Oracle® Communications Marketing and Advertising

Installation Guide

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Contents

4 Installing Oracle Communications Marketing and Advertising Software

5 Configuring the Domain for Oracle Communications Marketing and Advertising

6 Post Installation Tasks

7 Using an Existing Oracle Communications Services Gatekeeper

8 Upgrading and Patching

Preface

This document describes how to install the Oracle Communications Marketing and Advertising on Windows, Linux, and UNIX platforms.

Audience

This document is intended for system administrators or application developers who are installing Marketing and Advertising. It is assumed that readers are familiar with WebLogic Servers and have a general understanding of Windows, Linux, and UNIX system administration.

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc.

Access to Oracle Support

Oracle customers have access to electronic support through My Oracle Support. For information, visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info or visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs if you are hearing impaired.

Related Documents

For more information, see the following documents in the Marketing and Advertising Release 5.1 documentation set :

- *Oracle Communications Marketing and Advertising Concepts Guide*
- *Oracle Communications Marketing and Advertising System Administrator's Guide*
- *Oracle Communications Marketing and Advertising Integration Guide*

1

Installation Overview

This chapter summarizes the tasks required to install and configure an installation of Oracle Communications Marketing and Advertising. This product is built on Oracle Communications Services Gatekeeper, which is in turn built on Oracle WebLogic Server Release 11g Release 1.

Services Gatekeeper and WebLogic Server are automatically installed as part of an Marketing and Advertising installation, so no separate installations for these underlying products are required.

Manual installation of the underlying database software is required.

If you are already running Services Gatekeeper and you wish to use that installation to support Marketing and Advertising, see the special instructions in Chapter 7, "Using an Existing Oracle Communications Services Gatekeeper."

If you are already running a previous version of Marketing and Advertising and wish to upgrade to this version, see the instructions in Chapter 8, "Upgrading and Patching".

Ensuring a Successful Installation

The Marketing and Advertising installation should be performed only by qualified personnel. You should be familiar with Services Gatekeeper and the operating system on which you are installing the software. It is recommended that the installation and configuration of the Oracle or MySQL database be performed by an experienced database administrator.

Follow these guidelines:

- As you install each component; for example, for the database and Marketing and Advertising software, verify that the component installed successfully before continuing the installation process.
- Pay close attention to the system requirements. Before you begin installing the software, make sure the system has the required base software. In addition, make sure that you know all of the required configuration values, such as host names and port numbers. For a detailed description of the system requirements, see Chapter 2, "System Requirements.".
- As you create new user accounts, passwords, and configuration values, write them down. In some cases, you might need to these values later in the installation procedure.

Installable Products

The Marketing and Advertising installation program installs the following products:

- WebLogic Server and optional sub-components
- Services Gatekeeper
- Marketing and Advertising

The installation program also allows you to selectively install one or more subcomponents of each of these product offerings. In addition, the installation program can also install the JRockit or Sun Java Development Kit (JDK).

Installation Roadmap

Table 1–1 describes the high-level tasks that are required to install Marketing and Advertising. For information on installing an Oracle or MySQL database, refer to the documentation for those products.

Table 1–1 Marketing and Advertising Product Installation Procedures

Task	Description	Documentation
Step 1 - Complete the installation planning requirements	Ensure that your system environment meets the requirements for the installation.	See Chapter 1, "Installation Overview."
Step 2 - Obtain the appropriate installation file for your platform	There are several ways for you to download the software. The installer you use depends on your platform and the products you want to install.	See Obtaining the Marketing and Advertising Software.
Step 3 - Plan and configure a database for your Marketing and Advertising deployment.	Prior to installing and configuring the Marketing and Advertising software, you must install and configure either an Oracle or MySQL database for use as a JDBC data source. Also determine your Oracle Middleware home directory, and product installation home directories	See Chapter 3, "Pre-Installation Tasks."
Step 4 - Install the software	Run the installation program in the desired installation mode. In each installation mode, you have the option to create a detailed installation log.	See Chapter 4, "Installing Oracle Communications Marketing and Advertising Software."
Step 5 - Create a Marketing and Advertising domain	Use the Fusion Middleware Configuration Wizard to create a Marketing and Advertising domain.	See Chapter 5, "Configuring the Domain for Oracle Communications Marketing and Advertising."
Step 6 - Complete the post-installation tasks	Depending on the type of installation you have chosen, you may have to perform one or more post-installation tasks, such as creating additional JMS servers, installing Java Cryptography Extension (JCE) Policy Files, deploying the administrative Web services, setting up embedded LDAP replication, configuring load balancers, or checking the system locale parameter.	See Chapter 6, "Post Installation Tasks."

2

System Requirements

This chapter describes software and hardware requirements for Oracle Communications Marketing and Advertising.

Common Configuration Requirements

All servers in a Marketing and Advertising cluster must be dedicated servers.

The directory in which the software is installed must reside on the server's local file system.

There must be at least 2 GB of disk space available under **/usr/local**.

Certification Matrix

Table 2–1 shows the Marketing and Advertising certification matrix, which describes specific requirements on the supported software/hardware platforms.

Table 2–1 Oracle Communications Marketing and Advertising Certification Matrix

OS Version	Processor	JDK Version	RAM	DISK
HP-UX 11iV3 64bit	Itanium-64	HP JDK 6.0.02	1 GB required; 2 GB recommended	2 X 36 GB
OEL 4 (UL7+), 5 (UL3+) 32 or 64bit	Xenon or Opteron Class x86	Sun: Version 1.6.0_18-b07 and all later JDK 6.0.* versions and service packs	1 GB required; 2 GB recommended	2 X 36 GB
Windows XP SP2 or Higher (Development Environments Only) 32bit	Xenon or Opteron Class x86	Sun: Version 1.6.0_18-b07 and all later JDK 6.0.* versions and service packs	1 GB required; 2 GB recommended	2 X 36 GB

Table 2–1 (Cont.) Oracle Communications Marketing and Advertising Certification

OS Version	Processor	JDK Version	RAM	DISK
Solaris 10 Update 4+ 32 or 64bit	UltraSPARC IIIi (i.5 GHz)	Sun: Version 1.6.0_18-b07 and all later JDK 6.0.* versions and service packs JRockit: Version 1.6.0_17 R28.0.0-6+	1 GB required; 2 GB recommended	2 X 36 GB
Red Hat EL 4 (UL7+), 5 (UL3+) 32 or 64bit	Xenon or Opteron Class x86	Sun: Version 1.6.0_18-b07 and all later JDK 6.0.* versions and service packs JRockit: Version 1.6.0_17 R28.0.0-6+	1 GB required; 2 GB recommended	2 X 36 GB
Oracle VM 3.2 (Guest OS: OEL 5.3, RHEL 5.3)	Host: Xenon or Opteron Class x86	Guest: Sun: Version 1.6.0_18-b07 and all later JDK 6.0.* versions and service packs JRockit: Version 1.6.0_17 R28.0.0-6+	Guest: 1 GB required; 2 GB recommended	Guest: 2 X 36 GB

Supported Databases

Marketing and Advertising has been tested to run with the following databases:

- Oracle Database 11g RAC: Provides full DB failover and fault tolerance
- Oracle Database 11g Single Instance: No failover or fault tolerance
- MySQL 5.4: No failover or fault tolerance

3

Pre-Installation Tasks

This chapter describes the system configuration tasks to complete prior to installing Oracle Communications Marketing and Advertising. These tasks involve installing the database software that supports Marketing and Advertising and setting up the database users.

Database Planning for Marketing and Advertising

Prior to installing and configuring the software, you must install and configure either an Oracle RAC, Oracle Single Instance, or MySQL database for use by Marketing and Advertising. The installation and configuration of the database in preparation for Marketing and Advertising should be performed by a qualified database administrator.

Although there are substantial differences among the specific installation procedures for each type of database, all installation types include the following basic steps:

- Install the database software.
- Set up two database user accounts, one for Marketing and Advertising and one for the delivery system (Oracle Communications Service Gatekeeper) to access the database.
- Grant both user accounts appropriate privileges on the database.

Database Information to Record

When you install and configure a database, you define system configuration values that you need to enter when you install and configure the Marketing and Advertising software. When you create the following values, write them down so you can use them during the Marketing and Advertising installation and domain configuration processes:

- **Vendor**—The database vendor's name. For Marketing and Advertising this is either Oracle or MySQL.
- **JDBC driver**—The JDBC driver to use to connect to the database.
- **Database usernames**—The usernames that Marketing and Advertising and Services Gatekeeper use when connecting to the database. There will be two.
- **Database user password**—The passwords for the specified usernames.
- **Database SID** or **database name**—If you are using an Oracle database, this is the Database System Identifier. If you are using a MySQL database, this is the name of the database.

- **Host Name**—The name or IP address assigned to the server hosting the database.
- **Port**—The port number to use to connect to the database. The default port numbers are: port 1521 for the Oracle database, and port 3306 for the MySQL database

Creating an Oracle 11g with RAC Database

Use these instructions if you are using Oracle 11g with RAC as your database. For more information on using WLS RAC with multidatasource configuration, see *Oracle WebLogic Server Configuring and Managing WebLogic JDBC* at

http://download.oracle.com/docs/cd/E12840_01/wls/docs103/jdbc_admin/

A RAC database is recommended to support production environments requiring high availability.

Setting Up the Base Configuration

Oracle 11*g* RAC instances must be installed on dedicated servers separate from the cluster on which Marketing and Advertising will be installed.

To set up the base configuration:

1. Install the Oracle 11*g* RAC database software using the instructions provided with the software.
2. Download and install the latest patch set to guarantee the most recent updates to the database software are present.

Recommended Configuration Options

- Create the database using the **Transaction Processing** template.
- Use **Automatic Storage Management**.
- Use the **Dedicated Server Mode** for the database.
- Change the **processes** parameter as follows:

  Define the number or of processes to be equal to [(`wlng.datasource MaximumCapacity + wlng.localTX.datasource MaximumCapacity + ocma.datasource MaximumCapacity`) X the number of Marketing and Advertising servers in the cluster]. `MaximumCapacity` is defined as a parameter in the connection pool settings for the JDBC datasources. Normally this value is 150 per datasource.

Creating Database Users

To create the database users:

1. Create two database users, one for Marketing and Advertising and one for the delivery system (a modified version of Service Gatekeeper).
2. Give each database user an allowed (unlimited) quota on the default tablespace, (the **users** tablespace).

   The user name and password for each user are later copied to each instance of Marketing and Advertising.
3. Grant the database users the following privileges:

- CREATE SESSION
- CREATE TABLE
- CREATE SEQUENCE

After installation, Marketing and Advertising must be configured with an additional set of parameters to make it work correctly with the database. This configuration is performed during the domain configuration phase, described in Chapter 5, "Configuring the Domain for Oracle Communications Marketing and Advertising."

Creating an Oracle 11g Single Instance Database

Follow the instructions in this section if you are using an Oracle 11g single instance as your database.

Setting Up The Base Configuration

The Oracle 11g instance must be installed on a dedicated server separate from the cluster on which Marketing and Advertising will be installed.

To set up the base configuration:

1. Install the Oracle 11*g* database software using the instructions provided with the software.
2. Download and install the latest patch set to guarantee the most recent updates to the database software are present.

Recommended Configuration Options

- Create the database using the **Transaction Processing** template.
- Use **Automatic Storage Management**.
- Use **Dedicated Server Mode** for the database.
- Change the **processes** parameter:

  Define the number or of processes to be equal to [(`wlng.datasource MaximumCapacity + wlng.localTX.datasource MaximumCapacity + ocma.datasource MaximumCapacity`) X the number of Marketing and Advertising servers in the cluster]. `MaximumCapacity` is defined as a parameter in the connection pool settings for the JDBC datasources. Normally this value is 150 for both datasources.

Creating Database Users

To create the database users

1. Create two database users, one for Marketing and Advertising and one for the delivery system (a modified version of Service Gatekeeper). Each should have an allowed (unlimited) quota on the default tablespace (the users tablespace).The user name and password for each user are later copied to each instance of Marketing and Advertising and Service Gatekeeper.
2. Grant the users granted the following privileges:
   - CREATE SESSION
   - CREATE TABLE

- CREATE SEQUENCE

After installation, Marketing and Advertising must be configured with an additional set of parameters to make it work correctly with the database. This configuration is performed during the domain configuration phase, described in Chapter 5, "Configuring the Domain for Oracle Communications Marketing and Advertising."

Creating a MySQL Database

Follow the instructions in this section if you are using MySQL as your database.

MySQL is not supported in environments that require high availability.

MySQL can be installed either on a server included in an Marketing and Advertising cluster or on a dedicated server. If the MySQL database is installed in the cluster, it should be placed on the same server as the core tier of Marketing and Advertising.

Before you start, make sure you have the appropriate installation binaries (5.0) for your platform. The binaries can be downloaded from

`http://www.mysql.com`

Copy the installation file to the installation directory and follow the instructions below for installing on your platform. These may vary widely depending on your platform and the type of binary you chose to download. You may need to be logged in with administrative privileges.

Linux

The following is a summary of the commands needed to install MySQL on some versions of Linux. You should check the specific instructions for your version. It assumes an installation directory of **/usr/local**:

1. Install the MySQL database according to the MySQL documentation
2. Create a new database instance for Marketing and Advertising according to the MySQL documentation
3. Start the newly created database instance
4. Create a file, **/usr/local/mysql/data/my.cnf**, and set the following connection variable, so that `max_connections` is equal to

   [(`wlng.datasource MaximumCapacity + wlng.localTX.datasource MaximumCapacity +ocma.datasource MaximumCapacity`) X the number of Marketing and Advertising servers in the cluster].

   `MaximumCapacity` is defined as a parameter in the connection pool settings for the JDBC datasources. Normally this value is 150 per datasource. For example:

   ```
   [mysqld]
   set-variable=max_connections=400
   ```

   You should also add settings for default character set and storage engine. he recommended character set is `latin1`:

   ```
   set-variable=default-character-set=desired character set
   set-variable=default-storage-engine=MYISAM
   ```

5. Restart MySQL.
6. Go on to Preparing the Database.

Windows

The Windows version is available with a graphical installer. Detailed instructions on using the installer are available at the MySQL web site. Unless you need to install the database in a non-standard location, you can select Typical Install.

You can also use the **Instance Configuration Wizard** for basic configuration. (Use the default choice unless specified below):

1. Select **Detailed Configuration**.
2. Select **Multi-functional Database** as your usage type.
3. To set concurrent connections, select **Manual** and choose a value equal to

   [(`wlng.datasource MaximumCapacity + wlng.localTX.datasource MaximumCapacity + ocma.datasource MaximumCapacity`) X the number of Marketing and Advertising servers in the cluster].

   `MaximumCapacity` is defined as a parameter in the connection pool settings for the JDBC datasources. Normally this value is 150 per datasource. Use the dropdown menu. You can change this value later if necessary.
4. Check **Enable TCP/IP Networking** (the standard port is fine unless you need to change it for your particular installation).
5. Set the character set. The recommended character set is **Latin1**.
6. Select **Install as Windows Service** if you desire.
7. Select **Modify Security Settings** and set a root password.
8. Do not check **Enable root access from remote machines**.
9. When the installation and configuration are complete, make one manual edit in the `my.ini` configuration file. In a standard installation this is located in **C:\Program Files\MySQL\MySQL Server 5.1**. You must change one line in the file. Set this variable "default-storage-engine=MYISAM"
10. Go on to Preparing the Database.

Preparing the Database

After you have set up the MySQL installation, prepare the database for use with Marketing and Advertising.

1. Set MySQL to autostart on reboot. This is recommended.

   Refer to the instructions for MySQL and the operating system. If you are installing on Windows, you can set up MySQL to run as a Windows Service (see above).
2. Create two databases, one for Marketing and Advertising, and one for the delivery system, a modified version of Services Gatekeeper.

   The two names will be used in the Domain Configuration stage of the installation. The standard way to do this is to issue the following SQL command

   `CREATE DATABASE database name`
3. Create a database user and password for each of the databases and give them access privileges.

   You must do this for every IP address in the cluster.

You will need these user names and passwords for the domain configuration stage of the installation. (For information on the various command level modes of accessing the MySQL server, see the documentation on the MySQL website.

You can use the following SQL command:

```
GRANT ALL ON *.* TO database user@'ip-address' IDENTIFIED BY 'password'
```

Marketing and Advertising must be configured with an additional set of parameters to make it work correctly with the databases. This configuration is performed after installation, during the domain configuration phase, which is described in Chapter 5, "Configuring the Domain for Oracle Communications Marketing and Advertising."

Choosing an Installation Directory

When you install Marketing and Advertising, you are prompted to specify a Middleware home directory. This directory serves as a repository for common files that are used by multiple Oracle Fusion Middleware products on the same machine. For this reason, the Middleware home directory can be considered a central support directory for all the Oracle Fusion Middleware products installed on your system.

The files in the *Middleware_Home* directory are essential to ensuring that Marketing and Advertising, Services Gatekeeper, and WebLogic Server, which Marketing and Advertising is built upon, operate correctly on your system. The central location of Oracle Fusion Middleware files ensures that cross-product dependencies during installation are fulfilled.

Obtaining the Marketing and Advertising Software

Marketing and Advertising software is available through web distribution. Use the following link to obtain the installation program:

http://edelivery.oracle.com

The following installers are available on Oracle E-Delivery:

- **Generic**: Use the generic installer to install the Marketing and Advertising software on any supported system using an approved java run-time.
- **Linux x86**: Use the Linux installer to install the Marketing and Advertising software on Linux operating systems. This installer includes a Java Runtime Environment for Linux, as well as the Sun and Oracle JRockit JDKs.
- **Solaris Sparc**: Use the Solaris Sparc installer to install the Marketing and Advertising software on Solaris systems with Sparc architecture. This installer includes a Java Runtime Environment for Solaris, as well as the Sun JDK.
- **Windows x86**: Use the Windows installer to install Marketing and Advertising software on Microsoft Windows operating systems.

4

Installing Oracle Communications Marketing and Advertising Software

This chapter describes how to install the Oracle Communications Marketing and Advertising software. This process must be followed on every server in the system. The chapter includes information on:

Installation Platforms and Modes

You can install Marketing and Advertising using the following platform-specific installers:

- **ocma510_linux_x86.bin**
- **ocma510_solaris_sparc.bin**
- **ocma510_win_x86.exe**

These installers bundle the JRockit SDK and Sun JDK for Linux, Solaris, and Windows.

A generic installer is provided, primarily for 64-bit platforms such as HP-UX. Unlike the platform-specific installers listed above, the generic installer does not include a bundled JDK. The JDK must already be installed when you use the generic installer.

The generic installer is contained in:

- **ocma510_generic.jar**

You can run all the installers in graphical, console, or silent mode.

Silent mode is for creating duplicate installations on multiple machines without responding to prompts.

Creating an Installation Log

To create an installation log, add the following option to any of the commands that invoke the installer:

-log=*logfilename*

where *logfilename* is a name that you assign to the log file.

For example, the following command runs the console Linux32 installer and creates a log file named "install_log" containing the installation's output.

```
ocma500_linux.bin -mode=console -log=install_log
```

The Graphical Mode Installer

This section contains instructions for using the graphical installer to install Marketing and Advertising.

If you want to use the GUI-based installer, the console attached to the machine on which you are installing the software must support a Java-based GUI. All consoles for Windows systems support Java-based GUIs, but not all consoles for UNIX/Linux systems do. If you attempt to start the installation program in graphical mode on a system that cannot support a graphical display, the installation program automatically starts console-mode installation.

Graphical mode is the default mode, so it is not necessary to specify the mode on the command line to install in this mode.

Running the Graphical Installer on Windows

To run the graphical installer on Windows:

1. Log in to the Windows system.

   If you are going to use this machine as an Oracle WebLogic Administration Server and you wish to install the Node Manager as a Windows service, you must log in as an administrator. Node Manager is used to monitor, start, and stop server instances in a domain.

2. Change to the directory where you have copied the installation program downloaded from edelivery.oracle.com.

3. To start the Windows installer, double-click **ocma510_win_x86.exe** or enter the following in a command window:

   ```
   ocma510_win_x86.exe [-log=logfilename]
   ```

   After the installer, starts, the **Welcome** window appears.

   You can cancel the installation at any time by clicking **Exit**.

4. In the **Welcome** window, click **Next** to proceed with the installation.

   The **Choose Oracle Home Directory** window appears.

   The Oracle Home directory is the central support directory for all Oracle Middleware products installed on the target system.

5. Do one of the following:

   - To install into an existing Middleware home:

     a. Select **Use an existing Middleware Home**.

     b. From the list of existing Middleware home directories, select a directory.

     c. Click **Next**.

        The **Choose Products and Components** window appears.

- To create a new Middleware home:
  a. Select **Create a new Middleware Home**.
  b. In the **Middleware Home Directory** field, enter the path for the new Middleware home directory.
  c. Click **Next**.

     The **Choose Install Type** window appears.

6. Do one of the following:
   - To perform a **Typical** installation including Marketing and Advertising, Services Gatekeeper and WebLogic Server:
     a. Select **Typical**.
     b. Click **Next**.

        The **Choose Products Installation Directories** window appears.
     c. Proceed to step 7 below.
   - To perform a Custom installation of a subset of the components:
     a. Select **Custom**.
     b. Click **Next**.

        The **Choose Products and Components** window appears.
     c. Select the components to be installed.
     d. Click **Next**.

        The **JDK Selection** window appears. Select either of the bundled JDKs to be installed or identify an existing JDK on the server that meets the pre-requisites for use with Marketing and Advertising.
     e. Click **Next**.
7. In the **Product Installation Directories** fields, enter the directories in which you want to install Marketing and Advertising, Services Gatekeeper, and WebLogic Server software. The installer will pre populate destination directories based on the Middleware Home Directory previously specified.
8. Click **Next.**

   If you are performing a **Custom** installation on Windows, the **Install Windows Service** window appears.

   This window allows you the install the Node Manager as a Windows Service. The Node Manager Service allows you to stop and start Managed Servers remotely.
9. In the **Install Windows Service** window, do one of the following:
   - To install the Node Manager as a Windows Service:
     a. Choose **Yes**.
     b. In the **Node Manager Listen Port** field, enter a Node Manager listen port.
   - To skip installing the Node Manager as a Windows Service, choose **No**.
10. Click **Next**.

    If you are installing on Windows, the **Choose Shortcut Location** window appears.

This window lets you specify the **Start** menu folder for the Marketing and Advertising Start menu shortcuts.

11. Do one of the following:
    - To provides all users registered on the machine with access to the installed software, choose **All Users Start Menu folder**.

      Only users with administrator privileges can create shortcuts in the **All Users** folder. Therefore, if a user without administrator privileges uses the configuration wizard to create domains, **Start** menu shortcuts to the domains are not created. In this case, users can manually create shortcuts in their local **Start** menu folders, if desired.
    - To ensure that other users registered on this machine will not have access to the Start menu entries for this installation, choose **Local user's Start Menu folder**.
12. Click **Next**.

    The **Installation Summary** window appears.
13. Make sure that the installation summary reflects all the products and JDKs that you have chosen to install.

    If the list is not correct, you can use the **Previous** button to navigate back to make corrections.
14. Click **Next** to start the installation.

    A progress bar indicates the status of the installation process.
15. When the **Installation Complete** window appears, do one of the following:
    - On Windows, you have the option of running **QuickStart** now to configure domains. If you want to do this:
      a. Check the **Run Quickstart** checkbox.

         The installer exits.

         The **QuickStart** menu appears.
      b. Choose an action from the **Quick Start** menu. For information on configuring domains, see Chapter 5, "Configuring the Domain for Oracle Communications Marketing and Advertising."
    - If do not want to run **QuickStart** now:
      a. Clear the **Run Quickstart** checkbox.
      b. Click **Done**.

         The installer exits.

Running the Graphical Installer on UNIX/Linux

To run the graphical installer on UNIX/Linux:

1. Log into the target UNIX system.
2. Change to the directory where you have copied the installation program.

   Marketing and Advertising can be obtained via download from the Oracle eDelivery website.

3. Change the mode of the installation program file to executable if it is not already set.
4. To start the UNIX installer, do one of the following:
   - To start the Linux32 installer, enter (specify the log option to generate an installation log):

     ```
     ./ocma510_linux_x86.bin [-log=logfilename]
     ```

   - To start the Solaris_Sparc32 installer, enter:

     ```
     ./ocma510_solaris_sparc.bin [-log=logfilename]
     ```

   After the installer, starts, the **Welcome** window appears.

   You can cancel the installation at any time by clicking **Exit**.
5. In the **Welcome** window, click **Next** to proceed with the installation.

   The **Choose Oracle Home Directory** window appears.

   The Oracle Home directory is the central support directory for all Oracle middleware products installed on the target system.
6. Do one of the following:
   - To install into an existing Middleware home:
     a. Select **Use an existing Middleware Home**.
     b. From the list of existing Middleware home directories, select a directory.
     c. Click **Next**.

        The **Choose Install Type** window appears.
   - To create a new Middleware home:
     a. Select **Create a new Middleware Home**.
     b. In the **Middleware Home Directory** field, enter the path for the new Middleware home directory.
     c. Click **Next**.

        The **Choose Install Type** window appears.
7. Do one of the following:
   - To perform a **Typical** installation including Marketing and Advertising, Services Gatekeeper and WebLogic Server:
     a. Select **Typical**.
     b. Click **Next**.

        The **Choose Products Installation Directories** window appears.
     c. Proceed to step 8 below.
   - To perform a Custom installation of a subset of the components:
     a. Select **Custom**.
     b. Click **Next**.

        The **Choose Products and Components** window appears.
     c. Select the components to be installed.

d. Click **Next**.

   The **JDK Selection** window appears. Select either of the bundled JDKs to be installed or identify an existing JDK on the server that meets the pre-requisites for use with Marketing and Advertising.

e. Click **Next**.

   The **Choose Product Installation Directories** window appears

8. In the **Product Installation Directories** fields, enter the directories in which you want to install Marketing and Advertising, Services Gatekeeper, and WebLogic Server software. The installer will pre populate suggested target installation directories based on the Middleware Home directory specified.
9. Click **Next**.

   The **Installation Summary** window appears.
10. Make sure that the installation summary reflects all the products and JDKs that you have chosen to install.

    If the list is not correct, you can use the **Previous** button to navigate back to make corrections.
11. Click **Next** to start the installation.

    A progress bar indicates the status of the installation process.
12. When the **Installation Complete** window appears, click **Done**.

    The installer exits.

Running the Graphical Generic Installer

To run the graphical installer on UNIX/Linux:

1. Log into the target system.
2. If you are installing on a 64-bit system, ensure that a 64-bit JDK or a hybrid 32/64-bit JDK is installed on the target machine.

   If it is not installed, install one. See the Certification Matrix for information about supported JDK versions.
3. Run the `java -version` command, or `java -d64 -version` command on platforms using a 32/64-bit hybrid JDK to ensure that the JAVA_HOME variable is set to a 64- bit JDK.

   If JAVA_HOME is not correctly set, set it to point to the correct JDK.
4. Add the **bin** directory of the appropriate JDK (which you have installed separately) to the beginning of the PATH variable definition on the target system. For example:

   ```
   PATH=$JAVA_HOME/bin:$PATH
   export PATH
   ```

   Here JAVA_HOME represents the full path to the JDK directory.
5. Change to the directory where you downloaded the installation program.
6. To start the generic installer, do one of the following:

- To start the generic installer on a system that uses a 32/64-bit hybrid JDK, such as the HP-PA, HPIA, and Solaris64 platforms, enter (specify the log option to produce an installation log):

  ```
  java -d64 -jar ocma510_generic.jar [-log=logfilename]
  ```

- To start the generic installer on a system that uses the Solaris_SPARC 64-bit JDK, enter:

  ```
  java -Xmx1024m -jar ocma510_generic.jar [-log=logfilename]
  ```

- To start the generic installer on a 32-bit system, enter:

  ```
  java -jar ocma510_generic.jar [-log=logfilename]
  ```

  After the installer, starts, the **Welcome** window appears.

  You can cancel the installation at any time by clicking **Exit**.

7. In the **Welcome** window, click **Next** to proceed with the installation.

   The **Choose Oracle Home Directory** window appears.

   The Oracle Home directory is the central support directory for all Oracle middleware products installed on the target system.

8. Do one of the following:

   - To install into an existing Middleware home:

     a. Select **Use an existing Middleware Home**.

     b. From the list of existing Middleware home directories, select a directory.

     c. Click **Next**.

        The **Choose Install Type** window appears.

   - To create a new Middleware home:

     a. Select **Create a new Middleware Home**.

     b. In the **Middleware Home Directory** field, enter the path for the new Middleware home directory.

     c. Click **Next**.

   The **Choose Install Type** window appears.

9. Do one of the following:

   - To perform a **Typical** installation including Marketing and Advertising, Services Gatekeeper and WebLogic Server

     a. Select **Typical**.

     b. Click **Next**.

        The **JDK Selection** window appears.

     c. Select the Local JDK installed on the target machine for use with Oracle Communications Marketing and Advertising.

     d. Click **Next**.

        The **Choose Product Installation Directories** window appears

     e. Proceed to step 10 below.

   - To perform a Custom installation of a subset of the components:

a. Select **Custom**.

b. Click **Next**.

   The **Choose Products and Components** window appears.

c. Select the components to be installed.

d. Click **Next**.

   The **JDK Selection** window appears. Select an existing JDK on the server that meets the prerequisites for use with Marketing and Advertising.

e. Click **Next**.

   The **Choose Product Installation Directories** window appears

10. In the **Product Installation Directories** fields, enter the directories in which you want to install Marketing and Advertising, Services Gatekeeper, and WebLogic Server software. The installer will pre populate suggested target installation directories based on the Middleware Home directory specified.
11. Click **Next**.

    The **Installation Summary** window appears.
12. Make sure that the installation summary reflects all the products that you have chosen to install.

    If the list is not correct, you can use the **Previous** button to navigate back to make corrections.
13. Click **Next** to start the installation.

    A progress bar indicates the status of the installation process.
14. When the **Installation Complete** window appears, click **Done**.

    The installer exits.
15. After installation is complete, set the WL_HOME variable to the directory in the product installation directory that you indicated for WebLogic Server in step 10.
16. Export WL_HOME. For example:

```
export WL_HOME=your_installation_directory/wlserver_10.3
cd $WL_HOME/server/native/hpux11/IPF32/
```

The Console Installer

This section contains instructions for using the console installer to install Marketing and Advertising.

Running the Console Installer on Windows

To run the console installer on Windows:

1. Log in to the target system.
2. Change to the directory where you have copied the installation program.

   The Marketing and Advertising installer can be downloaded from Oracle's eDelivery website.
3. To start the Windows installer in console mode, enter the following command line (or double-click the installer icon):

```
ocma510_win.exe -mode=console [-log=logfilename]
```

The Welcome prompt appears in the console.

4. Enter `Next`.
5. Press `Enter to continue with the installation`.
6. At the **Oracle Home Directory** prompt, if you have any existing Middleware home directories they are displayed. Do one of the following:
   - To use an existing Middleware Home directory:
     a. Enter the number associated with the directory in the console display.
     b. Press `Enter`.
   - To create a new Middleware Home directory:
     a. Enter 1.
     b. Press `Enter`.
     c. Enter the full path of the new Middleware Home directory or `Next` to accept the default.
     d. When prompted to confirm your choice, press `Enter` to confirm or 1 or 2 to change your selection.
7. At the **Choose Install Type** prompt do one of the following:
   - To perform a **Typical** installation including Marketing and Advertising, Services Gatekeeper and WebLogic Server
     a. Enter 1.
     b. Press Enter.

        The **Product Installation Directories** prompt appears. The Marketing and Advertising installer pre populates target directories based on the previously specified Middleware Home Directory.
     c. Proceed to step 8 below.
   - To perform a Custom installation of the components:
     a. Enter **2**.
     b. Press `Enter`

        The **Choose Products and Components** prompt appears.
     c. To remove components from the planned installation, enter the number in brackets following any components that you do not wish to install. The screen refreshes and the check mark next to that component is removed.
     d. Enter Next
     e. Press Enter

        The **JDK Selection** prompt appears. Select either of the bundled JDKs to be installed or identify an existing JDK on the server that meets the prerequisites for use with Marketing and Advertising.
     f. Enter Next when the JDK selection has been finalized.
     g. Press `Enter`.

The **Choose Product Installation Directories** prompt appears. The Marketing and Advertising installer pre populates target directories based on the previously specified Middleware Home Directory

8. In the **Choose Product Directories** screen, specify the directories in which you want to install Marketing and Advertising, Services Gatekeeper, and WebLogic software. Do one of the following:
   - To accept the default product directories, enter `Next`.
   - To create one or more new product directories, for each directory you are creating:
     a. Enter the product index number to specify the product to be installed in the directory.
     b. Enter the full path to the directory you are creating.
     c. Enter `Next`.
     d. When prompted, confirm your choice.
9. In the Install Node Manager as a Windows Service prompt (shown for Custom installation), do one of the following:
   - To install the Node Manager as a Windows Service:
     a. Enter `1 for Yes`.
     b. Enter a Node Manager listen port at the prompt.
   - To skip installing the Node Manager as a Windows Service, enter `2 for No`.
10. Enter `Next`.
11. The Windows installer displays the Choose Shortcut Location screen if you have administrator privileges and are performing an initial Marketing and Advertising installation. This screen is used to specify the Start menu folder for the Marketing and Advertising Start menu shortcuts.

    Do one of the following:
    - Enter 1 to select the All Users Start menu folder.

      Only users with administrator privileges can create shortcuts in the **All Users** folder. Therefore, if a user without administrator privileges uses the configuration wizard to create domains, **Start** menu shortcuts to the domains are not created. In this case, users can manually create shortcuts in their local **Start** menu folders, if desired
    - Enter 2 to select the Local user's **Start** menu folder.

      This option ensures that other users registered on this machine will not have access to the **Start** menu entries for this installation.
12. When prompted, confirm your choice.
13. Enter `Next` to continue.
14. In the Installation Summary window, make sure the list reflects all the products and JDKs you have chosen to install.
15. Enter `Next` to begin the installation.
16. When the installation is complete, press `Enter` to exit the installer.

Running the Console Installer on UNIX/Linux

To run the console-based installer on UNIX/Linux:

1. Log into the target system.
2. Change to the directory where you have copied the installation program.

   The Marketing and Advertising installer can be downloaded from Oracle's eDelivery website.
3. To start the installer in console mode, do one of the following (specify the log option to generate an installation log:
   - To start the Linux32 installer, enter:

     ```
     ./ocma510_linux_x86.bin -mode=console [-log=logfilename]
     ```

   - To start the Solaris_Sparc32 installer, enter:

     ```
     ./ocma510_solaris_sparc.bin -mode=console [-log=logfilename]
     ```

The Welcome screen appears in the console.

4. Enter `Next` to continue with the installation.
5. In the **Oracle Home Directory** screen, if you have any existing Middleware home directories they are displayed. Do one of the following:
   - To use an existing Middleware Home directory:
     a. Enter the number associated with the directory in the console display.
     b. Press `Enter`.
   - To create a new Middleware Home directory:
     a. Enter 1.
     b. Press `Enter`.
     c. Enter the full path of the new MIddleware Home directory or `Next` to accept the default.
     d. When prompted to confirm your choice, press `Enter` to confirm or 1 or 2 to change your selection.
6. At the **Choose Install Type** prompt do one of the following:
   - To perform a **Typical** installation including Marketing and Advertising, Services Gatekeeper and WebLogic Server
     a. Enter 1.
     b. Press Enter.

        The **Product Installation Directories** prompt appears. The Marketing and Advertising installer pre populates target directories based on the previously specified Middleware Home Directory.
     c. Proceed to step 7 below.
   - To perform a Custom installation of the components:
     a. Enter **2**.
     b. Press `Enter`

        The **Choose Products and Components** prompt appears.

c. To remove components from the planned installation, enter the number in brackets following any components that you do not wish to install. The screen refreshes and the check mark next to that component is removed.

d. Enter Next

e. Press Enter

The **JDK Selection** prompt appears. Select either of the bundled JDKs to be installed or identify an existing JDK on the server that meets the pre-requisites for use with Marketing and Advertising.

f. Enter Next when the JDK selection has been finalized.

g. Press `Enter`.

The **Choose Product Installation Directories** prompt appears. The Marketing and Advertising installer pre populates target directories based on the previously specified Middleware Home Directory

7. At the **Choose Product Installation Directories** prompt, specify the directories in which you want to install Marketing and Advertising, Services Gatekeeper, and WebLogic software. Do one of the following:
   - To accept the default product directories, enter `Next`.
   - To create one or more new product directories, for each directory you are creating:
     a. Enter the product index number to specify the product to be installed in the directory.
     b. Enter the full path to the directory you are creating.
     c. Enter `Next`.
     d. When prompted, confirm your choice.
8. Enter `Next`.
9. In the Installation Summary window, make sure the list reflects all the products and JDKs you have chosen to install.
10. Enter `Next` to begin the installation.
11. When the installation is complete, press `Enter` to exit the installer.

Running the Generic Console Installer

To run the generic console installer:

1. Log into the target system.
2. If you are installing on a 64-bit system, ensure that a 64-bit JDK, or a hybrid 32/64-bit hybrid JDK, is installed on the target machine.

   If it is not installed, install one. See the certification matrix in Certification Matrix for information about supported JDK versions.
3. Run the `java -version` command, or `java -d64 -version` command on platforms using a 32/64-bit hybrid JDK to ensure that the JAVA_HOME variable is set to a 64- bit JDK.

   If JAVA_HOME is not correctly set, set it to point to the correct JDK.

4. Add the **bin** directory of the appropriate JDK (which you have installed separately) to the beginning of the PATH variable definition on the target system. For example:

   ```
   PATH=$1.5 GB1.5 GBJAVA_HOME/bin:$PATH
   export PATH
   ```

   Here JAVA_HOME represents the full path to the JDK directory.

5. Change to the directory where you downloaded the installation program.

6. To start the generic installer in console mode, do one of the following (specify the log option to produce an installation log):

   - To start the 32-bit generic installer, enter:

     ```
     java -jar ocma510_generic.jar -mode=console [-log=logfilename]
     ```

   - To start the 32/64-bit hybrid generic installer, enter:

     ```
     java -d64 -jar ocma510_generic.jar -mode=console [-log=logfilename]
     ```

   - To start the 64-bit hybrid generic installer on Solaris-SPARC, enter:

     ```
     java -Xmx1024m -jar ocma510_generic.jar -mode=console [-log=logfilename]
     ```

   The Welcome screen appears in the console.

7. Enter `Next` to continue with the installation.

8. In the **Oracle Home Directory** screen, if you have any existing Middleware home directories they are displayed. Do one of the following:

   - To use an existing Middleware Home directory:
     a. Enter the number associated with the directory in the console display.
     b. Press `Enter`.
   - To create a new Middleware Home directory:
     a. Enter 1.
     b. Press `Enter`.
     c. Enter the full path of the new MIddleware Home directory or `Next` to accept the default.
     d. When prompted to confirm your choice, press `Enter` to confirm or 1 or 2 to change your selection.

9. At the **Choose Install Type** prompt do one of the following:

   - To perform a **Typical** installation including Marketing and Advertising, Services Gatekeeper and WebLogic Server
     a. Enter 1.
     b. Press Enter.

        The **JDK Selection** prompt appears. Select either of the bundled JDKs to be installed or identify an existing JDK on the server that meets the pre-requisites for use with Marketing and Advertising.
     c. Press Enter.

The **Choose Product Installation Directories** prompt appears. The Marketing and Advertising installer pre populates target directories based on the previously specified Middleware Home Directory.

d. Proceed to step 10 below.

- To perform a Custom installation of the components:

a. Enter **2**.

b. Press `Enter`

The **Choose Products and Components** prompt appears.

c. To remove components from the planned installation, enter the number in brackets following any components that you do not wish to install. The screen refreshes and the check mark next to that component is removed.

d. Enter Next

e. Press Enter

The **JDK Selection** prompt appears. Select either of the bundled JDKs to be installed or identify an existing JDK on the server that meets the prerequisites for use with Marketing and Advertising.

f. Enter Next when the JDK selection has been finalized.

g. Press `Enter`.

The **Choose Product Installation Directories** prompt appears. The Marketing and Advertising installer pre populates target directories based on the previously specified Middleware Home Directory.

10. At the **Choose Product Installation Directories** prompt, specify the directories in which you want to install Marketing and Advertising, Services Gatekeeper, and WebLogic software. Do one of the following:

- To accept the default product directories, enter `Next`.
- To create one or more new product directories, for each directory you are creating:

a. Enter the product index number to specify the product to be installed in the directory.

b. Enter the full path to the directory you are creating.

c. Enter `Next`.

d. When prompted, confirm your choice.

11. Enter `Next`.

12. In the Installation Summary window, make sure the list reflects all the products and JDKs you have chosen to install.

13. Enter `Next` to begin the installation.

14. When the installation is complete, press `Enter` to exit the installer.

15. After installation is complete, set the WL_HOME variable to the product installation directory that you designated for WebLogic Server.

16. Export WL_HOME. For example:

```
export WL_HOME=your_installation_directory/wlserver_10.3
cd $WL_HOME/server/native/hpux11/IPF32/
```

The Silent Installer

This section contains instructions for using the silent installer to install Marketing and Advertising.

Silent-mode installation is a way of choosing installation settings once and then using those settings to duplicate the installation on many machines. During installation in silent mode, the installation program reads your settings from an XML file named **silent.xml** that you create prior to beginning the installation. The installation program does not display any options during the installation process. Silent-mode installation works on all supported platforms.

For general information on silent-mode installation, on WebLogic Server see "Running the Installation Program in Silent Mode" in *Oracle Fusion Middleware Installation Guide for Oracle WebLogic Server* at:

http://download.oracle.com/docs/cd/E15523_01/doc.1111/e14142/silent.htm

About the silent.xml file

The entries in the **silent.xml** file correspond to the prompts that you would see if you used one of the interactive modes.

Incorrect entries in the **silent.xml** file can cause installation failures. To help you determine the cause of a failure, we recommend that you create a log file when you start the installation.

The following is a sample version of a **silent.xml** file. Your input may be slightly different, depending on your installation.

```
<?xml version="1.0" encoding="UTF-8" ?>
<bea-installer>
<input-fields>
  <data-value name="BEAHOME" value="d:/ocsg" />
  <data-value name="INSTALL_NODE_MANAGER_SERVICE" value="no" />
  <data-value name="LOCAL_JVMS" value="C:\oracle\java\jdk160_18">
  </input-fields>
</bea-installer>
```

The following error can be ignored:

```
com.bea.plateng.domain.script.ScriptException: The template to read must be a jar
file containing a valid domain configuration
```

See the *Oracle WebLogic Server Installation Guide* for more information about the silent installer.

Returning Exit Codes to the Console

When run in silent mode, the installation program generates exit codes that indicate the success or failure of the installation. Table 4–1 shows these exit codes.

Table 4–1 Installation Program Exit Codes

Code	Description
0	Installation completed successfully
-1	Installation failed due to a fatal error

Table 4–1 (Cont.) Installation Program Exit Codes

Code	Description
-2	Installation failed due to an internal XML parsing error

If you are launching the silent-mode installation process from a script, you can choose to have these exit codes displayed to the console. The following is a sample command file that invokes the WebLogic Platform installation in silent mode and echoes the exit codes to the console from which the script is executed.

Example 4–1 Return exit codes

```
rem Execute the installer in silent mode
@echo off
ocma500_win.exe -mode=silent  -silent_xml=silent.xml -log=logfilename

@rem Return an exit code to indicate success or failure of installation
set exit_code=%ERRORLEVEL%

@echo.
@echo Exitcode=%exit_code%
@echo.
@echo Exit Code Key
@echo ---------------
@echo  0=Installation completed successfully
@echo -1=Installation failed due to a fatal error
@echo -2=Installation failed due to an internal XML parsing error
@echo.
```

Running the Silent Mode Installer on All Platforms

To run the silent mode installer:

1. Create a **silent.xml** file, as described in About the silent.xml file.
2. To run the silent installer, do one of the following:
   - To start the platform-specific Windows32 installer in silent mode, enter:

     ```
     ocma510_win_x86.exe -mode=silent -silent_xml=silent.xml [-log=logfilename]
     ```

   - To start the platform-specific Linux32 installer in silent mode, enter:

     ```
     ocma510_linux_x86.bin -mode=silent -silent_xml=silent.xml
     [-log=logfilename]
     ```

   - To start the platform-specific Solaris-Sparc32 installer in silent mode, enter:

     ```
     ocma510_solaris_sparc.bin -mode=silent -silent_xml=silent.xml
     [-log=logfilename]
     ```

   - To start the generic 32-bit installer in silent mode, enter:

     ```
     java -jar ocma510_generic.jar -mode=silent -silent_xml=silent.xml
     [-log=logfilename]
     ```

   - To start the generic 32/64 -bit hybrid installer in silent mode, enter:

     ```
     java -d64 -jar ocma510_generic.jar -mode=silent -silent_xml=silent.xml
     [-log=logfilename]
     ```

- To start the generic /64 -bit hybrid installer in silent mode, enter:

  ```
  java -Xmx1024m -jar ocma510_generic.jar -mode=silent -silent_xml=silent.xml
  [-log=logfilename]
  ```

The installation proceeds with no prompts.

Where to Go From Here

After installing Marketing and Advertising, you must configure the Administrative Domain. See Chapter 5, "Configuring the Domain for Oracle Communications Marketing and Advertising.".

If you wish to be able to start and stop servers remotely, for example by using the Administration Console, you must set up Node Manager on each server. The software for Node Manager is automatically installed along with WebLogic Server software when you use any of the installation methods. See *Oracle® Fusion Middleware Node Manager Administrator's Guide for Oracle WebLogic Server*, at

`http://download.oracle.com/docs/cd/E15523_01/web.1111/e13740/toc.htm`

for more information on setting up and configuring Node Manager.

5

Configuring the Domain for Oracle Communications Marketing and Advertising

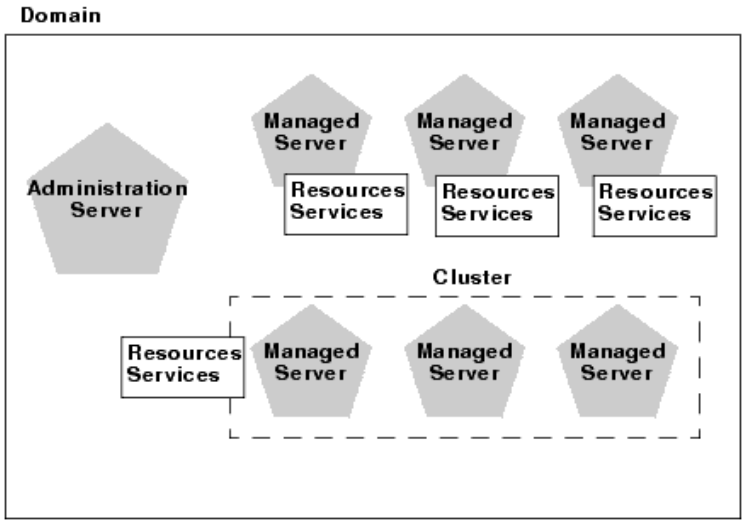
This chapter describes how to set up Oracle WebLogic Server for use with Oracle Communications Marketing and Advertising. It covers:

Domain Overview

To run Marketing and Advertising, its container, which is WebLogic Server, must be configured with basic information about the various parts of the system. This is called configuring the domain.

A domain is the basic administrative unit in WebLogic Server. It consists of an administration server and usually one or more managed servers, which may be associated into clusters.

Figure 5–1 Oracle WebLogic Domains

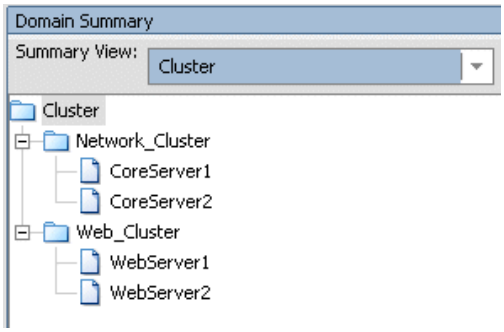


The Administration Server provides a central point for managing the domain and providing access to the WebLogic Server administration tools.

Normally in a production environment, the Administration Server runs on a separate machine from the managed servers, as indicated in Figure 5–1. However, it is possible to use a single WebLogic Server instance as both the Administration Server and a Managed Server, depending on the needs of the installation. For example, at certain stages of testing, developers commonly might run both the Administration and Managed Servers on a single machine.

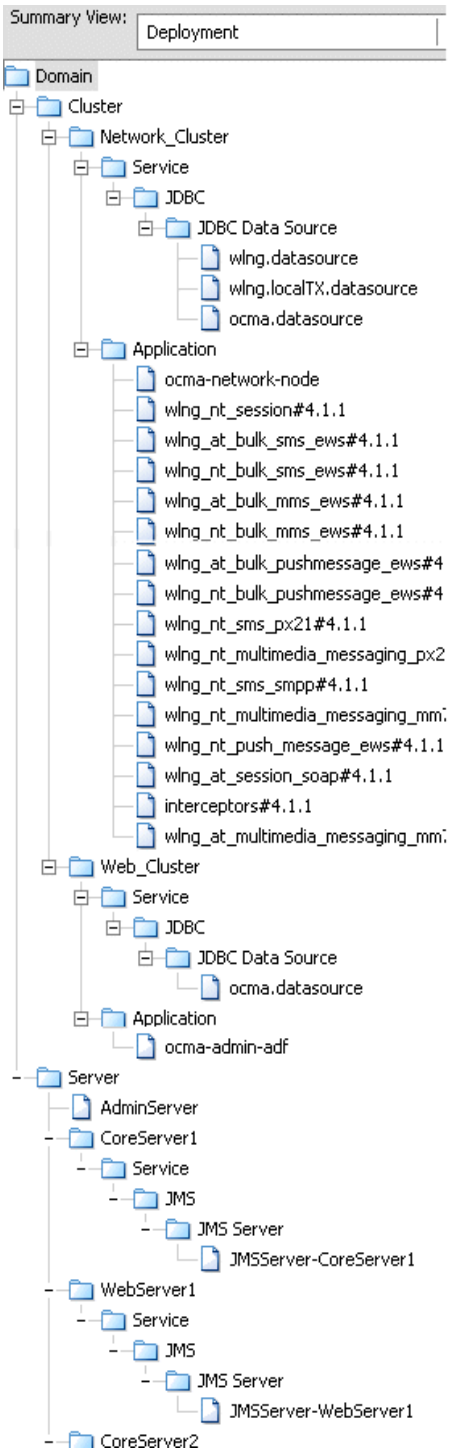
Managed Servers are often grouped together into clusters. Clusters are groups of server instances that work together to provide scalability and high availability. Clusters improve performance and provide failover should a server instance become unavailable. To the client, a cluster appears as a single WebLogic Server instance.

Figure 5–2 Initial server instances added to clusters



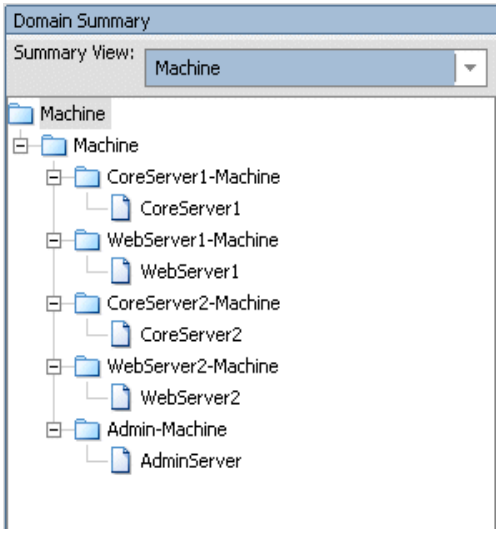
Managed Servers, or the clusters into which they are linked - in this case, Marketing and Advertising components and resources - are also deployed and managed as part of the domain. Figure 5–3 shows the applications, for example, interceptors, assigned per cluster (Network_Cluster). But each server must have its own JMS resources, so they are shown per server.

Figure 5–3 Managed servers/clusters host applications and resources



Each server instance is also assigned to a machine, a logical representation of actual hardware. The machine representation is used by the Administration Server to start and stop remote servers using the Node Manager. Multiple server instances can run in a single machine.

Figure 5–4 Servers are assigned to Machines



For more information on WebLogic Server domains, see *Oracle WebLogic Server Creating WebLogic Domains Using the Configuration Wizard* at

http://download.oracle.com/docs/cd/E12840_01/common/docs103/confgwiz/index.html

All servers must have their domains configured. There are two options for doing this:

- Use one of the procedures described in the following sections to configure each server in your installation manually.
- Configure the domain on the Administration Server and then use the **pack** and **unpack** commands provided by WebLogic Server to package the configuration data for copying to all the other servers. For more information on **pack** and **unpack**, see WebLogic Server Creating Templates and Domains Using the pack and unpack commands at

  http://download.oracle.com/docs/cd/E12840_01/common/docs103/pack

  The scripts themselves are located in the WLS Server **/common/bin** directory. In the default installation, this would be *MIDDLEWARE_HOME***/wlserver_10.3/common/bin**.

Preparing to Configuring Domain Settings

Before entering values in the configuration wizard, make sure you have all the required information about the database that is installed to support Marketing and Advertising and that you know which domain template to use for your setup.

Database Information Needed to Configure the Domain

The configuration wizard prompts you to enter the following information, including the details about the database underlying the Marketing and Advertising installation:

- database hostname or IP address
- database driver type (e.g. Oracle, MySQL)
- database instance name/SID
- database listener port number

- database username and password for the Marketing and Advertising and Services Gatekeeper users

These values were established when the database was installed and configured as described in Chapter 3, "Pre-Installation Tasks."

Understanding Domain Templates

You will be prompted to select one of four domain templates on which to base the Marketing and Advertising domain configuration. These templates are:

- **Oracle Communications Marketing and Advertising Basic colocated configuration]**

  Creates an all-in-one domain, with the core, web, and the administration server all on a single machine. This configuration is common for development and testing machines.

- **Oracle Communications Marketing and Advertising Cluster Domain with separated Core and Web Clusters**

  Creates a basic distributed domain, with a two instance core cluster and a two instance web clusters. This configuration can be expanded after the initial setup.

- **Oracle Communications Marketing and Advertising Cluster Domain with Oracle RAC Configuration and separated Core and Web Clusters**

  Creates a basic distributed domain, with a two instance core cluster and a two instance web clusters. This configuration can be expanded after the initial setup. It also creates the additional datasources required for use with an Oracle RAC based installation.

- **Oracle Communications Marketing and Advertising Basic HA configuration**

  Creates a basic domain with two servers, each with a web and a core instance sharing a single database. This configuration can be expanded after the initial setup.

Configuring a Domain With the Graphical Mode Configuration Wizard

The following instructions explain how to use the Marketing and Advertising GUI-based Configuration Wizard to configure WebLogic Server for Marketing and Advertising.

To do so, the console attached to the domain configuration system must support a Java-based GUI. All consoles for Windows systems support Java-based GUIs, but not all consoles for UNIX/Linux systems do. If you attempt to start the configuration program in graphical mode on a system that cannot support a graphical display, the configuration program automatically starts console-mode installation.

Configuring a Domain with the GUI Configuration Wizard - Windows

You can start the Configuration Wizard in graphical mode from either the Windows Start menu or from the command line.

- To start the GUI Configuration Wizard from the Windows Start menu, choose the Configuration Wizard option from the Marketing and Advertising program group in the Windows Start Menu:

  ```
  Start->Programs->Oracle Communications Marketing and Advertising 5.1.0 ->
  Oracle Communications Marketing and Advertising ->Tools->Configuration Wizard
  ```

See the Configuring Domain Settings section for details on how to fill in the domain settings.

- To start the GUI Configuration Wizard from the command line:
  1. Log in to the target system
  2. Open a command prompt window
  3. Go to the Middlware_Home WebLogic **\common\bin** subdirectory. For example:

     `cd c:\`*Middleware_Home*`\wlserver_10.3\common\bin`
  4. At the prompt, type **config** and press **Enter**.
  5. The Configuration Wizard starts in graphical mode and the **Welcome** screen appears. See the Configuring Domain Settings section for details on how to fill in the domain settings. You can also use Windows Explorer to find the **config.cmd** file in **c:***Middleware_Home***\wlserver_10.3\common\bin**, and simply double-click it.

Configuring a Domain with the GUI Configuration Wizard - UNIX/Linux

To start the GUI Configuration Wizard on a UNIX/Linux system:

1. Log in to the target system
2. Open a command shell window
3. Go to the **/common/bin** subdirectory. For example:

   `cd` *Oracle_Middleware_Home*`/wlserver_10.3/common/bin`
4. Invoke the following script:

   ```
   sh config.sh
   ```
5. The Configuration Wizard starts in graphical mode and the **Welcome** screen appears. See the Configuring Domain Settings section for details on how to fill in the domain settings.

Configuring Domain Settings

This section assumes that you have followed the instructions in either Configuring a Domain with the GUI Configuration Wizard - Windows or Configuring a Domain with the GUI Configuration Wizard - UNIX/Linux and launched the GUI Configuration Wizard and have the **Welcome** screen. The GUI Configuration Wizard screens prompt you to enter specific information about your system and configuration. For instructions on responding to the prompts during installation, see the following sections.

To complete this section you need the name of the database name, database instance name, any listening port numbers, and the name and password of the Marketing and Advertising and Services Gatekeeper database users to use.

Welcome Screen - Create or Update a Weblogic Domain

1. Do one of the following:
   - Select the **Create a new Weblogic domain** ratio button to create a new domain.

- Select the **Extend an existing Weblogic domain** to extend an existing domain with additional components.

2. Click **Next** to proceed with the installation.

   You may cancel the installation at any time by clicking **Exit** and you may go back to a previous window by clicking **Previous**.

Select Domain Source Screen

1. Select the **Generate a domain configured automatically to support the following products** radio button. This option offers you these standard options for pre-configured domains based on popular products and options:

   - **Oracle Communications Marketing and Advertising Basic colocated configuration]**
   - **Oracle Communications Marketing and Advertising Cluster Domain with separated Core and Web Clusters**
   - **Oracle Communications Marketing and Advertising Cluster Domain with Oracle RAC Configuration and separated Core and Web Clusters**
   - **Oracle Communications Marketing and Advertising Basic HA configuration**

   See Understanding Domain Templatesfor additional information. Select the appropriate template depending on your needs.

Specify Domain Name and Location Screen

1. Accept the default domain name or create a new name in the **Domain Name** text box.
2. Accept the default domain location or click the **Browse** button to change the location.
3. Click **Next** to save your changes and continue.

Configure Administrator User Name and Password Screen

1. Specify the main Administrative user in the **Name** text box.

   This name is used to boot the Administration Server and connect to it. For setup and testing, Oracle suggests that you use `weblogic`. User names are case sensitive. Do not use commas or any characters in the following comma-separated list:

   ```
   \t, < >, #, |, &, ?, ( ), { }
   ```

2. Specify the password for the Administrative user in the **User password** text box.

   The password must contain a minimum of eight case-sensitive characters, at least one of which is not alphabetic.

3. Re-enter the password in the **Confirm user password** text box.
4. (Optional) Enter an informal description for this username in the **Description** text box.
5. Click **Next** to save your changes and continue.

Configure Server Startup Mode and JDK Screen

1. On the left side of the window, select the appropriate startup mode for your installation:

- **Development Mode**
- **Production Mode**

Note: If you select **Production Mode**, you should not enable SSL unless you have a trusted key. For more information on startup modes, see "Development vs. Production Mode Default Tuning Values" in *Oracle Fusion Middleware Performance and Tuning for Oracle WebLogic Server* at:

http://download.oracle.com/docs/cd/E15523_01/web.1111/e13814/wls_tuning.htm

2. On the right side of the window, select the **Available JDKs** radio button.
3. Highlight the appropriate JDK.
4. Click **Next** to save your changes and continue.

Configure JDBC Data Sources Screen

This screen appears if you are installing a non-RAC based instance of Marketing and Advertising.

Use this screen to specify connection information between Marketing and Advertising and Services Gatekeeper and the JDBC data sources (databases). A JDBC data source contains a pool of database connections that are created when the data source instance is created - when it is deployed or targeted, or at server startup. Applications look up a data source on the JNDI tree, and then request a connection.

1. Configure the **ocma.datasource** using the Marketing and Advertising database details and the **wlng.datasource, and wlng.localTX.datasource** entries using the Services Gatekeeper database details.

   Select the **ocma.datasource**, **wlng.datasource**, **wlng.localTX.datasources** check boxes as needed to configure these data sources simultaneously. To configure these data sources separately, make adjustments in the data source for the transactional data source.

   Typically, fields you may need to edit include:

   - **Vendor**: Select the database vendor from the list; the default is **Oracle**.
   - **Driver**: Select the driver for your database type from the list; the default is Oracle's Driver (Thin) for Instance connections. Non-RAC domains need to use the **non-XA** thin driver for **wlng.localTX.datasource**.
   - **Username**: Either the Marketing and Advertising (for **ocma.datasource**) or Services Gatekeeper (for **wlng.datasource** and **wlng.localTX.datasource**) user name you created when you installed the database. The default is **SETME_DBUSER**.
   - **Password**: The respective Marketing and Advertising and Services Gatekeeper passwords you created when you installed the database (it is not be echoed on the screen).
   - **DBMS/Service**: Enter the respective name(s) of the database(s) you noted in Database Information to Record; the default is **DATABASENAME**.
   - **Host Name:** Where the database(s) is/are located; the default is **localhost**.
   - **Port**: Enter the port number for contacting the database(s). For Oracle, the default is **1521**. For MySQL, the default is **3306**.
   - **Configure selected data sources as RAC multi data sources in the next panel.** Check this check box if you are using Real Application Cluster features.

2. Click **Next** to save your changes and continue.
3. The **Test JDBC Data Sources** screen appears and automatically tests your data source configurations.

   A green check displayed in the **Status** column indicates that the configuration is valid. A red circle and slash indicates a problem. To correct any problems, click Previous to return to the **Configure JDBC Data Sources** screen and make the necessary changes and Click **Next**. When the Test JDBC Data Sources screen reappears, click **Test Connections** to retest the configurations.
4. Click **Next** to save your changes and continue.
5. The **Test JDBC Data Sources** screen appears and automatically tests your data source configurations.

   A green check displayed in the **Status** column indicates that the configuration is valid. A red circle and slash indicates a problem. To correct any problems, click Previous to return to the **Configure JDBC Data Sources** screen and make the necessary changes and Click **Next**. When the Test JDBC Data Sources screen reappears, click **Test Connections** to retest the configurations.

(As Needed) Configure RAC Multi-Data Sources

If you checked the **Configure selected data sources as RAC multi data sources in the next panel** box in the **Configure JDBC Data Sources** screen, this screen appears next. Follow these steps to configure JDBC data sources:

1. Check the boxes next to **ocma.datasource**, **wlng.datasource** and **wlng.localTX.datasource** to configure them all at the same time or check each datasource individual as required to configure unique values.
2. Enter the service name of a database to connect to in the **Service Name** text box.
3. Enter a database user account name in the **Username** text box.
4. Enter the password for the user account password in the **Password** text box.
5. Enter the IP address or DNS name of the server that hosts the database in the **Host Name** field.
6. Enter the database name in the **Instance Name** text box. Naming schemes vary by database.
7. Enter a port on which the database listens for connection requests in the **Port** text field.
8. Click **Add** to add the data source.
9. Add as many data sources as you need. Typically only one is configured per database.
10. Click **Next** to save your changes an continue to the next screen.

Select Optional Configuration Screen

Leave these boxes unchecked to accept the default values for these options. These settings are described in the Optional Configuration Screens section.

RAC domains require that you at least configure an administration server using the Configure the Administration Server (Administration Server Screen) section

Configuration Summary Screen

Displays the domain details. Use the Summary View drop-down list to choose a category view to use. The options vary with your configuration and my include:

- Deployment
- Application
- Service
- Cluster
- Machine
- JDBC Multi Data Source
- JMS Server

Click **Create** to accept the domain details and start creating the domain.

Optional Configuration Screens

The following sections explain how to configure options for the **Optional Configuration** screens. A few of these settings are required for certain domain configurations.

Configure the Administration Server (Administration Server Screen)

1. Replace **AdminServer** with the name of your Administration Server in the **Name** text box.
2. Replace **host-admin.bea.com** with the IP address or DNS name of your Administration Server in the **Listen address** text box.
3. Replace **7001** with a port number on your Administration Server to use as a listening port. in the **Listen Port** text box.
4. (Optional) Enter a port number to use as an SSL listening port in the SSL listen port text box.
5. (Optional) check the **SSL enabled** check box to use SSL.

   Do not enable SSL unless you have a trusted key.
6. Click **Next** to save your changes and continue.

JMS Distribution Destination (Select JMS Distributed Destination Type Screen)

1. Select Uniform distribution Destination (**UDD**) or Weighted Distributed Destination (**WDD**) settings for each of your JSM system resources.

   See the screen text for more information.
2. Click **Next** to save your changes and continue.

Managed Servers, Clusters and Machines (Configure Managed Servers Screen)

Use this window to add or change connection information for Managed Servers. Each Managed Server is an instance of WebLogic Server. Some information may already be filled in.

1. Change the **Listen address** of each of your servers, based on your installation values. You can add Managed Server instances at this time. (You can also do this using the Administration Console at any time.).

Note: The `Listen address` and `Listen port` per server combination must be unique. The values for the Listen address can include alphanumeric characters, dots [.], and dashes [-] only.

2. Replace **7001** with a port number on your administration server to use as a listening port. in the **Listen Port** text box.
3. (Optional) Enter a port number to use as an SSL listening port in the SSL listen port text box.
4. (Optional) check the **SSL enabled** check box to use SSL.

   Do not enable SSL unless you have a trusted key
5. Click **Next** to save your changes and continue.
6. When finished, configure the new system by returning to the **Select Optional Configuration** screen, checking the **Deployments and Services** checkbox, and then clicking **Next**.

   The Target Deployments to Clusters or Server screen appears. See "Deployments and Services (Target Deployments to Clusters or Server Screen)" for details.

Deployments and Services (Target Deployments to Clusters or Server Screen)

1. **Assign services to servers or clusters**

   This window does not appear if you selected Create Oracle Communications Marketing and Advertising Basic Domain.

   Use this window to add any additional Managed Servers you listed in the **Configure Managed Servers** window to clusters configured in the **Configure Clusters** window. Select the appropriate cluster in the right pane, the appropriate Managed Server in the left pane, and assign them to each other by clicking the **right arrow button**.
2. **Configure Machines/Configure Unix Machines**

   Use this window to add or change information about **Machines**. In the context of WebLogic Server, a **Machine** is the logical representation of the system that hosts one or more WebLogic Server instances, for the purposes of starting and stopping remote servers using the Node Manager. In a domain, machine definitions identify a particular, physical piece of hardware and are used to associate a computer with the Managed Servers it hosts.

   For more information about the various fields, see “Configuring Machines” in *Oracle Fusion Middleware Creating Domains Using the Configuration Wizard* at:

   `http://download.oracle.com/docs/cd/E15523_01/web.1111/e14140/custom.htm`

   Click **Next** to continue.
3. **Assign Servers to Machines**

   This window does not appear if you selected Create Oracle Communications Marketing and Advertising Basic Domain

   Use this window to assign Servers (either Administration or Managed) to their appropriate Machines, if necessary. Select the appropriate Machine in the right pane and the server(s) in the left pane and assign them to each other by clicking the **right arrow button**.

   Click **Next** to continue.

RDBMS Security Store (Configure RDBMS Security Store Database Screen)

1. Select a **Database Type** from the drop-down list.
2. A driver is automatically entered in the **Driver** text box. If necessary, select another driver from the drop-down list.

   The correct Class Name for the driver is automatically filled in.
3. Enter a database session identifier in the **DBMS SID** text box.
4. Enter a database name in the **DBMS Host** text box.
5. (As needed) Replace the default port number in the **DBMS Port** text box.
6. Enter a DBMS administrator user name in the **User Name** text box.
7. Enter a password for the DBMS administrator in the **User Password** text box.
8. Confirm the password.
9. Add any required items to the **Additional Properties** text box.
10. Click **Next** to save your changes and continue.

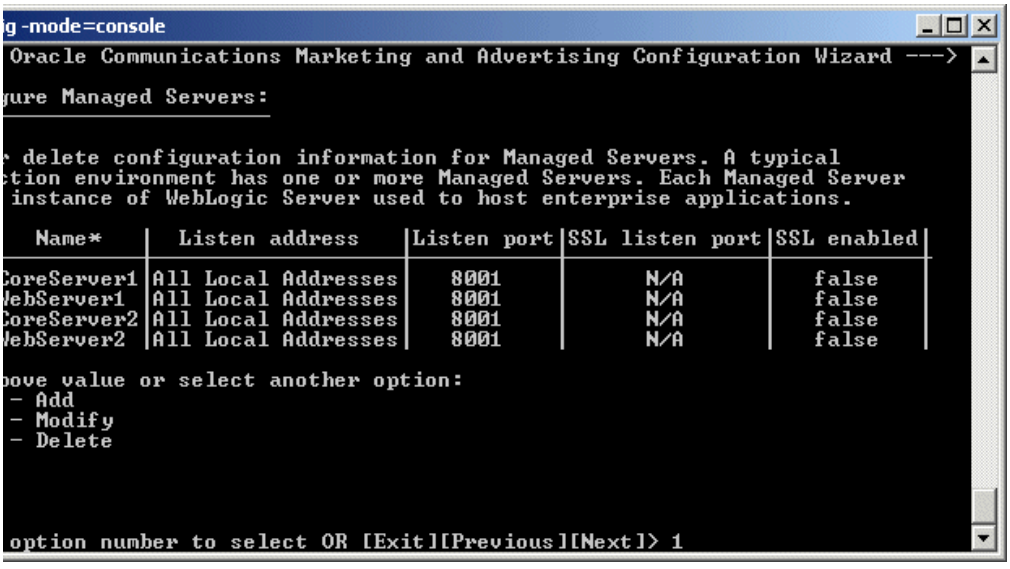
Launching the Console Configuration Wizard

You can configure Marketing and Advertising domains from the console using the console configuration wizard.

Using the Console Configuration Wizard

The console configuration wizard is designed to mimic as closely as possible the choices available in the graphical version in a completely text-based format. The following images give you a sense of the way the Console Screen displays certain types of workflow choices.

Figure 5–5 Select Options



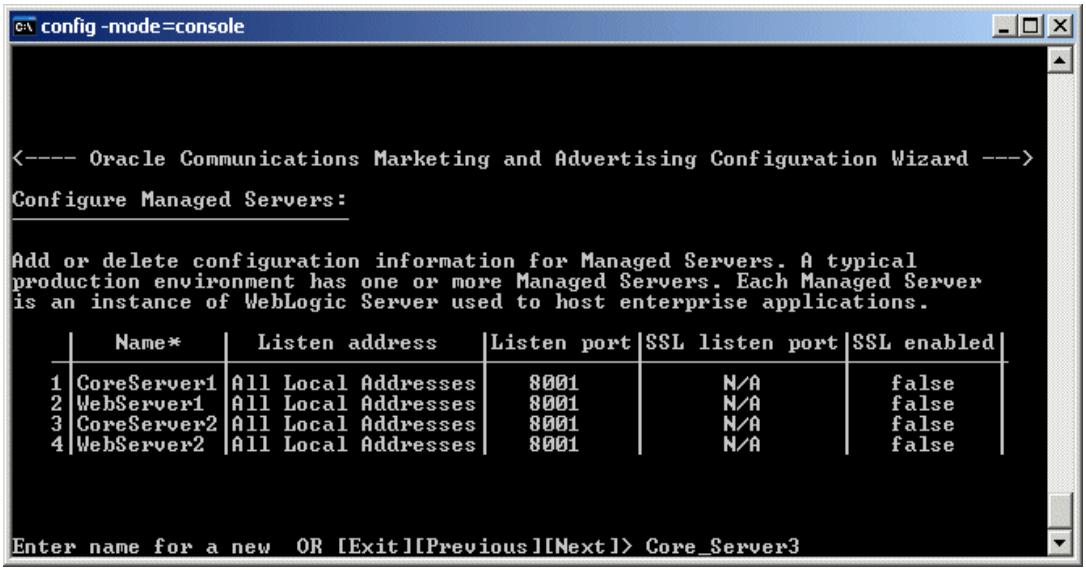
In Figure 5–5 above, the top of the current screen is marked by the Marketing and Advertising banner. The top part of the screen displays the set of configuration parameters that can be set - in this case, configuration information for Managed

Servers. The center of the screen indicates the range of options - in this case, Add a server, Modify a server, or Delete a server. The bottom part of the screen prompts for the user input that is available in this screen - in this case

```
Enter option number to select or [Exit][Previous][Next]>
```

Here the user can either enter an option (indicated by number) or choose to use one of the standard navigation commands. In this case, option `1`, Add a server, has been chosen. The entry is confirmed by pressing the Enter key:

Figure 5–6 Add a Managed Server

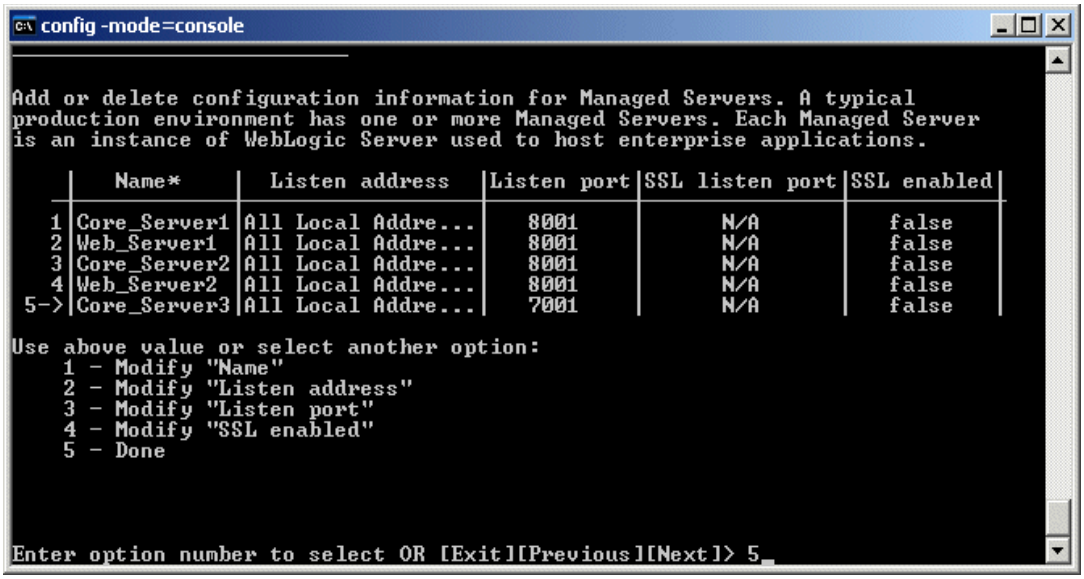


In Figure 5–6, the bottom of the screen displays the user input prompt:

```
Enter name for a new OR [Exit][Previous][Next]>
```

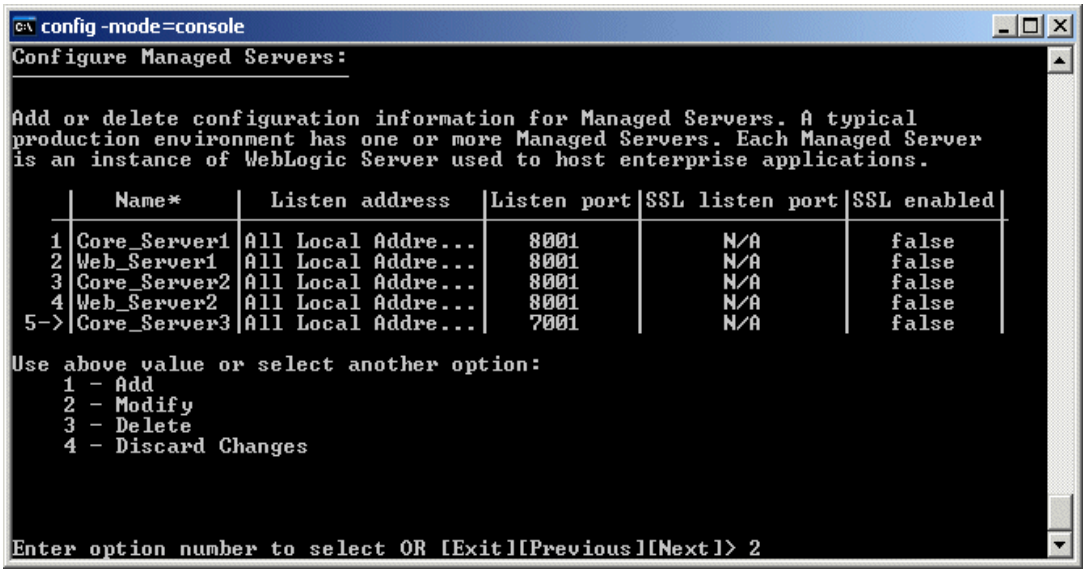
The name for the new Managed Server to be added, Core_Server3, has been filled in. Again the input is confirmed by pressing the Enter key.

Figure 5–7 Finish work on the selected item



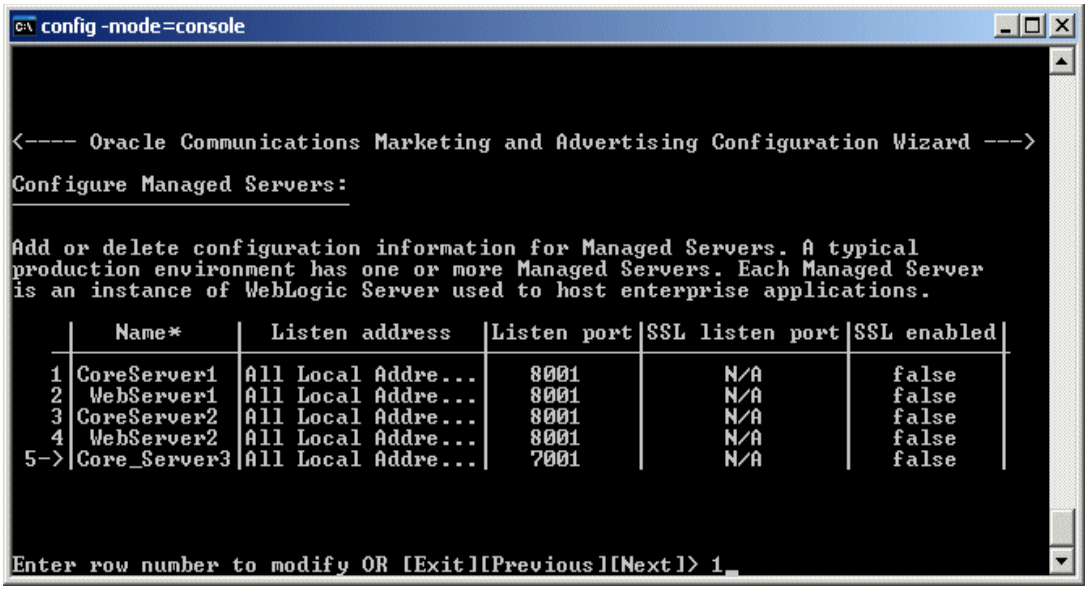
In Figure 5–7 the new Managed Server, Core_Server3, has been added. Note the right arrow (->) next to the new Server's name. This indicates that this is the selected item, and that any options chosen will affect that item. To finish with this server and select another item in the list, enter `5 - Done` and the Enter key.

Figure 5–8 Indicate your next configuration task



In Figure 5–8 the center section again presents you with work options. In this case, additional modifications need to be done. The user enters `2` for Modify and then Enter to confirm.

Figure 5–9 Select the configuration to modify



In Figure 5–9, the user input prompt asks which item needs modification. The row number of the Managed Server Core_Server3 is currently chosen. Once Enter is pressed, Core_Server1 will be the selected item.

There are a number of different options throughout the Wizard process, but in general they all follow this same pattern: the top of the screen indicates what is being configured; the center of the screen indicates the range of options; and the bottom of the screen prompts for user input.

Launching the Console Mode Configuration Wizard on Windows

To start the console configuration wizard on windows:

1. Log in to the target system.
2. Open a command prompt window.
3. Change to the **<MIDDLEWARE_HOME>\common\bin** subdirectory.
4. At the prompt, type

   ```
   config -mode=console
   ```

5. Press

   ```
   enter
   ```

   The configuration wizard starts in console mode.

See Preparing to Configuring Domain Settings and Configuring the Domain Using the Console Configuration Wizard for details on how enter the domain settings.

Launching the Console Mode Configuring Wizard on UNIX/Linux

To start the console configuration wizard:

1. Log in to the target system
2. Open a command shell window.
3. Change to the **<MIDDLEWARE_HOME>\common\bin** subdirectory.

4. Start the configuration script by typing:

   ```
   sh config.sh -mode=console
   ```

   The configuration wizard starts in console mode.

See Preparing to Configuring Domain Settings and Configuring the Domain Using the Console Configuration Wizard for details on how enter the domain settings.

Configuring the Domain Using the Console Configuration Wizard

To create your domain, respond to the prompts in each section by entering the number associated with your choice, pressing Enter, or typing next (or n) to accept the current selection. For information on the different options see the Configuring Domain Settings section. The screen names are the same for both the Graphical and Console Domain Configuration Wizards.

> **Note:** If you are going to be using any CORBA based functionality that in one way or another connects to a machine other than your own, you should not use the value "localhost" in any of your configuration choices.

The right arrow (->) indicates the value currently selected. To quit the Configuration Wizard, enter Exit in response to any prompt. To review or change your selection, enter Previous at the prompt.

Instead of typing complete words when you want to enter [Exit], [Previous], and [Next], you can use the following one-letter shortcuts: x, p, and n, respectively.

Configuring the Domain Using the Oracle WebLogic Tool Scripts

Use the following instructions if you wish to use scripts and the WebLogic Scripting Tool to configure WebLogic Server for Marketing and Advertising. The WebLogic Scripting Tool (WLST) is a command-line scripting interface that system administrators and operators can use to monitor and manage WebLogic Server instances and domains. The WLST scripting environment is based on the Java scripting interpreter, Jython. For more general information on WLST, see *Oracle WebLogic Server WebLogic Scripting Tool* at

`http://download.oracle.com/docs/cd/E12840_01/wls/docs103/config_scripting/`

> **Caution:** WLST is a powerful, flexible tool, and has a significant learning curve associated with its effective use. If you do not know how to use WLST and do not wish to spend the time to become familiar with it, consider using one of the configuration wizards to set up your domains instead.

Setting Up The Environment

You must set a number of environment variables for WLST to run properly. To simplify this, the Marketing and Advertising installer provides shell/cmd scripts that must be run before WLST is invoked. The scripts are available at MIDDLEWARE_HOME/**wlserver_10.3/server/bin**. There are both `setWLSEnv.sh` and `setWLSEnv.cmd` versions. It is usually enough simply to run the appropriate script, but some shells may require using `source`, as in:

```
source MIDDLEWARE_HOME/wlserver_10.3/server/bin/setWLSEnv.sh
```

If this does not work, you may need to change shells. There have been some issues reported with bash, particularly on HPUX machines. If you are having problems with your shell, change to an `sh` shell before running the script.

Choosing a Scripts

Marketing and Advertising provides four possible WLST scripts from which you can select. The scripts are found in these *MIDDLEWARE_HOME*/**wlserver_10.3/common/templates/scripts/wlst/** directory:

- **ocma-basic-domain.py** uses the domain template **ocma-basic-domain.jar** for its basic setup. This creates an all-in-one domain typical of development and testing environments.
- **ocma-cluster-domain.py** uses the domain template **ocma-cluster-domain.jar** for its basic setup. This creates a domain with separate Web and Core clusters.
- **ocma-cluster-rac-domain** uses the domain template **ocma-cluster-rac-domain.jar** for its basic setup. This creates a domain with separate Web and Core clusters with the additional datasources that a RAC installation requires.
- **ocma-ha-domain.py** uses the domain template **ocma-ha-domain.jar** for its basic setup. This creates a a domain with two servers, each with a Web and a Core instance and a database. Replication of the database must be set up separately.

Note: If you are configuring an HP-UX installation, you must run the script using the `-Djava.security.egd` flag. For example, you would invoke the `ocma-ha-domain.py` script by typing

```
java -Djava.security.egd=/dev/random weblogic.WLST
ocma-ha-domain.py
```

In addition, after you have used one of these scripts to create your domain, you must run an additional script, **ocma-database-setup.py**. This script populates both the Marketing and Advertising and Service Gatekeeper database[s] with the initial administrator username/password.

Editing the Scripts

You must set a few variables found at the top of the script, and, in some situations, edit a few other values. See Standard.

If you also wish to create additional servers, you must make more complex edits. See Multi-cluster with additions

Standard

If you are setting up one of the standard domains, only a few variables need to be set at the top of the script, in the section called **Configuration (INPUT) Parameters**.

Example 5–1 The Configuration (INPUT) Parameters section from ocma-cluster-domain.py

```
#===============================================================================
# Configuration (INPUT) Parameters
#===============================================================================
```

```
# listen address input parameters
# example: hostname can be DNSName or IPAddress

AdminServerListenAddress = "
AdminServerListenPort    =  7001
Core1ServerListenAddress   = ""
CoreServer1ListenPort            =  8001
CoreServer2ServerListenAddress   = ""
CoreServer2ListenPort            =  8001
Web1Server1ListenAddress   = ""
WebServer1ListenPort            =  8001
WebServer2ListenAddress   = ""
WebServer2ListenPort            =  8001

# Administrator configuration
adminName = "SETME_ADMIN"
adminPassword = "SETME_PASSWORD"

NetworkClusterAddress = ''
NetworkClusterMultiCastAddress = '237.192.0.1'
NetworkClusterMultiCastPort    = 8050
WebClusterAddress = ''
WebClusterMultiCastAddress = '237.192.0.2'
WebClusterMultiCastPort    = 8050

# ocma.datasource configuration parameters

ocmaDriver    = "SETME_DRIVER"
ocmaURL       = "SETME_URL"
ocmaUser      = "SETME_USER"
ocmaPassword  = "SETME_PASSWORD"

# wlng.datasource configuration parameters

XADriver    = "SETME_DRIVER"
XAURL       = "SETME_URL"
XAUser      = "SETME_USER"
XAPassword  = "SETME_PASSWORD"

# wlng.localTX.datasource configuration parameters

nonXADriver   = "SETME_DRIVER"
nonXAURL      = "SETME_URL"
nonXAUser     = "SETME_USER"
nonXAPassword = "SETME_PASSWORD"

# optional path to JDK home
jdkHome = ""
```

Values to Set

1. Set the Listen Address and Listen Port for the Administration Server, the two Core Servers, and the two Web Servers. The Listen Address:Port combinations must be unique:
   - Replace the ""values with either the DNSName or the IP Address of the appropriate servers.
   - Replace the Listen Port values as necessary.

2. Set the Administrative username and password.
3. Fill in the appropriate Listen Address:Port combinations to assign the servers to the appropriate clusters. The entry should be comma delimited, with no spaces.
4. Fill in the appropriate Multicast Addresses per cluster.
5. Set the appropriate URLs for each of the RAC instances (only in RAC scripts)
6. Set the appropriate values for the ocma.datasource, wlng.datasource, and wlng.localTX.datsource.
7. If you want to be able to use the Administration Console and Node Manager to start remote servers, change the `NodeManager ListenAddress` values in the Configure Managed Servers section. To do so edit the following line for each managed server:

   ```
   set('ListenAddress','localhost')
   ```

   to change localhost to the correct ListenAddress.

Multi-cluster with additions

If you want to use the WLST script to set up a multi-cluster domain and, at the same time, to add additional servers, first edit the same values as in the "Standard" case. Then edit the values described in this section. Exactly which values you need to set depends on how your particular installation is set up.

WLST in offline mode, which is the mode that Marketing and Advertising scripts use, can access and update only those configuration objects that have been previously persisted to a configuration file. All the provided WLST scripts create this configuration file automatically as they run, but each adds only those objects that are specified in the domain templates. If you need to add more configuration objects, such as additional managed servers or machines, you must add statements to the script to create them before you can configure them.

An alternative is to add servers and machines using the administration console after you set up your core domain. This is a simpler way of performing the same tasks.

Creating Machines

If you need to **add additional Machines**, create them in the script before you assign managed servers to them.

Comment Section	Code to add	Value

Configure managed servers	`cd('/')`
	`create('new_Machine_5','Machine')`
	`cd ('Machine/new_Machine_5')`
	`create('new_Machine_5','NodeManager')`
		Add as many of these statements as you need, replacing `new_Machine_5` with whatever value is appropriate

Creating Managed Servers

After you create the machine, you can assign managed servers to them. You can also add new managed servers. In the code below, the new managed server `Core_Server3` is created and then assigned to `new_Machine_5`, created above.

Comment Section	Statement to edit	Value

Configure managed servers	`cd('/')`
	`create('Core_Server3', 'Server')`
	`cd ('Server/Core_Server3')`
	`set('ListenPort', 8001)`
	`set('ListenAddress', 'myserver5')`
	`set('Machine','new_Machine_5')`
		Create new servers as needed, and set the ListenAddress

Setting NodeManager Listen Address

You must also add a section to configure any new machine (and its Node Manager) being added.

Comment Section	Statement to add	Value

Configure managed servers	`cd('/')`
	`cd('Machine/new_Machine_5')`
	`set('Name','new_Machine_5')`
	`set('Address','new_Machine_5')`
	`cd('NodeManager/new_Machine_5')`
	`set('ListenAddress','myserver5')`
	`set('ListenPort',5556)`
		One section per added Machine.

Assigning New Managed Servers to the appropriate cluster

You must assign any newly-created managed servers to their appropriate cluster by adding an "assign server" line.

Comment Section	Statement to add	Value

Configure a cluster and assign the Managed Servers to that cluster.	`cd('/')`
	`[standard]`
	`assign('Server', 'Core_ Server3','Cluster','Network_Cluster')`
		One line per added Managed Server.

Running the Script

Once you have made all necessary changes to the script, run it using the following command:

```
java weblogic.WLST <appropriate-version>.py
```

Running the Database Setup Script

Edit the script, `ocma-database-setup.py` to point to your created domain and to contain the initial Administrator username/password you wish to use. This script populates the database[s] with this initial value. To run the script, using the following command:

```
java weblogic.WLST ocma-database-setup.py /path/to/new/domain
```

Where to Go From Here

You must now:

- Complete post-installation tasks

See Post Installation Tasks for more information.

6

Post Installation Tasks

This chapter describes the tasks you may have to complete after installing Oracle Communications Marketing and Advertising and configuring the Oracle WebLogic Server domain.

You may not need to perform all of the following tasks depending on the type of Marketing and Advertising installation.

Creating JMS Servers for Any Additional Core Servers

If you have added any core servers to the initial two provided by the domain template, you must edit the configuration to add support for the EDR Service. Each server in the core requires its own JMS server for the EDR Service to work correctly.

Before you do this, start the administrative server in your Marketing and Advertising installation so that you can use the administration console to make the necessary adjustments.

For more information on using the console, please see the *System Administrator's Guide*, a separate document in this set.

Logging into the Servers

To start and log in to the servers:

1. Start Marketing and Advertising on the Administrative Server.
2. In a command prompt window, change to the *domain***bin** directory.
3. Run the `startWebLogic` script.

   The administrative server loads.
4. Watch the command prompt window as the server loads. Wait until the prompt indicates that the server is in the RUNNING state.
5. Start a Core server.
6. Do one of the following:
   a. Change to the *domain*/**bin** directory on the administrative server.
   b. Enter the following:

      `startManagedWebLogic` *`CoreServer1 Admin_Server_URL`*

   or

   a. Log in to the core server. that you started.

b. Change to the *domain***bin** directory.

c. Enter the following:

```
startManagedWebLogic
```

7. Watch the command prompt window as the core server loads. Wait until the prompt indicates that the server is in the RUNNING state.
8. When both servers are in the RUNNING state, start the administration console.
9. In your browser, enter the following address:

   `http://hostname:port/console`

   where *hostname* is the hostname of the administrative server and *port* is the listen address assigned to it during domain configuration. The default port is 8001.
10. Log in using your login credentials.

    If this is the first time you have logged in, you should use the values you set up in the domain configuration stage. There are instructions in the *System Administrator's Guide* on changing these values once your system is fully configured.

Creating a JMS Server

To create a JMS server from the administration console:

1. Open the **Domain Structure** panel.
2. Select **Services** > **Messaging** > **JMS Servers** > **New**.
3. In the **Name** text box, enter the name of the new JMS server.
4. Click **Next**
5. In the **Target** menu, select the appropriate server.
6. Click **Finish**.
7. Click **Activate Changes**.

Installing Java Cryptography Extension (JCE) Unlimited Strength Jurisdiction Policy Files

Marketing and Advertising does not require the JCE files, but you can install them if you wish to use JCE providers. For more information, see the section about the nCipher JCE Provider in *Oracle WebLogic Server Securing WebLogic Server* at:

http://download.oracle.com/docs/cd/E12840_01/wls/docs103/secmanage

Deploying Administrative Web Services

Marketing and Advertising has a set of administrative Web services that can be used to automate some of the tasks normally performed through the Web application's graphical interface. The ear file in which these Web services are found, **ocma-ws-ear.ear**, is not deployed by default in any installation except for those using the basic colocated domain template.

If you wish to use the administration Web Services in other environments, you need to manually deploy this ear on the Web tier. The ear file can be found in *<MIDDLEWARE_HOME>***\ocma_5.1\applications**.

There are many ways to deploy applications in Oracle WebLogic Server. For more information, see *Deploying Applications to WebLogic Server* at:

http://download.oracle.com/docs/cd/E12840_01/wls/docs103/deployment/

Setting Up Embedded LDAP Replication

If you have configured a clustered or basic HA domain, you must set up the embedded LDAP server to propagate organization and user information to all servers properly. If you do not set up replication, setting and resetting passwords will not work properly.

To set up LDAP replication from the administration console:

1. At the top of the **Domain Structure** panel, click the domain name for the domain that you are configuring.

   The **Settings for** *domain_name* page opens on the right.
2. Click the **Security** tab.
3. Click the **Embedded LDAP** sub-tab.
4. Check these checkboxes if they are not checked:
   - **Refresh Replica At Startup**
   - **Master First**
5. Click **Save**.
6. After the **Messages** at the top of the screen indicate success, restart the cluster.

Configuring Load Balancers to Support Persistence of Session State

In a clustered or basic HA domain, it is assumed that load balancers will be used to distribute requests across the cluster. To avoid session time-out issues, these load balancers should be configured to support persistence of session state. Consult your load balancer documentation for instructions on how to do this.

Checking the System Locale Parameter

Marketing and Advertising uses the system `locale` parameter to set the language for some features. Make sure this parameter is set on your system. If "`LANG =`" is set to null or to "`C`", the system will not start up. There are a number of different ways to do this, depending on your operating system. For example, using Solaris, you can add the following line to the `setDomainEnv.sh` script found in the *Domain_Home*/**bin** directory:

```
LANG="en_US.UTF-8"
export LANG
```

Setting the WebLogic Locale Parameter for Currency

Marketing and Advertising uses the WebLogic **locale** parameter to set the display format for some system wide entities such as system currency. To set the locale value in the WebLogic Administration Console:

1. In the left pane of the Console, click **OCMA**.
2. Select the **General** tab.
3. In the **Locale** menu select the correct country.

4. Click **Save**.

Configuring WebLogic Cluster Front End Host Settings

Each Marketing and Advertising server in a clustered configuration must be configured to support high availability of Web services individually. Configure the WebLogic **Frontend Host** and **Frontend HTTP/HTTPS Port** for each node to ensure that Marketing and Advertising HTTP requests are properly directed to the correct node and Web service.

Configure the Frontend values in the WebLogic Administration Console using the following procedure:

1. If the Change Center is enabled in WebLogic Administration console click the **Lock and Edit** button.
2. In the left pane of the Console, expand **Environment**.
3. Select **Servers**.
4. On the Summary of Servers page, select the server instance you want to configure.
5. Select the **Protocols** tab.
6. Select the **HTTP** tab.
7. In the **Frontend Host** field provide the IP address of the server.
8. In the **Frontend HTTP/HTTPS** field provide the port number for Web requests.
9. Click **Save**.
10. Click **Activate Changes** in the Change Center if needed.

Configuring Oracle Communications Marketing and Advertising

After you have installed the Marketing and Advertising, configured the domain, and completed any necessary post-installation steps, you can proceed to configuring Marketing and Advertising itself. The details for performing these tasks are presented in the *System Administrator's Guide*. The following list gives you a general outline of the initial tasks you must perform:

- Configure certain aspects of WebLogic Server using the Administration Console
- Configure Marketing and Advertising using the Administration Console
- Configure the delivery mechanism to communicate with the network using the Administration Console.
- Use the system owner organization or related Web services to provision organizations and users for all other organization types

7

Using an Existing Oracle Communications Services Gatekeeper

The standard installation of Oracle Communications Marketing and Advertising automatically installs a modified version of Oracle Communications Services Gatekeeper to act as the system's message delivery mechanism.

If your environment already has Services Gatekeeper installed, this installation can be used as the basis for an overlay installation of Marketing and Advertising.

To perform an overlay installation of Marketing and Advertising, prepare your current installation as follows:

1. Upgrade Oracle Communications Services Gatekeeper to 5.0
2. Provision a Database for Oracle Communications Marketing and Advertising
3. Install Marketing and Advertising
4. Re-Patching Files

After you have installed Marketing and Advertising, you must update your Services Gatekeeper domain configuration. You can only update like to like domains. A clustered domain using a single Oracle database can only be updated to a clustered domain using a single Oracle database, and an HA domain can only be updated to an HA domain, etc.

1. Updating the Domain Configuration
2. Checking the EDR/CDR/Alarm Configuration
3. Adding the Main Administrative User to the systemowner Group

Upgrade Oracle Communications Services Gatekeeper to 5.0

Marketing and Advertising is compatible only with the most recent version of Services Gatekeeper, version 5.0. If you are running a previous version of the product, you will need to perform an upgrade. See the upgrade documentation for Services Gatekeeper 5.0 for more information.

Provision a Database for Oracle Communications Marketing and Advertising

You must create a database user account for Marketing and Advertising, in addition to the user account you have provisioned for Services Gatekeeper. Depending on the database you are using, you may also need to create a database (MySQL only). For more information on this process, see Creating a MySQL Database.

Install Marketing and Advertising

When running the Marketing and Advertising installation program, choose the *MIDDLEWARE_HOME* directory that houses your Services Gatekeeper installation. The installer detects the existing Services Gatekeeper installation and adds only the necessary files.

Some existing Services Gatekeeper files will be patched to be compliant for use with Marketing and Advertising. A Smart Update patch, NXPY, is created that contains the modified jar(s) from Services Gatekeeper 5.0 that are needed by Marketing and Advertising.

The NXPY patch contains modified versions of the following files:

- wlng.jar
- wlngSecurityProviders.jar (jar is backed up and replaced with the patched jar)
- com.bea.wlcp.wlng.storage.tc_5.0.jar

Patched ear files from OCSG 5.0 are included in the installer as well. All existing ear files are backed up and replaced with the patched ears.

- wlng_nt_sms_px21.ear
- wlng_nt_multimedia_messaging_px21.ear
- wlng_nt_push_message_ews.ear
- wlng_nt_multimedia_messaging_mm7.ear
- cdr_to_diameter-single.ear
- cdr_to_diameter.ear

Re-Patching Files

If you have previously patched any of the files that were changed by the NXPY Smart Update patch, re-apply those patches.

Updating the Domain Configuration

To update the domain configuration:

1. Run the domain configuration wizard, selecting **Extend an existing Oracle Communications Marketing and Advertising domain**.

   The **Select a WebLogic Domain Directory** window opens

2. Navigate to your current Services Gatekeeper domain home and select it. In a default installation this would be *MIDDLEWARE_HOME***user_projects\oscg-domain**.
3. Click **Next**.

   The **Select Extension Source** window opens.

   The correct path to the template extensions is already filled in.

4. Click **Browse** to select your template.

   The **Select a Template** dialog box appears.

5. Select the domain type that matches your current domain: **ocma-cluster-rac-domain-ext.jar** if you have a RAC-based domain and so forth.

6. When the dialog box disappears, click the radio button next to **Extend my domain using an existing template** to make sure it is active.

   The **Customize JDBC and JMS File Store Settings** window opens.

7. Select the **Yes** radio button.

   The **Configure JDBC Data Sources** window appears.

8. Click the **ocma.datasource** entry.

9. Add the database information and the username and password you created earlier for Marketing and Advertising.

10. Click **Next**.

    The **Populate Database** window appears. It will move to the next to screen automatically.

    The update domain wizard in console mode is also supported. See Configuring the Domain Using the Console Configuration Wizard for general information on using the console mode.

    In addition there are WLST scripts available. See Configuring the Domain Using the Oracle WebLogic Tool Scripts for general information on using WLST. If you use the WLST scripts, you need to use one additional script, `ocma-database-setup.py`, to add the Administrative username/password to the database for use with Marketing and Advertising.

The rest of the wizard runs as in the original installation, described in Configuring a Domain with the GUI Configuration Wizard - UNIX/Linux.

Checking the EDR/CDR/Alarm Configuration

If you have previously made changes to your EDR, CDR, or Alarm configurations that you wish to keep, you must merge the contents of your customized configurations with the changes that installing Marketing and Advertising has made.

When you installed the software, your customizations were saved in a file named *domainhome***config\custom\wlng-edr.xml.bak**. The Marketing and Advertising version is in the same directory, named **wlng-edr.xml.** Merge the two files into a single file, either by editing the xml file directly or by re-adding your changes using the Services Gatekeeper console extension. On the console, under **Domain Structure**, click the **+** by **OCSG** to open up the console extension. Then click **EDR Configuration.**

Adding the Main Administrative User to the systemowner Group

The main Administrative user for Services Gatekeeper must be added to the systemowner management user group in Marketing and Advertising This enables the Administrative user username and password to be used for the initial login to the Marketing and Advertising GUI.

In a standard Marketing and Advertising installation/domain configuration, this is taken care of automatically, but if you are setting up an overlay installation, you need to do this additional step.

To add the main Administrative user to the systemowner group, there are two options:

- Use the Administration console
- Use a special WLST script

Using the Administration Console

These instructions assume that you have set up your extended domain using the steps described in Updating the Domain Configuration.

To use the Administration console to add your main administrative user to the systemowner group.

1. Open the administration console.
2. In the left **Domain Configuration** panel, click **Security Realms**.

   The **Summary of Security Realms** page opens.
3. Click **myrealm.**

   The **Settings for myrealm** page opens.
4. Click the **Users and Groups** tab.

   The **Users** tab containing the list of users is presented.
5. Click your Administrative user. This should be described as "This user is the default administrator".

   The **Settings for <user name>** table containing the list of users is presented.
6. Click the **Groups** tab.
7. From the **Available** list on the left side, select **systemowner**.
8. Click the right pointing arrow (->) to move it to the **Chosen** list on the right side.
9. Click the **Save** button. Make sure the green "Settings updated successfully" message appears.

Using the WLST Script

You can use a script to add your Administrative user to the systemowner group.

The script is `ocma-update-user-group.py` in *MIDDLEWARE_HOME***wlserver_10.3\common\templates\scripts\wlst**.

To run the script, launch it using the parameters:

```
java weblogic.WLST ocma-update-user-group.py admin server url admin username username systemowner
```

where:

- *admin server url* is the URL of the running Administration server
- *admin username* is the Administration username for authenticating the action
- *username* is the username to add to the group, which should be the same as the *admin username*

The script will prompt for your Administration password.

Geo-Redundancy

If your installation uses the Services Gatekeeper Geo-Redundancy feature, this feature will continue to work normally after an overlay installation. However, geo-redundancy is not supported in Marketing and Advertising.

8

Upgrading and Patching

Oracle Communications Marketing and Advertising uses Oracle WebLogic Server mechanisms to support upgrades. Depending on what is being upgraded, there are two main supported strategies:

- Hitless upgrades
- Rolling upgrades

Hitless upgrades are performed using the Production Redeployment strategy, also referred to in WebLogic Server as side-by-side redeployment. For more general information, see "Redeploying Applications in a Production Environment" in *Oracle Fusion Middleware Deploying Applications to Oracle WebLogic Server* at:

http://download.oracle.com/docs/cd/E15523_01/web.1111/e13702/redeploy.htm#i1032371

For more general information on rolling upgrades, see "WebLogic Server Rolling Upgrade" in *Oracle Fusion Middleware Upgrade Guide for Oracle WebLogic Servers* at

http://download.oracle.com/docs/cd/E15523_01/web.1111/e13754/rolling_upgrade.htm#i1065782

Upgrading the Web Application

Marketing and Advertising is a Web application running within the WebLogic Server container. As an application it can be upgraded using the Production Redeployment strategy. The old and the new versions are deployed side by side. WebLogic Server automatically brings the new version online as it phases out the old. In this case, traffic continues to flow seamlessly.

Upgrading the Delivery Mechanism

The communication services that contain the plug-ins that the Web application uses to deliver its messages to the network are themselves deployed as applications and can thus use the Production Deployment strategy. The same is true for the interceptors that route traffic to the Web application to have promotional material inserted into them and other enterprise application EAR files.

Container services, on the other hand, are more tightly integrated with WebLogic Server. To upgrade container services, use the rolling upgrade strategy. Each individual server within the cluster must be restarted after the upgrade, but the entire cluster does not need to be re-started as a unit.

Upgrading the Container

For updates of the WebLogic Server itself, minor releases use the rolling upgrade mode, whereas major releases require cluster re-start. Upgrades of the Coherence caching module follow the WebLogic Server model.

Upgrading Overlay Installations

For overlay installations, where a full-featured Oracle Communications Services Gatekeeper carries normal traffic and is also used as the delivery mechanism for Marketing and Advertising, upgrading one product goes hand in hand with upgrading the other. The same strategies as upgrades for stand-alone installations apply.

For information on both upgrade strategies in the context of Services Gatekeeper, see "Hitless Upgrade Using Production Redeployment" in *Oracle Communications Services Gatekeeper System Administrator's Guide* at:

http://download.oracle.com/docs/cd/E16625_01/doc.50/e16623/adm_hitlessupgrade.htm#i1100852

Patching

Patches are applied to Marketing and Advertising in two ways, depending on what is being patched. The two mechanisms include:

- Patching Using Ant
- Patching Using SmartUpdate

Patching Using Ant

EAR files, which include communication services with their plug-ins, interceptors, and ocma-network-node in the Network cluster and ocma-admin-adf, and, if you have deployed it, ocma-ws, in the Web cluster, are patched using the same Ant-based mechanism as is used in communication services for Services Gatekeeper.

For information on using this mechanism, see the "Version Handling and Patching of Communication Services" section of the "Deployment Model for Communication Services and Container Services" chapter in *Oracle Communications Services Gatekeeper System Administrator's Guide.*

The patching **build.xml** file for use with Ant is located in *Middleware_Home***/ocma_5.1/server/bin**.

Patching Using SmartUpdate

Container services and WebLogic Server are patched using SmartUpdate.

For information on SmartUpdate, see *Oracle Smart Update Installing Patches and Maintenance Packs* at:

http://download.oracle.com/docs/cd/E15523_01/doc.1111/e14143/title.htm#BEGIN

The SmartUpdate tool is in *Middleware_Home***/utils/bsu**.