



# Migration Guide for Oracle Siebel eaSuite 4.7

Version 4.7

May 31, 2007

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# 1

## Migration Overview

### Summary of Migration Steps

This guide describes how to migrate from eStatement Manager and ePayment Manager version 4.3 to version 4.7. If you need to migrate from an earlier version, you must migrate to version 4.3 first.

The eStatement Manager and ePayment Manager products are collectively referred to as eaSuite.

This guide uses the term **upgrade** to describe changing installed software to a newer release.

Changing a database instance to *use* new software is defined as **migration**.

#### *Migrating from eaSuite 4.3 to 4.7 requires you to:*

- 1 Record your current payment configuration information.
- 2 Back up your eaSuite 4.3 data directories (AppProfiles, Data, Input, Output, and Store in <EDX\_HOME>).
- 3 Export your existing eaSuite 4.3 database and check logins and user objects.
- 4 Install eaSuite 4.7.
- 5 Replace the content in the data directories AppProfiles, Data, Input and Output folders created inside <EDX\_HOME> with the eaSuite 4.3 folder contents.
- 6 Upgrade your database software version (Oracle 9i to 10g).
- 7 Create an Oracle Instance and create tablespaces and users.
- 8 Import the eaSuite 4.3 database.
- 9 Migrate your eStatement Manager and ePayment Manager databases.
- 10 Check for errors and reset permissions after database migration.
- 11 Upgrade your application server version.
- 12 Update database passwords for your application server.
- 13 Reconfigure your application server and redeploy new versions of the J2EE applications.
- 14 Reconfigure the Payment Settings in the Command Center.

**CAUTION:** The installation and configuration examples shown in this guide use default eStatement Manager and ePayment Manager pathnames, privileges, and permissions. If you choose not to accept the default values, make sure your values are consistent on all servers across your installation of eaSuite.

# System Requirements

eaSuite 4.7 requires new versions of operating systems, database, and application server software.

See the *Installation Guide for Oracle Siebel eStatement* for eaSuite 4.7 system requirements.

## What's New in eaSuite 4.7

- There is no separate logger script to run separately.
- XMA modules have been introduced.
- 3rd party libraries have been upgraded to the most current versions (for example, Spring).
- J2EE version (1.4) compliance.
- JDK version (1.5) support.
- Application servers supported: WebLogic version 9.2, WebSphere version 6.1, and Oracle Application Server 10g R3.
- Database servers supported: Oracle 10g R2.
- Linux platform support.
- New features for eStatement Manager and ePayment Manager.
- The user interface has been rebranded for Oracle Corporation.
- Compilation of core module support using latest compilers (GCC for Linux, Sun Studio 11 for Solaris 10, Visual Studio 8 for Windows 2003).

## Backing Up Your Data and Payment Configuration Details

*To record your existing ePayment Manager Configuration information:*

- 1 Log in to the Command Center.
- 2 Click **Settings** and **Payment Settings**. The Payment Settings page appears.

Payment Configuration			
Global Configuration			
DDN	Action	Payment Type	Gateway
indexer1	Create	check	-
	Create	ccard	-
indexer2	Create	check	-
	Create	ccard	-
payment1	Update Delete	check	ach
	Update Delete	ccard	verisign
payment2	Update Delete	check	ach
	Update Delete	ccard	verisign

- 3 Write down all payment gateway settings and the DDNs used to run ePayment Manager jobs.
- 4 Delete all payment gateway configurations using the **Delete** link under the Action column.

*To back up existing data:*

- 1 Shut down the application server, the database server, Scheduler, and logger services. Once stopped, rename your existing %EDX\_HOME% folder under a different name.

## Installing eaSuite 4.7

### Installing the New Application

When installing the new application, make sure it's installed to the same location with the same folder name as the old one.

Once the installation is complete, restore the following folders from the backed-up application folder to the corresponding locations in the new application folder:

- %EDX\_HOME%\AppProfiles
- %EDX\_HOME%\Data
- %EDX\_HOME%\Input
- %EDX\_HOME%\Output
- %EDX\_HOME%\Store

## Database Upgrade and Migration

Old versions of the database servers are no longer supported. You must upgrade your database server software, then migrate the database.

See the appropriate instructions in this guide to upgrade your database software product version and to migrate the eaSuite database schema to be compatible with the latest version of eaSuite.

# Application Server Installation and Configuration

eaSuite 4.7 supports the following versions of the application servers (or higher) and is not backward-compatible with previous versions of these application servers:

- WebLogic 9.2
- WebSphere 6.1
- Oracle Application Server 10g R3

You must recapture the environment variable information as part of the migration.

See the instructions in this guide and in the *Installation Guide for Oracle Siebel eStatement Manager* for information on how to set up your application server environment for use with eaSuite.

# 2

## Upgrading from Oracle Version 9i to 10g on Solaris

### About Upgrading the Oracle Version

This section describes the tasks required to upgrade eaSuite 4.x software and migrate eaSuite 4.x databases from Oracle 9i to Oracle 10g on Solaris.

This information is intended for Oracle database administrators, and assumes familiarity with database administration tasks, including:

- Making database backups
- Running the exp and imp utilities
- Creating databases
- Creating database users
- Dropping and creating tablespaces
- Installing and configuring eaSuite on a database server

If you need help with any of these topics, see the Related Documentation described below.

### Related Documentation

You need a user name and password to access Oracle documentation on the Web.

Document/URL	Description/Doc ID
Oracle10g Installation Guide Release 2 (10.2.0.1.0) for UNIX Systems: AIX-Based Systems, Compaq Tru64 UNIX, HP 9000 Series HP-UX, Linux Intel, and Sun Solaris	How to install Oracle 10g. Part No. b25300
<a href="http://download-west.oracle.com/docs/cd/B19306_01/install.102/b25300/toc.htm">http://download-west.oracle.com/docs/cd/B19306_01/install.102/b25300/toc.htm</a>	
Oracle10g Database Administrator's Guide Release 2	How to create a new database, etc. Part No. b14231
<a href="http://download-west.oracle.com/docs/cd/B19306_01/server.102/b14231/toc.htm">http://download-west.oracle.com/docs/cd/B19306_01/server.102/b14231/toc.htm</a>	
Oracle9i Database Utilities Release 2 (9.2)	How to use imp, exp, and other utilities. Part No. a96652
<a href="http://download-west.oracle.com/docs/cd/B10501_01/server.920/a96652/toc.htm">http://download-west.oracle.com/docs/cd/B10501_01/server.920/a96652/toc.htm</a>	
Oracle10g Database Utilities Release 2	How to use imp, exp, and other utilities. Part No. b14215
<a href="http://download-west.oracle.com/docs/cd/B19306_01/server.102/b14215/toc.htm">http://download-west.oracle.com/docs/cd/B19306_01/server.102/b14215/toc.htm</a>	
Oracle10g Net Services Administrator's Guide Release 2	How to configure tnsnames.ora, etc. Part No. b14212
<a href="http://download-west.oracle.com/docs/cd/B19306_01/network.102/b14212/toc.htm">http://download-west.oracle.com/docs/cd/B19306_01/network.102/b14212/toc.htm</a>	
<i>Installation Guide for Oracle Siebel eStatement Manager</i> Go to <a href="http://supportweb.siebel.com/">http://supportweb.siebel.com/</a> . Choose Product Documentation, Siebel Self-Service (edocs) Product Documentation.	How to install eStatement Manager; how to configure the Oracle database.

## Software Requirements

Preparation guidelines, hardware and software requirements, and recommendations for installing Oracle 10g are defined in Oracle's *Oracle 10g Installation Guide*. Review the first few chapters of this guide before installing Oracle 10g, and ensure that your systems are properly set up and configured.

## Overview of Upgrade Steps

*Upgrading your eaSuite database from Oracle9i to Oracle10g requires you to:*

- 1 Ensure your environment meets system requirements.
- 2 Export your eaSuite database from Oracle9i.
- 3 Install Oracle10g to upgrade your database software.
- 4 Create a new Oracle10g database instance to migrate your databases (don't populate initial data).
- 5 Create tablespaces / user in the new database.
- 6 Import your Oracle9i database into the new database.
- 7 Update Oracle administrative files to refer to the new SID.
- 8 Migrate the eStatement database to release 4.7.
- 9 Update your application server environment with `edx_config` to refer to the correct Oracle home directory and database instance for eStatement Manager. Also update `edx_payment.config` for ePayment Manager.
- 10 Update your application server configuration file to refer to the new SID.

## Exporting your eStatement Database

*To export your eStatement database:*

- 1 As the Oracle DBA, export a copy of your existing Oracle9i database with the `exp` utility in full mode, for example:

```
exp system/manager@sid file=edx0_export FULL=Y
```

**CAUTION:** When performing the export, ensure the Oracle 9i database and listener are running in order to perform the export successfully.

This creates a flat file version of your database that you will import later. Do not use the database user username/password, for example `edx_dba/edx`, as only the Oracle DBA user supports full mode for export.

For details about the `exp` utility, see the *Oracle9i Utilities* guide.

**CAUTION:** Be sure to export any **custom** tablespaces you have added to your eStatement database.

## Installing Oracle10g

Follow the instructions in the *Oracle10g Installation Guide*. During the install, the Oracle Universal Installer prompts for several values.

**When running the Oracle Universal Installer:**

- Uncheck the “create starter database” option to avoid creating a new database during installation. You create your eStatement Manager database separately.
- As the database user, navigate to your Oracle home directory and change the Oracle profile (.profile) to refer to the 9i version of the Oracle home directory.

**TIP:** To use direct load for eStatement Manager indexing, you must install the Oracle10g client on your application server. For details, see the *Installation Guide for Oracle Siebel eStatement Manager* and the *Administration Guide for Oracle Siebel eStatement Manager*.

For details, see the Oracle® Database Administrator's Guide 10g Release 2 (10.2)

## Creating a New Oracle10g Database

You can use ant to create a new eaSuite database instance (see the *Installation Guide for Oracle Siebel eStatement Manager*).

**To create new Oracle database instance:**

- 1 Configure edxadmin.properties; change the directory to your eaSuite database home directory. For example:

```
cd <EDX_HOME>/db/oracle
```

- 2 Start the ant script with the command:

```
ant
```

The Main Menu appears:

Main:

```
[echo] [1]. Install eaSuite Database
```

```
[echo] [2]. Initial Data Population
```

```
[echo] [Q]. Quit
```

```
[input] Enter your selection (1, 2, q, Q)
```

- 3 Select Option 1, Install eaSuite Database. The Install eaSuite Database menu appears:

CreateInitDatabaseMenu:

```
[echo] Install eaSuite Database
```

```
[echo] [1]. Create Oracle Instance
```

```
[echo] [2]. Shutdown Database
```

```
[echo] [3]. Startup Database
```

```
[echo] [4]. Install Application Database I - Create tablespace/user
```

```
[echo] [5]. Install Application Database II - Create tables
[echo] [6]. Install Application Database III - Install PL/SQL Code Base
[echo] [Q]. Quit
[input] Enter your selection (1, 2, 3, 4, 5, 6, q, Q)
```

- 4 Select Option 1, Create Oracle Instance. This step creates a database instance for eaSuite and defines a data dictionary and stored procedure for the new database. This option may take more than 30 minutes to complete. Check the "create\_db.log" log files for any errors.

If this step is successful, the following message appears:

init:

```
[echo] Creating database instance...please wait
[exec] SQL*Plus: Release 10.2.0.1.0 - Production on Wed Jul 5 15:59:24 2006
[exec] Copyright (c) 1982, 2005, Oracle. All rights reserved.
[exec] Connected to an idle instance.
[exec] ORACLE instance started.
[exec] Total System Global Area 1258291200 bytes
[exec] Fixed Size          1978336 bytes
[exec] Variable Size       318771232 bytes
[exec] Database Buffers    922746880 bytes
[exec] Redo Buffers        14794752 bytes
[exec] SQL> Disconnected from Oracle Database 10g Enterprise Edition Release
[exec] With the Partitioning, OLAP and Data Mining option
```

**[echo] Initializing database instance...please wait**

- 5 After creating the database instance, the system displays the command prompt. Execute the ant build script again, which displays the "CreateInitDatabaseMenu" menu.
- 6 Select Option 2, Shutdown Database. If this step is successful, the following messages appear:

ShutdownDatabase:

```
[echo] Shutdown database...please wait
[exec] Database closed.
[exec] Database dismounted.
[exec] ORACLE instance shut down.
```

- 7 Select Option 3, Startup Database. If this step is successful, the following messages appear:

```

StartupDatabase:
[echo] Startup database...please wait
[exec] ORACLE instance started.
[exec] Total System Global Area 1258291200 bytes
[exec] Fixed Size          1978336 bytes
[exec] Variable Size       318771232 bytes
[exec] Database Buffers   922746880 bytes
[exec] Redo Buffers       14794752 bytes
[exec] Database mounted.
[exec] Database opened.

```

**CAUTION:** You cannot migrate an existing Oracle 9i database directly for eStatement Manager. You must create a new Oracle10g database and export/import your data. Be sure that database creation is successful before proceeding to the next step.

## Creating Tablespaces, User in New Database

If you have created any custom tablespace or modified any parameter of tablespace on your eStatement database, then you need to create all tablespaces manually. If you haven't made any changes to tablespaces, then you can use above ant script to create the tablespaces and user.

*Create the following tablespaces in the new database for eStatement Manager manually (this also supports ePayment Manager):*

```

edx_data
edx_data_idx
edx_pwc_data
edx_pwc_data_idx
edx_app_data
edx_app_data_idx
edx_cda_data
edx_cda_data_idx
edx_load_data
edx_load_data_idx
edx_fs_data
edx_fs_data_idx

```

```
edx_stage_data  
edx_stage_data_idx
```

**CAUTION:** Be sure to create any **custom** tablespaces you have added to your eStatement database.

*Create a new user for the new database manually:*

- 1 Create a new DBA user for the new database, for example `edx_dba` for eStatement Manager and ePayment Manager.

- 2 Execute the CREATE USER command using the appropriate values for your database, for example:

```
CREATE USER edx_dba IDENTIFIED BY edx DEFAULT TABLESPACE edx_data TEMPORARY  
TABLESPACE temp PROFILE DEFAULT
```

- 3 Grant this user the following roles:

```
ALTER SESSION  
CREATE PROCEDURE  
CREATE SEQUENCE  
CREATE SESSION  
CREATE TABLE  
CREATE ANY TRIGGER  
CREATE VIEW  
EXECUTE ANY LIBRARY  
EXECUTE ANY PROCEDURE  
SELECT ANY TABLE  
SELECT ANY DICTIONARY  
UNLIMITED TABLESPACE
```

- 4 Create eStatement Manager tablespaces and user using the ant build script (if you haven't customized your database tablespaces). Start the ant script with the command:

**ant**

The Main Menu appears:

Main:

[echo] [1]. Install eaSuite Database

[echo] [2]. Initial Data Population

[echo] [Q]. Quit

[input] Enter your selection (1, 2, q, Q)

- 5 Select Option 1, Install eaSuite Database. The Install eaSuite Database menu appears:

CreateInitDatabaseMenu:

[echo] Install eaSuite Database

[echo] [1]. Create Oracle Instance

[echo] [2]. Shutdown Database

[echo] [3]. Startup Database

[echo] [4]. Install Application Database I - Create tablespace/user

[echo] [5]. Install Application Database II - Create tables

[echo] [6]. Install Application Database III - Install PL/SQL Code Base

[echo] [Q]. Quit

[input] Enter your selection (1, 2, 3, 4, 5, 6, q, Q)

- 6 Select option 4, Install Application Database I - Create tablespace/user. The following message appears:

[echo] Creating tablespace...please wait

**CAUTION:** Be sure to create any **custom** tablespaces you have added to your eStatement database. Be sure that tablespace creation is successful before proceeding to the next step.

## Importing Your Oracle9i Database

*To import your Oracle9i database:*

- 1 As the Oracle DBA, import your existing Oracle9i database(s) with the imp utility under Oracle10g. For example:

```
imp system/manager@sid fromuser=edx_dba touser=edx_dba file=edx0_export
```

**CAUTION:** Be sure to import any **custom** tablespaces you have added to your eStatement database.

After the importing the databases you must migrate the eStatement and ePayment databases to release 4.7.

# 3

## Migrating the eaSuite Databases

### Migrating the eStatement Manager Database

Be sure to back up your existing database before starting the migration process.

*To migrate your eStatement Manager database:*

- 1 If you are on a UNIX system only, switch user to the DB admin user. Oracle requires the administrative user in order to create files.

```
$ su - oracle
```

- 2 Change directory to migration directory. For example:

```
cd <EDX_HOME>/db/oracle/migration
```

- 3 Configure migrate.properties with the following statements. This file controls the eStatement database migration.

```
DB_SID=EDX44
DB_USERNAME=edx_dba
DB_PASSWORD=edx
```

- 4 Change directory to your eaSuite database home directory, for example:

```
cd <EDX_HOME>/db/oracle
```

- 5 Use the following ant target for the migration process. The install-migrate target migrates eaSuite instances with the SIDs specified in the properties file:

```
ant migrate
```

- 6 The following message appears:

```
get_backup_confirm:
```

```
[echo] **Warning**
```

```
[echo] We strongly advise a full backup of your existing
[echo] database before applying the migration.
```

```
[input] Do you have a backup(Y,y,N,n)
```

- 7 Choose 'Y' or 'N'. The following menu appears:

```
continue:
```

```
[input] still continue with migration...(Y,y,N,n)
```

- 8 Select 'Y' to continue the migration process. The Migration Main Menu appears:

```
main:
[echo] Migration Main Menu
[echo] -----
[echo] [1]. Migrate from 4.3.0.0 Migrate to 4.7.0.0
[echo] [Q]. Quit
[input] Enter your selection(1,q,Q)
```

- 9 Select Option 1, **Migrate from 4.3.0.0 Migrate to 4.7.0.0**. This option migrates the database from 4.3.0 to 4.7.0.

## Migrating the ePayment Manager Database

Be sure to back up your existing database before starting the migration process.

### *To migrate your ePayment Manager database:*

- 1 If you are on a UNIX system only, switch user to the DB admin user. Oracle requires the administrative user in order to create files.

```
$ su - oracle
```

- 2 Change directory to migration directory. For example:

```
cd <PAYMENT_HOME>/db/oracle/migration
```

- 3 Configure migrate.properties with the following statements. This file controls the ePayment Manager production database migration.

```
DB_SID=EDX44
DB_USERNAME=edx_dba
DB_PASSWORD=edx
```

Specify whether you want to migrate payment reminder data (if not, specify N):

```
IS_REMINDER_DATA_MIGRATE=Y
```

Specify whether you want to migrate the recurring payment multi-account feature data (if you do, specify Y):

```
IS_RECURREN_DATA_MIGRATE=N
```

- 4 Change directory to your payment database home directory. For example:

```
cd <PAYMENT_HOME>/db/oracle
```

- 5 Use the following ant target for the migration process. The install-migrate target migrates the ePayment Database schema with the SIDs specified in the properties file:

```
ant migrate
```

- 6 The following message appears:

```
get_backup_confirm:
    [echo] **Warning**
    [echo] We strongly advise a full backup of your existing
    [echo] database before applying the migration.

    [input] Do you have a backup(Y,y,N,n)
```

- 7 Choose 'Y' or 'N'. The following menu appears:

```
continue:
    [input] still continue with migration...(Y,y,N,n)
```

- 8 Select 'Y' to continue the migration process. The Migration Main Menu appears:

```
main:
    [echo] Migration Main Menu
    [echo] -----
    [echo] [1]. Migrate from 4.3.0.0 Migrate to 4.7.0.0
    [echo] [Q]. Quit
    [input] Enter your selection(1,q,Q)
```

- 9 Select option 1, **Migrate from 4.3.0.0 Migrate to 4.7.0.0.**

### Migrating Payment Data Later

If you need to enable recurring payment multi-account feature later, you can use a separate ant target provided to migrate the required data separately.

#### *To migrate recurring payment multi-account feature later:*

- 1 Change directory to your payment database home directory. For example:
 

```
cd <PAYMENT_HOME>/db/oracle
```
- 2 Check the migrate.properties file whether SID, user name and passwords are correct.
- 3 Execute the following ANT target
 

```
ant migrate-recurring-pay-data
```

If you need to migrate payment reminder data later, you can use a separate ant target provided to migrate required data separately.

### *To migrate payment reminder data later:*

- 1 Change directory to your payment database home directory. For example:  
`cd <PAYMENT_HOME>/db/oracle`
- 2 Check the migrate.properties file whether SID, user name and passwords are correct.
- 3 Execute the following ANT target  
`ant migrate-payment-reminder-data`

## After Migrating the Databases

Ensure that your eStatement Manager database is in good working order by:

- Inspecting the eStatement and ePayment database migration logs for errors.
- Validating the status of all user objects.

Correct any errors or INVALID status.

## Checking for Errors and Resetting Permissions

After migrating a database from a previous release of eaSuite (eStatement or ePayment), you should:

- Check .log files for errors
- Reset permissions for eaDirect directories and files

### *Checking .log Files for Errors*

After migrating an eStatement or ePayment database, check the following log files for errors:

- scan.log
- migrate<version>.log

When migrating an eStatement or ePayment database, a normal error is one that does not cause the upgrade process to fail, such as trying to drop an object that does not exist. An abnormal error is one that can cause the database migration process to fail, which can have a cascading effect. A single abnormal error can lead to many other abnormal errors as the database migration process proceeds.

Although there is no easy way to differentiate between normal and abnormal errors, there is a way to check whether the database upgrade was successful. Typically, if the process does not flag invalid objects or there are no violations of referential constraints, then the operation was successful.

### *Resetting Permissions*

After migrating your database, confirm that all the eStatement or ePayment directories, with the exception of the /db directory and its subdirectories, reflect the same directory and file ownership as that of the application server owner.

For database files and directories under EDX\_HOME, eStatement uses the default owner and group permissions.

## Migrating Sample Applications

Apply the following migrations only if you intend to use the sample applications provided by eaSuite 4.7.

### Sample Application

To view the Sample application's NatWireless Local Summary Bill properly in the migrated environment, you must republish the NWLocalSummary view in eaSuite 4.7.

### paymentComplex Application

To use the paymentComplex application with the migrated database, you must update check/credit card account nicknames by populating the *account\_nick\_name* column of the *payment\_accounts* table.

Additionally, *vertical\_field\_1* of the credit card/check payments tables must be updated with the DDN name.

Also, ePayment Manager generates a trace number and places it in the entry detail record. By default, the trace number starts at 0000000 and increases by one for each check until it reaches 9999999. After this point, the numbering restarts at 0000000. You must run a script to search for sequence numbers generated and update the maximum value to 9999999.

#### *To update check/credit card account nicknames:*

For Oracle:

- 1 Execute the following SQL statement:

```
UPDATE payment_accounts SET account_nick_name='Nick Name' ||
substr(rtrim(PID),6,20);
```

#### *To update check/credit card account vertical field\_1:*

For Oracle:

- 1 Execute the following SQL statement to update check payments:

```
UPDATE CHECK_PAYMENTS CHP SET CHP.VERTICAL_FIELD_1 = (SELECT DISTINCT
DREF.DOCUMENT_DEFINITION_NAME
FROM DOCUMENT_DEFINITION_NAME DREF, CHECK_PAYMENTS CHP WHERE
(CHP.PAYEE_ID = DREF.DDN_REFERENCE) AND
(DREF.OBJECT_EXISTS = 'Y')) WHERE (CHP.VERTICAL_FIELD_1 IS NULL);
```

- 2 Execute the following SQL statement to update credit card payments:

```
UPDATE CREDITCARD_PAYMENTS CCP SET CCP.VERTICAL_FIELD_1 = (SELECT
DISTINCT DREF.DOCUMENT_DEFINITION_NAME
FROM DOCUMENT_DEFINITION_NAME DREF, CHECK_PAYMENTS CCP WHERE
(CCP.PAYEE_ID = DREF.DDN_REFERENCE) AND
(DREF.OBJECT_EXISTS = 'Y')) WHERE (CCP.VERTICAL_FIELD_1 IS NULL);
```

*To update the ACH check cassette trace counter maximum value:*

For Oracle:

- 1 Copy the following script to a text file and execute it using SQL Plus:

```
DECLARE

v_seq_name VARCHAR2(100):=NULL;
v_ddn_ref NUMBER:=0;

CURSOR    get_recs
IS
SELECT      sequence_name
FROM user_sequences
WHERE  sequence_name IN
      (SELECT 'DDN'||ddn_reference||'_TRACECOUNTER_SEQ'
      FROM document_definition_name
      WHERE      date_expired IS NULL);

BEGIN

OPEN get_recs;
LOOP
  FETCH get_recs
  INTO v_seq_name;

  EXIT WHEN get_recs%NOTFOUND;

  EXECUTE IMMEDIATE 'ALTER SEQUENCE '||v_seq_name||' MAXVALUE
9999999';

END LOOP;
close get_recs;

EXCEPTION WHEN NO_DATA_FOUND
THEN
  NULL;

END;
/
```

## Updating Oracle Administrative Files

*After migrating, update the following Oracle administrative files:*

- Update the files tnsnames.ora and listener.ora to refer to the new SID.

For details, see the Oracle® Database Net Services Administrator's Guide 10 g Release 2 (10.2).

**CAUTION:** Be sure to restart the Oracle listener process after updating these files.



# 4

## Updating Your Application Server Environment

### General Process

*To update your application server environment:*

For UNIX:

- 1 Working with your application server administrator, run the eStatement Manager environment script `EDX_HOME/bin/edx_config` on the application server as the application server owner.
- 2 As prompted, enter the new values for your eStatement Manager environment to refer to your new database home directory, database username and password, and SID, for example, `edx1`.  
See the appropriate instructions below for WebSphere or WebLogic. For details, see the *Installation Guide for Oracle Siebel eStatement Manager*.
- 3 Update `edx_payment.config` for ePayment Manager.  
See the *Installation Guide for Oracle Siebel ePayment Manager* for details.

For Windows:

- 1 Edit the file `EDX_HOME/config/edx_env.bat`.  
See the appropriate instructions below for WebSphere or WebLogic. For details, see the *Installation Guide for Oracle Siebel eStatement Manager*.
- 2 Update `edx_payment.config` for ePayment Manager.  
See the *Installation Guide for Oracle Siebel ePayment Manager* for details.

For UNIX, check to see that the following files have been updated with your new password:

- `edx_env`
- `edx_sqllldr.config`
- `ws_config.xml` (WebSphere) or `config.xml` (WebLogic)
- JVM settings for system properties in your application server console

Once the application server has been reconfigured, you can redeploy the J2EE applications provided with eaSuite 4.7 using the steps provided in the *Installation Guide for Oracle Siebel eStatement Manager* for the appropriate application server.

**CAUTION:** If you receive error messages when starting up your application server after migration, check to make sure you have undeployed all previous versions of eBilling J2EE web applications and redeployed the most recent version. Oracle does not recommend manually editing the `config.xml` files for deployment.

eaDirect 3.4 and later versions allow you to specify a datasource EJB for each eStatement application (DDN) you create in the Command Center. When creating an eStatement application in the Command

Center, a datasource refers to an EJB in your application (EAR file) that specifies summary information and location of your document data.

## WebSphere

*To configure the WebSphere application server:*

- 1 Working with your WebSphere application server administrator through the WebSphere administrative console, update the resources for each JDBC data source in your application server configuration to refer to the new SID, for example edx1, and database username and password (if you changed these).
- 2 Update the database name in the URL setting for each JDBC data source.  
For details, see the *Installation Guide for Oracle Siebel eStatement Manager*.

## WebLogic

*To configure the WebLogic application server:*

- 1 Working with the WebLogic Server administrator, use the WebLogic console to update and database references to use the new SID and the new DBA username and password.  
For details, see the *Installation Guide for Oracle Siebel eStatement Manager*.

# 5

## Adding Payment Settings

Enter the payment configuration settings, which you recorded earlier, into the Command Center.

Refer to the *Administration Guide for Oracle Siebel eStatement Manager* for information on adding payment settings and configuring ePayment Manager jobs.