that hosts the Pet Store example applications.
demokey.pem, democert.pem	Provides sample SSL protocol support for servers in the domain.
installService.cmd, uninstallService.cmd	Installs/uninstalls the server in the domain as a Windows service.
	The installService.cmd script calls the installSvc.cmd and creates an entry for the service in the Windows Registry so that the Windows system knows to start the service each time the Windows system boots.
Windows Start Menu Items	Provides Start menu support for starting domain servers in a Windows environment.

Prerequisites for Creating New WebLogic Domains

Be sure to review the concepts and procedures for creating WebLogic domains in the WebLogic Server documentation. Then complete these prerequisites for creating a new domain using the Configuration Wizard:

- Determine Which Configuration Wizard Template to Use
- Determine the Domain Configuration
- Determine the Server Name and Listen Address

Determine Which Configuration Wizard Template to Use

To create a WebLogic domain, the Configuration Wizard requires a domain template: a Java ARchive file (JAR file) consisting of a collection of files and scripts necessary for creating a new custom domain. WebLogic Platform provides preconfigured domain templates as part of the product installation. These preconfigured templates are located in the WebLogic Platform installation directory (named weblogic700 by default) in common\templates\domains. They are briefly described in the following table.

Note: The available list of preconfigured templates varies, depending on which WebLogic Platform components are installed. For more information about the templates, see the *Configuration Wizard Template Reference* at the following URL:

WebLogic Platform Component	Template Name	Template Description
WebLogic Platform (all components must be installed)	Platform Domain	This domain template provides a skeleton for developing applications using all WebLogic Platform components.
WebLogic Server	WLS Domain	This template creates a very basic WebLogic Server domain without installing sample applications on the domain's servers.
	WLS Petstore	This template creates a WebLogic Server domain comparable to the Pet Store sample domain.
	WLS Examples	This template creates a WebLogic Server domain comparable to the WebLogic Server Examples domain.
	WebLogic Workshop	This domain template supports the development of WebLogic Workshop solutions.

http://edocs.bea.com/platform/docs70/template/index.html

WebLogic Platform Component	Template Name	Template Description
WebLogic Integration	BPM Domain	This domain template supports the development of business process management solutions. The WebLogic Integration functionality associated with business process management (BPM) and data integration are supported in the domain.
	EAI Domain	This template configures a domain to support the development of enterprise application integration solutions. The WebLogic Integration functionality associated with BPM, application integration, and data integration are supported in this domain.
	WLI Domain	This template configures a domain to support the development of solutions that employ the full range of WebLogic Integration functionality. WebLogic Integration functionality associated with application integration, data integration, BPM, and B2B integration are supported in this domain.
WebLogic Portal	WLP Domain	This domain template supports the development of WebLogic Portal solutions.

Determine the Domain Configuration

The Configuration Wizard provides several options that describe the number and layout of the servers you want to create in the domain. The Configuration Wizard domain options correspond to the list of domain types described in "Common Domain Types" on page 1-2, and are as follows:

- Single Server (Standalone Server): This option creates a domain with a single server that acts as the Administration Server and also hosts applications. This type of domain is recommended for development or testing purposes, rather than a production environment. See "Creating a Single-Server Domain" on page 2-10 for instructions on creating this type of domain.
- Admin Server with Managed Server(s): This option creates a domain with one or more Managed Servers to host applications and a separate, dedicated

Administration Server. See "Creating a Domain with Administration Server and Managed Servers" on page 2-4 for instructions on creating this type of domain.

- Admin Server with Clustered Managed Server(s): This option creates a domain with a cluster of Managed Servers and a separate, dedicated Administration Server. See "Creating a Domain with Administration Server and Cluster" on page 2-7 for instructions on creating this type of domain.
 - **Note:** For more information about clusters, see *Using WebLogic Server Clusters* at the following URL:

http://edocs.bea.com/wls/docs70/cluster/index.html

- Managed Server (with owning Admin Server configuration): This option does not create a new domain; instead, it extends an existing WebLogic Server domain by creating a new Managed Server. The Configuration Wizard prompts you for an existing Administration Server to which the new Managed Server connects. See "Extending an Existing WebLogic Domain" on page 2-11 for more information.
 - **Note:** Additional procedures are available for configuring Managed Servers such as configuring a Node Manager for a domain by using the WebLogic Administration Console. For more information about using the WebLogic Administration Console, see *Creating and Configuring WebLogic Server Domains* at the following URL:

http://edocs.bea.com/wls/docs70/admin_domain/index.html

After determining the configuration requirements for your domain, review the procedures to determine the information that is required for configuration, such as server names, ports, and IP addresses for the Administration and Managed Servers.

Determine the Server Name and Listen Address

The Configuration Wizard prompts you to assign a name and identify the listen address for each server instance you create. The following sections describe important considerations related to setting the server name and listen address.

Server Name Considerations

Each server instance in your WebLogic environment must have a unique name, regardless of the domain or cluster in which it resides, or whether it is an Administration Server or a Managed Server.

Listen Address Considerations

The following table describes important considerations related to setting the listen address value.

If the Listen Address is set to	 Then, the following is true Processes must specify the IP address or DNS name to connect to the server instance. Clients that specify localhost will fail to connect. You must update existing processes that use localhost to connect to the server instance. 		
IP address or DNS name			
	Note: To resolve a DNS name to an IP address, WebLogic Server must be able to contact an appropriate DNS server or obtain the IP address mapping locally. Therefore, if you specify a DNS name for the listen address, you must either leave a port open long enough for the WebLogic Server instance to connect to a DNS server and cache its mapping or you must specify the IP address mapping in a local file. If you specify an IP address for the listen address and then a client request specifies a DNS name, WebLogic Server will attempt to resolve the DNS name, but if it cannot access DNS name mapping, the request will fail.		
localhost	 Processes must specify localhost to connect to the server instance. Only processes that reside on the machine that hosts the server instance (local processes) will be able to connect to the server instance. Remote (non-local) processes will not be able to connect to the server instance. 		

is set to				
Undefined or Blank ("")	 Processes can specify the IP address, DNS name, or localhost to connect to the server instance. 			
	 Processes that specify localhost must reside on the machine that hosts the server instance. 			
	 If the server instance must be accessible as localhost (for instance, if you have administrative scripts that connect to localhost), and must also be accessible by remote processes, leave the listen address blank. 			
	Note:	For WebLogic servers running on multi-homed Windows NT machines, you should not leave the listen address value undefined or blank. (Multi-homed machines are configured with multiple IP addresses.) Otherwise, the WebLogic Server reserves and listens on its port for each of the machine IP addresses. This precludes other servers from using the same port on the machine.		

If the Listen Address Then, the following is true ... is set to ...

Roadmap for Creating a New Domain

The following roadmap will guide you in creating a new WebLogic domain.

Task		Refer to	
1.	Install WebLogic Platform.	Installing BEA WebLogic Platform at the following URL: http://edocs.bea.com/platform/docs70/ install/index.html	
2.	Determine the domain configuration prerequisites.	"Prerequisites for Creating New WebLogic Domains" on page 1-6	
3.	Initiate the Configuration Wizard to create a new domain.	"Starting the Configuration Wizard" on page 2-2 or "Starting the Silent-Mode Configuration Process" on page 3-8	

Task	Refer to		
4. Create a new domain.	"Creating a New WebLogic Domain" on page 2-1 or "Creating a New WebLogic Domain Using Silent Mode" on page 3-1		
5. Set up optional domain definitions for network connections, node manager, database connection pools, clusters, etc.	Creating and Configuring WebLogic Server Domains at the following URL: http://edocs.bea.com/wls/docs70/ admin_domain/index.html and Using WebLogic Server Clusters at the following URL:		
Note: This step is optional: whether you perform it depends on your domain requirements.	<pre>http://edocs.bea.com/wls/docs70/cluster/ind ex.html</pre>		
6. Initialize the WebLogic Integration Database Repository to configure the database.	Starting, Stopping, and Customizing WebLogic Integration at the following URL: http://edocs.bea.com/wli/docs70/config/inde x.htm		
Note: This step is required only if the domain supports WebLogic Integration functionality.			
7. Start WebLogic Server.	"Starting and Stopping WebLogic Servers" in the <i>BEA</i> <i>WebLogic Server Administration Guide</i> at the following URL: http://edocs.bea.com/wls/docs70/adminguide/ startstop.html		

2 Creating a New WebLogic Domain

The Configuration Wizard guides you through the process of configuring your new domain. The information required is dependent upon the type of domain you are configuring. Once you complete the prerequisites in "Introducing the Configuration Wizard" on page 1-1, you can run the Configuration Wizard in GUI mode or console mode and then verify the domain directory structure.

You can also create domains in silent mode. For more information, see Chapter 3, "Creating a New WebLogic Domain Using Silent Mode."

This section describes the following topics:

- Starting the Configuration Wizard
- Creating a Domain with Administration Server and Managed Servers
- Creating a Domain with Administration Server and Cluster
- Creating a Single-Server Domain
- Extending an Existing WebLogic Domain

Starting the Configuration Wizard

The WebLogic Platform installation program provides the option to automatically start the Configuration Wizard when you perform a custom installation. You can also start the Configuration Wizard at any time after installing WebLogic Server using either a GUI or a console (command-line) interface.

Note: For information about using the Configuration Wizard in silent-mode, see Chapter 3, "Creating a New WebLogic Domain Using Silent Mode."

Starting in GUI Mode

Running the Configuration Wizard in GUI mode executes the Configuration Wizard program in a graphics environment that can run on both Windows and some UNIX systems.

To run the Configuration Wizard in GUI mode, the console attached to the machine on which you are installing WebLogic Platform must support a Java-based GUI. All consoles for Windows systems support Java-based GUIs, but not all consoles for UNIX systems do.

Note: If you attempt to start the Configuration Wizard in GUI mode on a system that cannot support the graphical display, the Configuration Wizard automatically starts in Console mode.

To start the Configuration Wizard in GUI mode on a Windows platform, select the Domain Configuration Wizard option from the BEA program group in the Windows Start Menu:

Start-Programs-BEA WebLogic Platform 7.0-Domain Configuration Wizard

To start the Configuration Wizard in GUI mode on a UNIX platform (or from a Windows command prompt):

- 1. Log in to the target Windows or UNIX system.
- 2. Open a command-line shell.

3. Go to the following directory /common/bin subdirectory of the WebLogic Platform installation directory. For example:

```
cd c:/bea/weblogic700/common/bin
```

4. Invoke the dmwiz.cmd or dmwiz.sh script to start the Configuration Wizard: dmwiz.cmd

Starting in Console Mode

Running the Configuration Wizard in Console mode executes the Configuration Wizard program in a text-based environment that can run on Windows and some UNIX systems.

Note: If you attempt to start the Configuration Wizard in GUI mode on a system that cannot support the graphical display, the Configuration Wizard automatically starts in Console mode installation.

To start the Configuration Wizard in Console mode, follow these steps:

- 1. Log in to the target Windows or UNIX system.
- 2. Open a command-line shell.
- 3. Go to the following directory \common\bin subdirectory of the WebLogic Platform installation directory. For example:

```
cd C:\bea\weblogic700\common\bin
```

4. Invoke the dmwiz.cmd or dmwiz.sh script to start the Configuration Wizard. For example:

dmwiz.sh -mode=console

5. Determine the type of server for which you want to create a new domain. To complete the console mode creation of a new domain using the Configuration Wizard, respond to the prompts in each section by entering the number associated with your choice or by pressing Enter to accept the default. The —represents the default value. To exit the Configuration Wizard, enter exit in response to any prompt. To review or change your selection, enter previous at the prompt.

Creating a Domain with Administration Server and Managed Servers

Running a WebLogic domain as an Administration Server with Managed Servers means that you are running in a non-clustered environment with more than one server. In this scenario, your domain will have one Administration Server and at least one additional Managed Server.

Note: Managed Servers require a WebLogic Server instance be installed and additional procedures for configuration as part of a domain. For more information about Managed Servers, refer to the BEA WebLogic Server documentation and "Extending an Existing WebLogic Domain" on page 2-11.

To create a new domain with one or more Managed Servers and a standalone Administration Server:

1. Start the Configuration Wizard using the instructions in "Starting the Configuration Wizard" on page 2-2. The instructions that follow assume that you are running the Configuration Wizard in GUI mode.

The Configuration Wizard displays the Choose Domain Type and Name screen.

- 2. Perform the following actions:
 - Select a Template: Select a domain template from the list. See "Determine Which Configuration Wizard Template to Use" on page 1-7 for more information.
 - Name: Enter a domain name using alphanumeric characters; hyphen (-) and underscore (_) characters are supported. The maximum length of this field is 100 characters. Do not use spaces in this field. The Configuration Wizard uses the name you enter to create a domain subdirectory for the new domain.
- 3. Click the Next button to continue to the Choose Server Type screen.
- 4. Select the Admin Server with Managed Server(s) option and click Next. The Configuration Wizard displays the Choose Domain Location screen.

- 5. Enter a top-level directory to store your custom domain, or use the Browse button to select a directory. The domain directory can be any valid directory on your machine. Click Next to move to the Configure Managed Servers in Admin Server screen.
- 6. To add a new Managed Server to the domain, click Add and fill in the fields of the Add Server dialog box as follows:
 - Server Name: Enter a server name using alphanumeric characters; hyphen (-) and underscore (_) characters are supported. This field will not accept spaces.
 - Listen Address: Enter an IP address or DNS name for this server.
 - Listen Port: Enter a numeric value for the listen port. The range is 1 to 65535.
 - **Note:** To review a list of considerations for setting the server name and listen address, see "Determine the Server Name and Listen Address" on page 1-9.
- 7. Click Add on the Add Server dialog box to add the new Managed Server and return to the Configure Managed Servers in Admin Server screen.
 - **Note:** If you make a mistake and want to edit or delete a server you added, select the server name and click the Edit or Delete button.
- 8. Repeat step 6 to add additional Managed Servers, or click Next to move to the Configure Admin Server screen.
- 9. Fill in the fields of the Configure Standalone/Administrative Server screen as follows:
 - Server Name: Enter a server name using alphanumeric characters; hyphen (-) and underscore (_) characters are supported. This field will not accept spaces.
 - Server Listen Address: Enter an IP address or DNS name for this server.
 - **Note:** To review a list of considerations for setting the server name and listen address, see "Determine the Server Name and Listen Address" on page 1-9.
 - Server Listen Port: Enter a numeric value for the listen port. The range is 1 to 65535. The default port is 7001.

- Server SSL Listen Port: Enter a numeric value for SSL listening port for your security configuration. The range is 1 to 65535. The default port is 7002.
- 10. Click Next to move to the Create Administrative User screen.
- 11. Enter the user name and password required to boot and connect to the Administration Server you configured. The password must be at least eight characters. Click Next.
- 12. For domains that contain business process management functionality, enter an e-mail address and e-mail host name to enable WebLogic Integration to send e-mail from workflow instances.
- 13. For Windows systems, the Configuration Wizard prompts you to install the domain as a Windows Service, which will enable the WebLogic Server service each time the Windows system boots. This option requires administrative privileges. beaSvc and DomainName_ServerName is the Service Name.
 - **Note:** This prompt applies to WebLogic Server templates and domains. You must have Administrator privileges to install the server as a Windows Service. For additional information, see "Setting Up a WebLogic Server as a Windows Service" in "Starting and Stopping WebLogic Servers" in the *BEA WebLogic Server Administration Guide* at the following URL:

http://edocs.bea.com/wls/docs70/adminguide/startstop.htm
1

- 14. For Windows systems, the Configuration Wizard prompts you to install the domain in the Windows Start menu. Select Yes if you want to install the server start scripts under the start menu. Click Next to move to the Configuration Summary screen.
- 15. Verify the new domain and server configuration in the Configuration Summary screen. Click Create to create the new domain with the servers you specified. If you want to edit your selections, click the Back button to return to the correct screen.

Creating a Domain with Administration Server and Cluster

Running a WebLogic domain as an Administration Server with Clustered Managed Servers means that you are running in a clustered environment with one Administration Server and a cluster of Managed Servers.

Note: Managed Servers require WebLogic Server and additional procedures for configuration as part of a domain. For more information about Managed Servers, refer to the BEA WebLogic Server documentation and "Extending an Existing WebLogic Domain" on page 2-11.

To create a new domain with a cluster of Managed Servers and a standalone Administration Server:

1. Start the Configuration Wizard using the instructions in "Starting the Configuration Wizard" on page 2-2. The instructions that follow assume that you are running the Configuration Wizard in GUI mode.

The Configuration Wizard displays the Choose Domain Type and Name screen.

- 2. Perform the following actions:
 - Select a Template: Select a domain template from the list. See "Determine Which Configuration Wizard Template to Use" on page 1-7 for more information.
 - Name: Enter a domain name using alphanumeric characters. This field will not accept spaces. The Configuration Wizard uses the name you enter to create a domain subdirectory for the new domain.
- 3. Click the Next button to continue to the Choose Server Type screen.
- 4. Select the Admin Server with Clustered Managed Server(s) option and click Next. The Configuration Wizard displays the Choose Domain Location screen.
- 5. Enter a top-level directory to store your custom domain, or use the Browse button to select a directory. The domain directory can be any valid directory on your machine. Click Next to move to the Configure Clustered Servers screen.

- 6. To add a new Managed Server to the domain, click Add and fill in the fields of the Add Server dialog box as follows:
 - Server Name: Enter a server name using alphanumeric characters; hyphen (-) and underscore (_) characters are supported. This field will not accept spaces.
 - Listen Address: Enter an IP address or DNS name for this server.
 - **Note:** To review a list of considerations for setting the server name and listen address, see "Determine the Server Name and Listen Address" on page 1-9.
 - Listen Port: Enter a numeric value for the listen port. The range is 1 to 65535.
 - Server SSL Listen Port: Enter a numeric value for SSL listening port for your security configuration. The range is 1 to 65535.
- 7. Click Add on the Add Server dialog box to add the new Managed Server and return to the Configure Managed Servers in Admin Server screen.
 - **Note:** If you make a mistake and want to edit or delete a server you added, select the server name and click the Edit or Delete button.
- 8. Repeat step 6 to add additional Managed Servers, or click Next to move to the Configure Cluster screen.
- 9. Enter the following information in the Configure Cluster screen:
 - **Cluster Name:** Enter a cluster name using alphanumeric characters. This field will not accept spaces. The default is mycluster.
 - Cluster MultiCast Address: Enter a multicast address for the cluster. This address must begin with 237.xx.xx.xx, 238.xx.xx.xxx, or 239.xx.xx.xxxx.
 - **Cluster MultiCast Port:** Enter a numeric value for the multicast port. The range of values is 1 to 65535.
 - **Cluster Address:** Enter the address that clients use to connect to this cluster. For production use, enter a DNS name that maps to the individual IP addresses of the Managed Servers in the cluster. For testing or development purposes, use a comma-separated list of the IP addresses and ports assigned to the Managed Servers (this is the default entry).

10. Click Next to move to the Configure Standalone/Administrative Server screen.

- 11. Fill in the fields of the Configure Standalone/Administrative Server screen as follows:
 - Server Name: Enter a server name using alphanumeric characters; hyphen (-) and underscore (_) characters are supported. This field will not accept spaces.
 - Server Listen Address: Enter an IP address or DNS name for this server.
 - **Note:** To review a list of considerations for setting the server name and listen address, see "Determine the Server Name and Listen Address" on page 1-9.
 - Server Listen Port: Enter a numeric value for the listen port. The range is 1 to 65535. The default port is 7001.
 - Server SSL Listen Port: Enter a numeric value for SSL listening port for your security configuration. The range is 1 to 65535. The default port is 7002.
- 12. Click Next to move to the Create Administrative User screen.
- 13. Enter the user name and password required to boot and connect to the Administration Server you configured. The password must be at least eight characters. Click Next.
- 14. For domains that contain business process management functionality, enter an e-mail address and e-mail host name to enable WebLogic Integration to send e-mail from workflow instances.
- 15. For Windows systems, the Configuration Wizard prompts you to install the domain in the Windows Start menu. Select Yes if you want to install the server start scripts under the Start Menu. Click Next to move to the Configuration Summary screen.
- 16. Verify the new domain and server configuration in the Configuration Summary screen. Click Create to create the new domain with the servers you specified. If you want to edit your selections, click the Back button to return to the correct screen.

Creating a Single-Server Domain

Running a WebLogic domain as a single server means that the server instance acts as both the Administration Server and Managed Server. There will be no failover functionality accommodated by this configuration because there is a single server instance.

To create a new domain with a single WebLogic Server instance that acts as both the Administration Server and application host server:

1. Start the Configuration Wizard using the instructions in "Starting the Configuration Wizard" on page 2-2. The instructions that follow assume that you are running the Configuration Wizard in GUI mode.

The Configuration Wizard displays the Choose Domain Type and Name screen.

- 2. Perform the following actions:
 - Select a Template: Select a domain template from the list. See "Determine Which Configuration Wizard Template to Use" on page 1-7 for more information.
 - Name: Enter a domain name using alphanumeric characters. This field will not accept spaces. The Configuration Wizard uses the name you enter to create a domain subdirectory for the new domain.
- 3. Click the Next button to continue to the Choose Server Type screen.
- 4. Select the Single Server (Standalone Server) option and click Next. The Configuration Wizard displays the Choose Domain Location screen.
- 5. Enter a top-level directory to store your custom domain, or use the Browse button to select a directory. The domain directory can be any valid directory on your machine. Click Next to move to the Configure Single Server screen.
- 6. Fill in the fields of the Configure Standalone/Administrative Server screen as follows:
 - Server Name: Enter a server name using alphanumeric characters; hyphen (-) and underscore (_) characters are supported. This field will not accept spaces.
 - Server Listen Address: Enter an IP address or DNS name for this Server.

- **Note:** To review a list of considerations for setting the server name and listen address, see "Determine the Server Name and Listen Address" on page 1-9.
- Server Listen Port: Enter a numeric value for the listen port. The range of values is 1 to 65535. The default port is 7001.
- Server SSL Listen Port: Enter a numeric value for SSL listen port. The range of values is 1 to 65535. The default port is 7002.
- 7. Click Next to move to the Create Administrative User screen.
- 8. Enter the user name and password required to boot and connect to the server you configured. The password must be at least eight characters. Click Next.
- For domains that contain business process management functionality, enter an e-mail address and e-mail host name to enable WebLogic Integration to send e-mail from workflow instances.
- 10. For Windows systems, the Configuration Wizard prompts you to install the domain in the Windows Start menu. Select Yes if you want to install the server start script under the Start menu. Click Next to move to the Configuration Summary screen.
- 11. Verify the new domain and server configuration in the Configuration Summary screen. Click Create to create the new domain with the standalone server you specified. If you want to edit your selections, click the Back button to return to the correct screen.

Extending an Existing WebLogic Domain

If you are creating a domain with Managed Servers that reside on a machine that does not include the Administration Server, you may want to select the Managed Server (with owning Admin Server Configuration) as your Server Type. This process copies most of the domain files and scripts required for running services on this Managed Server. **Note:** Executing this configuration process will not copy the config.xml from the Administration Server to this Managed Server. This process generates a skeleton XML file (config.xml) in the domain directory. This Managed Server uses the config.xml file from the Administration Server for this domain.

Setting up this configuration for the Managed Servers in the domain is in addition to creating your domain with one of the options that includes the Administration Server for the domain.

To extend an existing domain by adding a new Managed Server:

- 1. Log in to the machine that will run the new Managed Servers. Note that this machine must have access to the WebLogic Server installation files in order to run the Configuration Wizard executable.
- 2. Start the Configuration Wizard using the instructions in "Starting the Configuration Wizard" on page 2-2. The instructions that follow assume that you are running the Configuration Wizard in GUI mode.

The Configuration Wizard displays the Choose Domain Type and Name screen.

- 3. Perform the following actions:
 - Select a Template: Select a domain template from the list. See "Determine Which Configuration Wizard Template to Use" on page 1-7 for more information.
 - Name: Enter a domain name using alphanumeric characters. This field will not accept spaces. The Configuration Wizard uses the name you enter to create a domain subdirectory for the new domain.
- 4. Click the Next button to move to the Choose Server Type screen.
- Select the Managed Server (with owning Admin Server configuration) option and click Next. The Configuration Wizard displays the Choose Domain Location screen.
- 6. Enter a top-level directory to store the start scripts and demo security files, or use the Browse button to select a directory. Click Next to move to the Configure Administrative Server Connection screen.
- 7. Fill in the fields with information describing the remote Administration Server to which the new servers will connect:

- Admin Server Name or IP: Enter the server name or IP address of the Administration Server.
- Admin Server Listen Port: Enter a numeric value for the listen port for the Administration Server. The range is 1 to 65535. The default port is 7001.
- Admin Server SSL Listen Port: Enter a numeric value for SSL listen port. The range is 1 to 65535. The default port is 7002.
- Managed Server Name: Enter the machine name for the server.
- 8. Click Next to move to the Configure Standalone/Administrative Server screen.
- 9. Fill in the fields of the Configure Standalone/Administrative Server screen as follows:
 - Server Name: Enter a server name using alphanumeric characters; hyphen (-) and underscore (_) characters are supported. This field will not accept spaces.
 - Server Listen Address: Enter an IP address or DNS name for this Server.
 - **Note:** To review a list of considerations for setting the server name and listen address, see "Determine the Server Name and Listen Address" on page 1-9.
 - Server Listen Port: Enter a numeric value for the listen port. The range of values is 1 to 65535. The default port is 7001.
 - Server SSL Listen Port: Enter a numeric value for SSL listen port. The range of values is 1 to 65535. The default port is 7002.
- 10. Click Next to move to the Create Administrative User screen.
- 11. Enter the user name and password required to boot and connect to the server you configured. The password must be at least eight characters. Click Next.
- 12. For domains that contain business process management functionality, enter an e-mail address and e-mail host name to enable WebLogic Integration to send e-mail from workflow instances.
- 13. For Windows systems, the Configuration Wizard prompts you to install the domain in the Windows Start menu. Select Yes if you want to install the server start script under the Start menu. Click Next to move to the Configuration Summary screen.

14. Verify the new domain and server configuration in the Configuration Summary screen. Click Create to create the new domain with the servers you specified. If you want to edit your selections, click the Back button to return to the correct screen.

3 Creating a New WebLogic Domain Using Silent Mode

The following sections describe how to create a WebLogic domain using the Configuration Wizard in silent mode:

- About Silent-Mode Configuration
- Using Silent-Mode Configuration: Main Steps
- Creating a Silent-Mode Configuration Template File
- Starting the Silent-Mode Configuration Process
- Sample Template Files for Silent-Mode Configuration

About Silent-Mode Configuration

Silent-mode configuration is a way of specifying domain configuration settings only once and then using those settings to create the domain on many machines. During configuration in silent mode, the Configuration Wizard reads the settings for your configuration from an XML file that you create prior to starting the domain creation process. The Configuration Wizard does not display any configuration options requiring user input while it is creating the domain. After the domain is created, a confirmation message is displayed on the console. Silent-mode configuration works on both Windows and UNIX systems.

The instructions in this section are based on the assumption that you have already installed BEA WebLogic Platform. For more information, see *Installing BEA WebLogic Platform* at http://e-docs.bea.com/platform/docs70/install/index.html.

Note: You can also create a domain in silent mode when you perform a silent-mode installation. When you do so, you define installation settings, as well as configuration settings. For more information, see "Installing WebLogic Platform Using Silent-Mode Installation" at

http://e-docs.bea.com/platform/docs70/install/silent.html.

Using Silent-Mode Configuration: Main Steps

The silent-mode configuration process comprises two tasks:

1. Create a template file in which you specify the configuration settings that a user normally enters during an interactive configuration process, such as graphical or console-mode configuration.

For a detailed procedure, see "Creating a Silent-Mode Configuration Template File" on page 3-3. For a sample template file, see "Sample Template Files for Silent-Mode Configuration" on page 3-9.

2. Launch the silent-mode configuration process using the template file you created in step 1. After the domain is created, a confirmation message is displayed on the console.

For a detailed procedure, see "Starting the Silent-Mode Configuration Process" on page 3-8.

Important Notes About Silent-Mode Configuration

You need to be aware of the following items when you are creating a domain in silent mode:

- Incorrect entries in the silent_cw.xml file can cause domain creation failures. To help you determine the cause of a failure, we recommend that you create a log file when you start the configuration process.
- The XML definition (<?xml version="1.0" encoding="UTF-8"?>) must be at the very beginning of the silent_cw.xml template file. There cannot be any spaces or line breaks before the XML definition.
- You must follow XML guidelines for characters when modifying values. That is, you cannot use characters reserved for use in XML, such as <, >, [, and].
- You must have Administrator privileges to configure a server as a Windows service (using the INSTALL_NT_SERVICE setting). For more information, see "Setting Up a WebLogic Server Instance as a Windows Service" in the BEA WebLogic Server Administration Guide at the following URL:

http://e-docs.bea.com/wls/docs70/adminguide/startstop.html#Sett
ingUpServerAsWindowsService

Creating a Silent-Mode Configuration Template File

When you create a domain in silent mode, the Configuration Wizard does not prompt you to provide information in real time. Instead, it queries an XML file, called silent_cw.xml, to determine which values to use for required configuration settings. Therefore, before you can run the Configuration Wizard in silent mode, you must first create a silent_cw.xml file in which you specify the configuration settings that you want to have invoked.

To create a template file for use in the silent-mode configuration process, follow these steps:

- 1. In a supported browser, display a sample template file for silent-mode configuration. Choose one of the following four samples:
 - Configuring a Single Server Domain in Silent Mode
 - Configuring a Domain with an Administration Server with Managed Server(s)
 - Configuring a Domain with an Administration Server with Clustered Managed Server(s)
 - Adding a Managed Server to an Existing Domain
- Copy the contents of the template file and save it as a text file named silent_cw.xml in the directory containing the WebLogic Platform Configuration Wizard.
- 3. In the silent_cw.xml file, create your desired configuration by assigning values for the data-value names shown in the following table.

For this data-value name	Enter	the following value
BEAHOME	The ful the inst	l pathname for the BEA Home directory containing allation for which you are creating a domain.
USER_INSTALL_DIR	The ful WebLo	l pathname for the directory where you installed the gic Platform software.
RUN_DOMAIN_WIZARD	true o domain choose values f followi	r yes to run the Configuration Wizard and create a after installation, false or no to skip it. If you to run the Configuration Wizard, you must specify for the appropriate data-values as listed in the ng rows in this table.
domain.directory	The ful domain	l path to the domain directory. The name of the directory should match the name of the domain.
	Note:	On UNIX systems, do not include spaces in the path of the domain directory.
C_domainName	Name of the dire	f the domain to be created. The name must match ctory name specified for domain.directory.
	Note:	On UNIX systems, do not include spaces in the domain name.

 Table 3-1
 Silent-Mode Configuration Template Values

For this data-value name	Enter the following value
C_serverName	Name of the server to be configured. Used as the server name for standalone servers, the name of the Administration Server for domains with Managed Servers and Clustered Servers, and the name of the Managed Server for Managed Server with owning Admin Server configurations.
	Note: Do not include spaces in the server name.
C_username	An administrative user name to start the server and access the Administration Console. Do not include spaces or XML reserved characters in this name.
C_password	A password for the administrative user. It must contain at least eight characters but no more than 20 characters. Do not use spaces or XML reserved characters.
C_serverListenAddress	The system IP address or DNS name for the server. You can leave this blank if you want to use localhost and the server IP address to access the server and the Administration Console.
C_serverListenPort	A dedicated TCP/IP port number for the Administration Server. This number specifies the port at which the server listens for connections. The port number can be any integer from 1 to 65535.
C_serverSSLListenPort	A dedicated secure listen port number for the Administration Server. The secure listen port number is used for secure Web connections based on the secure sockets layer (SSL) protocol. The port number can be any integer from 1 to 65535 and cannot be the same port as the C_serverListenPort.
ClusterName	Name of the cluster to be created. This data-value is only applicable if you are creating a cluster.
	Note: Do not include spaces in the cluster name.
ClusterPort	The MultiCast port used by the Administration Server to communicate with clustered servers. Typically, 7777. This data-value is only applicable if you are creating a cluster.

Table 3-1 Silent-Mode Configuration Template Values (Continued)

For this data-value name	Enter	the following value
ClusterMCAddr	The clu Admini servers. D IP ad 238, or creating	ster MultiCast IP address used by the stration Server to communicate with clustered Typically, 237.0.0.1. This value must be a class dress. Valid MultiCast addresses begin with 237, 239. This data-value is only applicable if you are a cluster.
ADMIN_HOST_NAME_OR_IP	The Ad configu	ministration Server name or IP address. Used when ring a Managed Server.
ADMIN_LISTEN_PORT	The por when co	t at which the Administration Server listens. Used onfiguring a Managed Server.
MANAGED_SERVER_ REGISTERED_NAME_IN_ADMIN	The machine or server name as registered with the Administration Server. Used when configuring a Managed Server.	
SERVER-RUN-AS	The type of server configuration to be created by the Configuration Wizard: Single Server (Standalone Server), Admin Server with Managed Server(s), Admin Server with Clustered Managed Server(s), of Managed Server (with owning Admin Server configuration).	
selectedJar	The full path of the template JAR file used by the Configuration Wizard to create the domain and configure servers.	
INSTALL_NT_SERVICE (Windows systems only)	yes to install the configured server as a Windows service; no to skip installing the configured server as a Windows service.	
	Note:	This data-value pair is used only if the selected template supports installing the server as a Windows service. If it does not, the value is ignored.
		You must have Administrator privileges to configure a server as a Windows service.
		This value is ignored on UNIX systems.

Table 3-1 Silent-Mode Configuration Template Values (Continued)

For this data-value name	Enter the following value	
INSTALL_WINDOWS_STARTUP_MENU	yes to add an option to the Windows Start menu to start the server; no (the default value) to skip the Start menu option.	
	Note:	This data-value pair is only used if the selected template supports installing Start menu options. If not, the value is ignored.
		This value is ignored on UNIX systems.
DB_EMAIL_HOST	The de	fault e-mail or SMTP server.
	Note:	This data-value pair is used only if the selected template supports WebLogic Integration functionality. If it does not, the value is ignored.
DB_EMAIL_ADDRESS	The addination of the	dress from which e-mail can be sent by a workflow e in WebLogic Integration.
	Note:	This data-value pair is used only if the selected template supports WebLogic Integration functionality. If it does not, the value is ignored.
managedServers (data group)	The typ in the d select " for SER	be of configuration for the group of Managed Servers lomain. This data group is relevant only when you Admin Server with Managed Server(s)" as the value RVER-RUN-AS.
	For eac values	h Managed Server in your configuration, specify for the following:
	■ ma: tha alp	nagedServerRegName—the name of the server t is registered with the Administration Server. Use hanumeric characters only; do not include spaces.
	■ ma: nar	nagedServerHostIP—the IP address or DNS ne of the machine on which the server is installed.
	■ ma: the	nagedServerListenPort—the listen port for server.
	■ ma: list	nagedServerSSLListenPort—the secure en port for the server.

Table 3-1 Silent-Mode Configuration Template Values (Continued)

For this data-value name	Enter the following value	
clusterServers (data group)	The type of configuration for the group of clustered Managed Servers in the domain. This data group is relevant only when you select "Admin Server with Clustered Managed Server(s)" as the value for SERVER-RUN-AS.	
	For each server in the cluster, specify values for the following:	
	 clusterServerRegName—the name of the server that is registered with the Administration Server. Alphanumeric characters only; do not include spaces. 	
	 clusterServerHostIP—the IP address or DNS name of the machine on which the server is installed. 	
	 clusterServerListenPort—the listen port for the server. 	
	 clusterServerSSLListenPort—the secure listen port for the server. 	

Table 3-1 Silent-Mode Configuration Template Values (Continued)

Starting the Silent-Mode Configuration Process

To start the Configuration Wizard in silent mode on a Windows or UNIX system, follow these steps:

- 1. Log in to the target system on which the product installation resides.
- 2. Create a configuration script as described in "Creating a Silent-Mode Configuration Template File" on page 3-3.
- 3. Open an MS-DOS command prompt window. (Windows systems only)
- 4. Go to the \common\bin subdirectory of the product installation directory. For example:

cd C:\bea\weblogic700\common\bin

- 5. Start the silent-mode configuration process by entering one of the following commands:
 - Windows:

```
dmwiz.cmd -mode=silent
-silent xml=full path to silent cw.xml [-log=logfile]
```

 UNIX: ./dmwiz.sh -mode=silent
 -silent_xml=full_path_to_silent_cw.xml [-log=logfile]

In both command lines:

- *full_path_to_silent_cw.xml* is the *full* path to the silent_cw.xml template file.
- *logfile* specifies the full path of the log file. The *-log* argument is optional. If the argument is not specified, no log file is generated. The path must specify a filename. You cannot create a file simply by including a name for it in a pathname; your path should specify an existing file. If your path includes a nonexistent file when you execute the command, the Configuration Wizard does not create the log file.

Sample Template Files for Silent-Mode Configuration

This section provides samples of template files you can use for various types of domain configuration:

- Sample Template for Creating a Single Server Domain
- Sample Template for Configuring a Domain with an Administration Server with Managed Servers
- Sample Template for Configuring an Administration Server and a Cluster of Managed Servers
- Sample Template for Adding a Managed Server to an Existing Domain

These samples use the WLS Domain Template wls.jar, but you can specify other templates as required. WebLogic Platform provides preconfigured domain templates as part of the product installation. These preconfigured templates are located in the common\templates\domains subdirectory of the product installation directory (named weblogic700 by default). For more information about the template to select for your configuration, see "Determine Which Configuration Wizard Template to Use" on page 1-7.

In addition to showing you how a template file is structured, these samples also provide you with a simple method of putting together your own template file. You can use these samples, modified in accordance with Table 3-1, to create a template file for your configuration. For instructions, see "Creating a Silent-Mode Configuration Template File" on page 3-3. You can then use your template file to create a domain in silent mode.

Sample Template for Creating a Single Server Domain

The following sample template can be used for configuring a domain that consists of a single server. Running a WebLogic domain as a single server means that the server instance acts as both the Administration Server and Managed Server. There will be no failover functionality accommodated by this configuration because there is a single server instance. In this template, a domain named mydomain that consists of a single server, myserver, is created.

Listing 3-1 Configuring a Single Server Domain in Silent Mode

```
<?xml version="1.0" encoding="UTF-8" ?>
<domain-template-descriptor>
 <input-fields>
   <data-value name="BEAHOME"
                                                value="C:\bea" />
   <data-value name="USER_INSTALL_DIR"</pre>
                                                value="C:\bea\weblogic700" />
   <data-value name="RUN DOMAIN WIZARD"</pre>
                                                value="true" />
   <data-value name="domain.directory"</pre>
                                         value="C:\bea\user domains\mydomain" />
                                                value="mydomain" />
   <data-value name="C domainName"
   <data-value name="C serverName"
                                                value="myserver" />
   <data-value name="C username"
                                                value="weblogic" />
   <data-value name="C password"
                                                value="weblogic" />
                                                value="" />
   <data-value name="C serverListenAddress"</pre>
                                                value="7001"
   <data-value name="C serverListenPort"</pre>
                                                              />
   <data-value name="C serverSSLListenPort"</pre>
                                                value="7002" />
```

```
<data-value name="selectedJar"
value="C:\bea\weblogic700\common\templates\domains\wls.jar" />
    <data-value name="INSTALL NT SERVICE" value="no"</pre>
                                                             />
    <data-value name="INSTALL WINDOWS STARTUP MENU" value="no" />
<!--For domains containing WebLogic Integration functionality, please uncomment
the following -->
<!-- <data-value name="DB EMAIL HOST"
                                             value="myserver"
                                                                    /> -->
<!-- <data-value name="DB EMAIL_ADDRESS"
                                             value="name@bea.com" /> -->
 <!--
       For Portal and Platform domains, please uncomment the following -->
          <file-dir-customization> -->
  <!--
  <!--
              <dirCopy srcDir="bea/portal/webapps/tools" -->
  <!--
                 targetDir="beaApps/portalApp/tools"/>
                                                        -->
  < ! - -
              <dirCopy srcDir="bea/portal/webapps/toolSupport" -->
                 targetDir="beaApps/portalApp/toolSupport"/> -->
  < ! - -
  <!--
              <dirCopy srcDir="bea/portal/webapps/datasync" -->
  <!--
                 targetDir="beaApps/portalApp/datasync"/> -->
              <dirCopy srcDir="bea/portal/apps/paymentWSApp" -->
   <!--
  <!--
                targetDir="beaApps/paymentWSApp"/>
                                                     -->
              <dirCopy srcDir="bea/portal/apps/taxWSApp" -->
   <!--
  <!--
                targetDir="beaApps/taxWSApp"/> -->
              <dirCopy srcDir="bea/portal/apps/jars" -->
  <!--
                 targetDir="beaApps/portalApp"/> -->
  <!--
  <!--
              <dirCopy srcDir="bea/portal/projects/portalApp-project" -->
                 targetDir="beaApps/portalApp-project"/> -->
   <!--
           </file-dir-customization> -->
  <!--
   <data-value name="SERVER-RUN-AS" value="Single Server (Standalone Server)" />
  </input-fields>
</domain-template-descriptor>
```

Sample Template for Configuring a Domain with an Administration Server with Managed Servers

The following sample template can be used for configuring a domain that consists of an administration server plus one or more managed servers. In this template, a domain with an Administration Server myserver, and three Managed Servers: managed1, managed2, and managed3 is created.

Listing 3-2 Configuring a Domain with an Administration Server with Managed Server(s)

```
<?xml version="1.0" encoding="UTF-8"?>
<domain-template-descriptor>
 <input-fields>
    <data-value name="BEAHOME"</pre>
                                           value="C:\bea" />
    <data-value name="USER INSTALL DIR"</pre>
                                           value="C:\bea\weblogic700" />
    <data-value name="RUN_DOMAIN_WIZARD" value="true" />
    <data-value name="domain.directory" value="C:\bea\user domains\mydomain" />
    <data-value name="C domainName"</pre>
                                                    value="mydomain" />
    <data-value name="C serverName"</pre>
                                                    value="myserver" />
    <data-value name="C username"</pre>
                                                    value="weblogic" />
    <data-value name="C password"</pre>
                                                    value="weblogic" />
                                                    value="" />
    <data-value name="C serverListenAddress"</pre>
    <data-value name="C serverListenPort"</pre>
                                                    value="7001" />
    <data-value name="C serverSSLListenPort"</pre>
                                                   value="7002" />
    <data-value name="selectedJar"
value="C:\bea\weblogic700\common\templates\domains\wls.jar" />
    <data-value name="INSTALL NT SERVICE"</pre>
                                                    value="no" />
    <data-value name="INSTALL_WINDOWS_STARTUP_MENU" value="no" />
<!--For domains containing WebLogic Integration functionality, please uncomment
the following -->
 <!-- <data-value name="DB EMAIL HOST"
                                                 value="myserver" /> -->
  <!-- <data-value name="DB EMAIL ADDRESS"
                                                 value="name@bea.com" /> -->
 <!--
        For Portal and Platform domains, please uncomment the following -->
           <file-dir-customization> -->
   <!--
   <!--
              <dirCopy srcDir="bea/portal/webapps/tools" -->
   <!--
                 targetDir="beaApps/portalApp/tools"/> -->
   <!--
              <dirCopy srcDir="bea/portal/webapps/toolSupport" -->
   < ! - -
                 targetDir="beaApps/portalApp/toolSupport"/> -->
              <dirCopy srcDir="bea/portal/webapps/datasync" -->
   < ! - -
   <!--
                 targetDir="beaApps/portalApp/datasync"/> -->
   < ! - -
              <dirCopy srcDir="bea/portal/apps/paymentWSApp" -->
   <!--
                 targetDir="beaApps/paymentWSApp"/> -->
              <dirCopy srcDir="bea/portal/apps/taxWSApp" -->
   <!--
   <!--
                 targetDir="beaApps/taxWSApp"/> -->
   <!--
              <dirCopy srcDir="bea/portal/apps/jars" -->
                 targetDir="beaApps/portalApp"/> -->
   <!--
   <!--
              <dirCopy srcDir="bea/portal/projects/portalApp-project" -->
   <!--
                 targetDir="beaApps/portalApp-project"/> -->
   <!--
           </file-dir-customization> -->
```

```
<data-value name="SERVER-RUN-AS" value="Admin Server with Managed Server(s)"</pre>
/>
    <data-group name="managedServers">
      <data-element>
         <data-value name="managedServerRegName"</pre>
                                                           value="managed1" />
                                                           value="host1" />
         <data-value name="managedServerHostIP"</pre>
         <data-value name="managedServerListenPort"</pre>
                                                           value="1001" />
       <data-value name="managedServerSSLListenPort"</pre>
                                                           value="1002" />
      </data-element>
      <data-element>
         <data-value name="managedServerRegName"</pre>
                                                           value="managed2" />
         <data-value name="managedServerHostIP"</pre>
                                                           value="host2" />
         <data-value name="managedServerListenPort"</pre>
                                                           value="2001" />
         <data-value name="managedServerSSLListenPort" value="2002"</pre>
                                                                          />
      </data-element>
      <data-element>
         <data-value name="managedServerRegName"</pre>
                                                           value="managed3" />
         <data-value name="managedServerHostIP"</pre>
                                                           value="host3" />
         <data-value name="managedServerListenPort"</pre>
                                                           value="3001"
                                                                          />
         <data-value name="managedServerSSLListenPort" value="3002" />
      </data-element>
    </data-group>
  </input-fields>
```

Sample Template for Configuring an Administration Server and a Cluster of Managed Servers

</domain-template-descriptor>

The following sample template can be used for configuring a domain that consists of an administration server plus a cluster of managed servers. In this template, a domain with an Administration Server myserver, a cluster named mycluster, and four clustered Managed Servers, cluster1, cluster2, cluster3, and cluster4 is created.

Listing 3-3 Configuring a Domain with an Administration Server with Clustered Managed Server(s)

```
<?xml version="1.0" encoding="UTF-8" ?>
<domain-template-descriptor>
 <input-fields>
    <data-value name="BEAHOME"
                                                value="C:\bea" />
    <data-value name="USER INSTALL DIR"</pre>
                                                value="C:\bea\weblogic700" />
    <data-value name="RUN_DOMAIN_WIZARD"</pre>
                                                value="true" />
                                          value="C:\bea\user domains\mydomain" />
    <data-value name="domain.directory"</pre>
    <data-value name="C domainName"</pre>
                                                value="mydomain" />
    <data-value name="C serverName"</pre>
                                                value="myserver" />
    <data-value name="C username"</pre>
                                                value="weblogic" />
    <data-value name="C password"</pre>
                                                value="weblogic" />
    <data-value name="C serverListenAddress"
                                                value="" />
    <data-value name="C serverListenPort"</pre>
                                                value="7001" />
    <data-value name="C serverSSLListenPort"</pre>
                                                value="7002" />
    <data-value name="ClusterName"</pre>
                                                value="mycluster" />
    <data-value name="ClusterPort"</pre>
                                                value="7777" />
    <data-value name="ClusterMCAddr"</pre>
                                                value="237.0.0.1" />
    <data-value name="selectedJar"
value="C:\bea\weblogic700\common\templates\domains\wls.jar" />
    <data-value name="INSTALL NT SERVICE"</pre>
                                                      value="no" />
    <data-value name="INSTALL_WINDOWS_STARTUP_MENU" value="no" />
<!--For domains containing WebLogic Integration functionality, please uncomment
the following -->
                                                  value="myserver" /> -->
  <!-- <data-value name="DB EMAIL HOST"
  <!-- <data-value name="DB EMAIL ADDRESS"
                                                 value="name@bea.com" /> -->
 <!--
        For Portal and Platform domains, please uncomment the following -->
   <!--
           <file-dir-customization> -->
   < ! - -
              <dirCopy srcDir="bea/portal/webapps/tools" -->
                  targetDir="beaApps/portalApp/tools"/> -->
   < ! - -
   <!--
              <dirCopy srcDir="bea/portal/webapps/toolSupport" -->
   < ! - -
                  targetDir="beaApps/portalApp/toolSupport"/> -->
   <!--
              <dirCopy srcDir="bea/portal/webapps/datasync" -->
                  targetDir="beaApps/portalApp/datasync"/> -->
   <!--
   <!--
              <dirCopy srcDir="bea/portal/apps/paymentWSApp" -->
   <!--
                 targetDir="beaApps/paymentWSApp"/> -->
   <!--
              <dirCopy srcDir="bea/portal/apps/taxWSApp" -->
   <!--
                 targetDir="beaApps/taxWSApp"/> -->
              <dirCopy srcDir="bea/portal/apps/jars" -->
   <!--
   <!--
                  targetDir="beaApps/portalApp"/> -->
   <!--
              <dirCopy srcDir="bea/portal/projects/portalApp-project" -->
```

```
<!--
                  targetDir="beaApps/portalApp-project"/> -->
   <!--
           </file-dir-customization> -->
  <data-value name="SERVER-RUN-AS"
                                        value="Admin Server with Clustered Managed
Server(s)" />
   <data-group name="clusterServers">
       <data-element>
          <data-value name="clusterServerRegName"</pre>
                                                            value="cluster1" />
          <data-value name="clusterServerHostIP"</pre>
                                                            value="host1" />
          <data-value name="clusterServerListenPort"</pre>
                                                            value="1001" />
          <data-value name="clusterServerSSLListenPort" value="1002" />
        </data-element>
       <data-element>
          <data-value name="clusterServerRegName"</pre>
                                                            value="cluster2" />
          <data-value name="clusterServerHostIP"</pre>
                                                            value="host2" />
          <data-value name="clusterServerListenPort"</pre>
                                                            value="2002" />
          <data-value name="clusterServerSSLListenPort" value="2003" />
       </data-element>
       <data-element>
          <data-value name="clusterServerRegName"</pre>
                                                             value="cluster3" />
          <data-value name="clusterServerHostIP"</pre>
                                                             value="host3" />
          <data-value name="clusterServerListenPort"</pre>
                                                             value="3003" />
          <data-value name="clusterServerSSLListenPort"</pre>
                                                             value="3004" />
       </data-element>
       <data-element>
          <data-value name="clusterServerRegName"</pre>
                                                             value="cluster4" />
          <data-value name="clusterServerHostIP"</pre>
                                                             value="host4" />
          <data-value name="clusterServerListenPort"</pre>
                                                             value="4004" />
          <data-value name="clusterServerSSLListenPort"</pre>
                                                             value="4005" />
       </data-element>
   </data-group>
 </input-fields>
</domain-template-descriptor>
```

Sample Template for Adding a Managed Server to an Existing Domain

The following sample template can be used for adding a managed server to an existing domain. In this template, a Managed Server ms1 is added to a domain with an Administration Server named adminserver.

Listing 3-4 Adding a Managed Server to an Existing Domain

```
<?xml version="1.0" encoding="UTF-8" ?>
<domain-template-descriptor>
 <input-fields>
    <data-value name="BEAHOME"</pre>
                                               value="C:\bea" />
    <data-value name="USER INSTALL DIR"</pre>
                                               value="C:\bea\weblogic700" />
    <data-value name="RUN_DOMAIN_WIZARD"</pre>
                                               value="true" />
  <data-value name="domain.directory"
                                            value="C:\bea\user_domains\mydomain"
/>
    <data-value name="C domainName"
                                               value="mydomain" />
    <data-value name="C serverName"
                                               value="ms1" />
    <data-value name="C username"</pre>
                                               value="weblogic" />
    <data-value name="C password"
                                               value="weblogic" />
    <data-value name="C serverListenAddress"
                                              value="" />
                                               value="7003" />
    <data-value name="C serverListenPort"</pre>
    <data-value name="C serverSSLListenPort" value="7004" />
    <data-value name="selectedJar"
value="C:\bea\weblogic700\common\templates\domains\wls.jar" />
    <data-value name="INSTALL NT SERVICE"</pre>
                                                     value="no" />
    <data-value name="INSTALL_WINDOWS_STARTUP_MENU" value="no" />
<!--For domains containing WebLogic Integration functionality, please uncomment
the following -->
  <!-- <data-value name="DB EMAIL HOST"
                                                 value="myserver" /> -->
  <!-- <data-value name="DB EMAIL ADDRESS"
                                               value="name@bea.com" /> -->
 <!-- For Portal and Platform domains, please uncomment the following -->
           <file-dir-customization> -->
  <!--
              <dirCopy srcDir="bea/portal/webapps/tools" -->
   <!--
  <!--
                 targetDir="beaApps/portalApp/tools"/> -->
  <!--
              <dirCopy srcDir="bea/portal/webapps/toolSupport" -->
  <!--
                 targetDir="beaApps/portalApp/toolSupport"/> -->
              <dirCopy srcDir="bea/portal/webapps/datasync" -->
  <!--
```

</th <th>targetDir="beaApps/portalApp/datasync"/>></th>	targetDir="beaApps/portalApp/datasync"/>>
</th <th><pre><dircopy srcdir="bea/portal/apps/paymentWSApp"></dircopy></pre></th>	<pre><dircopy srcdir="bea/portal/apps/paymentWSApp"></dircopy></pre>
</th <th><pre>targetDir="beaApps/paymentWSApp"/>></pre></th>	<pre>targetDir="beaApps/paymentWSApp"/>></pre>
</th <th><pre><dircopy srcdir="bea/portal/apps/taxWSApp"></dircopy></pre></th>	<pre><dircopy srcdir="bea/portal/apps/taxWSApp"></dircopy></pre>
</th <th>targetDir="beaApps/taxWSApp"/>></th>	targetDir="beaApps/taxWSApp"/>>
</th <th><dircopy srcdir="bea/portal/apps/jars"></dircopy></th>	<dircopy srcdir="bea/portal/apps/jars"></dircopy>
</th <th>targetDir="beaApps/portalApp"/>></th>	targetDir="beaApps/portalApp"/>>
</th <th><pre><dircopy srcdir="bea/portal/projects/portalApp-project"></dircopy></pre></th>	<pre><dircopy srcdir="bea/portal/projects/portalApp-project"></dircopy></pre>
</th <th>targetDir="beaApps/portalApp-project"/>></th>	targetDir="beaApps/portalApp-project"/>>
</th <th>></th>	>

<data-value name="SERVER-RUN-AS" value="Managed Server (with owning Admin Server configuration)" />

```
<data-value name="ADMIN_HOST_NAME_OR_IP" value="adminserver" />
<data-value name="ADMIN_LISTEN_PORT" value="7001" />
<data-value name="MANAGED_SERVER_REGISTERED_NAME_IN_ADMIN" value="ms1" />
```

</input-fields> </domain-template-descriptor>