

Oracle Retail Order Broker
Installation Guide
Release 18.0

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Oracle Retail Order Broker Installation Guide, Release 18.0

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Preface

The Oracle Retail Order Broker Installation Guide describes the steps required to install the application.

Audience

This Installation Guide is for the staff responsible for installing Oracle Retail Order Broker on premise.

Note: These steps require working knowledge of Linux administration, Oracle database administration, and WebLogic administration.

Documentation Accessibility

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<http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs> if you are hearing impaired.

- *Oracle Retail Order Broker Store Connect Online Help*
- *Oracle Retail Order Broker Vendor Portal Online Help*
- *Oracle Retail Order Broker Vendor Integration Guide*
- *Oracle Retail Order Broker Administration Guide*
- *Oracle Retail Order Broker Operations Guide*
- *Oracle Retail Order Broker Security Guide*

See the Oracle Retail Order Broker 18.0 documentation library at the following URL:

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

Note: This documentation library includes documents that apply to both Oracle Retail Order Broker for installation on premise, and Oracle Retail Order Broker Cloud Service. Unless labeled specifically as documentation for Oracle Retail Order Broker (on premise), each document references the cloud product rather than the on premise product.

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- 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

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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>

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, emphasis, or terms defined in text or the glossary.
<i>italic</i>	Italic type indicates book titles, 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.

Preinstallation Tasks

This chapter discusses the tasks to complete before installation and introduces basic concepts and terms.

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

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Prerequisites

Implementation Capacity Planning

There is significant complexity involved in the deployment of Oracle Retail applications, and capacity planning is site specific. Oracle Retail strongly suggests that before installation or implementation you engage your integrator (such as the Oracle Retail Consulting team) and hardware vendor to request a disk sizing and capacity planning effort.

Sizing estimates are based on a number of factors, including the following:

- Workload and peak concurrent users and batch transactions
- Hardware configuration and parameters
- Data scarcity
- Application features utilized

Additional considerations during this process include your high availability needs as well as your backup and recovery methods.

Check Supported Database Server Requirements

General requirements for a database server running Oracle Retail Order Broker include:

Supported On	Versions Supported
Database Server OS	Oracle Linux 7 for x86-64
Database Server 12cR1	Oracle Database Enterprise Edition 12cR1 (12.1.0.2) with the following specifications: Components: <ul style="list-style-type: none"> • Oracle Partitioning • Examples CD

Check Supported Application Server Requirements

General requirements for running the Order Broker application include the following.

Supported On	Versions Supported
Application Server OS	Oracle Linux 7 for x86-64 (Actual hardware or Oracle virtual machine). JAVA_HOME configured
Application Server	WebLogic 12c, v12.2.1.3.0 Java: latest Java 8 JDK or higher

Check Supported Application Server Requirements for Store Connect or Supplier Direct Fulfillment Servers

Store Connect and Supplier Direct Fulfillment are optional modules. Supplier Direct Fulfillment can be installed on a separate server. General requirements for each server include the following.

Supported On	Versions Supported
Application Server OS	Oracle Linux 7 for x86-64 (Actual hardware or Oracle virtual machine). JAVA_HOME configured
Application Server	WebLogic 12c, v12.2.1.3.0 Java: latest Java 8 JDK or higher

Note: Store Connect and Supplier Direct Fulfillment do not require separate databases.

Check Client PC and Web Browser Requirements

General requirements for client running Order Broker, Store Connect, or Supplier Direct Fulfillment include:

Requirement	Versions
Operating System	Windows 7, 8, or 10 Note: Oracle Retail assumes that the retailer has ensured its Operating System has been patched with all applicable Windows updates.
Display Resolution	1024x768 or higher
Processor	2.6GHz or higher
Memory	1 GByte or higher
Networking	Intranet with at least 10Mbps data rate
Browser	Microsoft Internet Explorer 10.0 or higher Mozilla Firefox 38.0 or higher Chrome 43.0 or higher

Supported Oracle Retail Products

The following Oracle Retail products can be integrated with Order Broker. Each product may integrate with various pieces of Order Broker functionality and not necessarily all features available within Order Broker.

- Oracle Retail Xstore Suite – Optional
- Oracle Retail Order Management System – Optional

- Oracle Retail Open Commerce Platform – Optional

The above products can be installed before or after Order Broker. However, it is helpful to know the connection details for the other products when configuring Order Broker.

Linux User Account Privileges to Install the Software

A Linux user account is needed to install the software. The Linux user that is used to install the software should have write access to the Installation directories.

WebLogic User Privileges to Configure WebLogic

The user who configures the application in the WebLogic console must have read/write/execute authority in the WebLogic domain.

Oracle WebService Manager – Policy Manager

The OWSM Policy Manager must be installed with the domain.

Other Prerequisites

Order Broker 18.0 requires Web Logic server 12.2.1.3 with patch p28387681 installed on it. Patch p28387681 is available at https://bugsftp.us.oracle.com/bug/filedownloadervlet?bug=28387681&FileName=p28387681_122130_Generic.zip. Please install the patch before starting Order Broker application setup.

Coherence must be installed in the domain.

A BI Publisher instance must be set up.

Definitions and Concepts

Platform

Release 18.0 of Order Broker uses the WebLogic 12c (version 12.2.1.3.0) platform.

Domain

The Order Broker application suite will be deployed under a WebLogic **Domain**.

A domain is an interrelated set of WebLogic Server resources managed as a unit. A domain includes one or more administration servers and managed servers. Various clients use the administration server to configure the system. The managed server is used to run actual applications.

A domain includes one or more WebLogic Server instances, which can be clustered, non-clustered, or a combination of clustered and non-clustered instances.

Cluster

The Order Broker application suite will be deployed within a WebLogic **Cluster**.

The Order Broker application suite, along with configuration including Data Sources, is replicated to participating servers in the WebLogic cluster.

The Order Broker application suite only has to be deployed on a single server in the cluster as part of the installation process.

A cluster is part of a particular WebLogic Server domain.

ADMIN_SERVER

The Order Broker application suite will be deployed using WebLogic's Administration Server. The application server can be accessed by a web browser, and requires a user ID and password to log in.

Typically, the Administration server is accessed on port 7002, for example:

```
http://your_weblogic_server.us.oracle.com:7002/console
```

Domains include a special WebLogic Server instance called the Administration Server, which is the central point from which you configure and manage all resources in the domain. Usually, you configure a domain to include additional WebLogic Server instances called Managed Servers.

DOMAIN_SERVER

The Order Broker application suite will be deployed using WebLogic's Administration Server and run under the **Domain Server**. The Order Broker application suite is **not** deployed under the **Administration Server**, since other applications could be deployed with other Domains. Each server with the **cluster** will have a **Domain Server**.

WEBLOGIC_12c

You will need to know your root installation path for WebLogic in order to perform the installation process.

DOMAIN_FOLDER

This is the root folder of the domain.

Installation Steps

The following basic steps are required to install and set up Oracle Retail Order Broker for the first time.

Before You Start

Java JDK:

The Java 8 JDK or higher must be installed on the application server, and JAVA_HOME must be configured.

Database Connection Information:

Prior to beginning the installation process, *you* must source the credentials for the following database connections:

- Order Broker Database
- Proximity Database
- Order Broker Admin Database

For more information: See the [Preinstallation Tasks](#).

Note: These steps require working knowledge of Linux administration, Oracle database administration, and WebLogic administration.

Download the installation package: The installation package is available on the Oracle Software Delivery Cloud (<https://edelivery.oracle.com/osdc/faces/Home.jsp>). Search for Oracle Retail Order Broker on the Linux platform to find and download the installation package.

In this chapter:

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- [Supplier Direct Fulfillment \(Vendor Portal\) Installation](#) on page 30
 - [Validate the Vendor Portal Installation](#) on page 31

Databases Installation

Before you begin: See the [Preinstallation Tasks](#).

Script editor: Make sure you open scripts in an editor that can read and support UTF8 encoding, since some scripts contain double-byte data. Also, when running SQL Plus, make sure the NLS_LANG parameter is set.

Windows:

```
SET NLS_LANG=AMERICAN_AMERICA.AL32UTF8
```

Linux:

```
export NLS_LANG=AMERICAN_AMERICA.AL32UTF8
```

Spool output: Make sure you spool your console output to a file so any errors can be investigated.

Create Database Containers and Pluggable Databases

The Order Broker database is made up of two databases with three user / schemas. The Order Broker Install contains a Database folder with SQL scripts for creating the database objects and data. They can be used to complete the following database setup tasks.

Important: The scripts mentioned below are designed to run in SQL*Plus.

1. In Oracle, create two Container Databases:
 - One for the Order Broker and Proximity schemas.
 - One for the Order Broker Admin schema.
2. Next, create pluggable databases that are connected to the Container Database created in step 1.
3. In Oracle, create two pluggable databases.

Important: Before creating the pluggable databases, be sure to note the user ID and password. Also, be sure to record the *Target File Path*.

When creating the pluggable databases, use *Custom Names*. The pluggable databases are:

- Order_Broker (includes the Order Broker and the Proximity schemas)
- Order_Broker_Admin

Note: The databases need to follow this naming convention, including the underscores between words.

4. After creating the pluggable databases, set the state of each database to *Open*.

Create Table Spaces for Each Database

Important: You need to use SQL*Plus rather than Oracle Developer to run each of the scripts mentioned below.

1. Create table spaces for the ORDER_BROKER database:

- ORDER_BROKER_DATA
- ORDER_BROKER_INDEX
- ORDER_BROKER_LOBS
- PROXIMITY_DATA
- PROXIMITY_INDEX

Run `Order_Broker_tablespace.sql` logged in as `system`.

Note: The `Order_Broker_tablespace.sql` script needs to be updated with the appropriate data file paths.

2. Create the following tables spaces for the ORDER_BROKER_ADMIN database:

- ORDER_BROKER_ADMIN_DATA
- ORDER_BROKER_ADMIN_INDEX

Run `Order_Broker_Admin_tablespace.sql` logged in as `system`.

Check the spool file for errors. If there are errors, contact Customer Support.

Create the Users / Schemas and Seed Data for Each Database

For the ORDER_BROKER and ORDER_BROKER_ADMIN databases:

1. In the ORDER_BROKER database, run `Order_broker_users.sql` logged in as `system` in order to:
 - Create an ORDER_BROKER user / schema
 - Create an ORDER_BROKER_PROXIMITY user / schema
2. In the Order_Broker_Admin database, create an ORDER_BROKER_ADMIN user / schema.

Run `Order_broker_Admin_users.sql` logged in as `system`.

Check the spool file for errors. If there are errors, contact Customer Support.

3. In the Order_Broker database, run the SQL script below.

Before running the `Order_Broker_seed_data.sql` script, change the Linux path as follows:

Replace ' <WEBLOGIC_12c>/<DOMAIN_FOLDER>/conf/emailtemplates ' with the domain path, where <WEBLOGIC_12c> should be substituted with the root WebLogic installation path.

```
Insert into TENANT
```

```
(TENANT_ID, NAME, LICENSE_CODE, KEY_CODE, UI_TIME_OUT, TENANT_LOGO
, ACCOUNT, EMAIL_INTERVAL_MINUTES, EMAIL_TEMPLATE_PATH, REPORT_RE
```

```
TENTION_DAYS, LOG_RETENTION_DAYS, PACKSLIP_RETENTION_DAYS, PRODUCT_IMPORT_RETENTION_DAYS, ATTRIBUTE_DATA_DIRECTORY, PRODUCT_DATA_DIRECTORY, PROXIMITY_DATA_DIRECTORY, EXPORT_DATA_DIRECTORY, CLEANUP_JOB_SCHEDULE, ESB_SERVICES_WSDL_LOCATION, USE_ORDER_BROKER, USE_VENDOR_PORTAL, USE_STORE_CONNECT, LOCK_OUT_ATTEMPTS)
values (0, 'Order Broker', ' ', null, 20, ' ', 'locate', 15, '<WEBLOGIC_12c>/<DOMAIN_FOLDER>/conf/emailtemplates', 30, 14, 30, 30, '/usr/share/OrderBroker/data/AttributeUploadData', '/usr/share/OrderBroker/data/ProductUploadData', '/usr/share/OrderBroker/data/ProximityUploadData', '/usr/share/OrderBroker/data/ExportData', '0 00 01 ? * *', '1,1,1,1,5);
```

4. In the ORDER_BROKER database, logged in as the ORDER_BROKER user:

- Run the Order_Broker_schema.sql script
- Run the Order_Broker_seed_data.sql script
- Run the Order_Broker_schema_v15_0_changes.sql script
- Run the Order_Broker_schema_v15_1_changes.sql script
- Run the Order_Broker_schema_v16_0_changes.sql script
- Run the Order_Broker_schema_v17_0_changes.sql script
- Run the Order_Broker_schema_v17_0_newinstall.sql script

Check the spool file for errors. If there are errors, contact Customer Support.

5. In the ORDER_BROKER database, logged in as the PROXIMITY user:

- Run the Order_Broker_Proximity_schema.sql script
- Run the Order_Broker_Proximity_seed_data.sql script

Check the spool file for errors. If there are errors, contact Customer Support.

6. In the ORDER_BROKER_ADMIN database, logged in as the ORDER_BROKER_ADMIN user:

- Run the Order_Broker_Admin_schema_v16_0_changes.sql script
- Run the Order_Broker_Admin_schema_v17_0_changes.sql script

Check the spool file for errors. If there are errors, contact Customer Support.

7. Connect as sysdba and run the following commands to recompile the stored procedures:

- EXEC UTL_RECOMP.recomp_serial('ORDER_BROKER_ADMIN');
- EXEC UTL_RECOMP.recomp_serial('ORDER_BROKER');
- EXEC UTL_RECOMP.recomp_serial('PROXIMITY');

Check that there are no invalid stored procedures. If there are invalid stored procedures contact Customer Support.

Set up of Database server time zone: Set the database server time zone to UTC, or the same as the App server time zone.

Order Broker Application

Before you begin: See the [Preinstallation Tasks](#).

Important: File names, folder names, and commands on the Linux server are case-sensitive. While completing the following steps, confirm that the case is correct.

Important: You should use a text editor on a Linux machine rather than on a Windows machine to update any text files, XML files, or properties files.

Create the Order Broker Application Admin User

1. For security reasons, the database doesn't contain any default application user IDs.
2. This step creates the Admin user for the application. It only needs to be executed once per client instance.
3. Copy files from the Order Broker Installation folder `Install/Order Broker/Create Admin User` to a temporary directory on the app server.
4. Navigate to the `Create Admin User` folder.
5. Execute the following single-line command, replacing the variables with the appropriate values:

```
"%JAVA_HOME%/bin/java" -cp ojdbc8.jar:CreateOrderBroker.jar
com.oracle.orderbroker.CreateOrderBrokerUser
jdbc:oracle:thin:%HOST_NAME% %DATABASE_USER_NAME%
%DATABASE_USER_PASSWORD% %OB_ADMIN_ID% %OB_ADMIN_PASSWORD%
```

Where:

- `%JAVA_HOME%` = path to the java JDK
- `%HOST_NAME%` = Oracle database host name, in form `@//HOST:PORT/SERVICE`
- `%DATABASE_USER_NAME%` = database user name
- `%DATABASE_USER_PASSWORD%` = database user password
- `%OB_ADMIN_ID%` = Application Admin ID to be created
- `%OB_ADMIN_PASSWORD%` = Application password for Admin user

The command should return `User successfully created`. Any other message or error should be investigated.

Note: If the default user ID or password is lost, you can run the same command again to create an additional user ID. Then you can use this additional user ID to log into the application to reset the default user ID's password.

6. Delete the folder you from the application server when this step is complete.

Set up the Order Broker Tenant Configuration

This step sets up the tenant configuration information in the Admin database,

1. Copy files from the OrderBrokerTenant folder Install/Order Broker/OrderBrokerTenant to the app server.
2. Navigate to the OrderBrokerTenant folder on the app server.
3. Execute the following single-line command, replacing the variables with the appropriate values:

```
%JAVA_HOME%/bin/java -cp ojdbc8.jar:OrderBrokerTenant.jar
com.oracle.orderbroker.tenant.OrderBrokerTenant
jdbc:oracle:thin:%HOST_NAME% %ADMIN_DATABASE_USER_NAME%
%ADMIN_DATABASE_USER_PASSWORD%
%PATH%/OrderBrokerTenant/tenant-config.properties
```

Where:

- %JAVA_HOME% = Path to the java JDK
 - %HOST_NAME% = Oracle database host name, in the form @//HOST:PORT/SERVICE
 - %ADMIN_DATABASE_USER_NAME% = Order Broker Admin database user id
 - %ADMIN_DATABASE_USER_PASSWORD% = Order Broker Admin database user password
 - %PATH% = Path to the OrderBrokerTenant folder on the app server
4. The command should return Tenant updated successfully. Any other message or error should be investigated.

Install the Application

Order Broker 18.0 requires WebLogic server 12.2.1.3 with patch p28387681 installed on it. Patch p28387681 is available at https://bugsftp.us.oracle.com/bug/filedownloadervlet?bug=28387681&FileName=p28387681_122130_Generic.zip. Please install the patch before starting Order Broker application setup.

1. Shut down the WebLogic admin and managed servers.
2. Copy the following folders and files from the /Order Broker/WebLogic install folders.

Note: These configuration steps, with the exception of the Locate.ear deployment and Data Sources setup, must be repeated on all the servers in the cluster. The Locate.ear is installed in the Admin console of WebLogic, which distributes it to every server in the cluster.

3. Copy the Locate.ear from the Deployments folder to a staging area on the same server as WebLogic, to deploy later to the cluster in WebLogic. This step is not required on all servers in the cluster. The Locate.ear is installed in the Admin Console in WebLogic, which distributes it to every server in the cluster.
4. Create a conf folder in <WEBLOGIC_12C>/<DOMAIN_FOLDER>

- Copy the contents of the /Order Broker/Weblogic/conf from the installation to <WEBLOGIC_12c>/<DOMAIN_FOLDER>/conf :
 - Give full rights to the conf folder for the application service profile.
5. Create the folder <WEBLOGIC_12c>/<DOMAIN_FOLDER>/logs.
 - Give full rights to the logs folder for the application service profile.
 6. Create the \${DOMAIN_HOME}/info/heaps and the \${DOMAIN_HOME}/info/gc directories, so that WebLogic can read and write to this directory.
 7. Copy the Gurobi runtime files to the server.
 - Make the following directory: /usr/share/gurobi
 - Copy the following files from the /Order Broker/Gurobi directory to the /usr/share/gurobi directory:
 - libgurobi65.so
 - libGurobiJni65.so
 - Give full rights to the gurobi folder for the application service profile.
 8. Copy the locateProvider.jar from the /Order Broker/Weblogic /Authentication install folder to <WEBLOGIC_12c>/products/wls_1221/wlserver/server/lib/mbeantypes.
 9. Give full rights to the wlserver/server/lib/mbeantypes folder for the application service profile.

Edit Configuration Files and Set Up Data Folders

1. Open the sp-policies.properties file you just copied to <WEBLOGIC_12c>/<DOMAIN_FOLDER>/conf/security and change the pepper-file-path setting to the new WebLogic installation path:


```
pepper-file-path=
<WEBLOGIC_12c>/<DOMAIN_FOLDER>/conf/security/password_pepper.
properties
```

Note: In these instructions, <WEBLOGIC_12c> should be substituted with the root Weblogic Installation path, and <DOMAIN_FOLDER> should be substituted with your domain folder.

2. Change the password_pepper.properties file found in /server/conf/security. Set the PEPPER1= AND PEPPER2= to random string values of at least 30 characters.

Example:

```
PEPPER1= 4fb1272c47f2ac8aeebf10d4a61c75
```

```
PEPPER2= 0fccfa6905f5f66c7d826f1a3d484ba
```

Important: These are example strings only. Do not use these examples.

3. Set up application data folders:

Create the following folder structure:

- /usr/share/OrderBroker/data
- /usr/share/OrderBroker/data/ProductUploadData
- /usr/share/OrderBroker/data/ExportData
- /usr/share/OrderBroker/data/ProximityUploadData

Create the SDFUploadData folder under
/usr/share/OrderBroker/SDFUploadData.

Assign full rights to these folders.

4. Locate the config.xml file in your WebLogic installation (<WEBLOGIC_12c>/<DOMAIN_FOLDER>/config/config.xml) and open it in a Linux-compatible text editor:

Insert the bolded line below between two existing lines:

```
<node-manager-username>weblogic</node-manager-username>
<node-manager-password-encrypted>
{AES}MfEXnREGR45R6aaHeny7zjChqbTTqOeWl8HzLYfI3Ns=
</node-manager-password-encrypted>
<enforce-valid-basic-auth-credentials>>false</enforce-valid-
basic-auth-credentials>
<use-kss-for-demo>>true</use-kss-for-demo>
</security-configuration>
```

5. Navigate to <WEBLOGIC_12c>/<DOMAIN_FOLDER>/bin/ setDomainEnv.sh and open the setDomainEnv.sh file in a Linux-compatible text editor.

Locate this argument at the top of the file:

```
USER_MEM_ARGS="-Xms768m -Xmx4096m -Duser.timezone=UTC"
```

The above values are the recommended max and min memory sizes to run Order Broker.

Edit this line so that it reads: USER_MEM_ARGS="-Xms768m -Xmx4096m"

Add these lines at the end of this line (last line of file):

```
JAVA_OPTIONS="{JAVA_OPTIONS} -
Dlocate.uri=https://your_weblogic_server.domain.com:<port> -
Duser.timezone=UTC -
Dlog4j.configurationFile=${DOMAIN_HOME}/conf/log4j2.xml -
Dtangosol.coherence.cacheconfig=${DOMAIN_HOME}/conf/coherence
-cache-config.xml -
Dtangosol.coherence.distributed.localstorage=true -
Dcoherence.localport=59004 -Dcoherence.localport.adjust=59005
-Xloggc:${DOMAIN_HOME}/info/gc/gc.log -XX:+PrintGC
XX:+PrintGCtimeStamps -XX:+PrintGCDetails
XX:+PrintTenuringDistribution -XX:-UseGCLogFileRotation
XX:NumberOfGCLogFiles=10 -XX:GCLogFileSize=2000K
XX:+HeapDumpOnOutOfMemoryError
XX:HeapDumpPath=${DOMAIN_HOME}/info/heapdump"
export JAVA_OPTIONS
```


*** You may need to also add proxy setting to the JAVA_OPTIONS based upon you local configuration ***

6. Make sure you change the `locate.uri` to the server name of the current machine.

Example: For a clustered environment, there are two servers: **example1** and **example2**. On server **example1**, when changing the `setDomainEnv.sh`, set the `locate.uri` as follows:

```
-Dlocate.uri=https://example1.domain.com:7004
```

Where the port 7004 should be the port that the server is deployed to in the clustered environment, for example:

```
Cluster cluster-name Servers
  server-name running on Port: 7004 server-name2 running
  on Port: 7004
```

7. Also in the `setDomainEnv.sh` file, adding the following entry

```
PATCH_LIBPATH=/usr/share/gurobi:$PATCH_LIBPATH
```

8. In the `locate-config.properties` file, located at

`<DOMAIN_HOME>/conf/props`, change the `server.timezone` property to `server.timezone=XYZ` where XYZ is the time zone of your application server and database server. See the [Time Zones](#) for a listing.

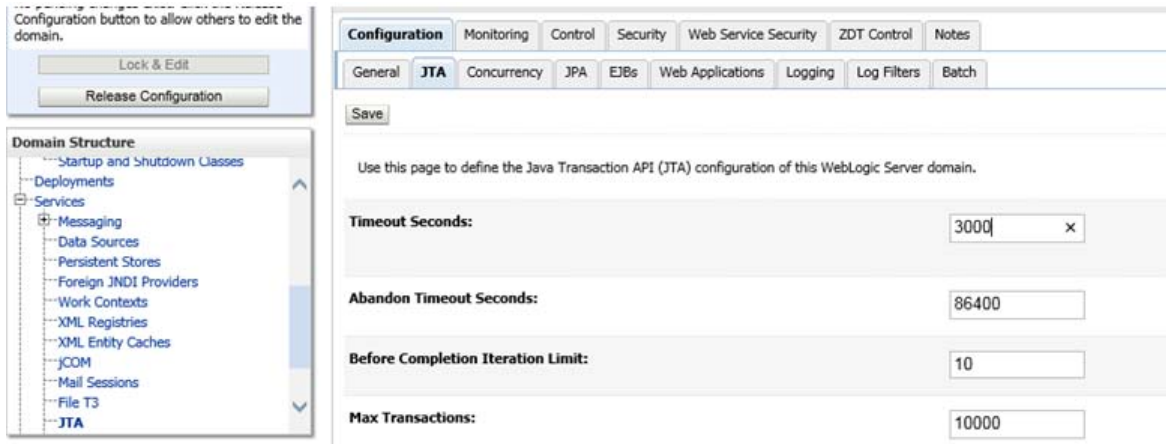
9. Repeat the above steps for all servers in the cluster.

Use the WebLogic Console to Configure the Application

1. Start up all the WebLogic servers.
2. In the WebLogic console, set up *Timeout Seconds* for Order Broker database transactions:
 - Under the left navigation pane for **Domain Structure**, advance to `<DOMAIN_FOLDER> > Services > JTA`.
 - Enter 3000 in *Timeout Seconds*.
 - Click **Save**.

Note: You may need to select **Lock & Edit** to update Transaction Seconds. If so, you may need to select **Activate Changes**.

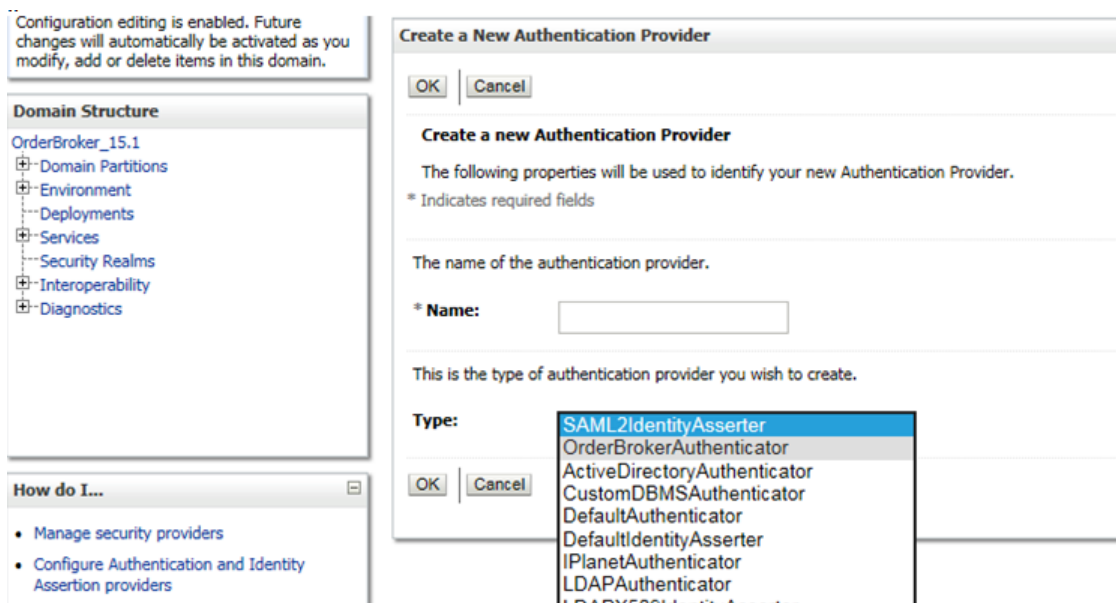
You should see a message: **Settings updated successfully.**



3. Set up the Security Realm for WebLogic JAAS authentication:

- Under **Domain Structure** on the left, select **Security Realms**.
- Select **myrealm**.
- On the top row of tabs, select the **Providers** tab.
- Select **DefaultAuthenticator**.
- Set **Control Flag** to **SUFFICIENT**, if it is not already.
- Select **Save**.
- Go back to **myrealm**.
 - * Under **Domain Structure** on the left, select **Security Realms**.
 - * Select **myrealm**.
- On the top row of tabs, select the **Providers** tab.
- Select **New** to create a new provider.

- Enter **Order Broker** as the **Name** and select **OrderBrokerAuthenticator** from the drop-down list:



- Select **OK** to add the provider.
 - You should return to the **Provider** screen. Select the newly created **Order Broker** link.
 - Confirm that **Control Flag** is set to **SUFFICIENT**.
 - Select the **Provider Specific** tab at the top of the screen.
 - In the **Rest URL** field, confirm that the current server name and port are entered.
 - Select **Save**.
 - You should see a message indicating that the change has been saved.
 - Restart all the managed servers.
4. To create Data Sources, log into the Administration Console of WebLogic.
- Under the left navigation pane for Domain Structure, advance to **<DOMAIN_FOLDER> > Services > Data Sources**.
 - Select the **Data Sources** link in the navigation tree.
 - You need to create the following Data Sources:

Data Source Name	JNDI Name	jtaManaged	Supports Global Transactions	DB user
LocateAdminDatasource	LocateAdminDatasource		FALSE	ORDER_BROKER_ADMIN
LocateAdminNoTxDataSource	LocateAdminNoTxDataSource	jtaManaged=false	FALSE	ORDER_BROKER_ADMIN
LocateAdminTenant1	LocateAdminTenant1		TRUE	ORDER_BROKER_ADMIN

LocateDatasource	LocateDatasource		FALSE	ORDER_BROKER
LocateNoTxDatasource	LocateNoTxDatasource	jtaManaged=false	FALSE	ORDER_BROKER
LocateTenant1Datasource	Tenant1		TRUE	ORDER_BROKER
LocateTenant1NoTxData source	Tenant1NoTx	jtaManaged=false	FALSE	ORDER_BROKER
ProximityDatasource	ProximityDatasource		FALSE	PROXIMITY
ProximityNoTxDatasource	ProximityNoTxData source	jtaManaged=false	FALSE	PROXIMITY
ProximityTenant1Data source	ProxTenant1		TRUE	PROXIMITY
ProximityTenant1NoTx Datasource	ProxTenant1NoTx	jtaManaged=false	FALSE	PROXIMITY

The target should be the **cluster-name** and the scope should be **Global**.

Example: To map each of the required data sources:

- * Select **New**.

Note: Selecting **Lock & Edit** may be required to select **New**.

- * Select **Generic Data Source** under the **Summary of JDBC Data Sources** panel on the **Configuration** tab.
- * Enter the Data Source name, such as `LocateDatasource`, into **Name** field. See the list above for the six Data Sources you need to create.
- * Leave the **Scope** set to **Global**.
- * Enter the Data source name, such as `LocateDatasource`, into the **JNDI Name** field.
- * Leave the **Database Type** set to **Oracle** and select **Next**.
- * Set the **Database Driver** to ***Oracles's Driver Thin for pooled instance connections; Version Any**.

Note: This is NOT the default setting.

- * Select **Next**.
- * Leave **Options** set to the defaults unless Supports Global Transactions for the data source is false. If so uncheck the Supports Global Transactions and select **Next**.
- * Set the **Database Name** to `<SERVICENAME>`, for example `jdbc:oracle:thin:@<HOSTNAME>:1521/<SERVICENAME>`.
- * Set the **Host Name** to `<HOSTNAME>`, for example `jdbc:oracle:thin:@<HOSTNAME>:1521/<SERVICENAME>`.
- * Set the **Port** to the number before the forward slash, for example `jdbc:oracle:thin:@<HOSTNAME>:1521/<SERVICENAME>`.

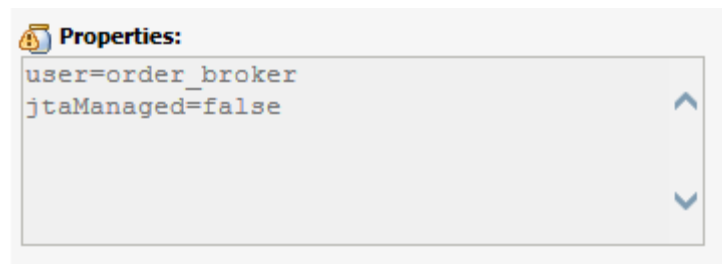
- * Set the **Database User Name** to the user name in the table based upon the data source..
- * Set **Password/Confirm Password**
- * Select **Next**.
- * Select **Test Configuration**.
- * If the message **Connection test succeeded** displays, then select **Next**. Otherwise, select **Back** and correct the connection information.
- * On the **Targets** tab, select the top check box under clusters:

Clusters

 - cluster-name
 - All servers in the cluster
- * Select **Finish**.

The data source will now be displayed in the table.

- * Select the Data Source by clicking on the **Link** under **Name** in the table.
- * For the Data Sources where `jtaManaged=false` select the **Connection Pool** tab and add the `jtaManaged=false` to the properties as in the following illustration:



- * Select **Connection Pool**. Settings:
 - Initial Capacity= InitialLimit=25*
 - Maximum Capacity= MaxLimit=200*
 - Minimum Capacity= MinLimit=10*
- * Select **Save**.
- * You should see the message `Settings updated successfully`.
- When creating the following datasources--`LocateAdminDatasource`, `LocateDatasource` or `ProximityDatasource`--then also enable *Supports Global Transaction*.
 - * Select the **Transaction** tab on the **Datasource** settings.
 - * Select *Supports Global Transaction*.
 - * Click **Save**.
 - * You should see the message `Settings updated successfully`.

Note: You may have to select **Activate Changes** if you had to select **Lock & Edit** to create/modify the Data Sources for the changes to take effect.

Repeat these steps for the five remaining DataSources. See [step 4. on 13](#) for the list of Data Sources you need to create, and the users for each Data Source.

Note: These Data Sources will deploy to all other servers in the cluster, so you do not need to repeat these steps for the remaining servers in the cluster.

Set Up Coherence

1. Under the left navigation pane, click **Coherence Clusters** under **Environment**.

Note: This step needs to be done only once on the Admin server.

2. If you see defaultcoherence in the summary of coherence clusters, follow the steps below to remove the defaultcoherence cluster.
 - Go to Environment -> Coherence Clusters -> default coherence cluster -> members tab. Uncheck servers and clusters if they are checked, and click save.
 - Go to Environment -> Coherence Clusters -> default coherence cluster. Select defaultcoherencecluster and delete it.
3. Click **New** to create a new Coherence Cluster:

Home > Summary of Coherence Clusters

Summary of Coherence Clusters

Coherence provides replicated and distributed data management and caching services that you WebLogic Server retains configuration information used to locate and communicate with a Coh

This page displays the Coherence cluster configurations that have been created in this domain.

[Customize this table](#)

Coherence Clusters (Filtered - More Columns Exist)

<input type="checkbox"/>	Name	Logging Enabled

TI

New Delete

4. Enter OrderBroker as the **Name** of the Coherence Cluster, and select **Next**.

Home Log Out Preferences Record Help

Home > Summary of Coherence Clusters

Create a Coherence Cluster Configuration

Back Next Finish Cancel

Coherence Cluster Properties

The following properties will be used to identify your new Coherence cluster configuration.

* Indicates required fields

What would you like to name your new Coherence cluster configuration?

* **Name:**

Coherence clusters can be configured externally in a custom configuration file or configured within WebLogic Server configuration file. The values in this file will override any values set at the Coherence cluster level.

Use a Custom Cluster Configuration File

Back Next Finish Cancel

5. Set the Coherence Cluster Addressing.

Home Log Out Preferences Record Help

Home > Summary of Coherence Clusters

Create a Coherence Cluster Configuration

Back Next Finish Cancel

Coherence Cluster Addressing

This page indicates how this Coherence cluster will be located.

How should this Coherence cluster be addressed?

Clustering Mode: Multicast

Cluster Listen Port: 7574

Multicast Listen Address: 231.1.1.1

Back Next Finish Cancel

Be very careful when entering the **Multicast Listen Address**.

Make sure only the servers for the version 18.0 Order Broker instance have the same multicast address.

DO NOT USE THE SAME MULTICAST ADDRESS AS A PREVIOUS VERSION OF ORDER BROKER

Multicast Listen Address should be in the range of standard multicast IP addresses.

6. Select **Next**.
7. Set all the cluster members and select **Finish**.

- Go back and re-select the OrderBroker cluster.

Home > Summary of Coherence Clusters > OrderBroker > Summary of Coherence Clusters

Summary of Coherence Clusters

Coherence provides replicated and distributed data management and caching services that you can use. The WebLogic Server retains configuration information used to locate and communicate with a Coherence cluster. This page displays the Coherence cluster configurations that have been created in this domain.

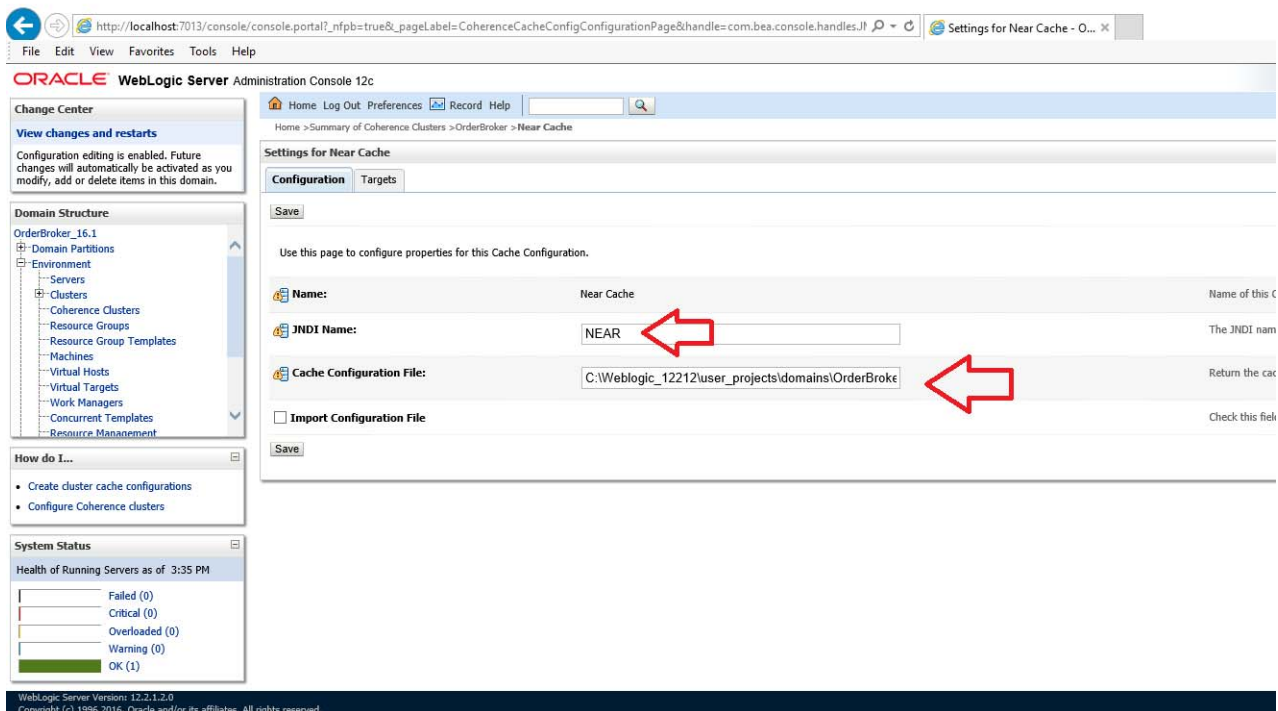
[Customize this table](#)

Coherence Clusters (Filtered - More Columns Exist)

<input type="checkbox"/>	Name	Logging Enabled
<input type="checkbox"/>	OrderBroker	true

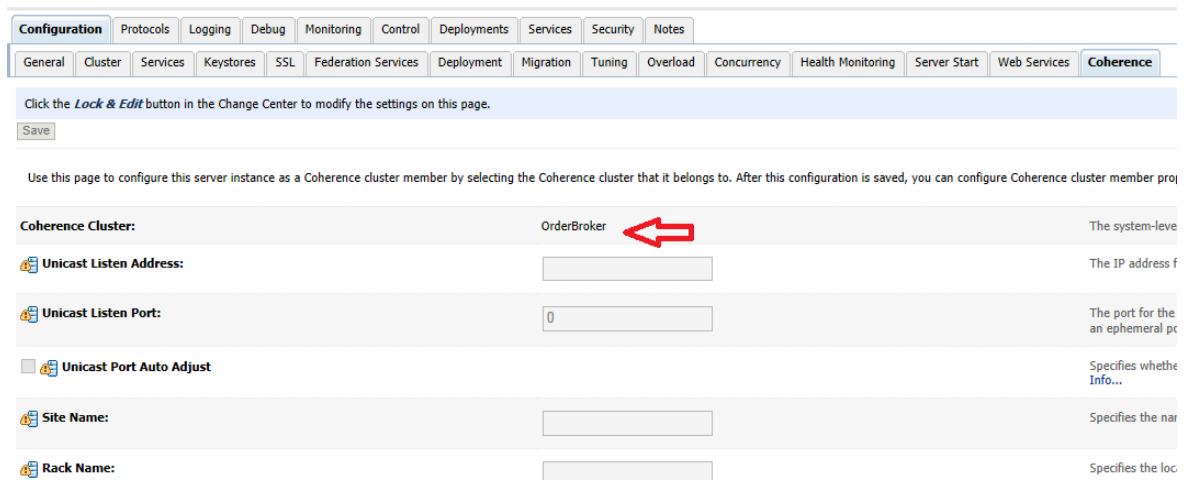
- On the General tab, confirm the transport is set to UTP and Time to Live is set to 1, and press SAVE.
- Set up the Caches for the Cluster:
 - Click on **Cache Configuration**.
 - Click **New**.
 - Enter **Near Cache** as the Name.
 - The JNDI Name must be **NEAR**.
 - Enter the full path to the configuration file `%DOMAIN_HOME%\conf\coherence-cache-config.xml`, replacing `%DOMAIN_HOME%` with the path to the domain.

- Click Next.



11. For each server in the cluster, assign the coherence cluster.

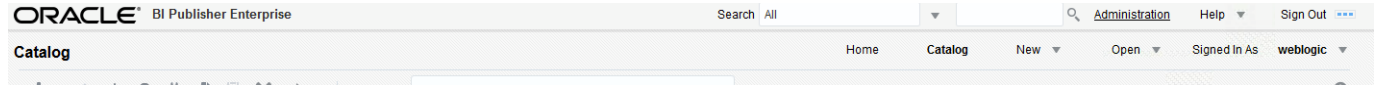
- Click on **Servers** under **Environment**.
- Select each server:
 - * Click on the Coherence tab.
 - * Select **OrderBroker** for the Coherence Cluster.
 - * Click **Save**.



- * Repeat this step for all servers in the Server cluster.
- * Restart all servers in the cluster.

BI Publisher Setup

1. Log into the BI application console.
2. Create data source, following the steps below.
 - Click on the Administration link on the top right-hand side, as shown below.



- On the Administration page, click the JDBC Connection under Data Sources, as shown below.



- Click the Add Data Source button, as shown below.



- Add Data Source is displayed, as shown below.

Administration > JDBC > Add Data Source

Add Data Source Apply

General

TIP Please make sure to install the required JDBC driver classes.
 TIP With Oracle Fusion Middleware Security Model, select the Use System User checkbox to use the BI System User for your BI Server Database Connection.

* Data Source Name

* Driver Type

* Database Driver Class
(Example: oracle.jdbc.OracleDriver)

* Connection String

Use System User

* Username

Password

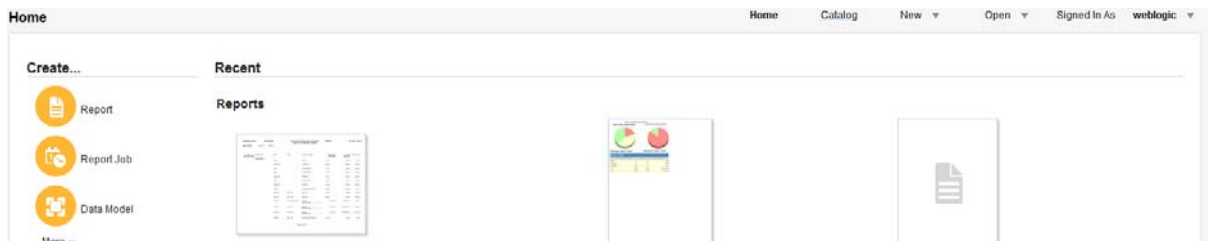
Pre Process Function

Post Process Function

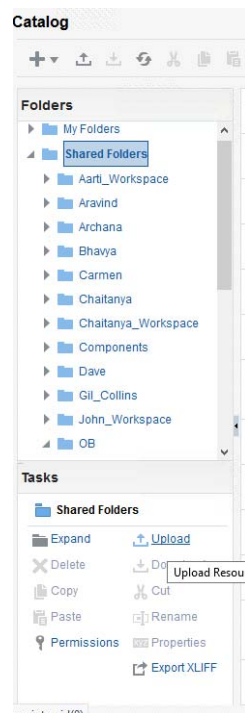
Use Proxy Authentication

- Enter "ob_ds" as datasource name. Don't use any other name other than ob_ds.
- Enter the connection string, such as "jdbc:oracle:thin:@databasehostname:1521/databasename"

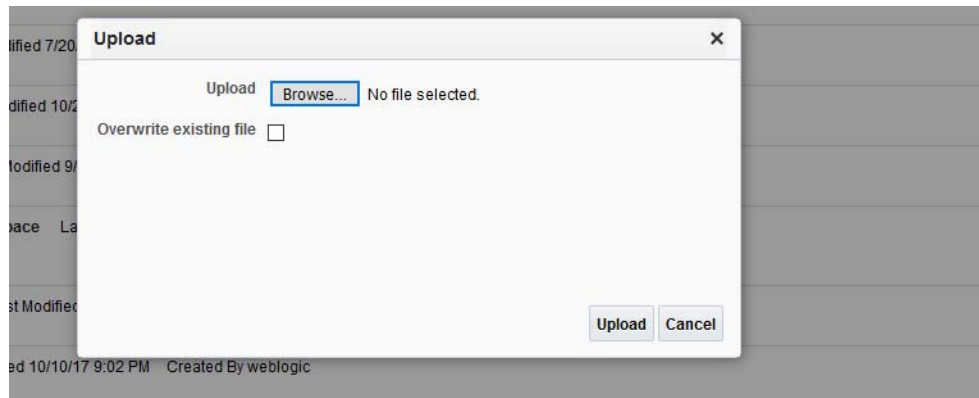
- Enter the user_name and password.
 - Leave other fields as is.
 - Click Test connection to make sure that the data source set up is successful.
 - Click the Apply button on the top right-hand side to save the data source.
- 3. Report Deployment:** The reports zip file must be manually uploaded to the BI Publisher Application.
- Follow the steps below to upload the Install\Order Broker\BI Publisher\OB.xdrz file onto the BI Publisher Application.
 - Log into the BI Publisher application.
 - Click the Catalog link on the top right-hand side, as shown below.



- Click the Upload button the bottom left-hand side, as shown below.



- A browse window opens, as shown below. Click the Browse button to select the OROB.xdrz file.



- Click the Upload button to upload the reports under the OROB folder. After the upload is complete, navigate to the OROB folder and make sure that you see datamodels, reports, and subtemplates folders.

Font Installation

A barcode font and other language fonts comes with the BI server installation. Check to see if you have fonts available in `/scratch/u01/product/fmw/wls_obiee/bi/common/fonts`. If you don't already have fonts, copy fonts from `Install\Order Broker\BI Publisher\Fonts` onto the BI App Server under `/scratch/u01/product/fmw/wls_obiee/bi/common/fonts`.

Creating a Font Mapping

From the Administration page, under Runtime Configuration, select Font Mappings. Create Font mapping for Code 128 and ALBANWTJ using the steps below.

1. Under RTF Templates, select Add Font Mapping.
2. Enter the following on the Add Font Mapping page:
 - Base Font — enter the font family to map to a new font. For example, Arial.
 - Select the Style: Normal or Italic (Not applicable to PDF Template font mappings).
 - Select the Weight: Normal or Bold (Not applicable to PDF Template font mappings).
 - Select the Target Font Type: TrueType.
 - Enter the Target Font : Select the font that you are trying to create a font mapping.

Note: Make sure the Application server which is hosting the BI instance is in the same time zone (UTC) as the Order Broker app server.

Set Up the Order Broker Tenant Configuration for BI Publisher

This step sets up the tenant configuration information in the Admin database for BI Publisher.

1. Copy files from the OrderBrokerTenant folder Install/Order Broker/OrderBrokerTenant to the app server.
2. Navigate to the OrderBrokerTenant folder on the app server.
3. Update the tenant-config.properties file with the appropriate entries.

bi_pub_client_id=

bi_pub_client_secret=

bi_pub_url=

bi_pub_report_path=

Where :

bi_pub_client_id is the BI pub user id. Same value that is used to login into BI web application

bi_pub_client_secret= is the BI pub password. Same value that is used to login into BI web application

bi_pub_url= <http://biserverhostname:port>/xmlpserver/services/rest/v1/reports'

bi_pub_report_path=OB/reports/

4. Execute the following single-line command, replacing the variables with the appropriate values:

```
%JAVA_HOME%/bin/java -cp ojdbc8.jar:OrderBrokerTenant.jar
com.oracle.orderbroker.tenant.OrderBrokerTenant
jdbc:oracle:thin:%HOST_NAME% %ADMIN_DATABASE_USER_NAME%
%ADMIN_DATABASE_USER_PASSWORD%
%PATH%/OrderBrokerTenant/tenant-config.properties
```

Where:

- %JAVA_HOME% = Path to the java JDK
- %HOST_NAME% = Oracle database host name, in the form @//HOST:PORT/SERVICE
- %ADMIN_DATABASE_USER_NAME% = Order Broker Admin database user id
- %ADMIN_DATABASE_USER_PASSWORD% = Order Broker Admin database user password
- %PATH% = Path to the OrderBrokerTenant folder on the app server

The command should return the message Tenant updated successfully. Any other message or error should be investigated.

Deploy the Locate.ear from the Staging Area to the Cluster

As mentioned above under [Install the Application](#) on page 8, you now need to deploy the Locate.ear to the Cluster in WebLogic.

1. Log into the Administration Console of WebLogic.
2. Under the left navigation pane for Domain Structure:

- Select **Deployments**.
- Select **Lock & Edit** if needed to enable the **Install** button.
- Select **Install**.
- Under the **Path**, select the staging area where you placed the `Locate.ear` from the `Deployments` folder and select **Next**.
- The screen refreshes and displays the `Locate.ear`.
- Select the radio button under **Current Location** to select the `Locate.ear` and select **Next**.
- Leave the default: **Install this deployment as an application**.
- Select the **cluster-name** checkbox as shown and All servers in the cluster for radio button:

Clusters

cluster-name

All servers in the cluster

- Select **Next**.
- Select **Finish**.
- Select **Release Configuration** if you had selected **Lock & Edit**; otherwise, select **Active Changes**.

3. You must now enable the Order Broker application to deployment to start servicing all requests.

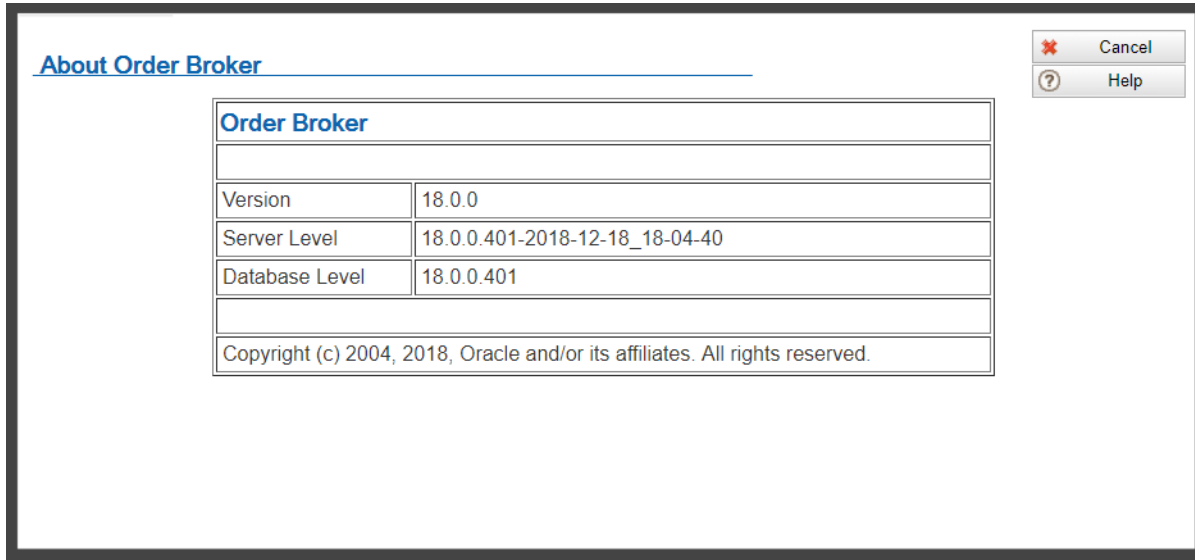
- Select the **Control Tab** under **Summary of Deployments**.
- Select the **Locate** checkbox.

Deployments	State	Health	Type	Targets	Scope	Domain Partitions
<input checked="" type="checkbox"/> Servicing all requests	Active	OK	Resource Adapter	AdminServer, self-cluster	Global	
<input type="checkbox"/> Servicing only administration requests	Active	OK	Web Application	AdminServer, self-cluster	Global	
<input type="checkbox"/> OMS Application (12.2.1.0.0)	Active	OK	Enterprise Application	AdminServer	Global	
<input checked="" type="checkbox"/> Locate	Active	OK	Enterprise Application	self-cluster	Global	
<input type="checkbox"/> LocateSTC	Active	OK	Web Application	self-cluster	Global	
<input type="checkbox"/> LocateVPA	Active	OK	Web Application	self-cluster	Global	
<input type="checkbox"/> opss-rest	Active	OK	Web Application	AdminServer	Global	
<input type="checkbox"/> state-management-provider-memory-rar	Active	OK	Resource Adapter	AdminServer, self-cluster	Global	

- Select the **Start** button.
- Select **Start/Servicing all requests**.

Validate the Installation

1. Launch the application using the following URL:
`https://server:port/LocateUI`
Where `server:port` is the IP address and port of the Order Broker server.
2. Log in using the Admin User created under [Create the Order Broker Application Admin User](#) on page 7.
3. From the **Systems** menu, select **About Order Broker**.
4. At the **About Order Broker** window, confirm that the levels are correct.



5. Select **Cache...** from the **About Order Broker** window and confirm that all servers are listed correctly.

Configure the Installation

1. From the menu, navigate to the **Tenant** Screen (**System > Tenant**).

2. Configure the settings based upon your requirements. See the online help or the Administration Guide for details. .

Tenant ✕

Tenant - Admin

Save
✕
Cancel

Settings

UI Timeout (minutes)

Lock Out (attempts)

Tenant Logo 🔍

Account

Use Routing Engine

Use Store Connect

Use Vendor Portal

Time Zone

Email Settings

Email Template Path

Retention Settings

Report Files (days)

Pack Slip Files (days)

Data Folder Settings

Product Import Files

Proximity Upload Files

Export Files

Miscellaneous Settings

Geocode Address

Proxy Server Settings

Proxy Address

Proxy Port

Store Connect Installation

1. Copy the `LocateSTC.war` from the `/StoreConnect/Deployments` folder to a staging area on the same server as WebLogic to deploy later to the Cluster in WebLogic. This step is not required on all servers in the cluster.
2. Deploy the `LocateSTC.war` from the staging area to the cluster:
 - Log into the Administration Console of WebLogic and deploy the `LocateSTC.war`.
 - Under the left navigation pane for Domain Structure:
 - * Select **Deployments**.
 - * Select **Lock & Edit** if needed to enable the **Install** button.
 - * Select **Install**.
 - * Under the Path, select the staging area where you placed the `LocateSTC.war` from the Deployments folder.
 - * Select **Next**. The screen refreshes and displays `LocateSTC.war`.
 - * Select the radio button under **Current Location** to select the `LocateSTC.war` file.
 - * Select **Next**.
 - * Leave the default: **Install this deployment as an application**.
 - * Select the check box for your cluster as shown below and the **All servers in the cluster** radio button:

Clusters

 - cluster-name (where customer-name is the name of the cluster)
 - All servers in the cluster
 - * Select **Next**.
 - * Select **Finish**.
 - * Select **Release Configuration** if you had to select **Lock & Edit** earlier; otherwise, select **Activate Changes**.
 - * Select the **Control Tab** under **Summary of Deployments**.
 - * Check the **LocateSTC** checkbox.

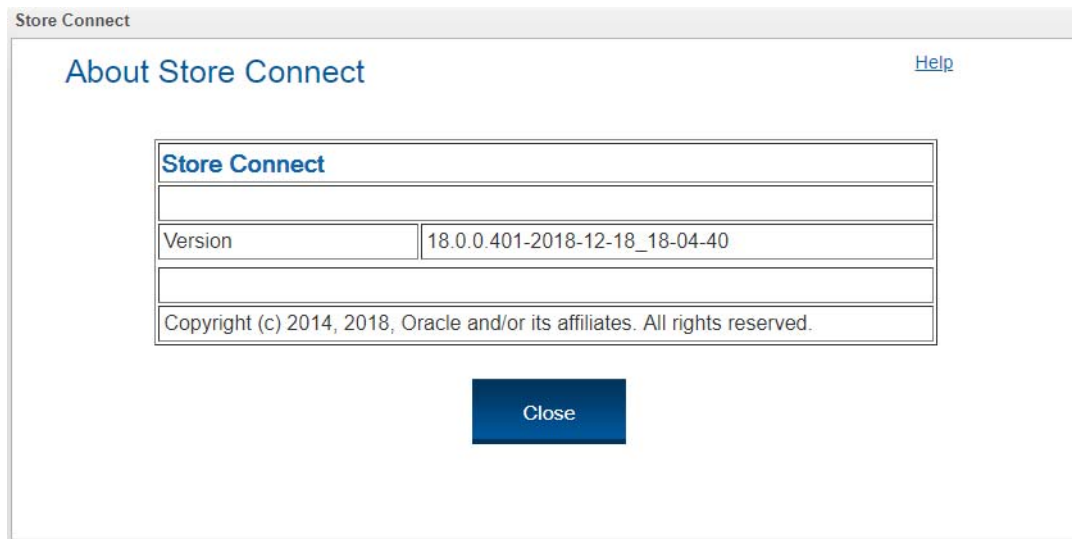
The screenshot shows the Oracle WebLogic Server Administration Console interface. The main content area displays the 'Summary of Deployments' page, which includes a table of installed Java EE applications and standalone application modules. The table has columns for State, Health, Type, Targets, Scope, and Domain Partitions. The 'LocateSTC' application is selected, and its checkbox is checked. The left navigation pane shows the 'Domain Structure' tree with 'Deployments' selected. The top navigation bar includes 'Home', 'Log Out', 'Preferences', 'Record', and 'Help'.

Deployments	State	Health	Type	Targets	Scope	Domain Partitions
<input type="checkbox"/> Servicing all requests	Active	OK	Resource Adapter	AdminServer, self-cluster	Global	
<input type="checkbox"/> Servicing only administration requests	Active	OK	Web Application	AdminServer, self-cluster	Global	
<input type="checkbox"/> [R] DHS Application (12.2.1.0.0)	Active	OK	Enterprise Application	AdminServer	Global	
<input type="checkbox"/> [R] em	Active	OK	Enterprise Application	self-cluster	Global	
<input type="checkbox"/> [R] Locate	Active	OK	Web Application	self-cluster	Global	
<input checked="" type="checkbox"/> [R] LocateSTC	Active	OK	Web Application	self-cluster	Global	
<input type="checkbox"/> [R] LocateVRA	Active	OK	Web Application	AdminServer	Global	
<input type="checkbox"/> [R] oops-rest	Active	OK	Web Application	AdminServer	Global	
<input type="checkbox"/> state-management-provider-memory-war	Active	OK	Resource Adapter	AdminServer, self-cluster	Global	

- * Select the **Start** button.
- * Select **Start/Serviceing all requests**.

Validate the Store Connect Installation

1. Launch Store Connect using the following URL:
`https://server:port/LocateSTC`
Where `server:port` is the IP address and port of the Order Broker server.
2. Verify that you can log in as a store associate user.
3. Select **About Store Connect** at the very bottom left of the screen.
4. At the **About Store Connect** window, confirm that the **Version** is set correctly.



Supplier Direct Fulfillment (Vendor Portal) Installation

1. Copy the `LocateVPA.war` from the `/Supplier Direct Fulfillment/Deployments` folder to a staging area on the same server as WebLogic to deploy later to the Cluster in WebLogic. This step is not required on all servers in the cluster.
2. Deploy the `LocateVPA.war` from the staging area to the cluster:
 - Log into the Administration Console of WebLogic and deploy `LocateVPA.war`.
 - Under the left navigation pane for Domain Structure:
 - * Select **Deployments**.
 - * Select **Lock & Edit** to enable the **Install** button if needed.
 - * Select **Install**.
 - * Under the Path, select the staging area where you placed the `LocateVPA.war` from the `Deployments` folder.
 - * Select **Next**. The screen refreshes and displays `LocateVPA.war`.
 - * Select the radio button under **Current Location** to select `LocateVPA.war`.
 - * Select **Next**.
 - * Leave the default: **Install this deployment as an application**.
 - * Select the check box of the cluster as shown and **All servers in the cluster** radio button.

Clusters

- cluster-name (where cluster-name is the name of the cluster)
- All servers in the cluster

- * Select **Next**.
- * Select **Finish**.
- * Select **Release Configuration** if you selected **Lock & Edit** earlier; otherwise, select **Activate Changes**.
- * Select the **Control Tab** under **Summary of Deployments**.
- * Check the **LocateVPA** checkbox.

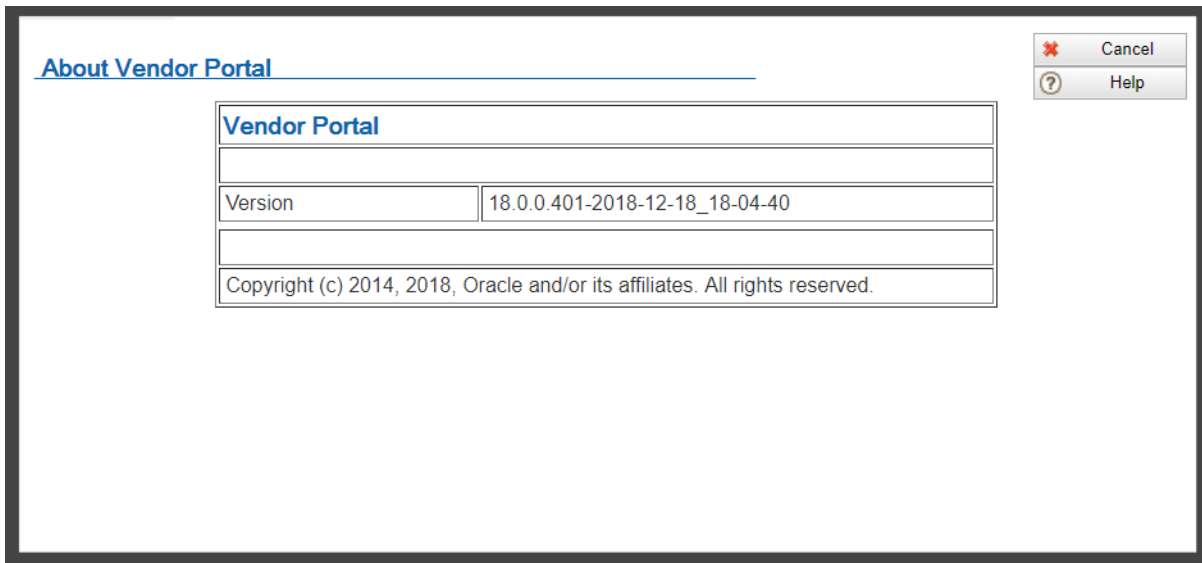
The screenshot shows the Oracle WebLogic Server Administration Console interface. The main content area is titled "Summary of Deployments" and has tabs for "Configuration", "Control", and "Monitoring". The "Control" tab is active. Below the tabs, there is a table of deployments. The table has columns for "Start", "Stop", "State", "Health", "Type", "Targets", "Scope", and "Domain Partitions". The "LocateVPA" application is selected, indicated by a checkmark in the "Start" column. Other applications listed include "ServiceMix", "DMS Application", "em", "Locate", "LocateTIC", "opss-rest", and "state-management-provider-memory-war".

Start	Stop	State	Health	Type	Targets	Scope	Domain Partitions
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Active	OK	Resource Adapter	AdminServer, adf-cluster	Global	
<input type="checkbox"/>	<input type="checkbox"/>	Active	OK	Web Application	AdminServer, adf-cluster	Global	
<input type="checkbox"/>	<input type="checkbox"/>	Active	OK	Enterprise Application	AdminServer	Global	
<input type="checkbox"/>	<input type="checkbox"/>	Active	OK	Enterprise Application	adf-cluster	Global	
<input type="checkbox"/>	<input type="checkbox"/>	Active	OK	Web Application	adf-cluster	Global	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Active	OK	Web Application	adf-cluster	Global	
<input type="checkbox"/>	<input type="checkbox"/>	Active	OK	Web Application	AdminServer	Global	
<input type="checkbox"/>	<input type="checkbox"/>	Active	OK	Resource Adapter	AdminServer, adf-cluster	Global	

- * Select the **Start** button.
- * Choose **Start/Service all requests**.

Validate the Vendor Portal Installation

1. Launch the Vendor Portal using the following URL:
`https://server:port/LocateVPA`
Where `server:port` is the IP address and port of the Order Broker server.
2. Verify that you can log in as a vendor user.
3. Select **About > About Vendor Portal**. At the **About Vendor Portal** window, confirm that the **Version** is set correctly.





Time Zones

Available time zones are listed below.

America/Adak	America/Anchorage
America/Anguilla	America/Antigua
America/Araguaina	America/Argentina/Buenos_Aires
America/Argentina/Catamarca	America/Argentina/ComodRivadavia
America/Argentina/Cordoba	America/Argentina/Jujuy
America/Argentina/La_Rioja	America/Argentina/Mendoza
America/Argentina/Rio_Gallegos	America/Argentina/Salta
America/Argentina/San_Juan	America/Argentina/San_Luis
America/Argentina/Tucuman	America/Argentina/Ushuaia
America/Aruba	America/Asuncion
America/Atikokan	America/Atka
America/Bahia	America/Bahia_Banderas
America/Barbados	America/Belem
America/Belize	America/Blanc-Sablon
America/Boa_Vista	America/Bogota
America/Boise	America/Buenos_Aires
America/Cambridge_Bay	America/Campo_Grande
America/Cancun	America/Caracas
America/Catamarca	America/Cayenne
America/Cayman	America/Chicago
America/Chihuahua	America/Coral_Harbour
America/Cordoba	America/Costa_Rica
America/Creston	America/Cuiaba
America/Curacao	America/Danmarkshavn

America/Dawson	America/Dawson_Creek
America/Denver	America/Detroit
America/Dominica	America/Edmonton
America/Eirunepe	America/El_Salvador
America/Ensenada	America/Fort_Nelson
America/Fort_Wayne	America/Fortaleza
America/Glace_Bay	America/Godthab
America/Goose_Bay	America/Grand_Turk
America/Grenada	America/Guadeloupe
America/Guatemala	America/Guayaquil
America/Guyana	America/Halifax
America/Havana	America/Hermosillo
America/Indiana/Indianapolis	America/Indiana/Knox
America/Indiana/Marengo	America/Indiana/Petersburg
America/Indiana/Tell_City	America/Indiana/Vevay
America/Indiana/Vincennes	America/Indiana/Winamac
America/Indianapolis	America/Inuvik
America/Iqaluit	America/Jamaica
America/Juneau	America/Kentucky/Louisville
America/Kentucky/Monticello	America/Knox_IN
America/Kralendijk	America/La_Paz
America/Lima	America/Los_Angeles
America/Louisville	America/Lower_Princes
America/Maceio	America/Managua
America/Manaus	America/Marigot
America/Martinique	America/Matamoros
America/Mazatlan	America/Mendoza
America/Menominee	America/Merida
America/Metlakatla	America/Mexico_City
America/Miquelon	America/Moncton
America/Monterrey	America/Montevideo
America/Montreal	America/Montserrat
America/Nassau	America/New_York

America/Nipigon	America/Nome
America/Noronha	America/North_Dakota/Beulah
America/North_Dakota/Center	America/North_Dakota/New_Salem
America/Ojinaga	America/Panama
America/Pangnirtung	America/Paramaribo
America/Phoenix	America/Port-au-Prince
America/Port_of_Spain	America/Porto_Acre
America/Porto_Velho	America/Puerto_Rico
America/Rainy_River	America/Rankin_Inlet
America/Recife	America/Regina
America/Resolute	America/Rio_Branco
America/Rosario	America/Santa_Isabel
America/Santarem	America/Santiago
America/Santo_Domingo	America/Sao_Paulo
America/Scoresbysund	America/Shiprock
America/Sitka	America/St_Barthelemy
America/St_Johns	America/St_Kitts
America/St_Lucia	America/St_Thomas
America/St_Vincent	America/Swift_Current
America/Tegucigalpa	America/Thule
America/Thunder_Bay	America/Tijuana
America/Toronto	America/Tortola
America/Vancouver	America/Virgin
America/Whitehorse	America/Winnipeg
America/Yakutat	America/Yellowknife
Asia/Aden	Asia/Almaty
Asia/Amman	Asia/Anadyr
Asia/Aqtau	Asia/Aqtobe
Asia/Ashgabat	Asia/Ashkhabad
Asia/Baghdad	Asia/Bahrain
Asia/Baku	America/Jujuy
Australia/Brisbane	Australia/Broken_Hill
Australia/Canberra	Australia/Currie

Australia/Darwin	Australia/Eucla
Australia/Hobart	Australia/LHI
Australia/Lindeman	Australia/Lord_Howe
Australia/Melbourne	Australia/NSW
Australia/North	Australia/Perth
Australia/Queensland	Australia/South
Australia/Sydney	Australia/Tasmania
Australia/Victoria	Australia/West
Australia/Yancowinna	Canada/Atlantic
Canada/Central	Asia/Bangkok
Asia/Barnaul	Asia/Beirut
Asia/Bishkek	Asia/Brunei
Asia/Calcutta	Asia/Chita
Asia/Choibalsan	Asia/Chongqing
Asia/Chungking	Asia/Colombo
Asia/Dacca	Asia/Damascus
Asia/Dhaka	Asia/Dili
Asia/Dubai	Asia/Dushanbe
Asia/Gaza	Asia/Harbin
Asia/Hebron	Asia/Ho_Chi_Minh
Asia/Hong_Kong	Asia/Hovd
Asia/Irkutsk	Asia/Istanbul
Asia/Jakarta	Asia/Jayapura
Asia/Jerusalem	Asia/Kabul
Asia/Kamchatka	Asia/Karachi
Asia/Kashgar	Asia/Kathmandu
Asia/Katmandu	Asia/Khandyga
Asia/Kolkata	Asia/Krasnoyarsk
Asia/Kuala_Lumpur	Asia/Kuching
Asia/Kuwait	Asia/Macao
Asia/Macau	Asia/Magadan
Asia/Makassar	Asia/Manila
Asia/Muscat	Asia/Nicosia

Asia/Novokuznetsk	Asia/Novosibirsk
Asia/Omsk	Asia/Oral
Asia/Phnom_Penh	Asia/Pontianak
Asia/Pyongyang	Asia/Qatar
Asia/Qyzylorda	Asia/Rangoon
Asia/Riyadh	Asia/Saigon
Asia/Sakhalin	Asia/Samarkand
Asia/Seoul	Asia/Shanghai
Asia/Singapore	Asia/Srednekolymsk
Asia/Taipei	Asia/Tashkent
Asia/Tbilisi	Asia/Tehran
Asia/Tel_Aviv	Asia/Thimbu
Asia/Thimphu	Asia/Tokyo
Asia/Tomsk	Asia/Ujung_Pandang
Asia/Ulaanbaatar	Asia/Ulan_Bator
Asia/Urumqi	Asia/Ust-Nera
Asia/Vientiane	Asia/Vladivostok
Asia/Yakutsk	Asia/Yekaterinburg
Asia/Yerevan	Australia/ACT
Australia/Adelaide	Pacific/Port_Moresby
Canada/East-Saskatchewan	Canada/Eastern
Canada/Mountain	Canada/Newfoundland
Canada/Pacific	Canada/Saskatchewan
Canada/Yukon	Europe/Amsterdam
Europe/Andorra	Europe/Astrakhan
Europe/Athens	Europe/Belfast
Europe/Belgrade	Europe/Berlin
Europe/Bratislava	Europe/Brussels
Europe/Bucharest	Europe/Budapest
Europe/Busingen	Europe/Chisinau
Europe/Copenhagen	Europe/Dublin
Europe/Gibraltar	Europe/Guernsey
Europe/Helsinki	Europe/Isle_of_Man

Europe/Istanbul	Europe/Jersey
Europe/Kaliningrad	Europe/Kiev
Europe/Kirov	Europe/Lisbon
Europe/Ljubljana	Europe/London
Europe/Luxembourg	Europe/Madrid
Europe/Malta	Europe/Mariehamn
Europe/Minsk	Europe/Monaco
Europe/Moscow	Europe/Nicosia
Europe/Oslo	Europe/Paris
Europe/Podgorica	Europe/Prague
Europe/Riga	Europe/Rome
Europe/Samara	Europe/San_Marino
Europe/Sarajevo	Europe/Simferopol
Europe/Skopje	Europe/Sofia
Europe/Stockholm	Europe/Tallinn
Europe/Tirane	Europe/Tiraspol
Europe/Ulyanovsk	Europe/Uzhgorod
Europe/Vaduz	Europe/Vatican
Europe/Vienna	Europe/Vilnius
Europe/Volgograd	Europe/Warsaw
Europe/Zagreb	Europe/Zaporozhye
Europe/Zurich	Japan
Pacific/Apia	Pacific/Auckland
Pacific/Bougainville	Pacific/Chatham
Pacific/Chuuk	Pacific/Easter
Pacific/Efate	Pacific/Enderbury
Pacific/Fakaofu	Pacific/Fiji
Pacific/Funafuti	Pacific/Galapagos
Pacific/Gambier	Pacific/Guadalcanal
Pacific/Guam	Pacific/Honolulu
Pacific/Johnston	Pacific/Kiritimati
Pacific/Kosrae	Pacific/Kwajalein
Pacific/Majuro	Pacific/Marquesas

Pacific/Midway	Pacific/Nauru
Pacific/Niue	Pacific/Norfolk
Pacific/Noume	Pacific/Pago_Pago
Pacific/Palau	Pacific/Pitcairn
Pacific/Pohnpei	Pacific/Ponape
Pacific/Rarotonga	Pacific/Saipan
Pacific/Samoa	Pacific/Tahiti
Pacific/Tarawa	Pacific/Tongatapu
Pacific/Truk	Pacific/Wake
Pacific/Wallis	Pacific/Yap

B

Installation Order

This section provides a guideline as to the order in which the Oracle Retail applications should be installed. If a retailer has chosen to use some, but not all, 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 Warehouse Management System (RWMS)
5. Oracle Retail Invoice Matching (ReIM)
6. Oracle Retail Price Management (RPM)
7. Oracle Retail Allocation
8. Oracle Retail Mobile Merchandising (ORMM)
9. Oracle Retail Customer Engagement (ORCE)
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 Predictive Application Server Batch Script Architecture (RPAS 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 Regular Price Optimization (RPO)
21. Oracle Retail Merchandise Financial Planning (MFP)
22. Oracle Retail Size Profile Optimization (SPO)
23. Oracle Retail Assortment Planning (AP)
24. Oracle Retail Item Planning (IP)
25. Oracle Retail Item Planning Configured for COE (IP COE)
26. Oracle Retail Advanced Inventory Planning (AIP)
27. Oracle Retail Integration Bus (RIB)
28. Oracle Retail Services Backbone (RSB)
29. Oracle Retail Financial Integration (ORFI)
30. Oracle Retail Bulk Data Integration (BDI)
31. Oracle Retail Integration Console (RIC)
32. Oracle Commerce Retail Extension Module (ORXM)
33. Oracle Retail Data Extractor for Merchandising
34. Oracle Retail Clearance Optimization Engine (COE)
35. Oracle Retail Analytic Parameter Calculator for Regular Price Optimization (APC-RPO)
36. Oracle Retail Insights, including Retail Merchandising Insights (previously Retail Merchandising Analytics) and Retail Customer Insights (previously Retail Customer Analytics)
37. Oracle Retail Order Broker