

**Oracle® Retail Category Management Planning
and Optimization / Macro Space Optimization**

Installation Guide

Release 15.0

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Oracle Retail Category Management Planning and Optimization / Macro Space Optimization Installation Guide, Release 15.0.

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- Are the implementation steps correct and complete?
- Did you understand the context of the procedures?
- Did you find any errors in the information?
- Does the structure of the information help you with your tasks?
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If you find any errors or have any other suggestions for improvement, then please tell us your name, the name of the company who has licensed our products, the title and part number of the documentation and the chapter, section, and page number (if available).

Note: Before sending us your comments, you might like to check that you have the latest version of the document and if any concerns are already addressed. To do this, access the Online Documentation available on the Oracle Technology Network Web site. It contains the most current Documentation Library plus all documents revised or released recently.

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Preface

Oracle Retail Installation Guides contain the requirements and procedures that are necessary for the retailer to install Oracle Retail products.

Audience

This Installation Guide is for the following audiences:

- Database administrators
- System analysts and designers
- Integrators and implementation staff

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

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Related Documentation

For more information, see the following documents in the Oracle Retail Category Management Planning and Optimization / Macro Space Optimization Release 15.0 documentation set:

- *Oracle Retail Category Management Planning and Optimization / Macro Space Optimization Implementation Guide*
- *Oracle Retail Category Management Planning and Optimization / Macro Space Optimization Installation Guide*
- *Oracle Retail Category Management Planning and Optimization / Macro Space Optimization Release Notes*
- *Oracle Retail Category Management Planning and Optimization / Macro Space Optimization User Guide for the RPAS Fusion Client*
- Oracle Retail Predictive Application Server documentation

The following documentation may also be needed when implementing Category Management Planning and Optimization / Macro Space Optimization :

- *Oracle Retail Planning Batch Script Architecture Implementation Guide*

Customer Support

To contact Oracle Customer Support, access My Oracle Support at the following URL:

<https://support.oracle.com>

When contacting Customer Support, please provide the following:

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

Review Patch Documentation

When you install the application for the first time, you install either a base release (for example, 15.0) or a later patch release (for example, 15.0.1). If you are installing the base release, additional patch, and bundled hot fix releases, read the documentation for all releases that have occurred since the base release before you begin installation. Documentation for patch and bundled hot fix releases can contain critical information related to the base release, as well as information about code changes since the base release.

Improved Process for Oracle Retail Documentation Corrections

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This process will prevent delays in making critical corrections available to customers. For the customer, it means that before you begin installation, you must verify that you have the most recent version of the Oracle Retail documentation set. Oracle Retail documentation is available on the Oracle Technology Network at the following URL:

<http://www.oracle.com/technetwork/documentation/oracle-retail-100266.html>

An updated version of the applicable Oracle Retail document is indicated by Oracle part number, as well as print date (month and year). An updated version uses the same part number, with a higher-numbered suffix. For example, part number E123456-02 is an updated version of a document with part number E123456-01.

If a more recent version of a document is available, that version supersedes all previous versions.

Oracle Retail Documentation on the Oracle Technology Network

Oracle Retail product documentation is available on the following web site:

<http://www.oracle.com/technetwork/documentation/oracle-retail-100266.html>

(Data Model documents are not available through Oracle Technology Network. You can obtain them through My Oracle Support.)

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.
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
<code>monospace</code>	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

Introduction

This document provides instructions on installing Oracle Retail Category Management Planning and Optimization / Macro Space Optimization (CMPO/MSO). It provides detailed instructions on how to install a CMPO/MSO domain using a configuration created with the RPAS Configuration Tools. This document does not describe how to create the actual configuration.

Supplemental installation guides are referenced in this document. The *Oracle Retail Predictive Application Server Installation Guide* and *Oracle Retail Predictive Application Server Configuration Tools User Guide* must be obtained prior to beginning the installation process. Read these documents in their entirety before beginning the installation.

About This Document

This document contains information for full and patch installations:

- [Chapter 2, "Full Installation on UNIX Environments"](#). Refer to this section if you are performing a full installation.
- [Chapter 3, "Patch Installation"](#). Refer to this section if you are performing an upgrade to your configuration.
- [Appendix A, "Appendix: Installation Order"](#). Refer to this section for the installation order of RPAS applications.

Read this entire guide before beginning the installation process to ensure you understand the installation process and have all the necessary documentation, hardware, and software available.

Hardware and Software Requirements

Note: Oracle Retail assumes that the retailer has applied all required fixes for supported compatible technologies.

[Table 1–1](#) provides information about the current release.

Table 1–1 Hardware and Software Requirements

Requirement	Details
Supported RPAS Version	15.0

Table 1–1 (Cont.) Hardware and Software Requirements

Requirement	Details
Oracle Retail Batch Script Architecture (BSA)	15.0
Required Software	Java Development Kit (JDK) 1.7u91 Note: There are specific JDK versions needed for each of the supported operating systems for the Oracle Retail Predictive Application Server (RPAS). For the list of JDK versions, see the <i>Oracle Retail Predictive Application Server Installation Guide</i>. Note: When installing Java, avoid enabling AutoUpdate because it may update the Java version without prompting.

Note: RPAS applications, such as CMPO/MSO, run on the Oracle Retail Predictive Application Server (RPAS) platform. For information about the hardware and software requirements for RPAS, see the supported RPAS version of the *Oracle Retail Predictive Application Server Installation Guide*.

Verify that the UNIX operating system is updated to the currently supported version, which can be found in the “Hardware and Software Requirements” section of the supported RPAS version of the *Oracle Retail Predictive Application Server Installation Guide*.

Supported Oracle Retail Products

Category Management Planning and Optimization / Macro Space Optimization integrates with Oracle Retail Advanced Science Engine™ (ORASE).

Requesting Infrastructure Software

If you are unable to find the necessary version of the required Oracle infrastructure software (database server, application server, WebLogic, and so on) on the Oracle Software Delivery Cloud, you should file a non-technical ‘Contact Us’ Service Request (SR) and request access to the media. For instructions on filing a non-technical SR, see My Oracle Support Note 1071023.1 – *Requesting Physical Shipment or Download URL for Software Media*.

Road Map for Installing Category Management Planning and Optimization / Macro Space Optimization

This guide explains how you can install and set up the CMPO/MSO application. In order to install CMPO/MSO for production, you must perform the following tasks in a sequence:

Task	Description
<i>Pre-installation Tasks</i>	
1.	Install and set up the RPAS Infrastructure. For more information, refer to the <i>Oracle Retail Predictive Application Server Installation Guide</i> .

Task	Description
2.	Install and set up the RPAS Fusion Client. For more information, refer to the <i>Oracle Retail Predictive Application Server Installation Guide</i> .
3.	Oracle Retail Batch Scripting Architecture (BSA) must be installed prior to installing CMPO/MSO. For information about installing BSA, see the <i>Oracle Retail Batch Script Architecture Implementation Guide</i> .
<i>Installation Task</i>	
4.	Access the CMPO/MSO Installation software and install the application. For more information, see Chapter 2, "Full Installation on UNIX Environments" .

Note: Refer to chapter, "Creating a Multi-solution Taskflow" in the *Oracle Retail Predictive Application Server Configuration Tools User Guide* for information about the Multi-solution Taskflow.

Full Installation on UNIX Environments

The installation of the server-side RPAS components on UNIX operating systems is accomplished using Java-based installation programs that are included with the installation package.

The CMPO/MSO Installer automates the following:

- Installation of the Category Management Planning and Optimization / Macro Space Optimization GA configuration.
- Installation of the Category Management Planning and Optimization / Macro Space Optimization configuration for the RPAS Fusion Client. For more information on installing the RPAS Fusion Client, refer to the *Oracle Retail Predictive Application Server Installation Guide*.
- Creation of a sample Category Management Planning and Optimization / Macro Space Optimization domain.

This document assumes that the RPAS installer process (from the *Oracle Retail Predictive Application Server Installation Guide*) has been completed prior to using the CMPO/MSO installer.

Preparation

The RPAS server components required prior to this installation process are available from Oracle's E-Delivery web site, <http://edelivery.oracle.com>, and My Oracle Support, <https://support.oracle.com>.

Environment Variable Setup Script

Before running the solution installer, source the `retaillogin.ksh` script. The script is located in the root of the base directory where RPAS was installed unless the default was overwritten when specifying directory paths.

Source the script from inside the directory where the script is located:

```
. ./retaillogin.ksh
```

Or, include the full path after the period and space ".":

```
. /<base_directory>/retaillogin.ksh
```

Notes: The preceding period and space (". ") must be included at the beginning of the command when running the script.

Include this path and script in the `.profile` in your home directory (`~/profile`) if you want to have this environment setup script run during login.

This script sets up environment variables, such as `RPAS_HOME` and `RIDE_HOME`, which are required for RPAS to run properly.

Additional Environment Variables

In addition to the running of `retaillogin.ksh`, export the following environment variable prior to starting the installer.

```
export RPAS_JAVA_CLASSPATH=$RPAS_HOME/applib/aaijni.jar:$RPAS_
HOME/applib/aaiCatMan.jar:$RPAS_HOME/applib/rseCatMan.jar:$RPAS_
HOME/lib/rpasjni.jar:$RPAS_HOME/lib/oracleRpasUtils.jar
```

Note: There are additional Java environment variables that must be set for your particular operation system. These variables are the same for all applications on RPAS. See the "Java Environment" section of the *Oracle Retail Predictive Application Server Installation Guide* for these environment variables.

Alternate Domain Name

Using the RPAS installer process, the built domain name is `catman`. You can change the default domain name with the following procedure:

1. Locate the file, `bin/environment.ksh`.
2. Update this line to reflect the new name of the domain:

```
export CM_MASTERDOMAIN=$CM_DOMAINHOME/catman
```

For example:

```
export CM_MASTERDOMAIN=$CM_DOMAINHOME/catman_new
```
3. The install should run normally and produce a domain under the new name.

Note: Other standard RPAS files will need to be updated to reflect the new domain location, For example, `globaldomainconfig.xml`, `Foundation.xml`, and so on.

Downloading and Extracting the Category Management Planning and Optimization / Macro Space Optimization Media Pack

The following procedure provides information about downloading and extracting the CMPO/MSO media pack and its contents.

1. Create a directory to store the CMPO/MSO media pack on the target server. This directory is referred to as **[Category Management Installation]**. It is the location where the CMPO/MSO installation routine is run.

2. Download and extract the media pack to this location. Once extracted, two directories appear, **CDROM** and **DOCS**.
 - The **CDROM** folder contains the `catman.zip` file. This file contains the CMPO/MSO solution.
 - The **DOCS** folder contains the CMPO/MSO documentation.

Note: Files contained within the installation package are intended to be used by the installer only.

Installing CMPO/MSO

Perform the following steps to install Category Management Planning and Optimization / Macro Space Optimization.

Note: This product's installer includes Ant. If Ant is already installed on your system and is version 1.6.5 or earlier, then you must run `unset ANT_HOME` on the command line to ensure that the installer uses the included version. The `unset ANT_HOME` command must be run before `./install.sh`.

1. Extract the CMPO/MSO installer from the [Category Management Installation] directory.

```
cd CDROM
unzip catman.zip
```

2. From the [Category Management Installation]/CDROM directory, run the following commands to run the CMPO/MSO installer:

```
cd catman
./install.sh
```

Note: The command must be run with the preceding period and slash (`./`).

If this process is being run on an X-Windows emulator (such as Exceed), graphical user interface to the Installer opens. If you are running in console mode through a terminal emulator, enter `./install.sh` on the text interface.

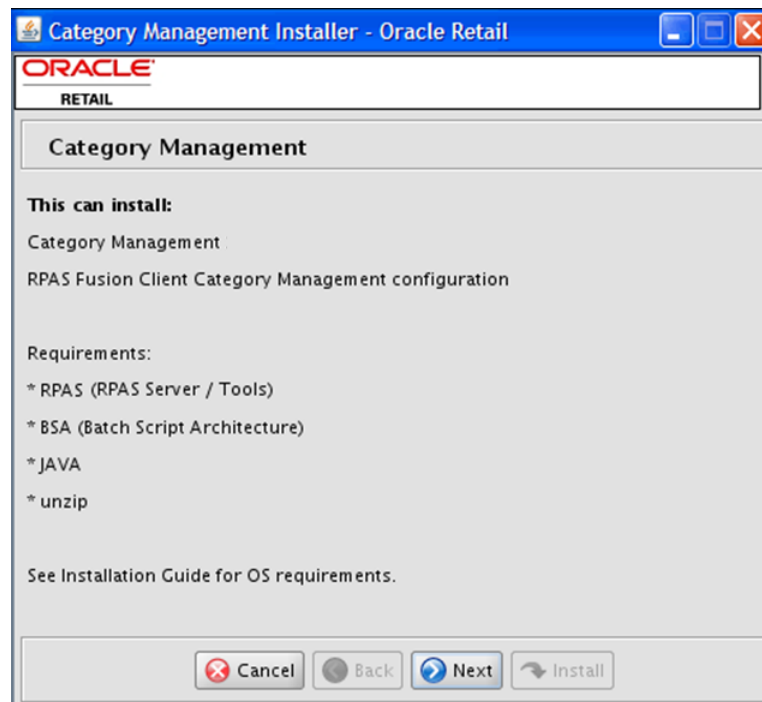
In both cases, the requested information is identical. In the GUI, you may be shown a check box to signal whether you want a component installed; in text mode, you are prompted for a response of **true** or **false**.

Note: In text mode, the default value displays in square brackets []. To use the default value and continue, press **Enter**. If you want to use a different value, enter the new value. When prompted to create a directory, respond with **yes** and press **Enter**.

3. The [CMPO/MSO Installer Window](#) opens and displays the components that are installed during installation process and the required components.

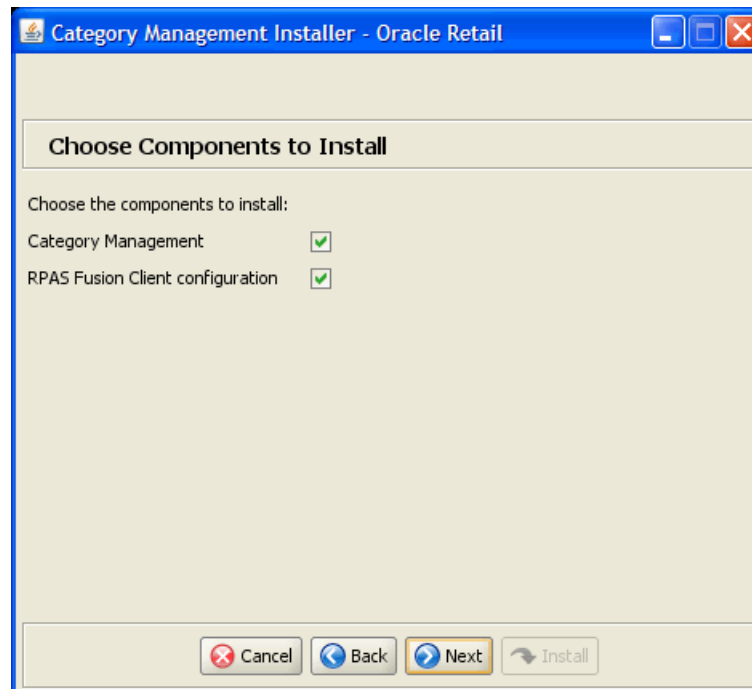
Click **Next** to continue.

Figure 2–1 CMPO/MSO Installer Window



4. The [Choose Components to Install Window](#) opens.

Figure 2–2 Choose Components to Install Window



Select one or both of the following options:

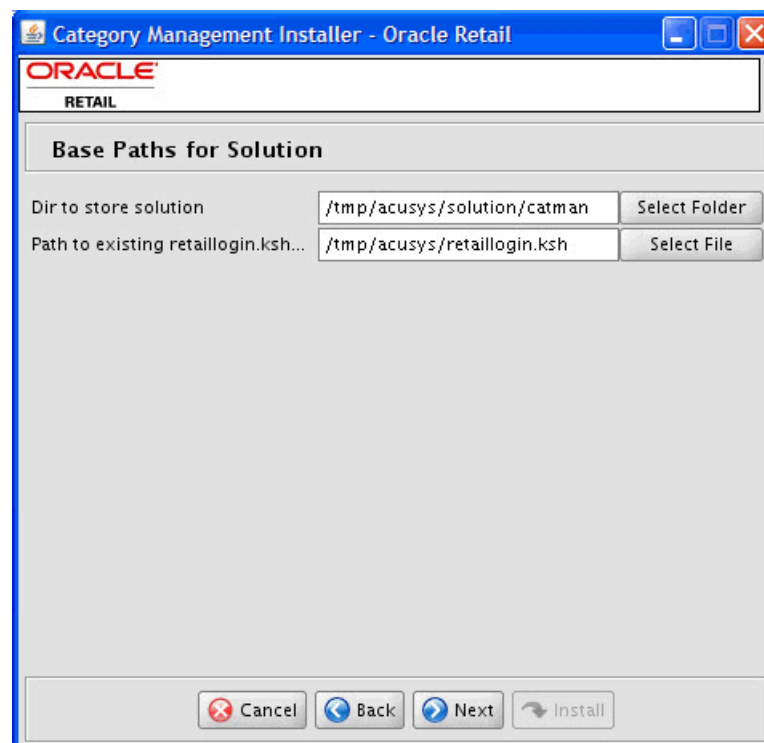
- **CMPO/MSO** — Select this option to install the CMPO/MSO domain.
- **RPAS Fusion Client configuration** — Select this option to install the RPAS Fusion Client configuration for CMPO/MSO. For more information on the configuration files included for the RPAS Fusion Client, see [Configuration Files for the RPAS Fusion Client](#).

Note: If you do not want to install the RPAS Fusion Client configuration, clear this check box and skip steps 7 and 8.

Click **Next** to continue.

5. The [Base Paths for Solution Window](#) opens.

Figure 2–3 Base Paths for Solution Window



Enter the relevant information in the following fields:

- **Dir to store solution** — Enter the directory path where your solution should be stored.
- **Path to retaillogin.ksh script** — Enter the path and file name to the retaillogin.ksh script created during RPAS installation.

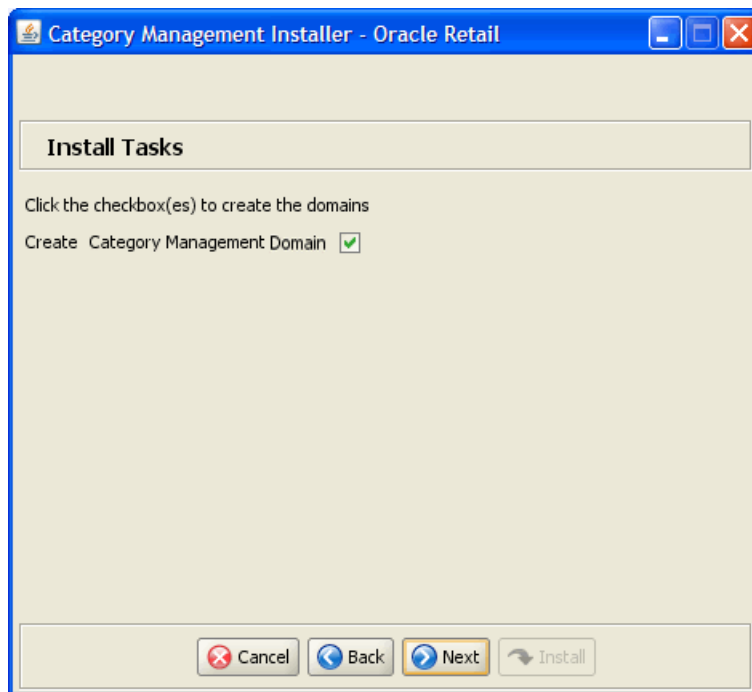
Note: Ensure that the installation paths are located outside the installer directory [**Category Management Installation**].

If this directory does not exist, the Installer prompts you to create it.

Click **Next** to continue.

- The [Install Tasks Window](#) opens.

Figure 2–4 Install Tasks Window



Select or clear the **Create CMPO/MSO Domain** option:

- To create the CMPO/MSO domain, select the **Create Category Management Domain** option, which is selected by default.

Note: Domain builds use the environment specified in the `retaillogin.ksh` environment setup script. If you change any environment details, edit the `retaillogin.ksh` script and any subsequent scripts called by `retaillogin.ksh`.

For more information about the `retaillogin.ksh` script, see the [Environment Variable Setup Script](#) section.

- To install all required components to support the Category Management domain, but not create the actual domain, clear the check box.

Click **Next** to continue.

- The [Fusion Location Information Window](#) opens.

Figure 2–5 Fusion Location Information Window

Category Management Installer - Oracle Retail

ORACLE
RETAIL

Fusion Location Information

Enter the number of RPAS Fusion Client servers to install these configurations on:

(1-4)

Enter the RPAS server hostname:

Enter the RPAS server port:

Enter RPAS solution details for the application.

RPAS Solution Path

Enter the relevant information in the following fields:

Field	Description
Enter the number of RPAS Fusion Client servers to install these configurations on: (1-4)	Enter the number of servers running the RPAS Fusion Client where you want to install the CMPO/MSO configuration. In case the RPAS Fusion Client is running on a single server, enter 1. If you have a clustered installation, you can enter up to four servers
Enter the RPAS server hostname:	Enter the hostname of the RPAS server.
Enter the RPAS server port:	Enter the port number of the RPAS server.
RPAS Solution Path	Enter the location of the RPAS domain for CMPO/MSO.

Note: The Fusion Location Information windows open when you select the RPAS Fusion Client configuration check box on the [Choose Components to Install Window](#).

If you are not installing the RPAS Fusion Client configuration, proceed to step 9.

Click **Next** to continue.

8. Based on the number of servers you entered, the [Fusion Location Information \(Details\) Window](#) opens.

Figure 2–6 Fusion Location Information (Details) Window

Category Management

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Fusion Location Information

Enter the details for RPAS Fusion Client #1

Hostname or IP

Configuration Directory

Enter ssh identify file path to use this form of authentication over username/password method

Path to ssh identity file

SSH identity passphrase

or

Enter both username and password if you want to save the login credentials to the secure wallet. Otherwise, login credentials will be retrieved from the wallet based on the user alias.

Enter the server details in the following set of fields for each configuration.

Note: The authentication provided needs to be either:

Path to SSH identity file and SSH identity passphrase

or

Login username, Login password, and Login username alias

Field	Description
Hostname or IP	Enter the host name or IP address of the server where the RPAS Fusion Client is installed.
Configuration Directory	Enter the location of the config directory available at the location where the RPAS Fusion Client is installed.
Path to SSH identity file	Enter the location of the SSH identity file to be used for authentication to the server where the RPAS Fusion Client is installed.
SSH identity passphrase	If your SSH identity is secured with a passphrase, then enter the passphrase. If not, then leave this field empty.
Login username	Enter the user name to log on to the server where the RPAS Fusion Client is installed.
Login password	Enter the password associated with the user name.
Login username alias	Specify an alias name for the administrative user. Specifying an alias name for the administrative user enhances the security for the application. When left blank, the alias name defaults to the administrative user name.

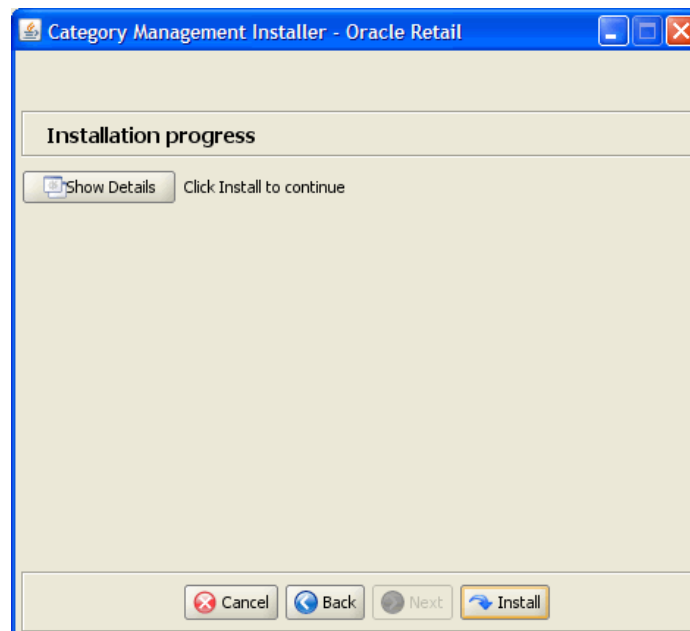
Note: Information such as user credentials for the RPAS Fusion Client is encrypted and stored in a secure location in the application installation directory. This location is called the Oracle Wallet.

When the installation starts, the administrative user credentials are retrieved from the Oracle Wallet based on the alias name specified in this window.

Click **Next** to continue.

9. The [Installation Progress Window](#) opens. To start the installation, click **Install**.

Figure 2–7 Installation Progress Window



This window also displays the progress of the installation routine. Click **Show Details** to view the log output as the installation is performed. If you do not select to view the details, a graphical representation of the installation steps displays. As each step is completed, the color changes to show you the progress.

You can toggle between detailed mode at any time during or after the installation.

10. When the installation has finished, the Finished message displays. Click **OK**.
11. To view the installation details, click **Show Details**. The window displays two tabs, the Output tab and the Error tab. It is recommended that you review these tabs for any issues that may have occurred during the installation process.

If you want to view the log again at a later date, a text copy is saved in the directory [Category Management Installation]. The log file is named based on the product and timestamp, followed by the .log extension.

Created as part of this process is the `make_domain.catman` file located in [Solution Install Dir] entered previously. This file contains the required parameters needed to support the domain installation. If necessary, this file may be modified if the default parameters are not appropriate for your particular environment.

Note: When reviewing Installer output or logs, you may see the following message: *[scp] Caught an exception, leaving main loop due to Socket closed*. This message is harmless and does not indicate failure.

Note: The domain install process may also include postinstallation data loading scripts specific to the CMPO/MSO configuration. These scripts, if present, may also be modified.

For additional information on installing RPAS domains manually, see the *Oracle Retail Predictive Application Server Installation Guide*.

12. Click **Exit** to close the installer.

Postinstallation Configuration

Before starting the DomainDaemon, you must first set the following environment variables.

Environment Variables

Set your CM_HOME environment variable to the directory specified for the Dir to store solution path used in the installer

To do this, either in shell or with additions to your .profile, add:

```
export CM_HOME=[Dir to store solution path]
```

Online Help File

If you are on AIX and you have re-installed CMPO/MSO, you must edit a help file to use the CMPO/MSO online help in the RPAS Fusion Client.

Manually edit the [fusion client installation dir]/config/ohwconfig.xml file by removing the following duplicate line:

```
<helpSet xmlns="" id="<shortProductName>"
location="<shortProductName>/<shortProductName>-help.hs" />
```

Caution: If this duplicate line is not removed, a “500 Page Not Found” error occurs when attempting to access the online help in the RPAS Fusion Client.

Configuration Files for the RPAS Fusion Client

This section describes the optional installation method that involves setting up the RPAS Fusion Client configuration for the CMPO/MSO configuration. If you chose to install the Fusion Client configuration files using the CMPO/MSO installer, you can skip this section.

Note: Before proceeding, ensure that you have appropriate access privileges on the server running the RPAS Fusion Client.

During the CMPO/MSO installation, these files are automatically copied over (when the Configure Fusion Client option is selected) to the configuration directory where the RPAS Fusion Client is installed. The installation also ensures that the following RPAS Fusion Client configuration files are updated to reflect the CMPO/MSO installation:

- **Foundation.xml** - Located in the **[RPAS Fusion Client Installation]/ config/rpas** directory. This XML file includes the domain configuration available for use with the RPAS Fusion Client.

Note: For more information on the Foundation.xml file, refer to the *Oracle Retail Predictive Application Server Installation Guide* and the *Oracle Retail Predictive Application Server Administration Guide for the Fusion Client*.

If you do not install the Fusion Client configuration files during the CMPO/MSO installation, you can choose to do one of the following tasks:

- Run the CMPO/MSO installer again, and select to install only the RPAS Fusion Client configuration.
- Run the RPAS Fusion Client installer again, and specify the CMPO/MSO domain configuration. For more information on the RPAS Fusion Client installation, refer to the *Oracle Retail Predictive Application Server Installation Guide*.
- Configure the RPAS Fusion Client for CMPO/MSO manually. For more information, see the “Configuring Additional Domains” section in the *Oracle Retail Predictive Application Server Administration Guide for the Fusion Client*.

Taskflow Files

This section provides information about the files needed for taskflow configuration.

If you selected the option to build a domain, you will find two taskflow files (taskflow.xml and the taskflowBundle.properties resource file) in the fusionClient subdirectory within the domain. For information about how to use these files to configure the Multi-solution Taskflow, refer to the section, “Postinstallation Configuration” in the *Oracle Retail Predictive Application Server Administration Guide for the Fusion Client*.

If you selected the option to install the fusion client configuration, the translation files for the taskflow have been copied to [RPAS Fusion Client Installation]/resources. For information about how to use these files with the Multi-solution Taskflow, refer to the section, “Creating a Multi-solution Taskflow” in the *Oracle Retail Predictive Application Server Configuration Tools User Guide*.

Patch Installation

This chapter describes how to upgrade CMPO/MSO from a previous release to Release 15.0.

Note: This version of CMPO/MSO is upgradeable from release 14.0 or later.

Upgrade Prerequisites

In order to upgrade CMPO/MSO, first verify the following criteria for the RPAS system:

- Verify that the UNIX operating system is updated to the currently supported version. Refer to the “Hardware and Software Requirements” section of the *Oracle Retail Predictive Application Server Installation Guide*.
- Verify that the environment variables are correctly set for both the server and PC; if they are not, follow these instructions to set them:
 - Change directories to the original RPAS installation directory (such as the one created by the most recent installer), and run `retaillogin.ksh` to set all environment variables. For example:

```
$ cd /retail
$ . ./retaillogin.ksh
```

Notes: After you have run the script, verify that the environment variables all point to the correct locations on your environment.

If you have updated Java since the last installation of RPAS, verify that the `JAVA_HOME` path is correct. If not, update your `retaillogin.ksh` script and source it again as previously outlined.

Upgrade Process

The following process outlines how to upgrade CMPO/MSO to the latest version using the RPAS Configuration Tools.

Upgrade and Patch to RPAS Release 14.0 or Later

The following process outlines how to upgrade CMPO/MSO to the current version using the RPAS Configuration Tools.

For the PC

Follow these instructions for the PC to upgrade to the current version:

1. Open RPAS Configuration Tools.
2. In RPAS Configuration Tools, load your previous configuration of CMPO/MSO:
 - a. From the Configuration Tools File menu, select **Open**.
 - b. From the Open window, locate the configuration file and click **Open**.
3. If your configuration requires updating, dialog boxes will prompt you to upgrade. Follow the instructions given in the dialog boxes.
4. In the RPAS Configuration Tools File menu, click **Save** to save the configuration.
5. Zip the configuration in Cygwin and transfer the .zip file to the RPAS server.

For the Server

Follow these instructions for the server to upgrade to the current version:

1. Upgrade the RPAS server and the RPAS Fusion Client configuration by running the installer:
 - a. Begin the installer as described in the [Installing CMPO/MSO](#) section.
 - b. Complete steps 1-5.
 - c. At step 6, on the [Install Tasks Window](#), clear the **Category Domain** option.
 - d. Finish the remaining steps of the installer.
2. Unzip the updated configuration and note where it is saved.
3. Upgrade your CMPO/MSO domain to a 15.0 domain. Run one of the following commands:

To Upgrade:	Run:
With no change to styles	patch_cm_keepformats.ksh
To remove and rebuild the saved styles in the domain. (This calls rpaInstall with the -updatestyles option.)	patch_cm_deleteformats.ksh

Appendix: Installation Order

This section provides a guideline for the order in which the Oracle Retail applications should be installed. If a retailer has chosen to use only some of the applications, the order is still valid, less the applications not being installed.

Note: The installation order is not meant to imply integration between products.

Enterprise Installation Order

1. Oracle Retail Merchandising System (RMS), Oracle Retail Trade Management (RTM)
2. Oracle Retail Sales Audit (ReSA)
3. Oracle Retail Extract, Transform, Load (RETL)
4. Oracle Retail Active Retail Intelligence (ARI)
5. Oracle Retail Warehouse Management System (RWMS)
6. Oracle Retail Invoice Matching (ReIM)
7. Oracle Retail Price Management (RPM)
8. Oracle Retail Allocation
9. Oracle Retail Mobile Merchandising (ORMM)
10. Oracle Retail Xstore Office
11. Oracle Retail Xstore Point-of-Service, including Xstore Point-of-Service for Grocery, and including Xstore Mobile
12. Oracle Retail Xstore Environment
13. Oracle Retail EFTLink
14. Oracle Retail Store Inventory Management (SIM), including Mobile SIM
15. Oracle Retail Predictive Application Server (RPAS)
16. Oracle Retail Batch Script Architecture (BSA)
17. Oracle Retail Demand Forecasting (RDF)
18. Oracle Retail Category Management Planning and Optimization/Macro Space Optimization (CMPO/MSO)
19. Oracle Retail Replenishment Optimization (RO)

- 20.** Oracle Retail Analytic Parameter Calculator Replenishment Optimization (APC RO)
- 21.** Oracle Retail Regular Price Optimization (RPO)
- 22.** Oracle Retail Merchandise Financial Planning (MFP)
- 23.** Oracle Retail Size Profile Optimization (SPO)
- 24.** Oracle Retail Assortment Planning (AP)
- 25.** Oracle Retail Item Planning (IP)
- 26.** Oracle Retail Item Planning Configured for COE (IP COE)
- 27.** Oracle Retail Advanced Inventory Planning (AIP)
- 28.** Oracle Retail Integration Bus (RIB)
- 29.** Oracle Retail Services Backbone (RSB)
- 30.** Oracle Retail Financial Integration (ORFI)
- 31.** Oracle Retail Data Extractor for Merchandising (ORFI)
- 32.** Oracle Retail Clearance Optimization Engine (COE)
- 33.** Oracle Retail Analytic Parameter Calculator for Regular Price Optimization (APC-RPO)
- 34.** Oracle Retail Insights, including Retail Merchandising Insights (previously Retail Merchandising Analytics) and Retail Customer Insights (previously Retail Customer Analytics)