Oracle® Retail Analytic Parameter Calculator

Installation Guide

Release 13.0.2

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ORACLE®

Oracle Retail Analytic Parameter Calculator Release 13.0.2

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(viii) the software component known as **Style Report™** developed and licensed by InetSoft Technology Corp. of Piscataway, New Jersey, to Oracle and imbedded in the Oracle Retail Value Chain Collaboration application.

(ix) the software component known as **DataBeacon™** developed and licensed by Cognos Incorporated of Ottawa, Ontario, Canada, to Oracle and imbedded in the Oracle Retail Value Chain Collaboration application.

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Preface

This guide enables you to install the Oracle Retail Analytic Parameter Calculator application.

Audience

This document is intended for system administrators and assumes that you are familiar with the following:

- Installing and configuring application server software
- Installing and configuring relational database management systems
- Installing and configuring distributed client/server applications

Related Documents

For more information, see the following documents in the Oracle Retail Analytic Parameter Calculator Release documentation set:

- *Oracle Retail Analytic Parameter Calculator Release Notes*
- *Oracle Retail Analytic Parameter Calculator Installation Guide*
- *Oracle Retail Analytic Parameter Calculator Configuration Guide*
- *Oracle Retail Analytic Parameter Calculator User Guide*

Customer Support

- https://metalink.oracle.com

When contacting Customer Support, please provide:

- Product version and program/module name
- Functional and technical description of the problem (include business impact)
- Detailed step–by–step instructions to recreate
- Exact error message received
- Screen shots of each step you take

Review Patch Documentation

For a base release (".0" release, such as 13.0), Oracle Retail strongly recommends that you read all patch documentation before you begin installation procedures. Patch documentation can contain critical information related to the base release, based on new information and code changes that have been made since the base release.

Oracle Retail Documentation on the Oracle Technology Network

In addition to being packaged with each product release (on the base or patch level), all Oracle Retail documentation is available at the following website:

http://www.oracle.com/technology/documentation/oracle_retail.html

Documentation should be available on this Web site within a month after a product release. Note that documentation is always available with the packaged code on the release date.

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
`monospace`	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

1

Overview

This chapter provides an overview of the Oracle Retail Analytic Parameter Calculator (APC) and a roadmap for implementing the application. It contains the following sections:

- Overview of the Analytic Parameter Calculator on page 1-1.
- Overview of the Oracle Configuration Manager on page 1-1.
- APC Implementation Roadmap on page 1-2.

Overview of the Analytic Parameter Calculator

The APC is a single–user application that calculates the demand parameters required to perform forecasting. It uses various calculations on historical data to derive the demand parameters.

APC generates a set of text files that contain the calculated demand parameters. These parameters are loaded into the *Oracle Retail Markdown Optimization* schema during implementation.

Overview of the Oracle Configuration Manager

Oracle Premier Support offers an automated support capability through the Software Configuration Manager and Oracle Configuration Manager (OCM). OCM is a configuration data collector that provides continuous tracking of key Oracle and system configuration settings for machines on which it is installed. This tool collects system configuration settings for customer environments and uploads it to a repository that is viewable through the Software Configuration Manager Metalink web site.

The first OCM collector distribution for Oracle Retail applications is in development. Oracle Retail recommends that retailers download OCM 13.0 from ARU and use the "emCCR update_components" command to upgrade installed OCM collectors. See the OCM Installation and Administration Guide for further instructions. The Retail OCM Installer released with Oracle Retail 13.0 applications will install OCM 10.2.7. If the collector remains at version 10.2.7 and is installed in connected mode, an automatic update to version 10.3.0 is expected to occur later this year, the time at which 10.3.0 becomes a mandatory upgrade.

For more information, see the following:

Metalink Note: 559539.1

The Oracle Configuration Manager Installer Guide provides instructions for the installation of the OCM.

Important: If you choose to install the OCM collector, ensure that you have your Metalink user account name, customer support identification number, and the country code (where the support agreement was issued) ready for use during the OCM installation.

APC Implementation Roadmap

At a high-level, the APC installation process is as follows:

Table 1–1 APC Implementation Roadmap

Task	Description
Pre–installation tasks	
1.	Plan your installation. For more information, see Chapter 2, "Planning Your Installation".
2.	Set up your application database. For more information, see Chapter 3, "Setting Up the Database".
3.	Set up your application server. For more information, see Chapter 4, "Setting Up Your Application Server".
Installation Task	
4.	Access the APC installation software. For more information, see Chapter 5, "Installing APC".
Post–Installation Tasks	
5.	Configure the APC. For more information, see the *Oracle Retail Analytic Parameter Calculator Configuration Guide.*

2

Planning Your Installation

Before installing the Analytic Parameter Calculator (APC), you must first determine the performance and availability goals for your business, and then plan the hardware, network, and storage requirements accordingly. This chapter contains some basic considerations for the implementation of the APC application.

This chapter contains the following topics:

- Overview of the Planning Process on page 2-1.
- Supported Configurations on page 2-2.

Overview of the Planning Process

Planning your implementation prior to an installation gives you a better understanding of the environment and enables you to adapt faster to any future changes in the environment setup.

The section contains the following topic:

- Planning Your Environment on page 2-1.
- Sizing Considerations on page 2-2.

Planning Your Environment

Use the following steps to plan and prepare the product environment:

1. Plan and design the infrastructure, based on your business needs, for the installation. This includes:
   - Meeting the hardware and associated software requirements.
   - Acquiring the prerequisite software (and licensing).
   - Gathering capacity data.
   - Planning the data security policies.
   - Designing the backup and recovery strategies.
2. Determine the size of the implementation. For more information, see Sizing Considerations on page 2-2.
3. Identify source systems. Identify the systems that will exchange data with the APC.

Sizing Considerations

The APC schema (see Creating the APC Database on page 3-1) is installed under the User tablespace. Sizing considerations for this tablespace should use the following variables and formula as a guideline.

Table 2–1 Sizing Variables

A = number of activities (also known as item-weeks).
M = number of nodes in the merchandise hierarchy that are in the Raw-AP calculation.
L = number of nodes in the location hierarchy that are in the Raw-AP calculation.
SC = number of year-independent season codes. For example, if your implementation uses monthly season codes, this value is 12.

Sizing Formula

Number of gigabytes = (A * 4.16 / 10 million) + (M * L * SC * 1.4 / 1 million)

Supported Configurations

This section describes the hardware and network requirements for the APC application and includes the following topics:

- Network Requirements
- Database Requirements
- Application Server Requirements
- Client System Requirements

Network Requirements

This section describes basic requirements for your network infrastructure:

- For connections between servers use the following:
  - Minimum: 100 MBps switched ethernet
  - Recommended: 1000 MBps
- For connections to the desktop, 100 MBps is sufficient.

Database Requirements

The APC requires the use of the Oracle database as described in the following table:

Table 2–2 Database Requirements for Analytic Parameter Calculator

Software	Requirement	
Database (64-bit)	Oracle 10g Release 2 (10.2.0.3) (64-bit)	
Operating System (64-bit)	▪ Oracle Enterprise Linux 4.0 (64-bit) ▪ HP-UX 11iv2 (11.23) Itanium (64-bit) ▪ IBM AIX 5.3.0, TL5, APAR IY75211 ▪ Sun Solaris 10 (SPARC platform), with timezone patch 122032-01 or later and libc patch 119689-07 or later.	

Table 2–2 Database Requirements for Analytic Parameter Calculator

Software	Requirement
Utilities	file transfer protocol utility (ftp or ssh/scp/rsync) sudo utility

Application Server Requirements

The APC requires the use of the Oracle 10g Application Server. The following table lists the supported operating systems and the associated application server versions:

Table 2–3 Application Server Requirements for the Analytic Parameter Calculator

Software	Requirement			
Application Server	OAS 10.1.3.3 (32-bit)			
Operating System (64-bit)	HP-UX 11iv2 (11.23) Itanium	Oracle Enterprise Linux 4.0	IBM AIX 5.3.0, TL5, APAR IY75211	Sun Solaris 10 (SPARC)
JVM (32-bit)	HP JDK 1.5.0.03 build 1.5.0.03-13_feb_2006_16_39 (32-bit)	Sun JDK 1.5.0_6 (32-bit)	IBM JDK 1.5 - build pap32dev-20051104 (32-bit)	Sun JDK 1.5.0_6 (32-bit)

For Solaris, the following timezone and libc patches are required:

- On SPARC platform, with timezone patch 122032-01 or later and libc patch 119689-07 or later.

Client System Requirements

The following table lists the supported client system options:

Table 2–4 Client System Environment

Software	Requirements
Windows XP Pro SP2 (with Office 2003)	■ Microsoft Internet Explorer 7.0
Windows XP Pro SP2 (with Office XP)	■ Microsoft Internet Explorer 7.0
Windows XP Pro SP2 (with Office 2000)	■ Microsoft Internet Explorer 7.0

3

Setting Up the Database

This chapter describes how you can set up your database and the various database components. It contains the following:

- Creating the APC Database

Creating the APC Database

The APC database can be created as another instance on an existing Oracle Application Server.

> **Note:** When APC is running, it will consume application server resources such as memory and CPU. These are important considerations if your application server has additional instances.

The ASDS schema must have Select privileges on the v$parameter table. The DBA should grant these privileges when she creates the ASDS schema.

The ASDS schema, as installed by the installer, uses only a single table space, DATA_01. The DBA should decide whether or not to move the objects in the ASDS schema to different table spaces.

Installing the ASDS Schema

The schema for the APC is referred to as the "ASDS Schema". The APC installer will automatically create and install the ASDS database schema. The database will be created under the User Tablespace.

The ASDS schema must be installed on the same Oracle Application Server instance as the Oracle Retail Markdown Optimization (MDO) product. APC will use this schema to obtain historical data from MDO.

4

Setting Up Your Application Server

Before installing the APC application, you must set up an instance on the application server. Based on your business need, you may set up the instance to include one or more server instances and logically related resources and services.

This chapter describes how to set up the Oracle Application Server (OAS). It contains the following sections:

- Installing Oracle Application Server on page 4-1.

Installing Oracle Application Server

The APC application requires the use of Oracle Application Server 10g Release 3 (10.1.3.3). To install OAS, refer to the Oracle Application Server documentation.

5

Installing APC

This chapter contains the following:

- Overview of the Installation Process on page 5-1.
- Installing APC on page 5-1.

Overview of the Installation Process

To install the Analytic Parameter Calculator, obtain the installation media. To begin the installation process, see Installing APC on page 5-1.

Installing APC

Installing APC consists of the following tasks:

- Accessing the Installation Software on page 5-1.
- Setting Up Your Installation Properties File on page 5-2.
- Setting Up Environment Variables on page 5-3.
- Preparing Your Unix Terminal Emulator and SSH Client on page 5-3.
- Running the Installer on page 5-3.

Accessing the Installation Software

The APC installation software is bundled with the Oracle Retail Markdown Optimization product software. The software media is available from the Oracle E–Delivery site.

To download the software:

1. From the application server where you will be installing APC, open a browser and navigate to the following URL:

   `http://edelivery.oracle.com/`

   The **Oracle E-Delivery** download page displays.

2. Select a language, and click **Continue.**

   The **Export Validation** screen displays.

3. Respond to the following and click **Continue.**
   - **Full Name**—enter your full name.
   - **Company Name**—enter your company name.

- **E-mail Address**—enter your e-mail address.
- **Country**—select your country.
- **License Agreement**—select the License Agreement check box.
- **Export Restrictions**—select the Export Restrictions check box.

The **Media Pack Search** screen displays.

4. Respond to the following prompts, and then click **Go.**
   - **License List**—review the list to determine which Product Packs you need to download.
   - **Product Pack**—select **Oracle Retail Applications.**
   - **Platform**—(optional). Select the desired operating system.

   The **Oracle Retail Markdown Optimization Media Pack** screen displays.
5. In the **Select** column, click **Download.**

   Oracle E-Delivery writes a ZIP file to the default location you have selected for downloads.
6. Unpack the ZIP file to a temporary directory.

Setting Up Your Installation Properties File

In order to install APC, you first need to specify the properties to use during the installation process.

Creating the Installation Properties File

To create the installation properties file, do the following:

1. Make a copy of the **reference.apc.install.properties** file.
2. Rename the copy to **apc.install.properties**.
3. Save this file in the same directory as the reference.apc.install.properties file. Define the properties specified within the sections listed below.

Defining File Directories

Use the **basedest.basedest.dir** property to specify the directory where the APC files will be copied.

Defining the Administrative User ID and Password

Define the Oracle Application Server administrative user id and password using the following properties:

```
oracle.admin.userid
oracle.admin.password
```

> **Note:** The userid and password should be equal to the oc4jadmin userid and password of your Oracle Application Server installation.

Oracle.Home

Use the **oracle.home** property to define the location of the J2EE Home folder within your Oracle Application Server installation. An example is listed below.

```
oracle.home=/home/apc/OAS_AIX/oracle/product/10.1.3/OracleAS_1/j2ee/home
```

Defining Ports

Specify the following port property:

```
oracle.admin.port=12401
```

Defining Database Properties

Specify the following database properties:

```
database.apcdb.oracle.create=yes
database.apcdb.oracle.upgrade=no
```

Optional Definitions

You also have the option of providing definitions for the following properties:

- database.apcdb.oracle.address
- database.apcdb.oracle.dbalias
- database.apcdb.oracle.dbname
- database.apcdb.oracle.dbport
- database.apcdb.oracle.auth.apcoracleauth.user
- database.apcdb.oracle.auth.apcoracleauth.password

Setting Up Environment Variables

Before you start the installation, ensure that the following environment variables are set in the system:

- JAVA_HOME
- PATH
- LIBPATH

To set up the environment variables for the current session, at the UNIX prompt type the following commands in sequence:

```
export JAVA_HOME=$OAS_HOME/jdk
export PATH=$JAVA_HOME/bin:$PATH
export LIBPATH=$ORACLE_HOME/lib:$LIBPATH
```

Preparing Your Unix Terminal Emulator and SSH Client

In order to run the APC installer, you will need to use a Unix terminal emulator. In addition, your SSH Client must be configured to allow x–forwarding. Please refer to the documentation for your SSH Client for instructions on how to enable x–forwarding.

Running the Installer

To install the application, complete the following steps:

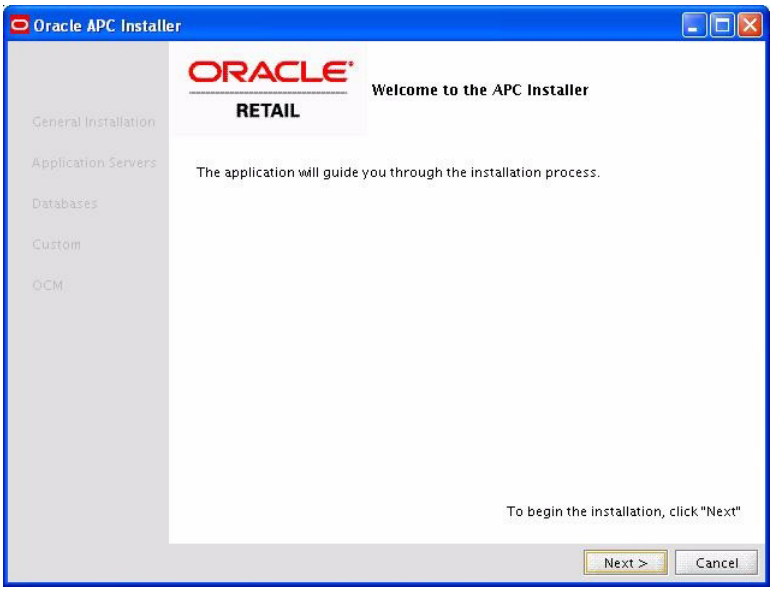
1. Ensure that you have completed Setting Up Your Installation Properties File on page 5-2.
2. From your Windows client, start your Unix terminal emulator.

3. Ensure that your application server software is running.
4. Navigate to directory that contains the installer shell script.
5. Start the installer by issuing the following command:

   ```
   bash install.sh -p APC/apc.install.properties -x APC.xml
   ```

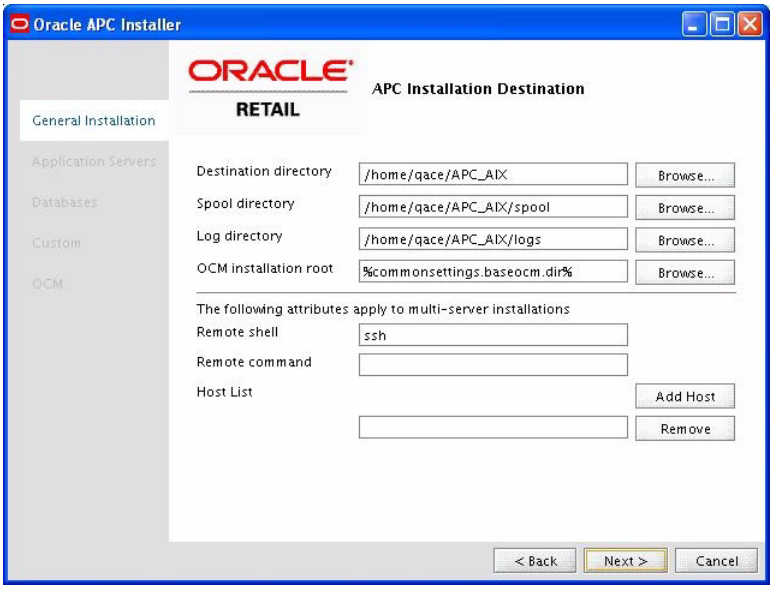
6. The installer opens and displays the **APC Installer Welcome Screen**. Click **Next**.

Figure 5–1 APC Installer Welcome Screen



7. The **APC Installation Destination** screen opens.

Figure 5–2 APC Installation Destination Screen

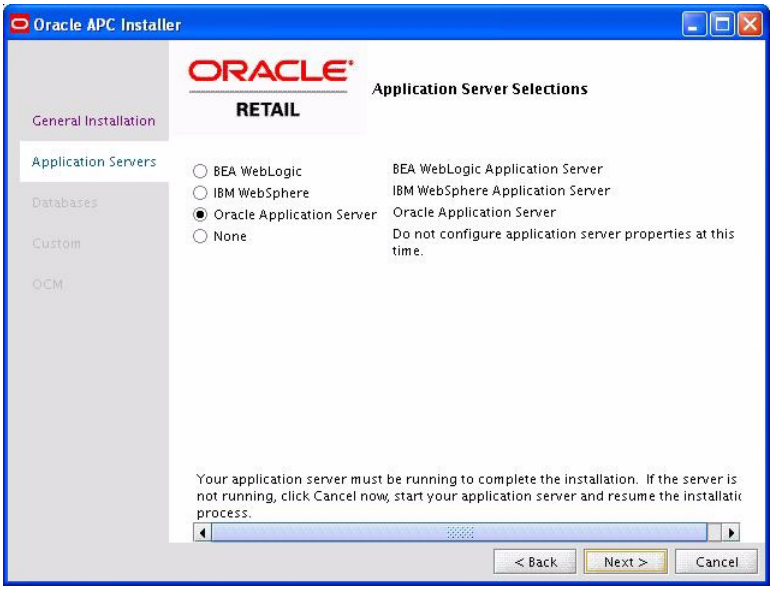


- **Destination Directory**—enter the path to the APC installation target directory.
- **Spool Directory**—enter the path to the APC spool directory.

- **Log Directory**—enter the path to the APC log files.
- **OCM Installation root**—enter the path where the Oracle Configuration Manager (OCM) is installed.
- **Remote shell**—this field is populated by default.
- **Remote command**—leave blank.
- **Host List**—leave blank.
- Click **Next**.

8. The **Application Server Selections** screen opens.

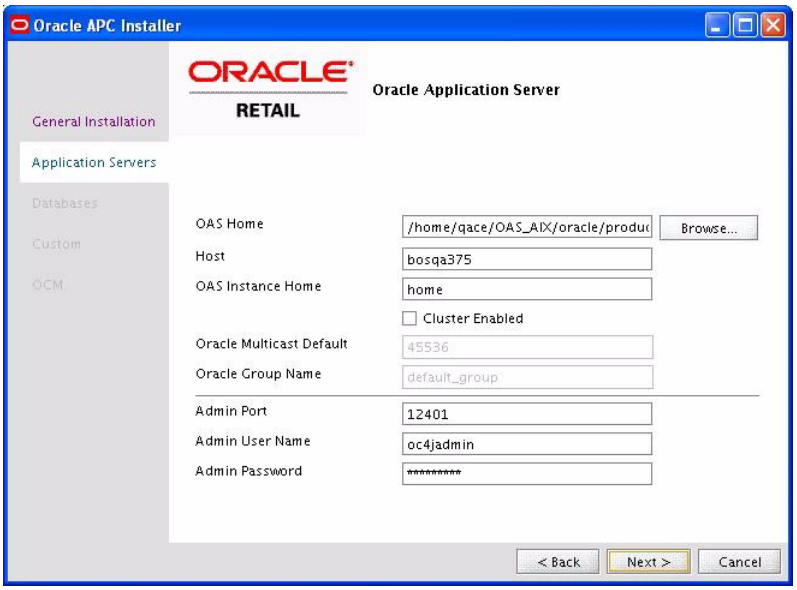
Figure 5–3 Application Server Selections



- Select **Oracle Application Server**.
- Click **Next**.

9. The **Oracle Application Server** screen appears.

Figure 5–4 Oracle Application Server Screen



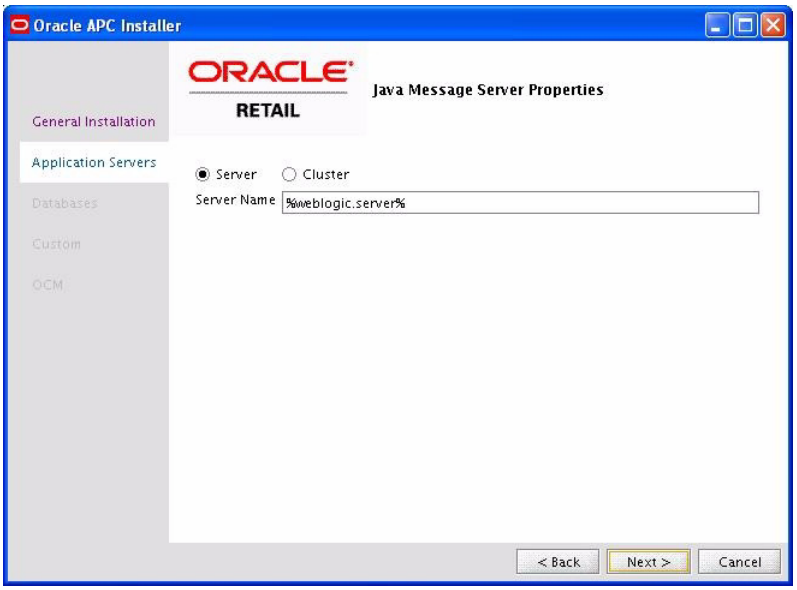
- **OAS Home**—enter the location of your OAS installation.
- **Host**—enter the host name for your OAS installation.
- **OAS Instance Home**—enter the OAS Instance Home location.
- **Oracle Multicast Default**—leave blank.
- **Oracle Group Name**—leave blank.
- **Admin Port**—enter the administrative port on your OAS installation.
- **Admin User Name**—enter the administrative user name for your OAS installation.
- **Admin Password**—enter the administrative password for your OAS installation.
- Click **Next**.

Note: If the installation does not proceed ahead, check the application server information and/or the status of the application server.

---

10. The **Java Message Server Properties** screen appears.

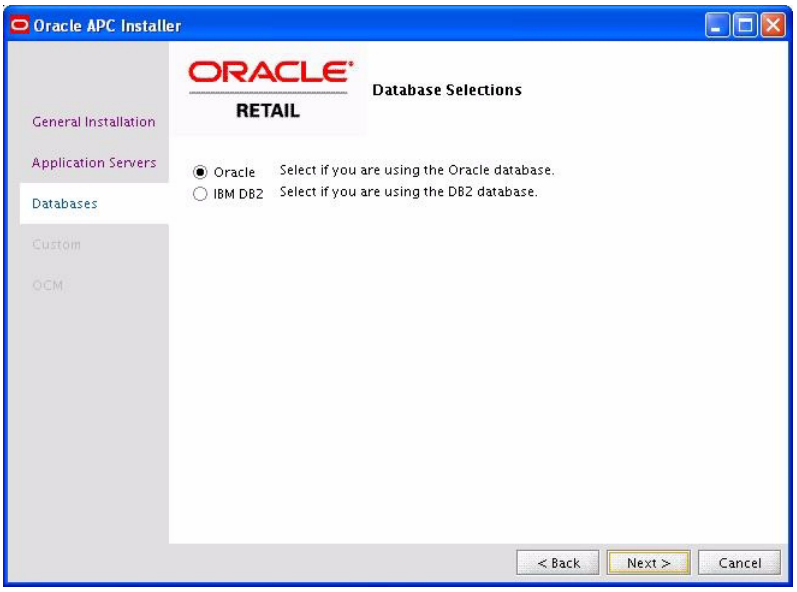
Figure 5–5 Java Message Server Properties Screen



- Select **Server**.
- **Server Name Field**—enter the name of the server that you may have set up as a Java Message Server (JMS).
- Click **Next**.

11. The **Database Selections** screen appears.

Figure 5–6 Database Selections Screen



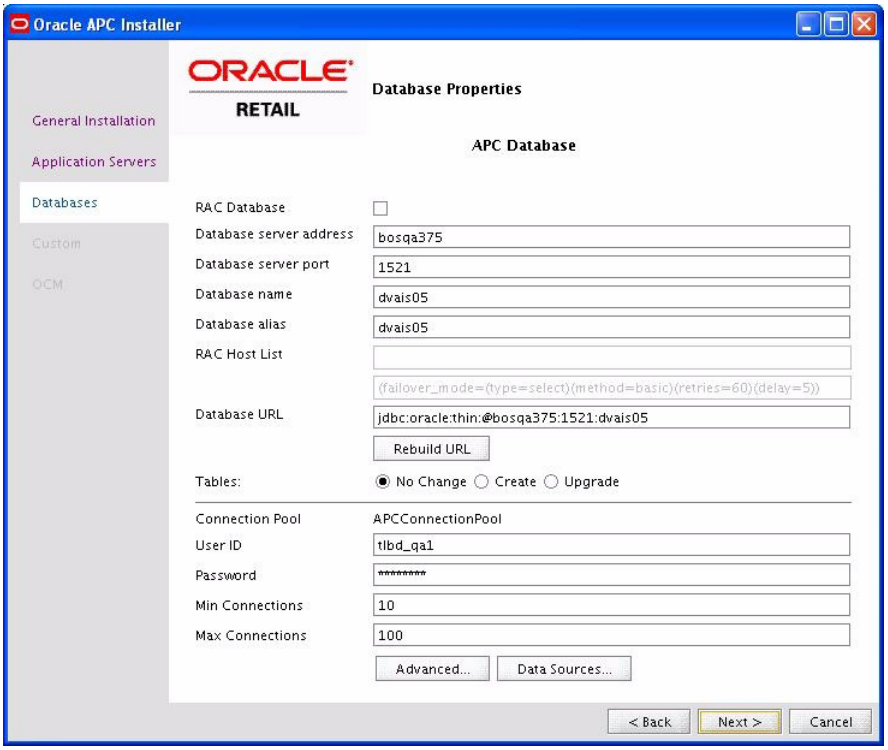
- Select **Oracle**.

Note: APC does not support the use of DB2.

- Click **Next**.

12. The **Database Properties** screen appears.

Figure 5–7 Database Properties Screen

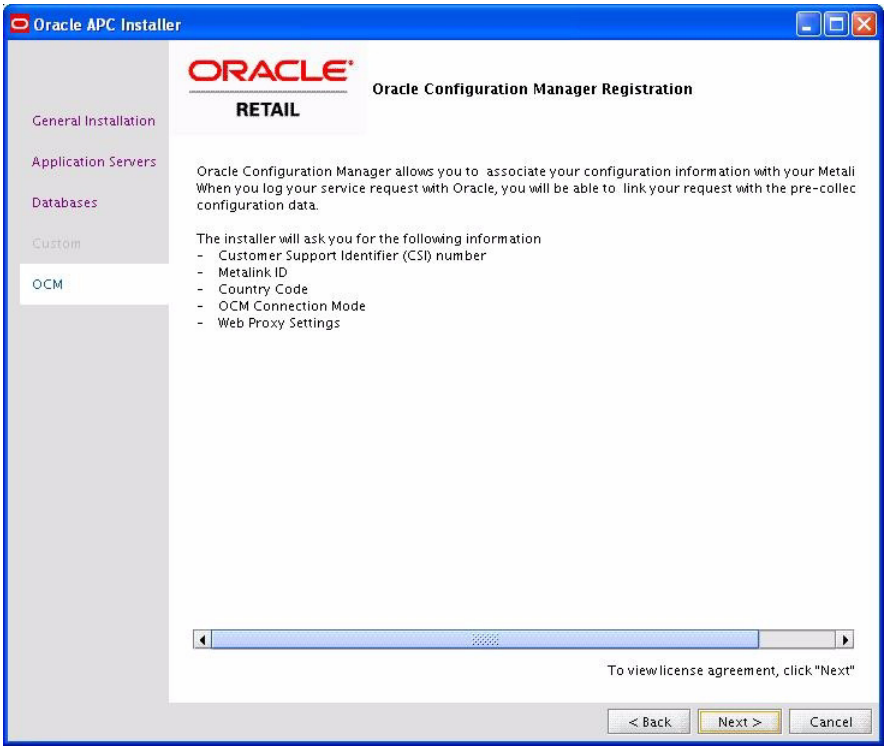


- **RAC Database**—leave this field blank. There is no support for Oracle RAC in this release of APC.
- **Database server address**—enter the address of the database server.
- **Database server port**—enter the server port number associated with your database.
- **Database name**—enter the name used to identify your database.
- **Database alias**—enter the database alias.
- **RAC Host List**—leave this field blank.
- **Database URL**—(optional). Enter your database's URL.
- **Tables**—select one of the following options:
  - **No Change**—select this option if you have an existing database schema that you do not want to modify. This enables you to configure data sources and EAR files without affecting the database.
  - **Create**—select his option if you are installing a new database schema for APC. The Oracle Installer drops all the schemas and creates new ones.
  - **Upgrade**—select this option if you have an existing database schema that you want to update. Any existing data remains intact. It is modified on a row–by–row, column–by–column basis, depending on the actions specified in the database patches.
- **Connection Pool**—this field is not editable.

- **User ID**—enter the user name associated with the database.
- **Password**—enter the password associated with the database.
- **Min Connections**—accept the default value.
- **Max Connections**—accept the default value.
- Click **Next**.

13. The **Oracle Configuration Manager Registration** screen opens.

Figure 5–8 Oracle Configuration Manager Registration

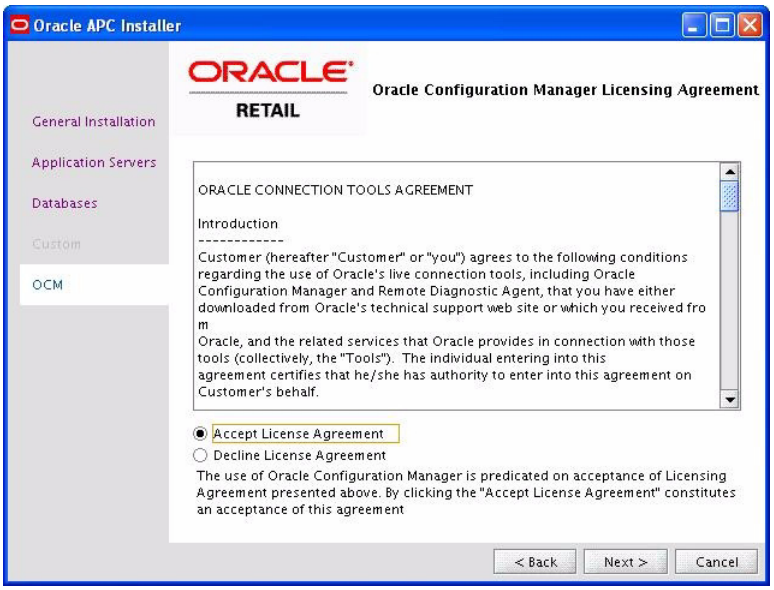


Note: For more information about the Oracle Configuration Manager (OCM), see Overview of the Oracle Configuration Manager on page 1-1 in Chapter 1, "Overview".

- Click **Next**.

14. The **Oracle Configuration Manager Licensing Agreement** screen opens.

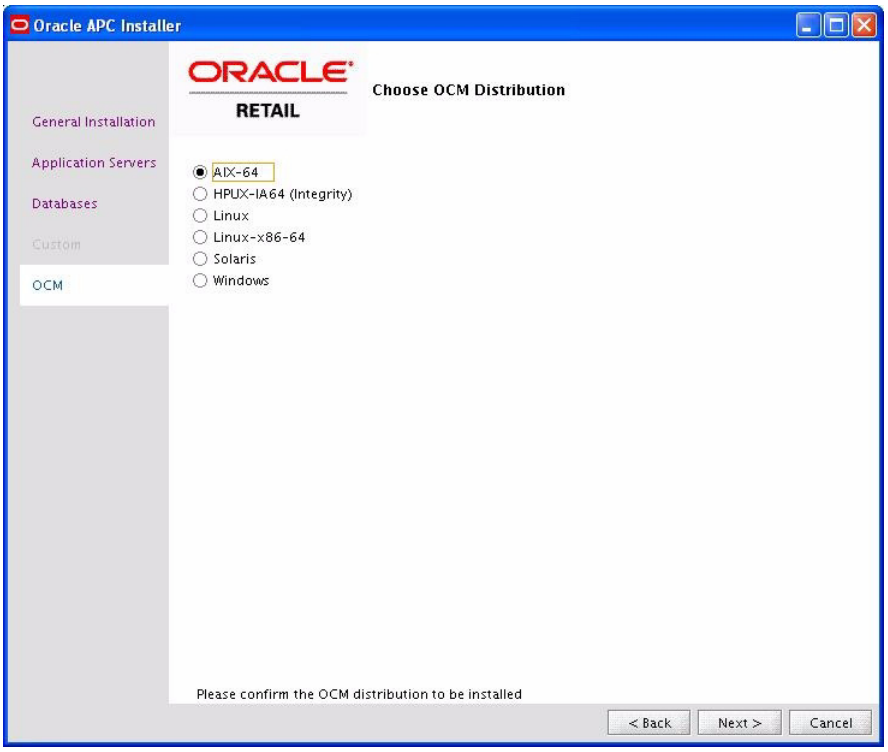
Figure 5–9 Oracle Configuration Manager Licensing Agreement Screen



- To install the OCM, select **Accept License Agreement**.
- Click **Next**.

15. The **Choose OCM Distribution** screen opens.

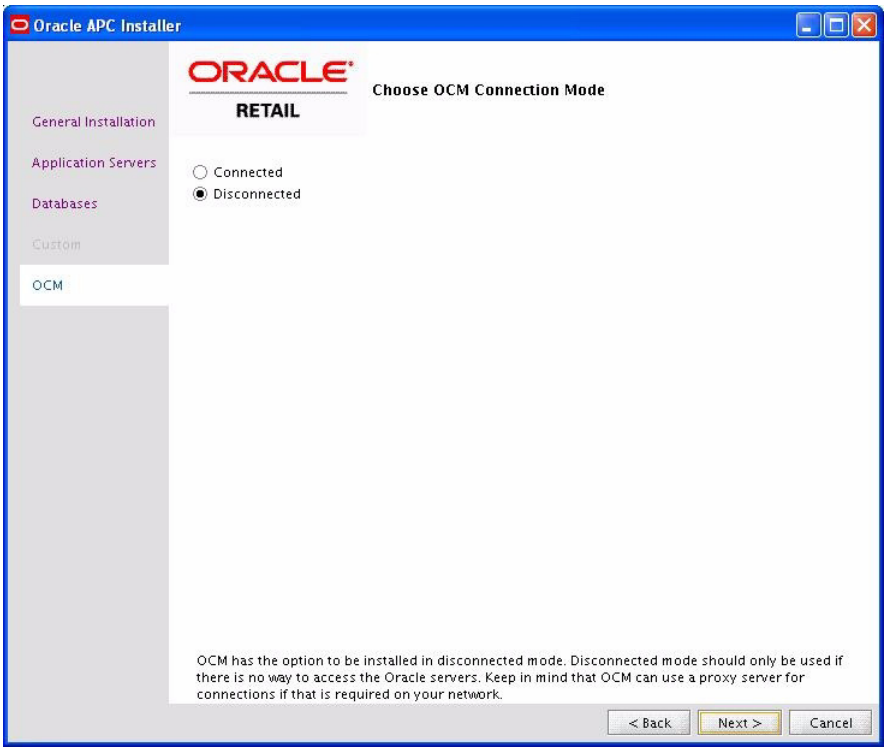
Figure 5–10 Choose OCM Distribution Screen



- Select the operating system hosting the application.
- Click **Next**.

16. The **Choose OCM Connection Mode** screen opens.

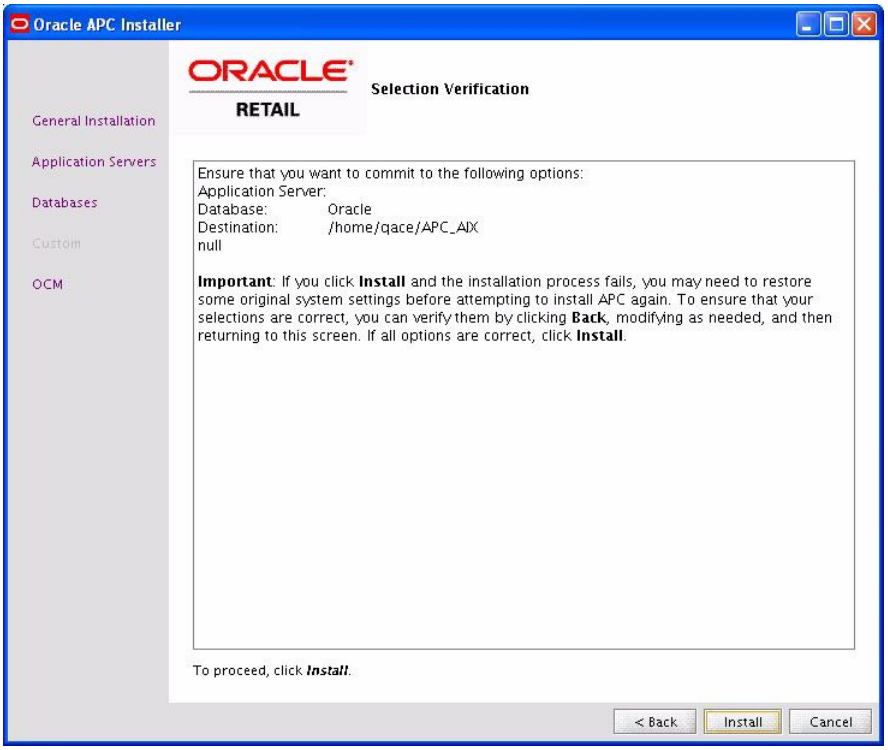
Figure 5–11 Choose OCM Connection Mode Screen



- **Disconnected**—select this mode of OCM installation if you want to keep the automatic installation of configuration data disabled. Click **Next**, and go to step 18.
- **Connected**—select this mode of OCM installation to continue installing OCM. Click **Next**.

17. The **Oracle Customer Information** screen opens. Enter your Customer Support Identifier (CSI) number, Metalink account user name, and the country code where the service agreement was initiated. Click **Next**.
18. The **Selection Verification Screen** opens.

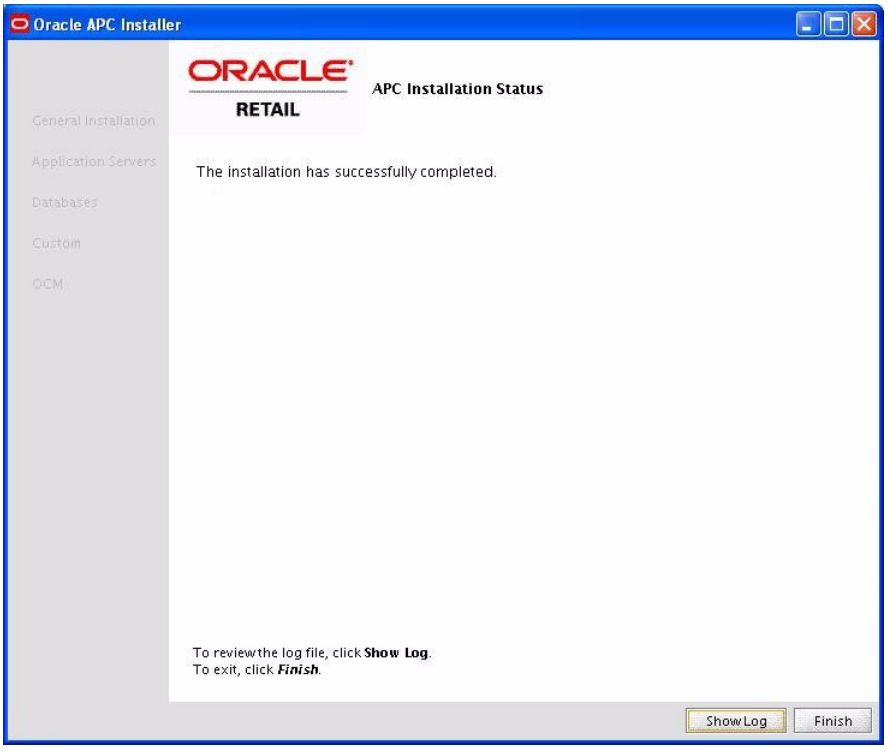
Figure 5–12 Selection Verification Screen



- Review this screen, and then click **Install**.

19. The **APC Installation Status** screen opens.

Figure 5–13 APC Installation Status Screen



20. To complete installation:
    - Click **Finish** to exit.
    - Click **Show Log** to view the installation log file.
21. The following procedure should be completed as part of the APC installation process when installing APC on OAS 10.1.3.3 (Linux only):

    Complete the these steps to edit the following configuration parameter on the server:

    1. Go to the Application Server... > OC4J: ... home > Server Properties page
    2. Go to Command Line Options -> Start-parameters:Java Options
    3. Add: -XX:CompileCommand=exclude,oracle/sql/NUMBER,toBytes

Post–Installation Tasks

After the installer has finished, complete the following steps:

1. Navigate to the directory where APC is installed. This is the directory you defined using the basedest.basedest.dir within the apc.install. properties file.
2. Edit the config/ecf.conf within the following directory:

   ```
   ../APC/modules/APC/config/ecf.conf
   ```

3. Within the ecf.conf file, update the user name and password with the oracle.admin.userid and oracle.admin.password as specified in Defining the Administrative User ID and Password on page 5-2.
4. Next, navigate to the bin directory.
5. Within this directory, issue the following command:

   ```
   bash runAPC.sh -l http://<host>:<rmiPort> > APCBackEndLog &
   ```

   where <host> is the machine where OAS is running and <rmiPort> is the oracle.admin.port as defined in Defining Ports on page 5-3.

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