Oracle® Retail Clearance Optimization Engine

Release Notes

Release 13.4.3

E54968-01

June 2014

Oracle Retail Clearance Optimization Engine (COE) Release 13.4.3 is a patch release for COE 13.4. COE 13.4.3 includes selected defect fixes for COE 13.4 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
- Technical Enhancements
- 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 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 Release 13.4.3 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* for Release 13.4.3.

Applying the Patch Release

Before applying the COE 13.4.3 patch release, be sure that:

- COE 13.4 has been installed.
- COE 13.4.1 has been installed.
- COE 13.4.2 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 13.4.3.

Build Identifiers

Table 1 COE Build Identifiers

Component Name	Version Number
RGBUMDOCOE	RGBUMDOCOE_13.4.3.0_GENERIC_140603.0027
RGBUMPOFRAMEWORK	RGBUMPOFRAMEWORK_13.4.3.0_GENERIC_140602.0606
RGBUMPOINSTALLER	RGBUMPOINSTALLER_13.4.3.0_GENERIC_140602.2132
RGBUMPOSUITE	RGBUMPOSUITE_13.4.3.0_GENERIC_140602.2128
RGBUMPOCALCENGINEPKG	RGBUMPOCALCENGINEPKG_5.6.7.0_GENERIC_131021.0032
RGBUAPCMDO	RGBUAPCMDO_13.4.3.0_GENERIC_140513.0617

Technical Enhancements

This release includes:

- Oracle Application Development Framework Support

Oracle Application Development Framework Support

Oracle Retail Clearance Optimization Engine supports the use of Oracle WebLogic Server 11g Release 1 (10.3.6), extended to use Oracle Application Development Framework 11.1.1.7.0.

The following table lists the supported operating systems and the associated application server versions:

Table 2 Application Server Requirements for Clearance Optimization Engine

Software	Requirement				
Application Servers	Oracle WebLogic Server 11*g* Release 1 (10.3.6), extended to use ADF 11.1.1.7.0				
Database Client	Oracle Database 11*g* Client Release 2 (11.2.0.3.0)				
Operating Systems (64-bit)	Oracle Linux Release 5.0 Update 8, x86-64 based	Oracle Solaris 10 Update 10, SPARC-based	IBM AIX 6.1 Technology Level 6 (TL6), Power processor-based	HP-UX 11i v3 Update 7 (11.31), Itanium-based	Red Hat Enterprise Linux 5 Update 8
JVM (64-bit)	Oracle JDK 6.0 Update 75	Oracle JDK 6.0 Update 75	IBM JDK 1.6 SR15	HP UX JDK 1.6.0.22i	Oracle JDK 6.0 Update 75

Noteworthy Defect Fixes

The following noteworthy defects are fixed in this release:

Defect	Description
18683262	Threshold for small errors and small number of rows do not error as expected.
18683302	COE validates an incorrect markdown date.
18683325	The LOADBRINSTANCES table fails with the ORA-00001: UNIQUE CONSTRAINT (PRICE.BRM_INST_UK) error.
18683337	The LOADLOCATIONHIERARCHY table fails when a new branch is added with flexible clustering.
18731441	The Grid Designer displays a runtime exception for XMLSERIALIZER.
18885266	The ASH_BRM_INSTANCE_TBL_BAD table does not display incorrect records.

Known Issues

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

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

Note: Review the *Oracle Retail Clearance Optimization Engine Installation 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

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

Associating a WS-Policy file With COE Web Service

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

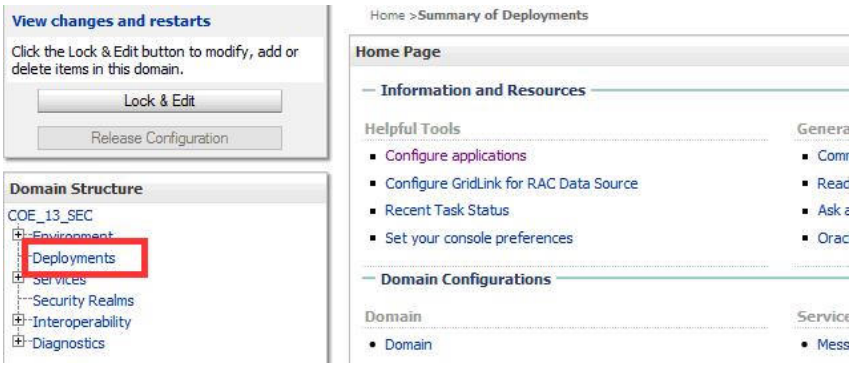
This deployment plan (plan.xml) associates the following:

- 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.

Take the following steps to deploy the plan.xml:

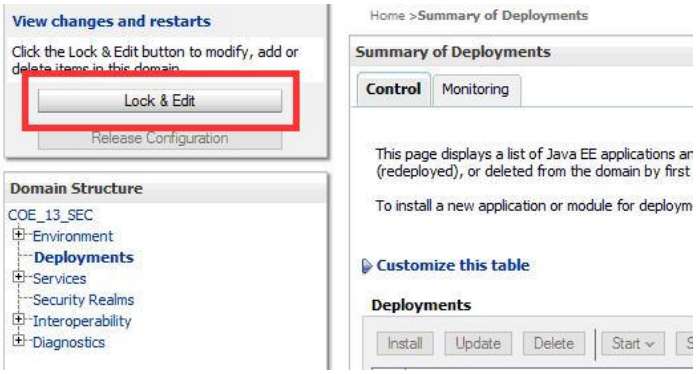
1. Ensure that the COE application is installed.
2. Create a new XML file. See Sample XML Text for the contents of the XML file.
3. Save the XML file to the server where the WebLogic server is installed for COE.
4. Log into the WebLogic Administration console.
5. On the Summary of Deployments screen, click **Deployments** in the Domain Structure section.

Figure 1 Summary of Deplyoments > Domain Structure > Deployments



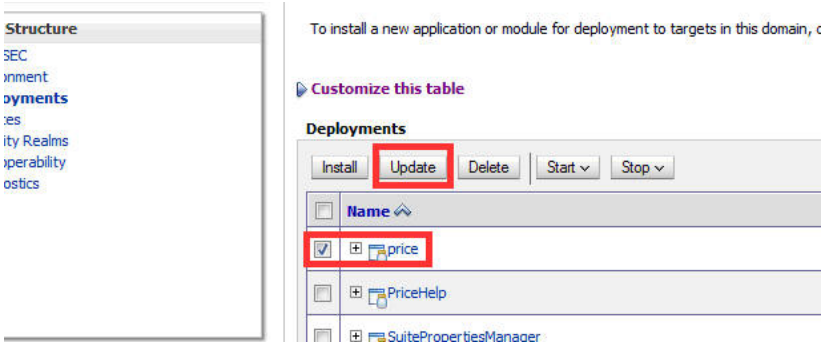
6. Under **View changes and restarts**, click **Lock & Edit** to modify the domain.

Figure 2 Summary of Deployments > View changes and restarts > Lock & Edit



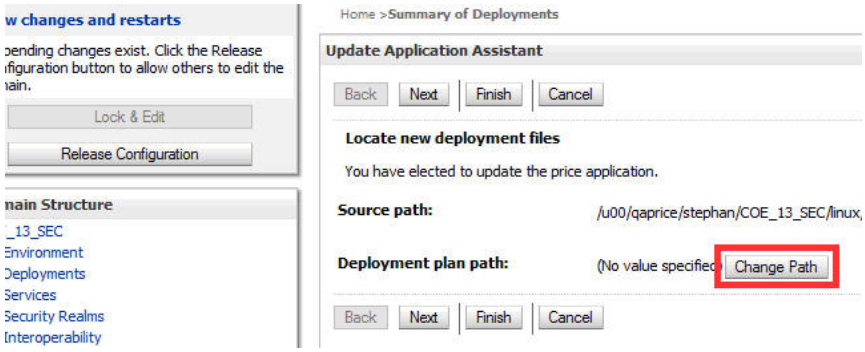
7. Under the **Deployments** section, select the check box for the deployment "price", and click **Update**.

Figure 3 Summary of Deployments > Customize this table



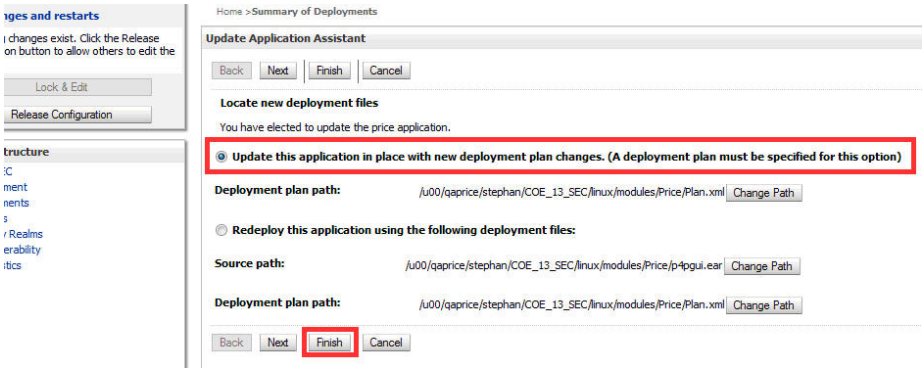
8. Under **Update Application Assistant**.
9. Click **Change Path** in the Deployment plan path section.

Figure 4 Summary of Deployments > Update Application Assistant



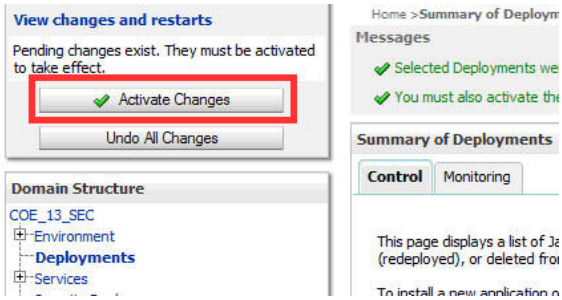
10. Navigate to the location where the XML file has been saved. Refer to step 3 for the location.
11. Select the XML file, and click **Next**.
12. Under **Locate new deployment files**, select **Update this application in place with new deployment plan changes** and click **Finish**.

Figure 5 Summary of Deployments > Update Application Assistant



13. 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



Sample XML Text

```
<?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 document in the Oracle Retail Clearance Optimization Engine, Release 13.4.3 documentation set:

- *Oracle Retail Clearance Optimization Engine Installation Guide*

Documentation Accessibility

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