Oracle® Retail Clearance Optimization Engine

Release Notes

Release 14.0.4

E83712-01

January 2017

Oracle Retail Clearance Optimization Engine (COE) Release 14.0.4 is a patch release for COE 14.0. COE 14.0.4 includes selected defect fixes for COE 14.0 code.

Oracle Customer Support investigates submitted issues assuming that all released updates have been applied. It is the customer's decision when to apply a new release; however, delays in applying updates can complicate the support process.

This document includes the following sections:

- Overview
- About Patch Releases
- Hardware and Software Requirements
- Applying the Patch Release
- Upgrading to Clearance Optimization Engine
- Technical Enhancements
- Defect Fixes and Documentation
- Noteworthy Defect Fixes
- Known Issues
- Related Documents
- Documentation Accessibility

Overview

The Clearance Optimization Engine (COE) provides remote access to the What If RMI interface that Item Planning Configured for COE accesses using the RPAS special expression. This allows the IP application to produce in-season price recommendations and forecasts that account for planned promotions and future markdowns in the product life cycle. The forecast includes a sales plan and an optimal price plan.

COE produces its recommendations during the weekly model run. The results of the model run are stored in the database. These results can be extracted using the send back files. They are then available for use by IP.

You have the ability to perform real-time What-If scenarios from within Item Planning and alter plans in order to see the results of those changes. The changes include planning a markdown, changing future prices, changing an order, changing the exit date, changing the salvage value, and changing the sell-through target. Business rules

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can also be imported from Item Planning into COE from Item Planning in a format that follows the COE standard interface.

About Patch Releases

Oracle Retail patch releases are periodic releases that can include the following:

- New defect fixes and product enhancements

Documentation for patch releases includes the following:

- New and updated guides (for example, operations and user guides) that apply to the patch release level. These documents include all updates made since the last patch release. Documents revised for this patch release supersede and replace all previous document versions.

See the *Oracle Retail Clearance Optimization Engine Installation Guide* for instructions about how to apply the defect fixes and enhancements that you have not already applied.

Hardware and Software Requirements

For more information on the hardware and software requirements, see the *Oracle Retail Clearance Optimization Engine Installation Guide*.

Applying the Patch Release

Before applying the COE 14.0.4 patch release, be sure that COE 14.0 has been installed.

Before applying the new files over your code:

- Note whether any modules have been customized. If so, the customizations must be reapplied to the new version of the module, or the fix may need to be applied to the custom version of the code.

- Copy the original files (config_root) to a different directory before upgrading to COE 14.0.4.

COE Build Identifiers

Table 1   COE Build Identifiers

Component Name	Version Number
RGBUMDOCOE	RGBUMDOCOE_14.0.4.0_GENERIC_170116.0432
RGBUMPOFRAMEWORK	RGBUMPOFRAMEWORK_14.0.4.0_GENERIC_170112.2245
RGBUMPOINSTALLER	RGBUMPOINSTALLER_14.0.1.0_GENERIC_150304.1506
RGBUMPOSUITE	RGBUMPOSUITE_14.0.4.0_GENERIC_170116.0429
RGBUMDOCOE	RGBUMDOCOE_14.0.4.0_GENERIC_170116.0432
RGBUMPOCALCENGINE PKG	RGBUMPOCALCENGINEPKG_5.6.7.0_GENERIC_150304.0032
RGBUAPCMDO	RGBUAPCMDO_14.0.1.0_GENERIC_140327.1751

Upgrading to Clearance Optimization Engine

For more information on upgrading to Clearance Optimization Engine Release 14.0.4, refer to the *Oracle Retail Clearance Optimization Engine Installation Guide*.

Technical Enhancements

The following technical enhancement is included in Oracle Retail Clearance Optimization Engine Release 14.0.4:

Browser Support

Oracle Retail Clearance Optimization Engine is supported for use with Internet Explorer 11.

Oracle Internet Directory (OID)

Oracle Retail Clearance Optimization Engine is supported for use with Oracle Internet Directory (OID) 11.1.1.9.

Application Server

Oracle Retail Clearance Optimization Engine supports the use of Oracle WebLogic Server 11g Release 1 (10.3.6), extended to use Application Development Framework (ADF) 11.1.1.9.

Defect Fixes and Documentation

A defect fix is a modification to the base Oracle Retail code (for example, a bug fix, a performance enhancement, or a functional enhancement). Each defect fix that is included in this patch has a corresponding defect report titled <defect-number>.PDF (for example, 1234567.PDF) that is posted to My Oracle Support at the following location: Oracle Retail Defect Document Listings (MOS ID: 2021275.1).

Review each defect report carefully before implementing the defect fixes. Note that scripts do not preserve data. Make sure that all data is backed up before you run any script.

Noteworthy Defect Fixes

The following defect fixes are included in Oracle Retail Clearance Optimization Engine Release 14.0.4:

Defect Number	Description
21953573	Unique constraint violation when loading data into HIST_MARKDOWNS_TBL.

Known Issues

The following known issues exist in this release:

Defect Number	Description
25220827	The Print/Export window does not close after printing or exporting data. You have to click **Cancel** to close the window.
25442056	Printing only prints contents that fits into one page and ignores other details. This is an issue with Internet Explorer 11. You can export the grid data and print from the Microsoft Excel application.
25220546	Headers in BRPM are not visible completely in certain cases where the column group title is larger than the column group width. Use the tool tip to view the complete header.

COE Web Services

COE web service can be enabled with Security (digital signatures and encryption). It uses WebLogic WS-Policy files for enabling message-level security.

Due to a defect 14098718 in WebLogic 10.3.6, the WebLogic console page that lets the user associate WS-Policy files to a web service is broken if Oracle Web service Security Manager (OWSM) is not installed in the Middleware home. OWSM is part of SOA Suite and is not required for COE application. COE Web service only uses WebLogic WS-Security.

The following section describes the workaround to associate the WS-Policy files to COE web service security.

> **Note:** You must still follow the COE Install Guide and WebLogic documentation to complete the rest of the steps for enabling security for COE web service including:
>
> - Enabling and configuring WebLogic Security providers
> - Authentication provider
> - Mapping Credential

Workaround to Associate a WS-Policy file with COE Web Service

This workaround is to associate a deployment plan for the COE application, Price, that defines what policy files to associate with the COE web service operations.

This deployment plan (plan.xml) associates:

- WS-Policy Encrypt.xml and Sign.xml to the COE web service ClearanceOptimizationServiceSoapHttpPort for both Inbound and Outbound.
- WS-Policy Auth.xml to the COE web service ClearanceOptimizationServiceSoapHttpPort for Inbound messages for both getForecast and getVersion operations.

> **Note:** The COE application must be already installed.

Take the following steps to apply this workaround:

1. Create a new XML file. See Sample XML text for the contents of the XML file.

2. Save the XML file to the location where the WebLogic server is installed for COE, on the Server.

3. Log into the WebLogic admin console.

4. On the Summary of Deployments screen, click **Deployments** in the Domain Structure section.

*Figure 1   Summary of Deployments > Domain Structure > Deployments*
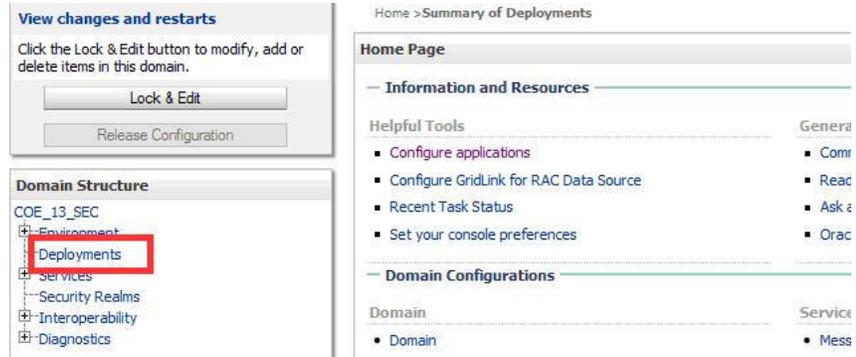
5. Under View changes and restarts, click **Lock & Edit** to modify the domain.

Figure 2   Summary of Deployments > View changes and restarts > Lock & Edit
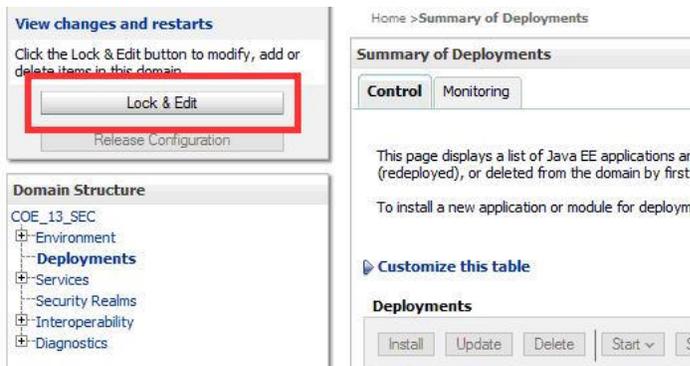
6. In the Deployments section, select the check box for the deployment "price", and click **Update**.

Figure 3   Summary of Deployments > Customize this table
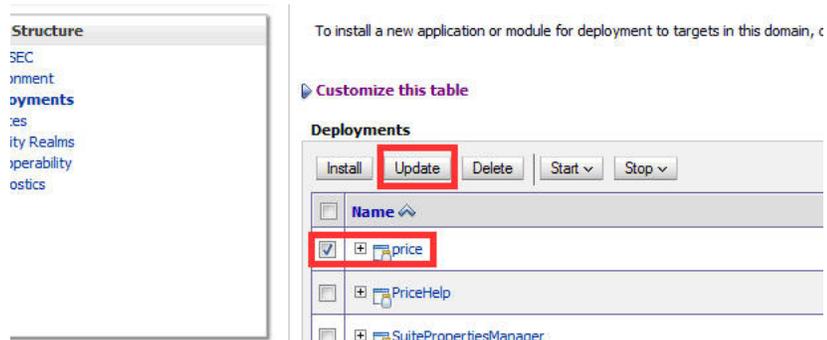
7. In the Update Application Assistant section, click **Change Path** in the Deployment plan path section.

Figure 4   Summary of Deployments > Update Application Assistant
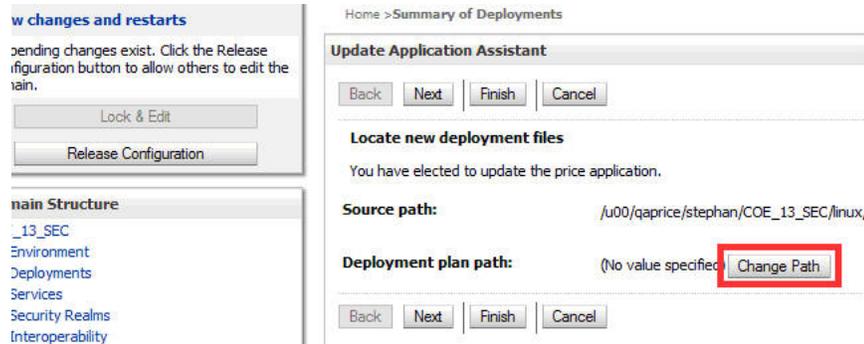
8. Navigate to the location where the XML file has been saved. Refer to step 2 for the location.

9. Select the XML file, and click **Next**.

10. In the Locate new deployment files section, select "Update this application in place with new deployment plan changes." radio button, and click **Finish**.

Figure 5   Summary of Deployments > Update Application Assistant
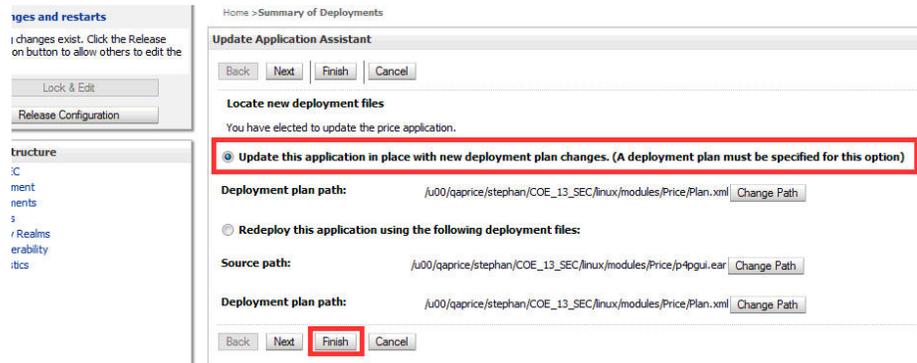
11. In the View changes and restarts section, click **Activate Changes** to release the domain from Lock & Edit mode. Restart the server, if needed.

Figure 6   Summary of Deployments > Activate Changes
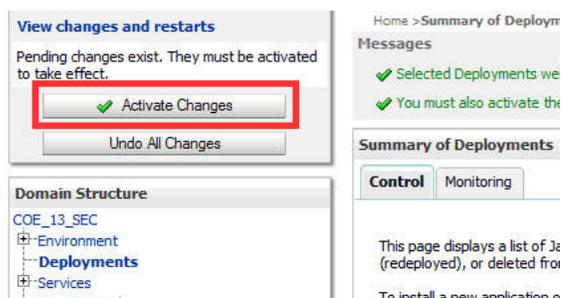
Example 1   Sample XML text

```xml
<?xml version='1.0' encoding='UTF-8'?>
<deployment-plan xmlns="http://xmlns.oracle.com/weblogic/deployment-plan"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://xmlns.oracle.com/weblogic/deployment-plan
http://xmlns.oracle.com/weblogic/deployment-plan/1.0/deployment-plan.xsd">
  <application-name>Price</application-name>
  <variable-definition>
    <variable>
      <name>WsPolicy_policy:Encrypt.xml</name>
      <value>both</value>
    </variable>
    <variable>
      <name>WsPolicy_policy:Sign.xml</name>
      <value>both</value>
    </variable>
    <variable>
      <name>WsPolicy_policy:Auth.xml</name>
      <value>inbound</value>
    </variable>
    <variable>
      <name>WsPolicy_policy:Auth.xml</name>
      <value>inbound</value>
    </variable>
  </variable-definition>
  <module-override>
    <module-name>p4pgui.ear</module-name>
    <module-type>ear</module-type>
    <module-descriptor external="false">
      <root-element>weblogic-application</root-element>
      <uri>META-INF/weblogic-application.xml</uri>
    </module-descriptor>
    <module-descriptor external="false">
      <root-element>application</root-element>
      <uri>META-INF/application.xml</uri>
    </module-descriptor>
    <module-descriptor external="true">
      <root-element>wldf-resource</root-element>
      <uri>META-INF/weblogic-diagnostics.xml</uri>
    </module-descriptor>
  </module-override>
  <module-override>
    <module-name>p4pgui.war</module-name>
    <module-type>war</module-type>
```

```
    <module-descriptor external="false">
      <root-element>weblogic-web-app</root-element>
      <uri>WEB-INF/weblogic.xml</uri>
    </module-descriptor>
    <module-descriptor external="false">
      <root-element>web-app</root-element>
      <uri>WEB-INF/web.xml</uri>
    </module-descriptor>
  </module-override>
  <module-override>
    <module-name>ClearanceOptimizationService_v3.war</module-name>
    <module-type>war</module-type>
    <module-descriptor external="false">
      <root-element>weblogic-web-app</root-element>
      <uri>WEB-INF/weblogic.xml</uri>
    </module-descriptor>
    <module-descriptor external="false">
      <root-element>web-app</root-element>
      <uri>WEB-INF/web.xml</uri>
    </module-descriptor>
    <module-descriptor external="false">
      <root-element>weblogic-webservices</root-element>
      <uri>WEB-INF/weblogic-webservices.xml</uri>
    </module-descriptor>
    <module-descriptor external="false">
      <root-element>webservices</root-element>
      <uri>WEB-INF/webservices.xml</uri>
    </module-descriptor>
    <module-descriptor external="false">
      <root-element>webservice-policy-ref</root-element>
      <uri>WEB-INF/weblogic-webservices-policy.xml</uri>
      <variable-assignment>
        <name>WsPolicy_policy:Encrypt.xml</name>

<xpath>/webservice-policy-ref/port-policy/[port-name="ClearanceOptimizationService
SoapHttpPort"]/ws-policy/[uri="policy:Encrypt.xml"]/direction</xpath>
      </variable-assignment>
      <variable-assignment>
        <name>WsPolicy_policy:Sign.xml</name>

<xpath>/webservice-policy-ref/port-policy/[port-name="ClearanceOptimizationService
SoapHttpPort"]/ws-policy/[uri="policy:Sign.xml"]/direction</xpath>
      </variable-assignment>
      <variable-assignment>
        <name>WsPolicy_policy:Auth.xml</name>

<xpath>/webservice-policy-ref/operation-policy/[operation-name="getForecast",servi
ce-link="ClearanceOptimizationServiceSoapHttpPort"]/ws-policy/[uri="policy:Auth.xm
l"]/direction</xpath>
      </variable-assignment>
      <variable-assignment>
        <name>WsPolicy_policy:Auth.xml</name>

<xpath>/webservice-policy-ref/operation-policy/[operation-name="getVersion",servic
e-link="ClearanceOptimizationServiceSoapHttpPort"]/ws-policy/[uri="policy:Auth.xml
"]/direction</xpath>
      </variable-assignment>
    </module-descriptor>
  </module-override>
```

```
</deployment-plan>
```

Related Documents

For more information, see the following documents in the Oracle Retail Clearance Optimization Engine Release 14.0.4 documentation set:

- *Oracle Retail Clearance Optimization Engine Installation Guide*
- *Oracle Retail Clearance Optimization Engine Administration Guide*

Documentation Accessibility

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

Access to Oracle Support

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