



# **Installation and Configuration**

**Sun Solaris Operating Environment™ Software  
and the BEA WebLogic® Application Server**

**eaMarket**

**V4.0**  
**Document ID: MASL-03-4.0-01**  
**Date Published: 08.08.2003**

© 1997–2003 edocs® Inc. All rights reserved.

edocs, Inc., One Apple Hill Dr., Natick, MA 01760

The information contained in this document is the confidential and proprietary information of edocs, Inc. and is subject to change without notice.

This material is protected by U.S. and international copyright laws. edocs and eaPost are registered in the U.S. Patent and Trademark Office.

No part of this publication may be reproduced or transmitted in any form or by any means without the prior written permission of edocs, Inc.

eaSuite, eaDirect, eaPay, eaCare, eaAssist, eaMarket, and eaXchange are trademarks of edocs, Inc.

All other trademark, company, and product names used herein are trademarks of their respective companies.

Printed in the USA.

# Table of Contents

<b>Preface .....</b>	<b>7</b>
About Customer Self-Service and eaSuite™ .....	7
About eaMarket .....	10
About this Guide .....	11
Related Documentation .....	12
If You Need Help .....	13
<b>1 Preparing For Installation .....</b>	<b>15</b>
System Requirements .....	15
Tasks to Do Before You Install eaMarket.....	15
Installing eaMarket.....	16
Installing the eaMarket Components .....	16
Installing eaMarket in Console Mode.....	18
<b>2 Installing eaMarket on the Database Server.....</b>	<b>21</b>
Running the Installation Script .....	21
To Install the Database Components.....	21
Configuring the eaMarket Database .....	23
To Configure the eaMarket Database for eaMarket .....	23
Aborting the Configuration Script and Running it Again .....	28
Enabling Database Connectivity to eaMarket.....	29
<b>3 Installing and Configuring the eaMarket Application Server.....</b>	<b>33</b>
Running the Installation Script .....	33
To Install eaMarket.....	33
Configuring the eaMarket Application Server .....	35
Setting Environment Variables for eaMarket .....	35
Updating the Startup Script for WebLogic 6.1 .....	36
Updating the WebLogic 7.0 Startup Script.....	39
To Modify the edx_mwi.config.bat File for eaDirect.....	42

Checking Directory Access .....	42
Changing Directory Access for the Database Scripts .....	43
Configuring WebLogic 6.1 for eaMarket .....	43
To Create the Connection Pool .....	44
To Deploy the eaMarket Application Archive .....	48
Configuring WebLogic 7.0 for eaMarket .....	52
To Create the Connection Pool .....	52
To Deploy the eaMarket Application Archive .....	56
<b>4 Installing eaMarket Integration Components for eaDirect .....</b>	<b>61</b>
Running the Installation Script .....	61
To Install the Integration Components .....	61
Configuring WebLogic .....	63
To Update the Startup Script for WebLogic 6.1 .....	63
To Update the Startup Script for WebLogic 7.0 .....	64
To Modify the edx_mwi.config.bat File for eaDirect .....	65
To Modify the eaMarket.config File .....	65
Deploying the eaMarket Web Archive File in WebLogic 6.1 .....	66
Deploying the eaMarket Web Archive File in WebLogic 7.0 .....	69
<b>5 Migrating to a New Version of eaMarket .....</b>	<b>73</b>
Migrating eaMarket .....	73
Upgrading eaDirect Applications .....	74
To Upgrade eaDirect Applications: .....	74
Migrating eaMarket Databases .....	75
Preparing to Migrate an eaMarket Database .....	76
To Run the Migration Script .....	76
<b>6 Post-Installation Tasks .....</b>	<b>79</b>
Setting the Directory for Promotion Storage .....	79
Configuring a Data Store for eaMarket .....	79
To Create the Database User .....	80
To Configure WebLogic 6.1 for the Data Store .....	80
To Configure WebLogic 7.0 for the Data Store .....	84
To Create a Data Store in eaMarket .....	87
Setting the Tracking Server .....	89
Starting the Agents .....	90
Stopping the Agents .....	90
Setting up Xvfb .....	91

To Set Display Permission.....	91
To Set the Display Device.....	91
Uninstalling eaMarket .....	92
To Uninstall the eaMarket Database Server Components .....	92
To Uninstall eaMarket .....	94



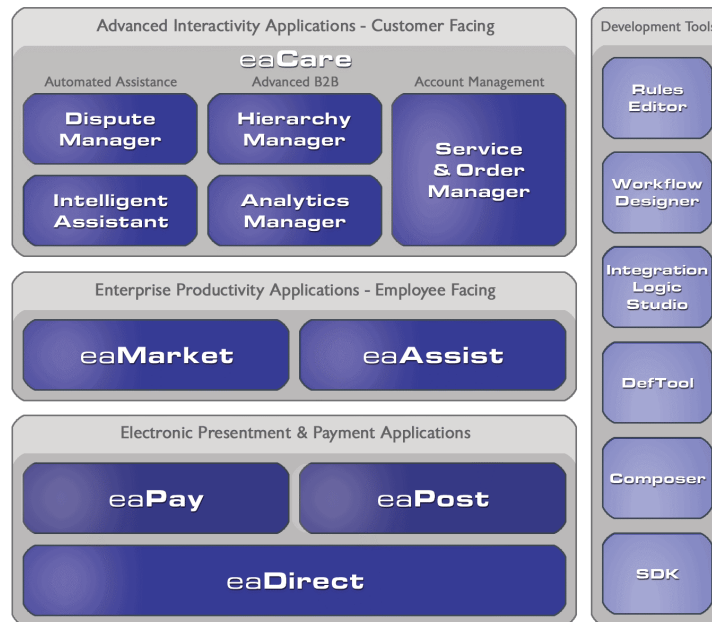
## Preface

### About Customer Self-Service and eaSuite™

edocs has developed the industry's most comprehensive software and services for deploying Customer Self-Service solutions. **eaSuite™** combines electronic presentment and payment (EPP), order management, knowledge management, personalization and application integration technologies to create an integrated, natural starting point for all customer service issues. eaSuite's unique architecture leverages and preserves existing infrastructure and data, and offers unparalleled scalability for the most demanding applications. With deployments across the healthcare, financial services, energy, retail, and communications industries, and the public sector, eaSuite powers some of the world's largest and most demanding customer self-service applications. eaSuite is a standards-based, feature rich, and highly scalable platform, that delivers the lowest total cost of ownership of any self-service solution available.

eaSuite is comprised of four product families:

- Electronic Presentment and Payment (EPP) Applications
- Advanced Interactivity Applications
- Enterprise Productivity Applications
- Development Tools



**Electronic Presentment and Payment (EPP) Applications** are the foundation of edocs' Customer Self-Service solution. They provide the core integration infrastructure between organizations' backend transactional systems and end users, as well as rich e-billing, e-invoicing and e-statement functionality. Designed to meet the rigorous demands of the most technologically advanced organizations, these applications power Customer Self-Service by managing transactional data and by enabling payments and account distribution.

**eaDirect™** is the core infrastructure of enterprise Customer Self-Service solutions for organizations large and small with special emphasis on meeting the needs of organizations with large numbers of customers, high data volumes and extensive integration with systems and business processes across the enterprise. Organizations use eaDirect with its data access layer, composition engine, and security, enrollment and logging framework to power complex Customer Self-Service applications.



**eaPay™** is the electronic payment solution that decreases payment processing costs, accelerates receivables and improves operational efficiency. eaPay is a complete payment scheduling and warehousing system with real-time and batch connections to payment gateways for Automated Clearing House (ACH) and credit card payments, and payments via various payment processing service providers.

**eaPost®** is the account content distribution system that handles all the complexities of enrollment, authentication and secure distribution of summary account information to any endpoint, while also bringing customers back the organization's Website to manage and control their self-service experience.

**Advanced Interactivity Applications** are a comprehensive set of advanced customer-facing self-service capabilities that enable the full range of business and consumer customer service activities. These sophisticated modules have the flexibility to completely customize the Customer Self-Service solution to meet vertical industry and specific company requirements.

**eaCare™** consists of a rich set of sophisticated self-service modules – Dispute Manager, Intelligent Assistant, Hierarchy Manager, Analytics Manager, and Service and Order Manager - for automated assistance, advanced business-to-business applications and account management. These capabilities come together to create a web self-service dashboard for customers to access all service offerings from a single, easy-to-use interface. eaCare's modularity accelerates time to market with components that can be deployed incrementally in a phased approach.

**Enterprise Productivity Applications** are employee-facing solutions that empower customer service representatives, sales agents, account managers, marketing managers, broker-dealers and channel partners within an organization and external partner organizations to facilitate self-service and to support assisted service. Employees leverage edocs' Customer Self-Service solution to deliver customer service, access information, create and deploy marketing and customer service content, and perform activities for the benefit of customers.

**eaAssist™** reduces interaction costs and increases customer satisfaction by enabling enterprise agents – customer service representatives (CSRs), sales agents, broker-dealers and others – to efficiently access critical account data and service-related information to effectively service customers. Through its browser interface designed especially for the enterprise agent, eaAssist enables agents to take advantage of customer-facing online capabilities to provide better service by more efficiently resolving customer account inquiries at the point of customer contact.

**eaMarket™** is the personalization, campaign and content management solution that enables organizations to increase revenue and improve customer satisfaction by weaving personalized marketing and customer service messages throughout the Customer Self-Service experience. The transactional account data that provides the foundation for a Customer Self-Service solution – such as transaction activity, service or usage charges, current task and prior service history – bring valuable insight into customers and can help optimize personalized marketing and customer service campaigns. eaMarket leverages that data to present relevant marketing and customer service messages to customers.

edocs' **Development Tools** are visual development environments for designing and configuring edocs' Customer Self-Service solutions. The Configuration Tools encompass data and rules management, workflow authoring, systems integration, and a software development kit that makes it easy to create customer and employee-facing self-service applications leveraging eaSuite.

## About eaMarket

**eaMarket** is the personalization management solution that enables companies to increase revenue and improve customer satisfaction by weaving personalized marketing and customer service messages throughout the online account management experience.

The online statement is the best platform to create recurring one-to-one relationships with your customers, as it provides personal, time-sensitive and financially relevant information. Transactional account data – such as purchase history, investment activity and service and usage charges – allows you to gain the most insight into your customers and optimally personalize your marketing campaigns. With eaMarket, you can deploy targeted marketing and customer service messages based on the customer's dynamic account and transaction data.

Online marketing demands real actions in real time. eaMarket allows your marketing team to design, schedule, evaluate, and manage the entire process from anywhere on your network – all from a browser-based user interface that operates without heavy involvement from your IT department.

Move beyond your competition. Use eaMarket to send your customers personalized e-serts™ instead of envelopes full of one-size-fits-all inserts. Increase cross-sell and up-sell offer acceptance rates with personalized messages that are based on your customer's actual account activity.

With eaMarket, you can deliver the right message to the right customer at the right time.

## About this Guide

This guide describes how to install and configure the eaMarket Version 4.0 components. Its intended audience is the System Administrator who will install and configure eaMarket for the Solaris™ Operating Environment.

## Related Documentation

This guide is part of the eaMarket documentation set. For more information about implementing your eaMarket application, see one of the following guides:

Online	How to Access
Help	Select Help from the eaMarket configuration screens.
A PDF of this guide	A PDF of this guide is available on the eaDirect product CD-ROM.

This guide is part of the eaMarket documentation set. For more information about implementing your eaMarket application, see one of the following guides:

Print Document	Description
<i>Campaign Management User Guide</i>	Explains what you need to know to use the eaMarket application to manage marketing promotions, content, business conditions, and workflow.
<i>eaMarket™ Installation and Configuration Guide: for the Solaris™ Operating Environment™ Software</i>	Explains how to install and configure eaMarket for a Solaris environment.
<i>eaMarket™ Installation and Configuration Guide: for the Windows/NT™ Operating Environment™ Software</i>	Explains how to install and configure eaMarket for a Windows environment.
<i>eaDirect Installation and Configuration Guide</i>	How to install eaDirect and configure it in a distributed environment.
<i>Data Presentation Production Guide</i>	How to set up and run a live eaDirect application in a J2EE environment.
<i>Deploying and Customizing J2EE Applications</i>	How to customize J2EE web applications for deployment with the eaSuite.

The eaSuite products eaDirect, eaPay, eaPay, and eaAssist provide their own documentation.

## If You Need Help

Technical support is available to customers who have valid maintenance and support contracts with edocs. Technical support engineers can help you install, configure, and maintain your edocs application.

edocs provides global Technical Support services from the following Support Centers:

### **US Support Center**

Natick, MA

Mon-Fri 8:30am – 8:00pm US EST

Telephone: 508-652-8400

### **Europe Support Center**

London, United Kingdom

Mon-Fri 9:00am – 5:00 GMT

Telephone: +44 20 8956 2673

### **Asia Pac Rim Support Center**

Melbourne, Australia

Mon-Fri 9:00am – 5:00pm AU

Telephone: +61 3 9909 7301

### **Customer Central**

<https://support.edocs.com>

### **Email Support**

<mailto:support@edocs.com>

When you report a problem, please be prepared to provide us the following information:

- What is your name and role in your organization?
- What is your company's name?
- What is your phone number and best times to call you?
- What is your e-mail address?

## Preface

- In which edocs product did a problem occur?
- What is your Operating System version?
- What were you doing when the problem occurred?
- How did the system respond to the error?
- If the system generated a screen message, please send us that screen message.
- If the system wrote information to a log file, please send us that log file.

If the system crashed or hung, please tell us.

# Preparing For Installation



## System Requirements

For the latest software and hardware requirements for both eaMarket and eaDirect, see the release notes that came with your distribution.

## Tasks to Do Before You Install eaMarket

Before you install the eaMarket components, there are several prerequisites that need to be addressed to ensure that the operating system and software programs that eaMarket uses are installed and configured correctly.

1. First, you must install and configure the Application Server and Database Server components of eaDirect Version 4.0 as described in the *eaDirect Installation and Configuration Guide*. Then, you can continue with the following steps to configure the server running eaMarket, which assumes that eaMarket will be installed on a separate server from the eaDirect servers:



### Caution

It is important that the products below are installed in the order they are listed.

2. Install Sun Solaris operating system.
3. Install the Sun JDK.
4. Install Xvfb, the virtual frame buffer X server. See Setting up Xvfb for setup instructions.

5. Install Oracle9i Database if the eaMarket database is on the eaMarket server. Install the Oracle9i Client if the database is on a different server.
6. Install WebLogic 6.1 with Service Pack 3 or WebLogic 7.0.

## Installing eaMarket

eaMarket works in conjunction with an existing eaDirect application. eaMarket can be installed on the same server as eaDirect (the eaDirect Application Server), or run on its own server for performance or security reasons. This document describes how to install eaMarket on separate servers for eaMarket, the database and the eaDirect Application.



### Caution

---

When installing eaMarket on different servers, be sure to use the same root path on all servers. For example, assume eaMarket is installed in */opt/EDCSmkt*. */opt* is the root path, so if the eaMarket database is on a different machine, then the database should be installed in */opt/EDCSmkt*. If the tracking component is on a different system, then it should be installed in */opt/EDCSmkt* on the eaDirect server.

---

## Installing the eaMarket Components

The installation of eaMarket components is done through the InstallAnywhere installer. The tool is provided with eaMarket on its distribution CD-ROM. Below is the InstallAnywhere screen where you select the eaMarket components to install.





Through InstallAnywhere's easy-to-follow graphical user interface, you can choose to do a stand-alone or custom install of eaMarket components on a single server or on multiple servers in a distributed environment. The following table describes the various eaMarket installation options:

Option	Components Installed
Standalone	Installs eaMarket application server components, eaMarket database server components, WebLogic J2EE files for eaMarket, and online product help.
Tracking Component	Installs components for eaMarket support on eaDirect application server.
Database	Installs eaMarket database server components.
Custom	Gives users the option to install eaMarket application server components, eaMarket database server components, eaMarket J2EE applications.

InstallAnywhere copies eaMarket files from the distribution CD-ROM to the appropriate directories, and sets up the directory hierarchy for database server and application server components.

For specific information about installing eaMarket components using InstallAnywhere, see the topics: *Installing the eaMarket Application Server*, *Installing the eaMarket Integration Components* and *Installing the eaMarket Database Server Components*.

## Installing eaMarket in Console Mode

The installation procedures in this guide show eaMarket being installed using the InstallAnywhere GUI. However, you can choose one of two InstallAnywhere installation modes to install eaMarket:

- GUI Mode (default installation mode)
- Console Mode

Console Mode is an interactive character-based installation where you are prompted to respond to several installation questions.

### Recommended User and Group Permissions

During the installation of your application server, you are prompted to specify user and group permissions for files and directories. edocs recommends that you use the default application server permissions nobody:nobody with the eaSuite. However, if your UNIX system administrator uses custom user and group permissions at installation, you can set these permissions with the **chown** command.



#### Caution

Make sure that you install eaMarket as the same user as WebLogic.

---

To change user and group permissions:

1. Switch to root user, for example:

```
$ su - root
```

2. Change the directory to your application server home directory (\$WL\_HOME). For example:

For WebLogic 6.1:

```
$ cd /opt/bea/Wlserver6.1
```

For WebLogic 7.0:

```
$ cd /opt/bea/wlserver700
```

3. Recursively change the user id and group id permissions of the application server installation directory and any subdirectories to the default, which is nobody:nobody. For example:

For WebLogic 6.1:

```
$ chown -R nobody:nobody /opt/bea/Wlserver6.1
```

For WebLogic 7.0:

```
$ chown -R nobody:nobody /opt/bea/wlserver700
```

### To install eaMarket in Console Mode:

1. From the */Solaris* subdirectory on the eaMarket installation CD-ROM, run the command to install eaMarket in Console Mode:

```
# ./Markins.bin -i console
```

InstallAnywhere displays the banner:

```
Preparing CONSOLE Mode Installation...
```

2. Respond to each prompt to proceed to the next step in the installation. If you want to change something on a previous step, type **back**.

If the installation successful, the following message appears:

```
Congratulations! eaMarket 4.0 has been successfully  
installed to:  
/opt/EDCSmkt
```



# Installing eaMarket on the Database Server

# 2

This section describes how to install the eaMarket components on the eaDirect database server, the *edocs - eaMarket Promotion Management System - Database*.

## Running the Installation Script

### To Install the Database Components

1. From the */solaris* subdirectory on the installation CD-ROM, run the command to invoke the InstallAnywhere GUI:

```
# ./Markins.bin
```

This process loads all the eaMarket application files and sets up the hierarchy of subdirectories that eaMarket uses to store the application files. The default directory for the eaMarket distribution is */opt/EDCSmkt*. The installation script displays the message:

```
Preparing to install...
```

```
Extracting the JRE from the installer archive...
```

```
Unpacking the JRE...
```

```
Extracting the installation resources from the installer archive...
```

```
Configuring the installer for this system's environment...
```

```
Launching installer...
```

2. On the Introduction screen, read the eaMarket introductory information. Then click **Next**.

3. On the License Agreement screen, carefully read the terms of the agreement (use the scroll bars to move up and down on the screen) and accept the terms of the license agreement by clicking the appropriate radio button. Then click **Next**.
4. On the Enter Serial Number screen, enter your product serial number. It is stapled to the inside front cover of this guide (if your serial number has been misplaced, contact edocs Technical Support). Then click **Next**.
5. On the Owner of Web Application Server screen, enter the name of the application server owner (the recommended 'owner' is *nobody*). Then click **Next**.
6. On the Group of Web Application Server screen, enter the name of the group for the application server (the recommended group is *nobody*). Then click **Next**.
7. On the Choose Install Folder screen, accept the default installation folder (*opt/EDCSmkt*), or click **Choose** to specify another installation folder. Then click **Next**.
8. On the Choose Product Features screen, click **Database**. Then click **Next**.
9. On the Pre-Installation Summary screen, confirm that the information is accurate. Then click **Install**.  
  
At this point, the eaMarket database server components are copied to the designated installation folder. A status bar on the bottom of the screen shows each database server component being installed. No user intervention is required.
10. The Install Complete screen reports a successful installation and the directory that contains the database server components.
11. Click **Done** to exit the installer.

## Configuring the eaMarket Database

Configure the eaMarket Oracle9i database by running the *eamarket\_admin.sh* script. The configuration process consists of a series of prompts, some of which require user input.



This section does not address the installation of the Oracle9i Server itself. If you have not installed the Oracle9i Server, consult the product installation documentation and follow the on-screen prompts to complete the process.

### To Configure the eaMarket Database for eaMarket

1. Go to */opt/EDCSmkt/config* and run the *eam\_config* script. Make sure you are logged in as root.

The installation script displays the following message:

Enter the installation path of the eaMarket Application Server, default :

```
/opt/EDCSmkt [?,q]
```

2. Type the name of the directory where eaMarket has been installed. For example, */opt/EDCSmkt*.

3. Enter the JNDI name of the eaMarket DataSource.

The installation script displays the following message:

JNDI Name of the eaMarket DataSource, default :

```
jdbc/eaMarket [?,q]
```

4. On the database server, log in as the oracle user and change the working directory to the *<eaMarket\_install>/db/oracle* subdirectory. For example:

```
cd /opt/EDCSmkt/db/oracle
```

5. Set the ORACLE\_SID environment variable to the SID name, which will be used with eaMarket. For example:

```
export ORACLE_SID=edx9
```

6. Enter the following command at the prompt:

```
./eamarket_admin.sh
```

7. The edocs eaMarket Server Administration Main Menu appears with an initial set of options.

```
edocs eaMarket Server Administration Main Menu Version 4.0
-----
      [1] Sign in Menu
      [2] Capture Database File Locations
      [3] Install edocs eaMarket
      [4] Initial Data Population
      [5] Database Version Migration
      [Q] Quit
-----
Enter Your Selection:
```

8. Select Option 1, **Sign in Menu**.
9. A second sign-in screen is displayed. Enter the username, password, SID and SYS password for the eaMarket Oracle9i database. For example:

```
Enter Database USERNAME: edx_dba
Enter Database PASSWORD: edx
Enter ORACLE_SID: edx9
Enter PASSWORD for User SYS: *****
```

After you have entered all the required information, the main menu is displayed again.

10. Select option 2, **Capture Database File Locations**.

This option specifies the absolute path for the various files that will comprise the eaMarket database. The location of these files depends on the type of file structure you are using. This installation process assumes the Oracle Optimal Flexible Architecture (OFA) for the database files. Therefore, you should have created at least four mount points (one for the software and three for the database files) when you installed the Oracle9i Server software. See the Oracle9i Server installation documentation for more information about OFA and creating mount points.



During this session, you will be prompted to provide absolute paths for the following files:

- [1] Redo Log File
- [2] System tablespace file location
- [3] Temporary tablespace file location
- [4] UNDO tablespace file location
- [5] Data tablespace file location
- [6] Control files location

Using separate mount points is suggested. For example:

```
[1] Redo Log File -> /u01/oradata
[2] System tablespace file location -> /u02/oradata
.....
```

#### 11. Select Option 3, **Install edocs eaMarket**.

This option begins the installation of the physical database. A new menu is displayed from which you select Option 1, **Create Oracle Instance**.

```
Install edocs eaMarket
-----
[1] Create Oracle Instance
[2] Shutdown Database
[3] Startup Database
[4] Initialize Oracle Database
[5] Install Application Database
[6] View Status Log Directory
-----
[R] & Return to previous menu

SELECT YOUR OPTION:
```

This menu begins the initialization of the eaMarket database. Database initialization consists of:

- Creating a new database initialization file from the installation template *init.ora* file. The name of the newly created initialization file combines the *init* prefix followed by the *oracle* SID you entered when you logged in to the oracle account.

- Creating the shell script, *create\_oracle\_db.sh*, which contains the Oracle9i command used to create a database.
- Executing the two files.

No user input is required for this option. At the end of this process, you are returned to the Install edocs eaMarket menu.

12. Select Option 2, **Shutdown Database**, and then Option 3, **Restart Database**.

These options let you perform a quick test on the database you just defined. The Shutdown Database and Startup Database options must be executed successively.

When these options complete, you are returned to the Install edocs eaMarket menu.

13. Select Option 4, **Initialize Oracle Database**.

This option executes utility scripts that define the data dictionary for the new database, and create a stored procedure. The stored procedure is modified to contain the absolute paths that were defined in Option 2, **Define Database File Locations**. The newly created stored procedure creates the various database tablespaces and rollback segment data files that the eaMarket database requires.

Completion of **this option might take several minutes**. During this process, informational messages are displayed indicating that the utility scripts and the stored procedure are executing. A final message will indicate whether the processing was successful.

No user input is required for this option.

14. Select Option 5, **Install Application Database**.

This option creates the eaMarket database tables and indexes using an SQL script named *create\_tables.sql*.

No user input is required for this option.



**Tip**

The error messages that are displayed during this step are an expected part of the process and can be ignored.

---

15. Select **Return to Previous Menu**. The eaMarket Server Administration Main Menu is displayed.

```
edocs eaMarket Server Administration Main Menu Version 4.0
-----
      [1] Sign in Menu
      [2] Capture Database File Locations
      [3] Install edocs eaMarket
      [4] Initial Data Population
      [5] Database Version Migration
      [Q] Quit
-----

Enter Your Selection:
```

16. Select Option 4, **Initial Data Population**. The **Initial Data Population Menu** is displayed.

17. Select Option 1, **Import initial data set**.

```
Initial Data Population
-----

      [1] Import initial data set
      [2] eaMarket configuration
      [R] Return to previous menu

SELECT YOUR OPTION:
```

This option populates the newly defined database with information from the SQL scripts. As data is imported into tables, informational messages are displayed indicating whether the data is being imported correctly.

No user input is required for this option.

18. Select Option 2, **eaMarket Configuration**.

This option prompts you for the directory path for the eaMarket installation. This path should point to the installation directory on the eaMarket server.

A message is displayed if the configuration path was defined successfully.

19. Select **Return to Previous Menu**. The eaMarket Server Administration Main Menu is displayed.
20. Select **Quit** to end the eaMarket Oracle9i database configuration session.
21. Check to make sure that several eaMarket database instances are running. For example, assuming the eaMarket SID is `edx9`:

```
ps -ef | grep edx9
```

Inform the database administrator to make sure that the eaMarket database instance restarts if the Unix system is restarted.

## Aborting the Configuration Script and Running it Again

At some point during the eaMarket database configuration process, you may encounter problems that require you to prematurely terminate the session. Although the database configuration procedure displays a number of helpful informational messages, you still may have to quit the session and run the configuration script again. Quitting the configuration results in the loss of any information that you entered.

If terminating and restarting the session is your only option, you must first do a manual cleanup of the partially configured database, as follows:

1. Shut down any database using the Shutdown Database option.
2. Change directory to the `$ORACLE_HOME/admin` directory. For example:  

```
cd /export/home/oracle/admin
```
3. Remove any directories whose name matches the *oracle* SID defined in the Setting User and Database Identification Menu option. For example, **edx9**.
4. Change directory to the `$ORACLE_HOME/product/<version>/dbs` directory. For example:  

```
cd /export/home/oracle/product/9.2/dbs
```
5. Remove any references to the initialization file created during the installation process. The references you are looking for will take the form: *initedx9.ora*, assuming `edx9` is the eaMarket Oracle SID.

6. Change directory to the individual directories that you specified in the **Capture Database File Locations** option. Next, remove any directories whose name matches the Oracle SID (for example, **edx9**) defined in the **Setting User and Database Identification Menu** option.

## Enabling Database Connectivity to eaMarket

After installing eaMarket 4.0, you must create or edit *tnsnames.ora* and *listener.ora* to enable connectivity between the database and the eaMarket server.

### To edit the *tnsnames.ora* file:

1. Log on as the oracle user.
2. Change the working directory to *\$ORACLE\_HOME/network/admin*.
3. Open *tnsnames.ora* and add lines similar to the following for the eaMarket service name. In this example, */export/home/oracle* is the Oracle installation directory, and the eaMarket Oracle SID is *edx9*:

```
EAM =
  (DESCRIPTION =
    (ADDRESS_LIST =
      (ADDRESS = (PROTOCOL = TCP) (HOST =
<database_host_ipaddr>) (PORT = 1521))
    )
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = edx9)
    )
  )
```

4. Save and close the file.

**To edit the *listener.ora* file:**

1. Log on as the oracle user.
2. Change the working directory to *\$ORACLE\_HOME/network/admin*.
3. Open *listener.ora* and add lines similar to the following for the eaMarket service name. In this example, */export/home/oracle* is the Oracle installation directory, and the eaMarket Oracle SID is *edx9*:

```
SID_LIST_LISTENER =  
  (SID_LIST =  
    (SID_DESC =  
      (SID_NAME = PLSExtProc)  
      (ORACLE_HOME = /export/home/oracle/product/9.2)  
      (PROGRAM = extproc)  
    )  
    (SID_DESC =  
      (SID_NAME = edx9)  
      (ORACLE_HOME = /export/home/oracle/product/9.2)  
    )  
  )
```

4. Save and close the file.

## Testing Database Connectivity

You can validate database connectivity to the application server by running the following commands (you must have ORACLE\_SID equal to the eaMarket Oracle SID). It must be in the following format:

```
sqlplus Database_username/database_password@SID
```

For example:

```
sqlplus edx_dba/edx@eam
```

This will display results similar to the following:

```
Connected to:
```

```
SQL*Plus: Release 9.2.0.1.0 - Production on Tue Apr 8  
04:05:55 2003
```

```
Copyright (c) 1982, 2002, Oracle Corporation. All  
rights reserved.
```

```
Oracle9i Enterprise Edition Release 9.2.0.1.0 - 64bit  
Production
```

```
With the Partitioning, OLAP and Oracle Data Mining  
options
```

```
JServer Release 9.2.0.1.0 - Production
```





# Installing and Configuring the eaMarket Application Server

# 3

This chapter provides instructions for installing eaMarket on an application server.

The installation and configuration examples shown in this chapter use default eaMarket pathnames. If you choose not to accept the default pathnames, make sure your pathnames are consistent throughout the installation of eaMarket on the database and application servers.

## Running the Installation Script

### To Install eaMarket

1. From the */solaris* subdirectory on the installation CD-ROM, run the command to invoke the InstallAnywhere GUI:

```
# ./Markins.bin
```

This process loads all the eaMarket application files and sets up the hierarchy of subdirectories that eaMarket uses to store the application files. The default directory for the eaMarket distribution is */opt/EDCSmkt*. The installation script displays the message:

```
Preparing to install...
Extracting the JRE from the installer archive...
Unpacking the JRE...
Extracting the installation resources from the installer
archive...
Configuring the installer for this system's
environment...
Launching installer...
```

2. On the Introduction screen, read the eaMarket introductory information. Then click **Next**.
3. On the License Agreement screen, carefully read the terms of the agreement (use the scroll bars to move up and down on the screen) and accept the terms of the license agreement by clicking the appropriate radio button. Then click **Next**.
4. On the Enter Serial Number screen, enter your product serial number. It is stapled to the inside front cover of this guide (if your serial number has been misplaced, contact edocs Technical Support). Then click **Next**.
5. On the Owner of Web Application Server screen, enter the name of the application server owner (the recommended 'owner' is *nobody*). Then click **Next**.
6. On the Group of Web Application Server screen, enter the name of the group for the application server (the recommended group is *nobody*). Then click **Next**.
7. On the Choose Install Folder screen, accept the default installation folder (*opt/EDCSmkt*), or click **Choose** to specify another installation folder. Then click **Next**.
8. On the Choose Product Features screen, click **Standalone**. Then click **Next**.
9. On the Pre-Installation Summary screen, confirm that the information is accurate. Then click **Install**.  
  
At this point, the eaMarket system components are copied to the designated installation folder.
10. The Install Complete screen reports a successful installation and the directory that contains the database server components.
11. Click **Done** to exit the installer.

## Configuring the eaMarket Application Server

Configuring the eaMarket application server consists of setting the environment variables for eaMarket, editing the WebLogic start script to add the necessary information to support WebLogic, and configuring WebLogic for eaMarket through the WebLogic console.

### Setting Environment Variables for eaMarket

1. Go to the `/opt/EDCSmkt/config` folder and run the `set_eam_env` script.
2. The script displays the following:  
Enter eaMarket Home  
[/opt/EDCSmkt] : [?,q]
3. Press Enter to accept the default as the eaMarket home directory or enter a different directory and press Enter to continue.
4. The script displays the following:  
JNDI Name of the eaMarket DataSource  
jdbc/eaMarket [?,q]
5. Press Enter to accept the default as the JNDI name of the eaMarket data source or enter a different JNDI name and press Enter to continue.
6. The script displays the following:  
Enter Oracle Home Directory  
[/u01/app/oracle/9.2.0.1.0] [?,q]
7. Press Enter to accept the default Oracle home directory or enter a different directory and press Enter to continue.
8. The application servers (WebLogic and WebSphere) will be displayed. Select **WebLogic** as the application server.

9. The script displays the following:

```
Enter WebLogic Application Server root directory:  
[/opt/bea/wlserver6.1] [?,q]
```



**Caution**

The script displays the root directory for WebLogic 6.1. For WebLogic 7.0, the root directory should be */opt/weblogic7/weblogic700*.

10. Press Enter to accept the default WebLogic application server root directory or enter a different directory and press Enter to continue.
11. Once you finish the following message will appear:

```
Environment settings are successfully written to  
/opt/EDCSmkt/eam_env
```

## Updating the Startup Script for WebLogic 6.1

1. Login as the WebLogic owner. For example, nobody:  

```
su - nobody
```
2. Change the working directory to the WebLogic application domain. For example:  

```
/opt/bea/wlserver6.1/config/mydomain
```
3. Open **startWebLogic.sh** with an editor.
4. Change the line that says:  

```
JAVA_OPTIONS="-ms64m -mx64m"
```

  
to:  

```
JAVA_OPTIONS="-ms128m -mx128m"
```

5. Add the following to the **JAVA\_OPTIONS** section:

```
-Dedx.web.public=<content upload path>
```

For example:

```
-Dedx.web.public=
/opt/bea/wlserver6.1/config/mydomain/applications/DefaultWebApp
```

```
-Dcom.edocs.xml.sax.parser=
org.apache.xerces.parsers.SAXParser
```

If there are more than one **JAVA\_OPTIONS** section in the file, ensure that each section (except the first one) has the **\$JAVA\_OPTIONS** variable at the beginning.

For example a second **JAVA\_OPTIONS** section would look like:

```
JAVA_OPTIONS=$JAVA_OPTIONS "-Dedx.web.public=
/opt/bea/weblogic6.1/config/mydomain/applications/DefaultWebApp/"
```

6. Add the following to the **CLASSPATH**:

```
<eaMarket_install>/lib/crimson.jar
<eaMarket_install>/lib/jaxp.jar
<eaMarket_install>/lib/xerces.jar
<eaMarket_install>/lib/eaMarket.jar
$ORACLE_HOME/product/<version>/jdbc/lib/classes12.zip
```

If you are using a third party Oracle thin driver, provide the path for that file. Paths for *crimson.jar*, *jaxp.jar*, *xerces.jar* must be set before any WebLogic JAR files.

The following example shows an example of the **CLASSPATH** where eaMarket is installed in */opt/EDCSmkt*, and Oracle9i is installed in */export/home/oracle*:

```
CLASSPATH=/opt/EDCSmkt/lib/crimson.jar:/opt/EDCSmkt/lib/jaxp.jar:/opt/EDCSmkt/lib/xerces.jar:/export/home/oracle/product/9.2/jdbc/lib/classes12.zip:/opt/EDCSmkt/lib/eaMarket.jar:$WL_HOME:$WL_HOME/lib/weblogic_sp.jar:$WL_HOME/lib/weblogic.jar
```

---

**Caution**

These entries **MUST** be inserted at the beginning of the **CLASSPATH**.

---

7. Locate "(SunOS)" and add the `$ORACLE_HOME/lib` PATH to the **LD\_LIBRARY\_PATH** entry. For example:

```
(SunOS)
  if [ -n "$LD_LIBRARY_PATH" ]; then
LD_LIBRARY_PATH=$LD_LIBRARY_PATH:$WL_HOME/lib/solaris:
/export/home/oracle/product/9.2/lib:$PATH
  else
LD_LIBRARY_PATH=$WL_HOME/lib/solaris
```

8. If the data source name is not the default `jdbc/eaMarket`, then add the following to the Java properties:

```
-DeaMDataStore=<DataSource Name>
```

The DataSource Name is the data source name given during installation.

---

**Caution**

This property **MUST** be inserted before

```
-Dweblogic.management.password=$WLS_PW
weblogic.Server
```

---

For example:

```
java $JAVA_OPTIONS -classpath $CLASSPATH
-Dweblogic.Domain=mydomain -Dweblogic.Name=myserver
-Dbea.home=/opt -Djava.security.policy=
/bea/wlserver6.1/lib/weblogic.policy
-DeaMDataStore=jdbc/edocs
-Dweblogic.management.password=$WLS_PW weblogic.Server
```

9. Include `oci920_8` in the **LD\_LIBRARY\_PATH** under Solaris OS. For example:

```
(SunOS)
  if [ -n "$LD_LIBRARY_PATH" ]; then
LD_LIBRARY_PATH=$LD_LIBRARY_PATH:$WL_HOME/lib/solaris:$WL_HOME/bin/oci920_8:/export/home/oracle/product/9.2/lib:$PATH
  else
LD_LIBRARY_PATH=$WL_HOME/lib/solaris:$WL_HOME/bin/oci920_8
```

10. Save and close file.
11. Switch to oracle user and carry out steps given below.
12. Go to *WL\_HOME/server/ext/jdbc/oracle/920*. For example:  
`/opt/wlserver6.1/server/ext/jdbc/oracle/920`
13. Copy **classes12.zip** to *WL\_HOME/server/lib*.

## Updating the WebLogic 7.0 Startup Script

1. Login as the WebLogic owner. For example, nobody:  
`su - nobody`
2. Change the working directory to the WebLogic application domain. For example:  
`/opt/bea/wlserver700/config/mydomain`
3. Open **startWebLogic.sh** with an editor.
4. Add the following to the **JAVA\_OPTIONS** section:  
`-Ddx.web.public=<content upload path>`  
 For example:  
`-Dex.web.public=  
/opt/weblogic7/weblogic700/config/mydomain/applications/DefaultWebApp`  
 and  
`-Dcom.edocs.xml.sax.parser=org.apache.xerces.parsers.SAXParser`

If there are more than one **JAVA\_OPTIONS** section in the file, ensure that each section (except the first one) has the `$JAVA_OPTIONS` variable at the beginning of it.

For example a second **JAVA\_OPTIONS** section would look like:

```
JAVA_OPTIONS=$JAVA_OPTIONS "-Dex.web.public=
/opt/weblogic7/weblogic700/config/mydomain/applications/Default
WebApp/"
```

5. Add the following to the **CLASSPATH**

```
<eaMarket_install>/lib/crimson.jar
<eaMarket_install>/lib/jaxp.jar
<eaMarket_install>/lib/xerces.jar
<eaMarket_install>/lib/eaMarket.jar
$ORACLE_HOME/product/<version>/jdbc/lib/classes12.zip
```

If you are using a third party Oracle thin driver, provide the path for that file. Paths for *crimson.jar*, *jaxp.jar*, *xerces.jar* must be set before any WebLogic JAR files.

The following example shows an example of the CLASSPATH where eaMarket is installed in */opt/EDCSmkt*, and Oracle9i is installed in */export/home/oracle*:

```
CLASSPATH=/opt/EDCSmkt/lib/crimson.jar:/opt/EDCSmkt/lib/
jaxp.jar:/opt/EDCSmkt/lib/xerces.jar:/export/home/oracle
/product/9.2/jdbc/lib/classes12.zip:/opt/EDCSmkt/lib/eaM
arket.jar:$WL_HOME:$WL_HOME/lib/weblogic_sp.jar:$WL_HOME
/lib/weblogic.jar
```



**Caution**

These entries **MUST** be inserted at the beginning of the CLASSPATH.

---

6. If the data source name is not the default **jdbc/eaMarket**, then add the following to the Java properties:

```
-DeaMDataStore=<DataSource Name>
```

The DataSource Name is the data source name given during installation.



**Caution**

This property **MUST** be inserted before

```
-Dweblogic.management.password=$WLS_PW
weblogic.Server
```

---



For example:

```
java $JAVA_OPTIONS -classpath $CLASSPATH
-Dweblogic.Domain=mydomain -Dweblogic.Name=myserver
-Dbea.home=/opt -Djava.security.policy=
/opt/bea/wlserver700/server/lib/weblogic.policy
-DeaMDataStore=jdbc/eaMarket
-Dweblogic.management.password=$WLS_PW weblogic.Server
```

7. Save and close file
8. Change the working directory to the WebLogic application domain. For example:

```
/opt/bea/wlserver700/server/bin
```

9. Open **startWLS.sh** with an editor.
10. Locate "(SunOS)" and add the **\$ORACLE\_HOME/lib** PATH to the **LD\_LIBRARY\_PATH** entry. For example:

```
(SunOS)
if [ -n "$LD_LIBRARY_PATH" ]; then
LD_LIBRARY_PATH=$LD_LIBRARY_PATH:$WL_HOME/lib/solaris:
/export/home/oracle/product/9.2/lib:$PATH
else
LD_LIBRARY_PATH=$WL_HOME/lib/solaris
```

11. Include **oci920\_8** in the **LD\_LIBRARY\_PATH** under Solaris OS. For example:

```
(SunOS)
if [ -n "$LD_LIBRARY_PATH" ]; then
LD_LIBRARY_PATH=$LD_LIBRARY_PATH:$WL_HOME/lib/solaris:$W
L_HOME/server/lib/solaris/oci920_8:/export/home/oracle/p
roduct/9.2/lib:$PATH
else
LD_LIBRARY_PATH=$WL_HOME/lib/solaris:$WL_HOME/server/lib
/solaris/oci920_8
```

12. Save and close file.
13. Switch to oracle user and carry out steps given below.

14. Go to *WL\_HOME/server/ext/jdbc/oracle/920*. For example:  
`/opt/bea/weblogic700/server/ext/jdbc/oracle/920`
15. Copy **classes12.zip** to *WL\_HOME/server/lib*.

## To Modify the `edx_mwi.config.bat` File for eaDirect

1. Go to the *\$EDX\_HOME/Config* folder and open the **edx\_mwi.config.bat** file.
2. Change the value of the `-Dedx.web.public` parameter to the web root folder in WebLogic as follows:

```
@set JAVA_OPTIONS=%JAVA_OPTIONS% -Dedx.web.public=<web  
root folder>
```

Example for WebLogic 6.1:

```
@set JAVA_OPTIONS=%JAVA_OPTIONS% -  
Dedx.web.public=/opt/wlserver6.1/config/mydomain/applications/  
DefaultWebApp
```

Example for WebLogic 7.0:

```
@set JAVA_OPTIONS=%JAVA_OPTIONS% -  
Dedx.web.public=/opt/bea/weblogic700/config/mydomain/app  
lications/DefaultWebApp
```

3. Save and close the file.

## Checking Directory Access

1. Login as the root user.
2. Change to WebLogic parent directory. For example:  
`cd /opt`
3. Change the group ownership for all directories and files under the WebLogic directory to the WebLogic owner. For example:  
`chgrp -R nobody <weblogicdir>`

4. Change the file ownership for all directories and files under the WebLogic directory to the WebLogic owner. For example:

```
chown -R nobody <weblogicdir>
```



All directories and files accessed by eaMarket (which is a WebLogic application) must be accessible to the WebLogic user (usually **nobody**). Sometimes processes can create files or directories with different owners and accesses. It is a good practice to check all eaMarket and WebLogic files and directories to make sure they are still owned by the WebLogic owner. The only exception is files that are needed for the database need to be accessible by the database user.

## Changing Directory Access for the Database Scripts

1. Login as the root user.
2. Change to the *EDCSmkt* directory of your eaMarket installation. For example:

```
cd /opt/EDCSmkt
```

3. Change the group ownership of the oracle directory and its files to the oracle owner's group. For example:

```
chgrp -R dba oracle
```

4. Change the file ownership of the oracle directory and its files to the oracle owner. For example:

```
chown -R oracle /op/EDCSmkt/db/oracle
```

## Configuring WebLogic 6.1 for eaMarket

Start WebLogic, so you can connect to the console.

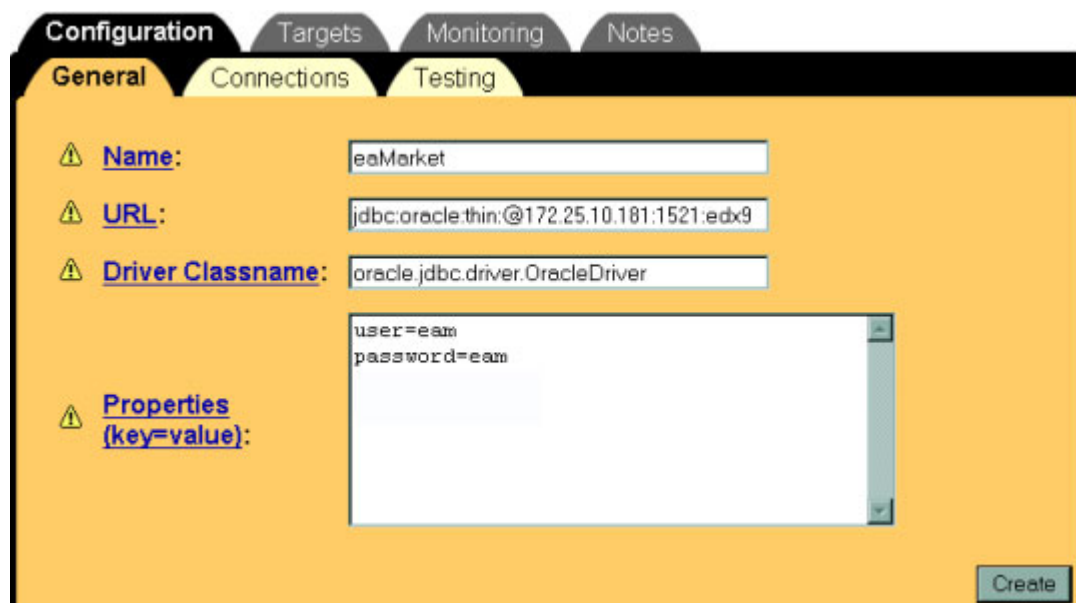
1. Login as the WebLogic user, usually **nobody**. For example:

```
su - nobody
```

2. Change the working directory to the WebLogic domain. For example:  
`cd /opt/bea/wlserver6.1/config/mydomain`
3. Start WebLogic server. For example:  
`./startWebLogic.sh`
4. Login to the WebLogic Server console. For example:  
`http://dusky:7001/console`

## To Create the Connection Pool

1. Select **Mydomain**, then **Services**, then **JDBC**, then **Connection Pools**.
2. Click **Create a new JDBC Connection Pool....**



The screenshot shows the WebLogic console interface for creating a new JDBC Connection Pool. The 'General' tab is selected, and the following fields are visible:

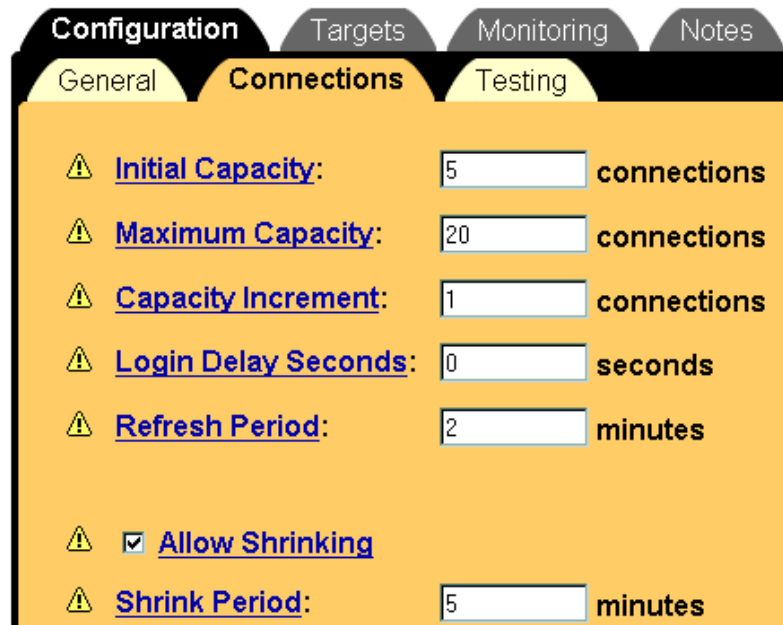
- Name:** eaMarket
- URL:** jdbc:oracle:thin:@172.25.10.181:1521:edx9
- Driver Classname:** oracle.jdbc.driver.OracleDriver
- Properties (key=value):**  
user=eam  
password=eam

A 'Create' button is located at the bottom right of the dialog.

Enter the following values:

Field	Description
Connection Pool Name	Enter a name for the connection to the datastore. For example, <b>eaMarket</b> .
URL	URL for the database as specified by JDBC. jdbc:oracle:thin:@<Server_Name/IP>:<port>:<service name>, where the <service name> matches the SID you specify during database configuration.
Driver class name	The name of the JDBC driver class, which is <b>oracle.jdbc.driver.OracleDriver</b> for eaMarket.
Properties	Enter the following values: <b>user=eam</b> <b>password=eam</b>

3. Click **Create**.
4. Select the **Connections** tab.



**Configuration** Targets Monitoring Notes

General **Connections** Testing

⚠ Initial Capacity: 5 connections

⚠ Maximum Capacity: 20 connections

⚠ Capacity Increment: 1 connections

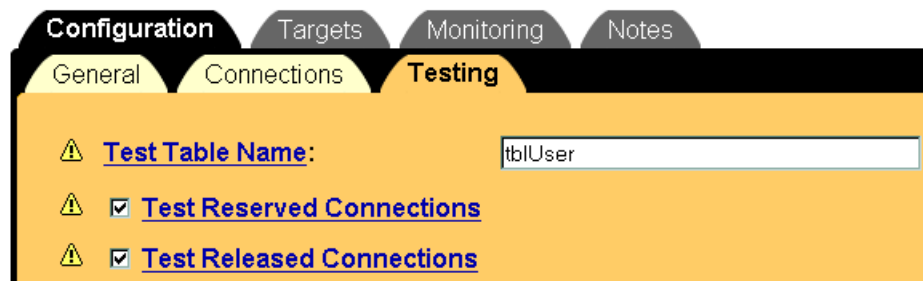
⚠ Login Delay Seconds: 0 seconds

⚠ Refresh Period: 2 minutes

⚠ ☒ Allow Shrinking

⚠ Shrink Period: 5 minutes

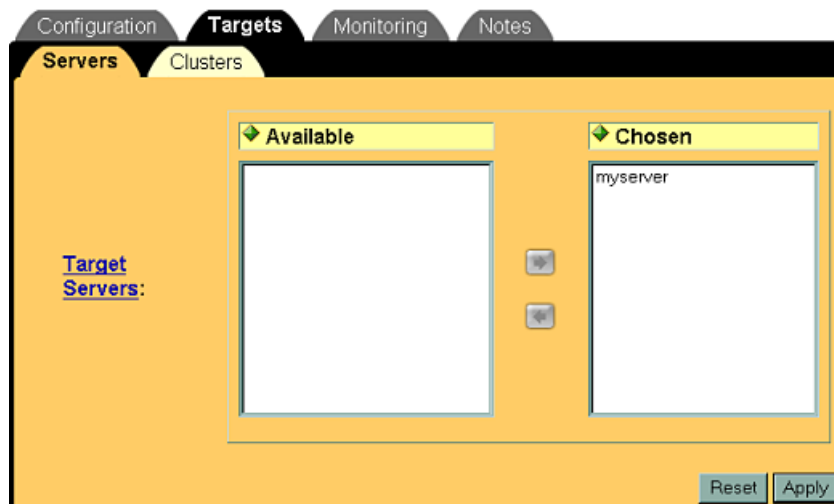
5. Enter the values shown in the above image and click **Apply**.
6. Select the **Testing** tab.



The screenshot shows the 'Configuration' window with the 'Testing' tab selected. The 'General' sub-tab is active. It contains three configuration items, each with a yellow warning icon:

- Test Table Name:** A text input field containing 'tblUser'.
- Test Reserved Connections:** A checkbox that is checked.
- Test Released Connections:** A checkbox that is checked.

7. Enter `tblUser` for **TestTable Name**. Check **Test Reserved Connections** and check **Test Released Connections**.
8. Click **Apply**.
9. Select the **Targets** tab.



The screenshot shows the 'Configuration' window with the 'Targets' tab selected. The 'Servers' sub-tab is active. It displays a 'Target Servers' section with two columns: 'Available' and 'Chosen'. The 'Chosen' column contains the entry 'myserver'. There are two arrow buttons between the columns for moving items. At the bottom right, there are 'Reset' and 'Apply' buttons.

10. Select the eaMarket server (**myserver**) and click **Apply**.
11. Select **Mydomain**, then **Services**, then **JDBC**, then **Data Sources**.
12. Click **Create a new JDBC Data Source**.

The screenshot shows the 'Configuration' tab of the eaMarket application server interface. It features three input fields, each preceded by a yellow warning icon:

- Name:** eaMarket
- JNDI Name:** jdbc/eaMarket
- Pool Name:** eaMarket

A 'Create' button is located at the bottom right of the configuration area.

13. Enter the JNDI Name. The default is **jdbc/eaMarket**. This is the same name given during installation for **JNDI Name of the eaMarket DataSource, default : jdbc/eaMarket [?,q]**.
14. Enter the connection pool name that you gave in step 2 below.
15. Click **Create**.
16. Select the **Targets** tab.

The screenshot shows the 'Targets' tab of the eaMarket application server interface. It features two columns for server selection:

- Available:** An empty list box.
- Chosen:** A list box containing the text 'myserver'.

Between the columns are two small buttons with arrows. At the bottom right, there are 'Reset' and 'Apply' buttons. On the left side, there is a link labeled 'Target Servers:'.

17. Select the required server and click **Apply**.

## To Deploy the eaMarket Application Archive

1. Select **Mydomain**, then **Deployments**, then **Applications**.
2. Click **Install a new Application**. The following screen displays:

**Upload and Install an Application**

Click on the 'browse' button below to locate an application archive on your local hard drive. When you have located the file, click 'upload' to install it on this WebLogic Administration Server. The following types of application files may be uploaded:

- A **.jar** containing EJBs (Enterprise Java Beans)
- A **.war** (Web Application Archive) containing JSPs and Servlets
- An **.ear** (J2EE Enterprise Application Archive) containing both EJBs and web applications

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

3. Browse to find *eaMarket.ear*, then click **Upload**.

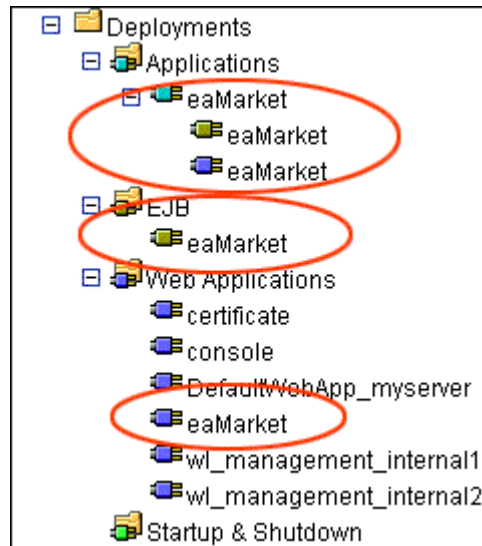


**Tip**

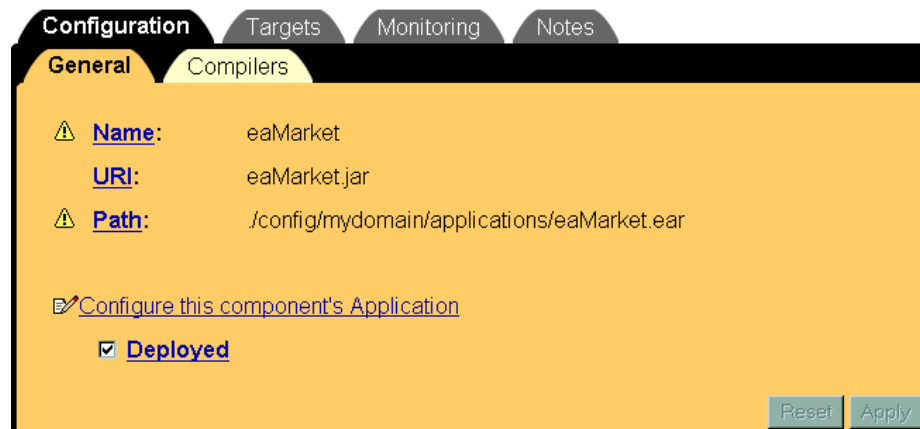
You must copy the EAR file from the eaMarket application server in the < *eaMarket\_install/J2EEApps/weblogic >/lib* directory to the system you are running the browser on in order to locate the EAR file.



4. Verify the **Deployments** tree has the following eaMarket entries.



5. Select **Deployments**, then **Applications**, then **eaMarket**. The following screen displays:



6. Verify that **Deployed** is checked. If not, check it and click **Apply**.

7. Select **Deployment**, then **Application**, then **eaMarket**, then **eaMarket** (for *eaMarket.war*):

The screenshot shows the 'Configuration' tab with the 'General' sub-tab selected. The main content area is yellow and contains the following fields:

- Name:** eaMarket
- URI:** eaMarket.war
- Path:** /config/mydomain/applications/eaMarket.ear

Below these fields is a checkbox labeled 'Configure this component's Application' which is checked. Underneath that is another checkbox labeled 'Deployed' which is also checked. At the bottom right of the yellow area are two buttons: 'Reset' and 'Apply'.

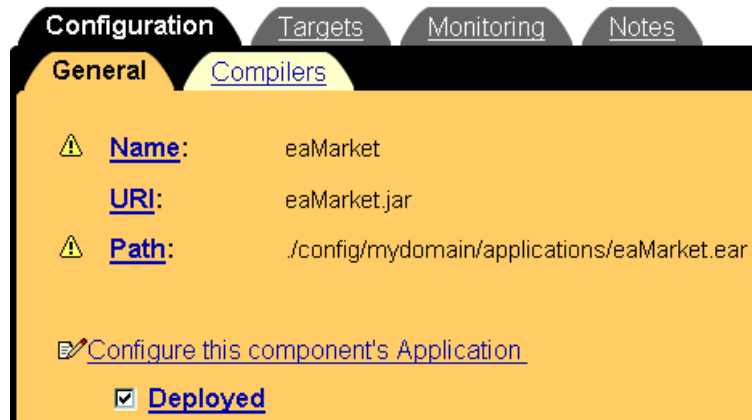
8. Verify that **Deployed** is checked. If not, check it and click **Apply**.
9. Select the **Targets** tab and verify that the required server is chosen. If not, click on the arrow to move it to the **Chosen** column, and click **Apply**.

The screenshot shows the 'Targets' tab with the 'Servers' sub-tab selected. The main content area is yellow and contains two columns of server lists:

- Available:** An empty list box.
- Chosen:** A list box containing the text 'myserver'.

Between the two list boxes are two small arrow buttons (one pointing right, one pointing left). To the left of the list boxes is the text 'Target Servers:'. At the bottom right of the yellow area are two buttons: 'Reset' and 'Apply'.

10. Select **Deployment**, then **Application**, then **eaMarket**, then **eaMarket** (for *eaMarket.jar*):



11. Verify that **Deployed** is checked. If not, check it and click **Apply**.
12. Select the **Targets** tab and verify that the required server is chosen. If not, click on the arrow to move it to the **Chosen** column, and click **Apply**.



13. Restart the WebLogic server.

## Configuring WebLogic 7.0 for eaMarket

Start WebLogic, so you can connect to the console.

1. Login as the WebLogic user, usually **nobody**. For example:  
`su - nobody`
2. Change the working directory to the WebLogic domain. For example:  
`cd /opt/bea/wlserver700/config/mydomain`
3. Start WebLogic server. For example:  
`./startWebLogic.sh`
4. Login to the WebLogic Server console. For example:  
`http://dusky:7001/console`

### To Create the Connection Pool

1. Select **Mydomain**, then **Services**, then **JDBC**, then **Connection Pools**.

- Click **Create a new JDBC Connection Pool**.... A screen similar to the following appears:

The screenshot shows a configuration window for creating a new JDBC Connection Pool. The window has a tabbed interface with 'Configuration', 'Targets', 'Monitoring', and 'Notes'. The 'Configuration' tab is active, and within it, the 'General' sub-tab is selected. The 'Connections' and 'Testing' sub-tabs are also visible. The 'General' sub-tab contains several fields, each with a yellow warning icon and a question mark. The fields are: 'Name' (value: eaMarket), 'URL' (value: jdbc:weblogic:mssqlserver4:eam), 'Driver Classname' (value: weblogic.jdbc.mssqlserver4.Driver), 'Properties (key=value)' (value: user=eamrkt, password=eamrkt), 'ACLName', 'Password', and 'Open String Password'. A 'Create' button is located at the bottom right of the window.

- The parameters for this screen are described in the following table:

Field	Description
Connection Pool Name	Enter a name for the connection to the datastore. For example: eaMarket.
URL	URL for the database as specified by JDBC. jdbc:oracle:thin:@<Server_Name/IP>:<port>:<service name>, where the <service name> matches the SID you specify during database configuration.
Driver class name	The name of the JDBC driver class, which is <b>oracle.jdbc.driver.OracleDriver</b> for eaMarket.
Properties	Enter the following values: <b>user=eam</b> <b>password=eam</b>

- Click **Create**.
- Click the **Connections** tab.

The screenshot shows the 'Configuration' window with the 'Connections' tab selected. The window has a title bar with 'Configuration', 'Targets', 'Monitoring', and 'Notes'. Below the title bar are tabs for 'General', 'Connections', and 'Testing'. The 'Connections' tab is active, displaying several configuration options, each with a yellow warning icon and a question mark:

- Initial Capacity:** 10
- Maximum Capacity:** 20
- Capacity Increment:** 1
- Login Delay Seconds:** 0 seconds
- Refresh Period:** 2 minutes
- ☐ **Supports Local Transaction**
- ☒ **Allow Shrinking**
- Shrink Period:** 15 minutes
- Prepared Statement Cache Size:** 0

An 'Apply' button is located in the bottom right corner.

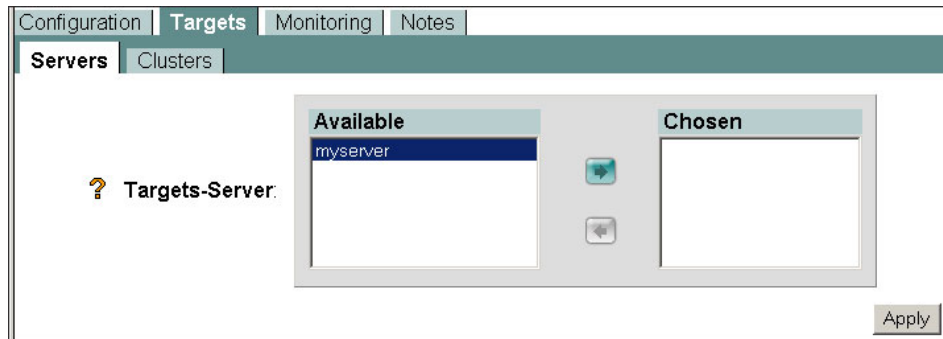
6. Enter the values shown in the above image and click **Apply**.
7. Click the **Testing** tab.

The screenshot shows the 'Configuration' window with the 'Testing' tab selected. The window has a title bar with 'Configuration', 'Targets', 'Monitoring', and 'Notes'. Below the title bar are tabs for 'General', 'Connections', and 'Testing'. The 'Testing' tab is active, displaying the following configuration options, each with a yellow warning icon and a question mark:

- Test Table Name:** tblUser
- ☒ **Test Reserved Connections**
- ☒ **Test Released Connections**

An 'Apply' button is located in the bottom right corner.

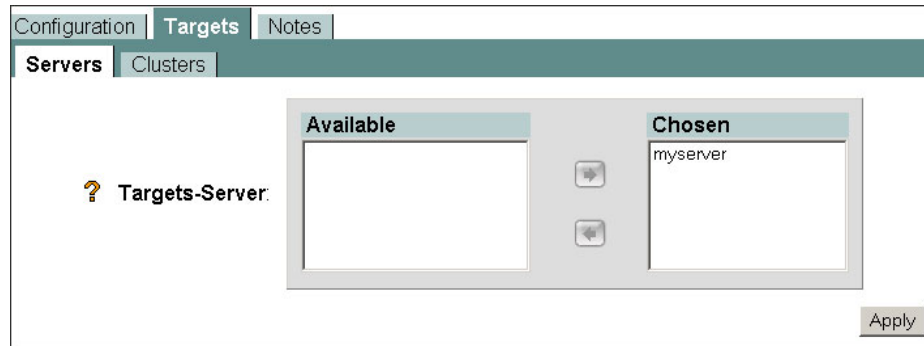
8. Enter **tblUser** for **TestTable Name**. Select the **Test Reserved Connections** and **Test Released Connections** check boxes. Click **Apply**.
9. Click the **Targets** tab.



10. Move the eaMarket server (**myserver**) to the Chosen column by clicking the arrow. Click **Apply**.
11. Select **Mydomain**, then **Services**, then **JDBC**, then **Data Sources**.
12. Click **Create a new JDBC Data Source** link.

13. Enter **jdbc/eaMarket** as the JNDI name (Use the name given during installation for the **JNDI Name**).
14. Enter the connection pool name that you gave above. Click **Apply**.

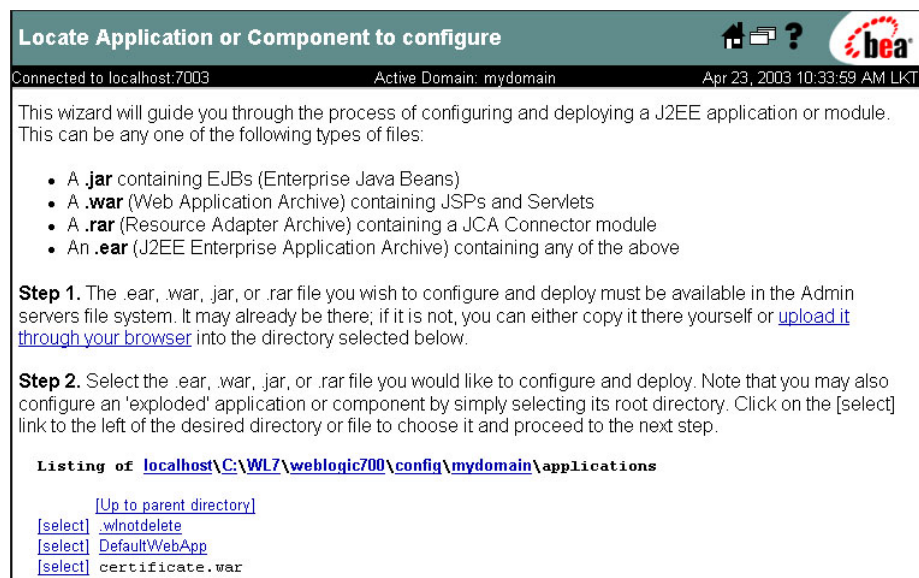
15. Click the **Targets** tab.



16. Select the required server and click **Apply**.

## To Deploy the eaMarket Application Archive

1. Select **Mydomain**, then **Deployments**, then **Applications**.
2. Click **Install a new Application**. The following screen appears:





3. Click the **upload it through your browser** link.



**Tip**

You must copy the EAR file from the eaMarket application server in the `<eaMarket_install/J2EEApps/weblogic>/lib` directory to the system you are running the browser on in order to locate the EAR file.

The following screen appears:

Install or Update an Application

Connected to localhost:7003

Active Domain: mydomain

Apr 23, 2003 10:35:40 AM LKT

Upload and Install an Application

Click on the 'browse' button below to locate an application archive on the machine from which you are browsing. When you have located the file, click 'upload' to install it on this WebLogic Administration Server. The following types of application files may be uploaded:

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

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

4. Click **Browse** and go to the `<eaMarket_install>/J2EEApps/weblogic` folder. Select the **eaMarket.ear** file and click **Upload**. The previous screen will appear with the eaMarket.ear file at the bottom.

**Step 2.** Select the .ear, .war, .jar, or .rar file you would like to configure and deploy. Note that you may also configure an 'exploded' application or component by simply selecting its root directory. Click on the [select] link to the left of the desired directory or file to choose it and proceed to the next step.

Listing of `localhost\C:\WL7\weblogic700\config\mydomain\applications`

[\[Up to parent directory\]](#)  
[\[select\]](#) `.winotdelete`  
[\[select\]](#) `DefaultWebApp`  
[\[select\]](#) `certificate.war`  
[\[select\]](#) `eaMarket.ear`

5. Click the **select** link next to eaMarket.ear. The following screen appears:

Configure Application or Component

Connected to localhost:7003

Active Domain: mydomain

Apr 23, 2003 10:37:02 AM LKT

Step 3. You have chosen to configure

C:\WL7\weblogic700\config\mydomain\applications\eaMarket.ear

Select the Servers and/or Clusters on which you would like to deploy this application initially. (You can reconfigure deployment targets later if you wish).

Available Servers

myserver

Target Servers

Step 4. Enter a name for this application.

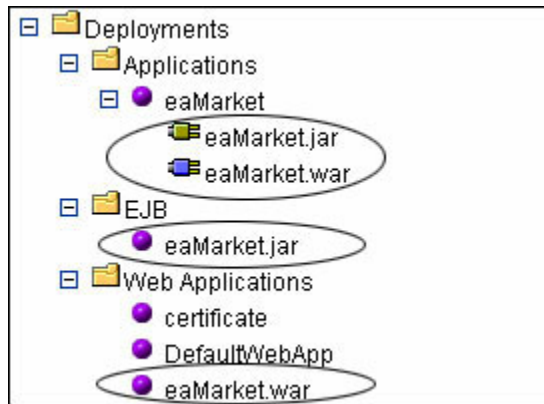
eaMarket

Step 5. Press 'Configure and Deploy' to configure and deploy the application, or 'Cancel' to leave the Domain unchanged.

Configure and Deploy

Cancel

6. Move the eaMarket server (**myserver**) to the Target Servers column by clicking the arrow.
7. Click **Configure and Deploy**.
8. Verify that the **Deployments** tree has the following eaMarket entries.



9. Restart the WebLogic server.



# Installing eaMarket Integration Components for eaDirect

# 4

This section describes how to install the eaMarket components on the eaDirect application server, the *edocs - eaMarket Promotion Management System - Standalone Tracking Component*, and how to configure support for a non-clustered environment. This package should be installed on the eaDirect Application server for separate eaDirect and eaMarket servers. If eaMarket is installed on the same server as eaDirect, then this component does not need to be installed on that server.

## Running the Installation Script

### To Install the Integration Components

1. From the */solaris* subdirectory on the installation CD-ROM, run the command to invoke the InstallAnywhere GUI:

```
# ./Markins.bin
```

This process loads all the eaMarket application files and sets up the hierarchy of subdirectories that eaMarket uses to store the application files. The default directory for the eaMarket distribution is */opt/EDCSmkt*. The installation script displays the message:

```
Preparing to install...
Extracting the JRE from the installer archive...
Unpacking the JRE...
Extracting the installation resources from the installer
archive...
Configuring the installer for this system's
environment...
Launching installer...
```

2. On the Introduction screen, read the eaMarket introductory information. Then click **Next**.
3. On the License Agreement screen, carefully read the terms of the agreement (use the scroll bars to move up and down on the screen) and accept the terms of the license agreement by clicking the appropriate radio button. Then click **Next**.
4. On the Enter Serial Number screen, enter your product serial number. It is stapled to the inside front cover of this guide (if your serial number has been misplaced, contact edocs Technical Support). Then click **Next**.
5. On the Owner of Web Application Server screen, enter the name of the application server owner (the recommended 'owner' is *nobody*). Then click **Next**.
6. On the Group of Web Application Server screen, enter the name of the group for the application server (the recommended group is *nobody*). Then click **Next**.
7. On the Choose Install Folder screen, accept the default installation folder (*opt/EDCSmkt*), or click **Choose** to specify another installation folder. Then click **Next**.
8. On the Choose Product Features screen, click **Tracking Component**. Then click **Next**.
9. On the Pre-Installation Summary screen, confirm that the information is accurate. Then click **Install**.  
  
At this point, the eaMarket components are copied to the designated installation folder. A status bar on the bottom of the screen shows each component being installed. No user intervention is required.
10. The Install Complete screen reports a successful installation and the directory that contains the Integration components.
11. Click **Done** to exit the installer.

## Configuring WebLogic

Configuring WebLogic on the eaDirect server that will deploy eaMarket promotions consists of updating the WebLogic startup script, deploying the eaMarket Web Archive file, and defining a directory where eaMarket can store content.

### To Update the Startup Script for WebLogic 6.1

1. Login as the WebLogic owner. For example:  
`su - nobody`
2. Change the working directory to the WebLogic domain. For example:  
`/opt/bea/wlserver6.1/config/mydomain`
3. Open `startWebLogic.sh` with an editor.
4. Add the following to the Java properties.  
`-DPROPDIR=<eaMarket Installation Root path>`



#### Tip

If the default data source name (`jdbc/eaMarket`) is used, then this parameter is NOT needed.



#### Caution

These properties MUST be inserted before

```
-Dweblogic.management.password=$WLS_PW
weblogic.Server
```

For example:

```
java $JAVA_OPTIONS -classpath $CLASSPATH
-Dweblogic.Domain=mydomain -Dweblogic.Name=myserver
-Dbea.home=/opt -Djava.security.policy=
/opt/bea/wlserver6.1/lib/weblogic.policy
-DPROPDIR=/opt/EDCSmkt
-Dweblogic.management.password=$WLS_PW weblogic.Server
```

5. Save and close file.

## To Update the Startup Script for WebLogic 7.0

1. Login as the WebLogic owner. For example:  
`su - nobody`
2. Change the working directory to the WebLogic domain. For example:  
`/opt/bea/wlserver700/config/mydomain`
3. Open *startWebLogic.sh* with an editor.
4. Add the following to the Java properties.  
`-DPROPDIR=<eaMarket Installation Root path>`



Tip

If the default data source name (**jdbc/eaMarket**) is used, then this parameter is NOT needed.



Caution

These properties MUST be inserted before

**-Dweblogic.management.password=\$WLS\_PW**  
**weblogic.Server**

For example:

```
java $JAVA_OPTIONS -classpath $CLASSPATH
-Dweblogic.Domain=mydomain -Dweblogic.Name=myserver
-Dbea.home=/opt -Djava.security.policy=
/opt/bea/wlserver700/lib/weblogic.policy
-DPROPDIR=/opt/EDCSmkt
-Dweblogic.management.password=$WLS_PW weblogic.Server
```

5. Save and close file.



## To Modify the edx\_mwi.config.bat File for eaDirect

1. Go to the `$EDX_HOME/Config` folder and open the `edx_mwi.config.bat` file.
2. Change the value of the `-Dedx.web.public` parameter to the web root folder in WebLogic as follows:

```
@set JAVA_OPTIONS=%JAVA_OPTIONS% -Dedx.web.public=<web  
root folder>
```

Example for WebLogic 6.1:

```
@set JAVA_OPTIONS=%JAVA_OPTIONS% -  
Dedx.web.public=/opt/wlserver6.1/config/mydomain/applications/  
DefaultWebApp
```

Example for WebLogic 7.0:

```
@set JAVA_OPTIONS=%JAVA_OPTIONS% -  
Dedx.web.public=/opt/bea/weblogic700/config/mydomain/app  
lications/DefaultWebApp
```

3. Save and close the file.

## To Modify the eaMarket.config File

1. Go to the eaMarket installation folder and open the `eaMarket.config` file.
2. Change the parameters to the following values:

```
configPath=<eaMarket installation folder>  
tracker.eaMarketURL=http://<serverName or IP>:<port>  
tracker.trackerLogFileName=<eaMarket installation  
folder>/temp/eaMarket.log  
tracker.trackRecorderName=<eaMarket installation  
folder>/temp/eaMarket.track  
webInterface.pathFileUpload=<eaMarket installation folder>/temp  
fileCachePath=<eaMarket installation folder>/temp/  
tempPath=<eaMarket installation folder>/temp/
```

For example:

```
configPath=/opt/EDCSmkt
tracker.eaMarketURL=http://<serverName or IP>:<port>
tracker.trackerLogFileName=/opt/EDCSmkt/temp/eaMarket.log
tracker.trackRecorderName=/opt/EDCSmkt/temp/eaMarket.track
webInterface.pathFileUpload=/opt/EDCSmkt/temp
fileCachePath=/opt/EDCSmkt/temp/
tempPath=/opt/EDCSmkt/temp/
```

3. Save and close the file.

## Deploying the eaMarket Web Archive File in WebLogic 6.1

1. Select **Mydomain**, then **Deployments**, then **Applications**.
2. Click **Install a new Application**. The following screen displays:

**Upload and Install an Application**

Click on the 'browse' button below to locate an application archive on your local hard drive. When you have located the file, click 'upload' to install it on this WebLogic Administration Server. The following types of application files may be uploaded:

- A **.jar** containing EJBs (Enterprise Java Beans)
- A **.war** (Web Application Archive) containing JSPs and Servlets
- An **.ear** (J2EE Enterprise Application Archive) containing both EJBs and web applications

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

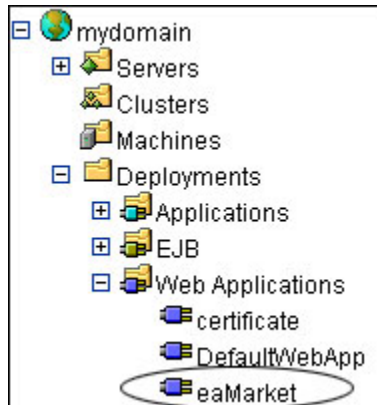
3. Browse to find *eamarket.war* in *<eaMarket\_install>/J2EEApps/weblogic* then click **Upload**.



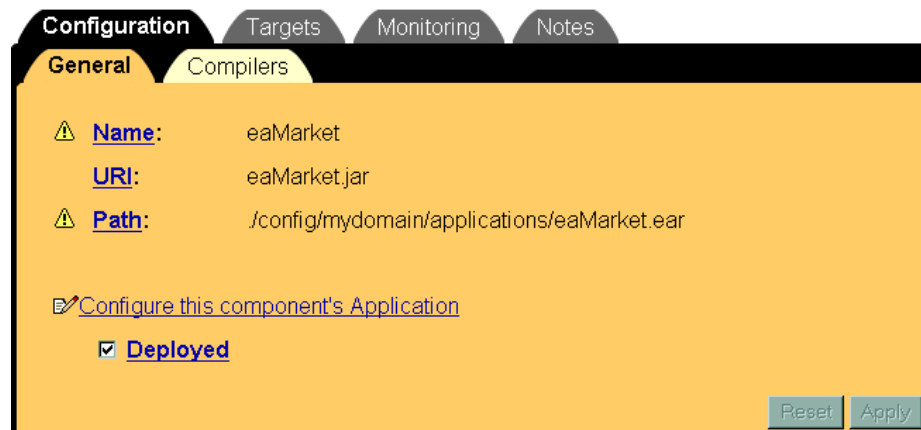
### Tip

You must copy the WAR file from the eaMarket application server to the system you are running the browser on in order to locate the war file.

4. Verify the **Deployments** tree has the following eaMarket entry.

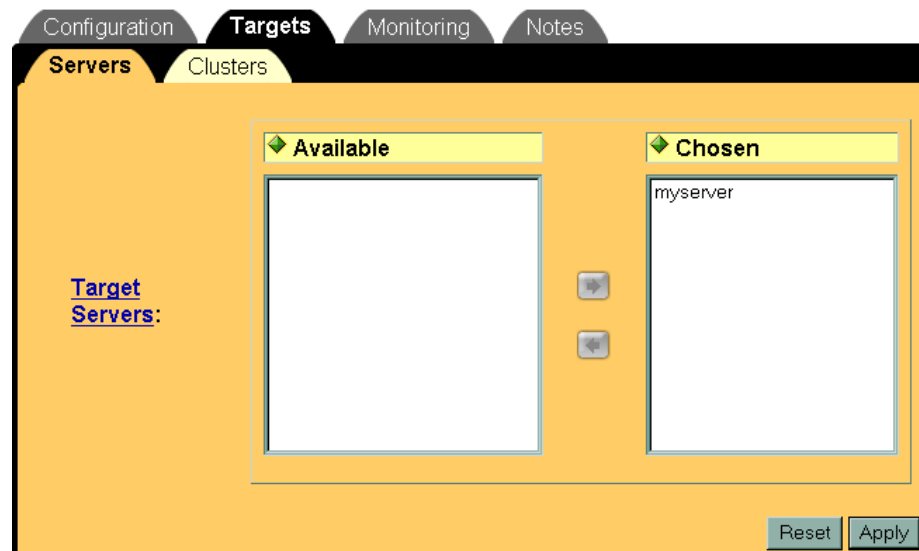


5. Select **Deployments**, then **Applications**, then **eaMarket**. The following screen appears:



6. Verify that **Deployed** is checked. If not, check it and click **Apply**.

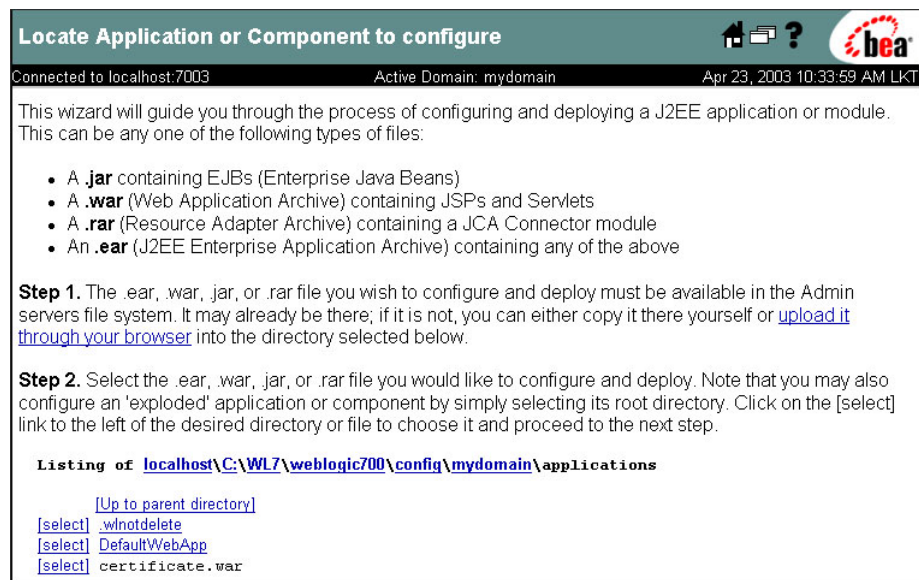
7. Click on **Targets** tab and verify that the server is the Chosen column. If the server is in the Available column, move it to the Chosen column and click **Apply**.



8. Restart the WebLogic server.

## Deploying the eaMarket Web Archive File in WebLogic 7.0

1. Select **Mydomain**, then **Deployments**, then **Applications**.
2. Click **Install a new Application**. The following screen appears:



3. Click the **upload it through your browser** link. The following screen appears:

Install or Update an Application

Connected to localhost:7003Active Domain: mydomainApr 23, 2003 10:35:40 AM LKT

Upload and Install an Application

Click on the 'browse' button below to locate an application archive on the machine from which you are browsing. When you have located the file, click 'upload' to install it on this WebLogic Administration Server. The following types of application files may be uploaded:

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

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

4. Click **Browse** and go to the `<eaMarket_inatall>/J2EEApps/weblogic` folder. Select the **eaMarket.war** file and click **Upload**. The previous screen will appear with the eaMarket.war file at the bottom.

**Step 2.** Select the .ear, .war, .jar, or .rar file you would like to configure and deploy. Note that you may also configure an 'exploded' application or component by simply selecting its root directory. Click on the [select] link to the left of the desired directory or file to choose it and proceed to the next step.

Listing of `localhost\C:\WL7\weblogic700\config\mydomain\applications`

[\[Up to parent directory\]](#)

[\[select\] .wnotdelete](#)

[\[select\] DefaultWebApp](#)

[\[select\] certificate.war](#)

[\[select\] eaMarket.war](#)

- Click the **select** link next to eaMarket.war. The following screen appears:

**Configure Application or Component**

Connected to localhost:7003      Active Domain: mydomain      Apr 23, 2003 10:37:02 AM LKT

**Step 3.** You have chosen to configure  
C:\WL7\weblogic700\config\mydomain\applications\eaMarket.war

Select the Servers and/or Clusters on which you would like to deploy this application initially. (You can reconfigure deployment targets later if you wish).

Available Servers		Target Servers
myserver	→	

**Step 4.** Enter a name for this application.

**Step 5.** Press 'Configure and Deploy' to configure and deploy the application, or 'Cancel' to leave the Domain unchanged.

- Move the eaMarket server (**myserver**) to the Target Servers column by clicking the arrow.
- Click **Configure and Deploy**.
- Verify that the **Deployments** tree has the following eaMarket entries.



- Restart the WebLogic server.





# Migrating to a New Version of eaMarket

# 5

## Migrating eaMarket

To upgrade eaMarket 3.4 to 4.0, you only need to update the EAR file.

The rest of this section contains information on how to upgrade eaMarket from version 2.1 to version 4.0.

There are three main steps to upgrading from eaMarket 2.1 to eaMarket 4.0.

1. Upgrade eaMarket 2.1 to eaMarket 4.0 by installing eaMarket 4.0. See the other chapters in this guide for information.



### Caution

Make sure to install eaMarket 4.0 in a different folder than eaMarket 2.1.

2. Migrate the eaMarket Databases. The rest of this chapter has information on migrating the database.
3. Configure WebLogic for eaMarket 4.0. Note that once you upgrade to eaMarket 4.0, you have to use either WebLogic 6.1 with SP 3 or WebLogic 7.0. See the other chapters in this guide for information.

## Upgrading eaDirect Applications

Before migrating an eaMarket database from eaMarket 2.1 to 4.0, you must upgrade the eaDirect applications used by eaMarket. All the profiles and pure conditions used in the ALFs must be converted to business conditions. (In eaMarket 2.1 business conditions were known as profiles.) Pure conditions are profiles defined in eaMarket by giving only a condition and no name. However, eaMarket names all profiles imported from eaMarket. As a result, to convert the profiles and pure conditions in the ALFs to business conditions, the business conditions must be updated with the names given by eaMarket.

Use the Composer tool in eaDirect version 4.0 to convert profiles and pure conditions in the ALFs to business conditions.



---

Make sure you upgrade your applications before migrating the database.

---

### To Upgrade eaDirect Applications:

1. Log into the eaMarket 2.1 system to find the names given by eaMarket to pure conditions.
2. In the Promotions page, select the **Add Promotion** link.
3. Select an eaDirect server, view and the application for which you want to upgrade the ALF. Then select any content library.
4. Proceed to the next page to select the sections/profiles. Click **General Promotions**, select any of the sections available and click **Search** to view the profiles. The profiles and pure conditions for the selected ALF are displayed.
5. The profile names generated by eaMarket for the pure conditions are prefixed with “Condition\_”. Click on each pure condition and write down the profile name and the corresponding profile description (or the actual profile condition), which is displayed in the Profile Description text box.

6. To convert a pure condition into a business condition, open the Composer tool and open the relevant ALF.
7. Inspect the conditions in the ALF and find the matching business condition description by comparing the profile descriptions taken from eaMarket. Update the business condition with the name given in eaMarket.  
  
For more information on updating eaDirect applications, see the eaDirect documentation.
8. Publish updated ALFs for the same application, so that after importing the applications the eaMarket database is updated with this data.
9. Shutdown the eaMarket application server (WebLogic server and eaMarket agents)

## Migrating eaMarket Databases

To migrate an existing eaMarket database to a newer version, you will have to run the database setup shell script *eamarket\_admin.sh*.



Migrating is only supported for Oracle 8i. If you want to upgrade Oracle from 8i to 9i make sure you upgrade the eaMarket database first and then upgrade to Oracle 9i. For information on upgrading from Oracle 8i to 9i see the document on *Upgrading eaDirect 4.0 From Oracle8i to Oracle9i*.

---



You should deploy all undeployed House Ads and Default Ads before carrying out the migration or you will have to create fresh House Ad promotions in place of the previous ones after migrating.

Also note that when the database is migrated, all the Default Ads will be converted to House Ads. If the same section has both a Default Ad and a House Ad, the Default Ad will be removed.

---

## Preparing to Migrate an eaMarket Database

Before you run the database admin script *eamarket\_admin.sh*, you should:

- Make a full backup of your current database.
- Start the database instance that accesses the database you are upgrading.
- Check the status of all user objects. If any of them indicate an INVALID status, contact the database administrator to correct this problem before migrating.
- Confirm that all login sessions using the eaMarket database user have logged out of the instance.

## To Run the Migration Script

To migrate an eaMarket database to a newer version:

1. Switch to oracle user, and change the directory to *<eaMarket\_Install>/db/oracle*. For example:  

```
$ su - oracle  
$ cd /opt/EDCSmkt/db/oracle
```
2. Run *eamarket\_admin.sh*. The edocs eaMarket Server Administration Main Menu appears.

```
edocs eaMarket Server Administration Main Menu Version 4.0  
-----  
          [1] Sign in Menu  
          [2] Capture Database File Locations  
          [3] Install edocs eaDirect  
          [4] Initial Data Population  
          [5] Database Version Migration  
          [Q] Quit  
-----  
Enter Your Selection: 5
```

3. Select option 5, **Database Version Migration**. The Database Version Migration menu appears.

```
Database Version Migration
-----
[1] Version 2.1 to Version 4.0
-----
[R] Return to previous menu
SELECT YOUR OPTION: 1
```

4. Select **1** and press Enter.
5. You will be prompted to enter the Oracle SID for the database, and your eaMarket username and password. For example:  

```
Please enter Oracle SID -> edx9
Enter Database Username -> edx_dba
Enter Database Password -> edx
```
6. Enter the installation path of the eaMarket application server. For example:  

```
opt/EDCSmkt
```
7. Once the migration is complete, the following message will be displayed:  

```
Ending migration process
```
8. If you wish to check the log files for errors check the log files found in the following folder: `<eaMarket_Install>/oracle/migration/21to40`.
9. Restart eaMarket and import the eaDirect applications.



### Setting the Directory for Promotion Storage

After eaMarket is installed, check the setting for the directory that stores images for promotions to be displayed on the eaDirect server. The path to this directory is specified in `$EDX_HOME/config/eam_mwi.config`. For example:

```
/opt/EDCSbd/config/edx_mwi.config
```

You can edit this file to point to any directory that exists or you create, as long as it is accessible to read, write and execute for the Unix user used for WebLogic (for example, `nobody`).

### Configuring a Data Store for eaMarket

A database user must be created and defined to WebLogic so eaMarket can store content. Creating a eaMarket Data Store consists of:

On the database server:

- Creating a new database user, and either sharing an existing tablespace or creating a new one.

On the eaMarket server:

- Configuring a WebLogic JDBC Connection Pool, Data Source and User to connect to that database user and tablespace.
- Creating a Data Store in eaMarket.

## To Create the Database User

Ask your DBA to create a user and (optionally) a tablespace for eaMarket. The command should be similar to the following, where the database user and password is eamdata:

```
create user eamdata
identified by eamdata
default tablespace eamdata
temporary tablespace temp
on temp account unlock;
```

You can share an existing tablespace with another database user. For example, EDX\_DATA used by eaMarket. However, using the same tablespace may create problems with content taking up too much space. Consult your DBA for guidance.

## To Configure WebLogic 6.1 for the Data Store

Log on to the WebLogic console, and follow these steps:

### Configuring the JDBC Connection Pool

1. Select **JDBC**, then **Connection Pools** and then click **Create a New Connection Pool**.



The screenshot shows a configuration window with tabs for Configuration, Targets, Monitoring, and Notes. Under Configuration, there are sub-tabs for General, Connections, and Testing. The Connections tab is active, displaying four fields with warning icons:

- Name:** eaMarketDS1
- URL:** dbc:oracle:thin:@172.25.10.181:1521:edx9
- Driver Classname:** oracle.jdbc.driver.OracleDriver
- Properties (key=value):** user=eamdata, password=eamdata

A 'Create' button is located at the bottom right of the configuration area.

2. Enter the values given below, then click **Create**:

Parameter	Description
Name	Enter a name for the connection to the datastore.
URL	Enter jdbc:oracle:thin:@<database server name>:<port>:<database name>. For example: <b>jdbc:oracle:thin:@172.25.10.181:1521:edx9</b>
Driver Classname	oracle.jdbc.driver.OracleDriver
Properties	<b>user=eamdata</b> <b>password=eamdata</b>

3. Select the **Connections** tab:

The screenshot shows the 'Configuration' window with the 'Connections' tab selected. The tab is highlighted in yellow. The window has a dark header with tabs: 'Configuration', 'Targets', 'Monitoring', and 'Notes'. Below the header, the 'Connections' tab is active, showing a yellow background. The settings are as follows:

Setting	Value	Unit
<b>Initial Capacity:</b>	5	connections
<b>Maximum Capacity:</b>	20	connections
<b>Capacity Increment:</b>	1	connections
<b>Login Delay Seconds:</b>	0	seconds
<b>Refresh Period:</b>	2	minutes
<b>Allow Shrinking</b>	<input checked="" type="checkbox"/>	
<b>Shrink Period:</b>	5	minutes

4. Enter the values shown in the preceding picture, and click **Apply**. Then select the **Testing** tab:

The screenshot shows the 'Configuration' window with the 'Testing' tab selected. The tab is highlighted in yellow. The window has a dark header with tabs: 'Configuration', 'Targets', 'Monitoring', and 'Notes'. Below the header, the 'Testing' tab is active, showing a yellow background. The settings are as follows:

Setting	Value
<b>Test Table Name:</b>	tblContent
<b>Test Reserved Connections</b>	<input checked="" type="checkbox"/>
<b>Test Released Connections</b>	<input checked="" type="checkbox"/>

Buttons: **Reset** **Apply**

5. Enter the values shown in the preceding picture, and click **Apply**.

6. Select the **Targets** tab, and move your eaMarket server (for example, **myserver**) from the **Available** to the **Chosen** column.

### Configuring the JDBC Data Source

1. Select **JDBC**, then **Data Sources** and click **Create New JDBC Datasource**:

The screenshot shows a configuration window with three tabs: 'Configuration' (selected), 'Targets', and 'Notes'. The 'Configuration' tab contains three labeled input fields, each preceded by a yellow warning triangle icon:

- Name:** eaMarketDataStore
- JNDI Name:** jdbc/ds1
- Pool Name:** eaMarketDS1

At the bottom right of the configuration area are two buttons: 'Reset' and 'Apply'.

2. Enter the following:

Parameter	Description
Name	Enter a name for this Data Source.
JNDI Name	jdbc/<database tablespace name>. For example: <b>jdbc/ds1</b>
Pool Name	Enter the name of the JDBC Connection Pool configured in the previous section. For example: <b>eaMarketDS1</b>

3. Click **Create**. Then select the **Targets** tab, and move your eaMarket server (for example, **myserver**) from the **Available** to the **Chosen** column.

## To Configure WebLogic 7.0 for the Data Store

Log on to the WebLogic console, and follow these steps:

### Configuring the JDBC Connection Pool

1. Select **JDBC**, then **Connection Pools**, then click **Create a New Connection Pool**.

The screenshot shows the 'Create a New Connection Pool' dialog box in the WebLogic console. The 'General' tab is active. The fields are filled with the following values:

- Name:** eamDS
- URL:** jdbc:weblogic:mssqlserver4:eaM...
- Driver Classname:** weblogic.jdbc.mssqlserver4.Driver
- Properties (key=value):** user=eamDS, password=eamDS
- ACLName:** (empty)
- Password:** (empty)
- Open String Password:** (empty)

A 'Create' button is located at the bottom right of the dialog.

2. Enter the following values:

Parameter	Description
Name	Enter a name for the connection to the data store. For example: <b>eamDS</b> .
URL	Enter jdbc:oracle:thin:@<database server name>:<port>:<database name>. For example: <b>jdbc:oracle:thin:@172.25.10.181:1521:edx9</b>
Driver Classname	<b>oracle.jdbc.driver.OracleDriver</b>

Parameter	Description
Properties	<code>user=eamDS</code> <code>password=eamDS</code>

3. Click **Create**.
4. Select the **Connections** tab.

Configuration | Targets | Monitoring | Notes

General | **Connections** | Testing

Initial Capacity: 10

Maximum Capacity: 20

Capacity Increment: 1

Login Delay Seconds: 0 seconds

Refresh Period: 2 minutes

☐ Supports Local Transaction

☒ Allow Shrinking

Shrink Period: 15 minutes

Prepared Statement Cache Size: 0

Apply

5. Enter the values shown in the above image and click **Apply**. Then click the **Testing** tab:

Configuration | Targets | Monitoring | Notes

General | Connections | **Testing**

Test Table Name: tblContent

☒ Test Reserved Connections

☒ Test Released Connections

Apply

6. Enter `tblContent` for **TestTable Name**. Select the **Test Reserved Connections** and **Test Released Connections** check boxes. Click **Apply**.
7. Click the **Targets** tab.

8. Move the eaMarket server (**myserver**) to the Chosen column by clicking the arrow. Click **Apply**.

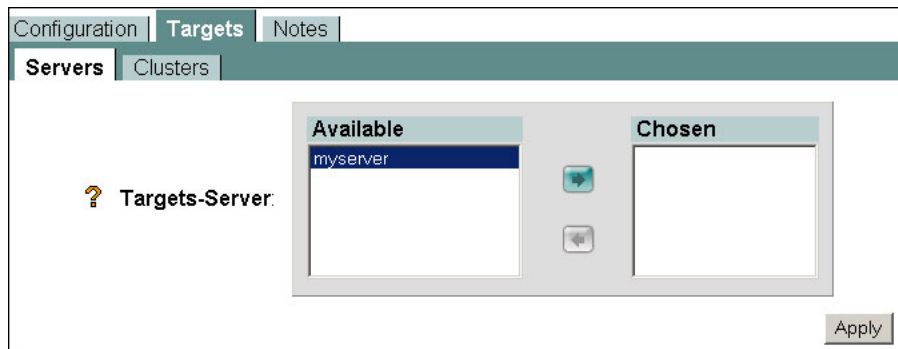
## Configuring the JDBC Data Source

1. Select **JDBC**, then **Data Sources** and click **Create New JDBC Datasource**:

2. Enter the following values:

Parameter	Description
Name	Enter a name for this Data Source. For example: <b>eamDS</b> .
JNDI Name	jdbc/<database tablespace name>. For example: <b>jdbc/eamDS</b> .
Pool Name	Enter the name of the JDBC Connection Pool configured in the previous section. For example: <b>eamDS</b>

3. Click **Apply**. Then click the **Targets** tab.



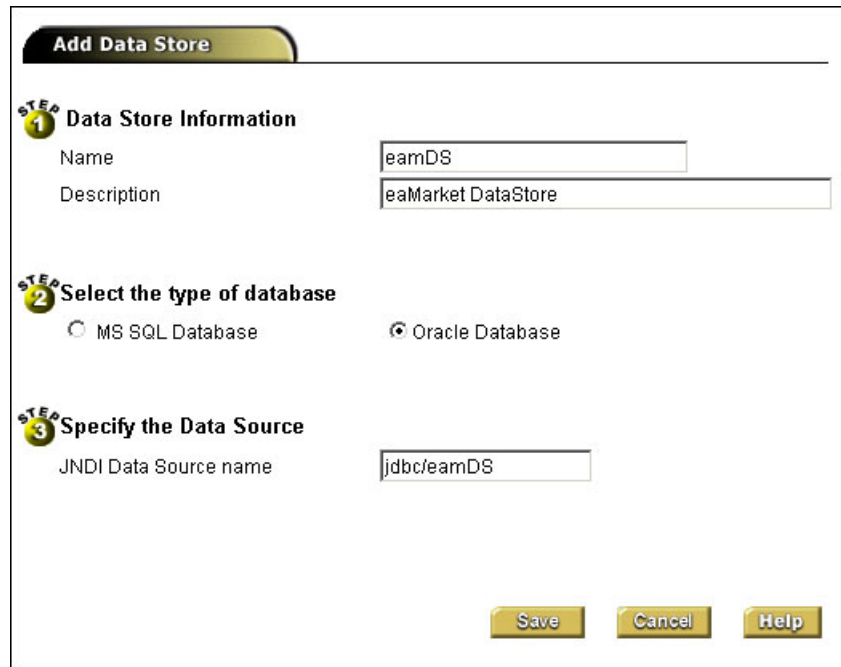
4. Move your eaMarket server (for example, **myserver**) from the Available to the Chosen column. Click **Apply**.

## To Create a Data Store in eaMarket

This step assumes that eaMarket has been setup on the database and (optionally) eaDirect servers.

1. Log in to eaMarket as the Administrator. For example:  
<http://<eaMarket Server>:<WebLogic port>/eaMarket>
2. Select **Administration**, then **Data Stores**.

3. Click **Add Data Store**.



The screenshot shows a 'Add Data Store' wizard with three steps:

- STEP 1 Data Store Information:** The 'Name' field contains 'eamDS' and the 'Description' field contains 'eaMarket DataStore'.
- STEP 2 Select the type of database:** Two radio buttons are present: 'MS SQL Database' (unselected) and 'Oracle Database' (selected).
- STEP 3 Specify the Data Source:** The 'JNDI Data Source name' field contains 'jdbc/eamDS'.

At the bottom right, there are three buttons: 'Save', 'Cancel', and 'Help'.

4. Enter the following information:

Area/Parameter	Description
Step 1	Enter a unique name, for example <b>eamDS</b> .
Step 2	Select <b>Oracle Database</b> .



Area/Parameter	Description
Step 3	Specify the JNDI datasource: JNDI Data Source Name matches the JNDI Name in the <b>JDBC Data Source</b> defined in WebLogic in the previous section. For example <b>jdbc/eamDS</b>

## Setting the Tracking Server

The location of the Tracking server for eaMarket must be configured in the eaMarket configuration page

1. Connect to the eaMarket server giving the URL in the following format:  
**http://<servername>:<port number>/eaMarket**
2. Login using **Administrator** as the user and **admin** as the password.
3. Click on the **Administration** tab in the left navigation panel.
4. Click **eaMarket Preference** and change the following parameters:
  - In the **Server Information** section, for the **Server Information** field, verify that the name of the server is correct.
  - In the **Tracker** section, for the **Tracker** option you may need to change the **Transfer track summary to the eaMarket server who's URL is** to the URL to the eaMarket server.
5. Click **Save**.
6. Once the changes are made, restart the WebLogic server

## Starting the Agents

Start the agent that performs promotion deployment, scheduled imports, workflow, notification and logging.

1. Login as the WebLogic owner. For example, **nobody**.
2. Change the working directory to *<eaMarket\_install>*. For example:  

```
cd /opt/EDCSmkt
```
3. Run the agent script. It should be in the following format:  

```
./wl_eam_init -start -url t3://<host>:<port>
```

For example:

```
./wl_eam_init -start -url t3://avalanche:7001
```
4. Make sure that log files are created in *<eaMarket\_install>/log*. An example log file name is:  

```
CUniqueIdRemote.log
```

## Stopping the Agents

Stop the agent as part of shutting down eaMarket.

1. Login as the WebLogic owner. For example, **nobody**.
2. Change the working directory to *<eaMarket\_install>* and run the agent script. For example:  

```
cd /opt/EDCSmkt  
./wl_eam_init -stop
```



### Caution

application) must be accessible to the WebLogic user (usually, the user **nobody**). Sometimes processes can create files or directories with different owners and accesses. It is good practice to check all eaMarket and WebLogic files and directories to make sure they are still owned by the WebLogic owner. The only exception is files that are needed for the database, which need to be accessible by the database user.

## Setting up Xvfb

Java's graphic packages that are part of eaMarket are based on *java.awt*, which requires X libraries and an X display. To support this, the web server rendering charts must have the X libraries installed and must have access to an X server. Even for sites where the server has an attached display device, there may be difficulty loading X libraries if they are not already present. To simplify X configuration, charting can use the virtual frame buffers provided by Xvfb.

If you do not already have Xvfb installed on your machine, you can get it from any internet site for X11. Un-tar the archive and install it under */usr/X11R6*.

### To Set Display Permission

The command in UNIX environments that allows X displays on a particular machine from other machines is: **xhost +**. Without arguments, commands following the + implies all machines (as opposed to named machines only).

If xhost is already on your path, type the following command. (xhost may exist in the */usr/openwin/bin* folder, which you can add to your PATH in your *.profile*).

At the command prompt, type: **xhost +**

### To Set the Display Device

The Xvfb command starts the virtual frame buffer, and is located in */usr/X11R6/bin*. To use Xvfb:

1. Open an Xterm window on the main console of the server.
2. Set the *DISPLAY* environment variable for Xvfb to use as follows:

```
export DISPLAY=10.2.1.125:0.0
```

3. Assuming that Display 2 will be used for Xvfb, then start the Xvfb server as follows:

```
/usr/X11R6/bin/Xvfb :2 -screen scrn 800x600x24 &
```



**Tip**

The "&" allows you to close the command window and still leave the task running in the background.

You can edit the */etc/profile* file to set the DISPLAY environment variable for all sessions and all users, and create a startup script in the */etc/rc3.d* directory to automatically startup the Xvfb server when the system is rebooted.

4. Restart the eaMarket application server, after setting up Xvfb.

## Uninstalling eaMarket

When uninstalling eaMarket, it is recommended that you repeat the sequence used to install the application. That is, remove eaMarket from the database server first, then the application server.

### To Uninstall the eaMarket Database Server Components

1. Shut down the Database Server and Oracle listener. Log in as the **oracle** user, make sure that **ORACLE\_SID** is set to the eaMarket Oracle SID, and run the following command:

```
$ sqlplus /nolog
```

```
SQL*Plus: Release 9.2.0.1.0 - Production on Tue Apr 29  
15:50:24 2003
```

```
Copyright (c) 1982, 2002, Oracle Corporation. All  
rights reserved.
```

```
SQL> connect sys/<sys password> as sysdba  
Connected.  
SQL> shutdown immediate  
SQL> exit
```

2. Locate all files associated with the eaMarket SID. For example:

```
find . -name '*eamarket*' -print
```

The result should look similar to the following:

```
./product/9.2.0.1.0/dbs/initeamarket0.ora
./admin/eamarket0
./admin/eamarket0/bdump/alert_eamarket0.log
./admin/eamarket0/bdump/eamarket0_lgwr_4807.trc
./admin/eamarket0/pfile/initeamarket0.ora
./admin/eamarket0/udump/eamarket0_ora_4814.trc
./admin/eamarket0/udump/eamarket0_ora_4831.trc
./admin/eamarket0/udump/eamarket0_ora_4915.trc
./admin/eamarket0/udump/eamarket0_ora_4916.trc
./admin/eamarket0/udump/eamarket0_ora_7797.trc
./u02/oradata/eamarket0
./u02/oradata/eamarket0/data/syseamarket0.dbf
./u02/oradata/eamarket0/data/undoeamarket0.dbf
./u02/oradata/eamarket0/data/tmpeamarket0.dbf
```



**Tip**

There may be additional log files. Their paths depend on variations in the local eaMarket installation.

3. Remove the files and directories with a suitable UNIX command.
4. To uninstall eaMarket, switch to *root* and navigate to *the /<eaMarket\_Install>/Uninstall* folder and run the following script:  

```
./Uninstall_eaMarket
```
5. Manually remove any files that were not removed by the InstallAnywhere tool.

## To Uninstall eaMarket

1. Stop all eaMarket Services using the `wl_eam_init` shell script.
2. From the WebLogic console, undeploy the `eaMarket.ear` or the `eaMarket.war` (if only the `eaMarket.war` was deployed as part of the eaMarket tracking component). Delete them through the WebLogic console and manually remove these files from the location to which they were deployed. For example:  
For WebLogic 6.1:  
`/opt/bea/wlserver6.1/config/mydomain/applications`  
For WebLogic 7.0:  
`/opt/weblogic7/weblogic700/config/mydomain/applications`
3. Delete the JDBC Connection Pool, JDBC Data Source created for eaMarket.
4. To uninstall eaMarket, switch to *root* and navigate to *the /<eaMarket Installation folder>/Uninstall* folder and run the following script:  
`Uninstall_eaMarket`
5. Delete the folder where the eaMarket application was installed.



---

If you plan to install the latest version of eaMarket, the Setup program will handle the existing database, and therefore, the database will not need to be deleted.

---

6. Remove any eaMarket entries from the **CLASSPATH** environment variable of the Solaris environment.
7. Manually remove any files that were not removed by the InstallAnywhere tool.