

Oracle Retail Order Broker
Installation Upgrade Guide
Release 16.0
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Oracle Retail Order Broker Installation Upgrade Guide, Release 16.0

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Preface

Oracle Retail Order Broker Installation Upgrade Guide describes the steps required to upgrade the application from release 15.0 to release 16.0.

Audience

This Installation Upgrade Guide is for the staff responsible for upgrading 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 16.0 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.

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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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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:

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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.

Pre-Upgrade Tasks

This chapter discusses the tasks to complete before upgrading from release 15.0 to 16.0, and introduces basic concepts and terms.

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

With release 16.0, Oracle Retail Order Broker has moved from Apache Tomcat (Tomee) to WebLogic 12c (version 12.2.1.0.0). During the upgrade process, you will need to reference the Apache Tomcat installation to copy configuration data into the WebLogic installation.

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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 upgrade 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, v12.2.1.0.0 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, v12.2.1.0.0 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

Order Management System 16.0 or higher supports the use of ship-for-pickup orders rather than retail pickup or ship-to-store orders.

- 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.

WebLogic – Oracle WebService Manager – Policy Manager

The OWSM Policy Manager must be installed with the domain.

Definitions and Concepts

Platform

Starting with release 16.0, Order Broker uses the WebLogic 12c (version 12.2.1.0.0) platform rather than Apache Tomcat (Tomee). Apache Tomcat is no longer supported.

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**.

APACHE_TOMCAT

Apache Tomcat (Tomee) root installation path, for example:
/usr/share/apachetomcat. You will need to know your root installation path for
Order Broker v15.0 to perform the upgrade process to 16.0.

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.

Upgrade Steps

The following basic steps are required to upgrade Oracle Retail Order Broker from 15.0 to 16.0.

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

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 upgrade 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 [Pre-Upgrade Tasks](#).

Download the upgrade package: The upgrade package is available at https://updates.oracle.com/Orion/Services/download/p25758484_160000_Generic.zip?aru=21127624&patch_file=p25758484_160000_Generic.zip.

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Upgrade Databases

Note: Do not copy and paste text directly from this PDF file. To eliminate unwanted special characters, copy and paste first into a text editor, and then copy and paste from the text editor into the specified file, after first confirming that no unwanted special characters were embedded.

Script editor: Make sure you open scripts in an editor that can read and support UTF-8 encoding, since some scripts contain double-byte data.

Before you begin:

- Complete the [Pre-Upgrade Tasks](#).
- Back up the databases.
- Stop all Order Broker services.

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

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

1. In the **ORDER_BROKER** database, logged in as the **ORDER_BROKER** user, run the `Order_Broker_schema.sql` script, found in `<root path>/<Upgrade>/Database/`.

Important: You need to use SQL*Plus rather than Oracle SQL Developer to run a sql script.

2. Also in the **ORDER_BROKER** database, logged in as the **ORDER_BROKER** user, run the `Order_Broker_schema_UTC.sql` script:

Note: This script can only ever be run once!

Important: You need to use SQL*Plus rather than Oracle SQL Developer to run a sql script.

You **must** edit this script and change the following text to convert the time zone of the database to UTC or whatever the time zone is for the database server. A list of valid time zones can be found in the [Time Zones](#) appendix.

Note: Run this script only if you need to convert all data in your database from one time zone to another time zone. The time zone must match the database server time.

```
DECLARE
retval NUMBER;
```

```
BEGIN
SP_CONVERT_DB_TO_UTC_TIMEZONE('America/New_York','UTC',retv
al);
END;
/
COMMIT;
/
```

```
Eastern Time Zone      = 'America/New_York'
Central Time Zone      = 'America/Chicago'
Mountain Time Zone     = 'America/Denver'
Pacific Time Zone      = 'America/Los_Angeles'
```

3. In the **ORDER_BROKER_ADMIN** database, logged in as the **ORDER_BROKER_ADMIN** user, run the `Order_Broker_Admin_schema.sql` script, found in `<root path>/<Upgrade>/Database/.` (Note: This is not the **ORDER_BROKER** user from the previous step).

Important: You need to use SQL*Plus rather than Oracle SQL Developer to run a sql script.

Order Broker Application

Before you begin: See the [Pre-Upgrade 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.

Convert the Order Broker Data

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This step converts v15.0 data to the v16.0 format.

1. Copy files from the Order Broker Upgrade folder Order Broker/ConvertOrderBroker to a **temporary** directory on the app server.
2. Navigate to the temporary folder on the app server.
3. Execute the following single-line command, replacing the variables with the appropriate values:

```
"%JAVA_HOME%/bin/java" -cp ojdbc7.jar:commons-codec-1.10.jar:ConvertOrderBroker.jar
com.oracle.orderbroker.convert.ConvertSystemPasswords
jdbc:oracle:thin:@%HOST_NAME% %DATABASE_USER_NAME%
%DATABASE_USER_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

The command should return System passwords were successfully converted. Any other message or error should be investigated.

4. Delete the temporary folder you created in step 1 from the application server when this step is complete.

Upgrade the Application

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

Note: To enable uploads, provide full read/write/execute access to the user running the application.

In the next steps, you will copy 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.

1. Copy the Locate.ear from the Deployments folder to a staging area on the server where you run the WebLogic Admin Console. You will deploy the Locate.ear 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.

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. Create a conf folder in <WEBLOGIC_12C>/<DOMAIN_FOLDER> and copy the following folders:
 - emailtemplates folder in /Order Broker/Weblogic/conf to <WEBLOGIC_12c>/<DOMAIN_FOLDER>/conf
 - packslips folder in /Order Broker/Weblogic/conf to <WEBLOGIC_12c>/<DOMAIN_FOLDER>/conf
 - reports folder in /Order Broker/Weblogic/conf to <WEBLOGIC_12c>/<DOMAIN_FOLDER>/conf
 - props folder in /Order Broker/Weblogic/conf to <WEBLOGIC_12c>/<DOMAIN_FOLDER>/conf
 - security folder in /Order Broker/Weblogic/conf to <WEBLOGIC_12c>/<DOMAIN_FOLDER>/conf

Note: Give full rights to the folders for the application service profile.

3. Copy the <APACHE_TOMCAT>/conf/security folder from the 15.0 installation of Order Broker to <WEBLOGIC_12c>/<DOMAIN_FOLDER>/conf.

4. 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
```
5. To enable uploads, provide full read/write/execute access to the user running the application.
6. Create the `<WEBLOGIC_12c>/<DOMAIN_FOLDER>/logs` folder if it doesn't already exist and assign full rights to the application service profile.
7. Repeat steps 2 through 5 on all the servers in the cluster.

Edit Configuration Files and Set Up Data Folders

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.

Note: Do not copy and paste text directly from this PDF file. To eliminate unwanted special characters, copy and paste first into a text editor, and then copy and paste from the text editor into the specified file, after first confirming that no unwanted special characters were embedded.

1. Using a Linux-compatible text editor, open the `sp-policy.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
```
2. Copy the `ehcache.xml` file in `/Order Broker/Weblogic` to `<WEBLOGIC_12c>/<DOMAIN_FOLDER>/conf`.
3. Find `<APACHE_TOMCAT>/additional-lib/ehcache.xml` from the 15.0 installation and open it with a Linux-compatible text editor.
 - Find and copy the following lines from the previous copy of `ehcache.xml`:


```
<cacheManagerPeerProviderFactory
class="net.sf.ehcache.distribution.
RMICacheManagerPeerProviderFactory"
properties="peerDiscovery=automatic,
multicastGroupAddress=#.#.#.#, multicastGroupPort=15,
timeToLive=#"/>
```

Note: The `multicastGroupAddress` and `timeToLive` may be different from the example above.

- Paste these lines into the new ehcache.xml file in <WEBLOGIC_12c>/<DOMAIN_FOLDER>/conf.
- Save and close the file.

Important: If you are not decommissioning the previous version at this point, make sure you change the multicastGroupAddress=#.#.#.#, multicastGroupPort=## to values that are different from the running instances.

4. 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

Assign full rights to these folders.

5. Move the log4j.xml file in /Order Broker/Weblogic to <WEBLOGIC_12c>/<DOMAIN_FOLDER>/conf.

Open the log4j.xml file you just copied in a Linux-compatible text editor, and change all occurrences of:

```
<param name="File"
value="/home/u00/webadmin/config/domains/wls_1221/ADFDomain
/logs
```

to

```
<param name="File"
value="<WEBLOGIC_12c>/<DOMAIN_FOLDER>/logs
```

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

You will need to change **10** occurrences in the log4j.xml file to your WebLogic installation path.

6. Locate the locate-config.properties file in your WebLogic installation (<WEBLOGIC_12c>/<DOMAIN_FOLDER>/conf/props directory) and open it in a Linux-compatible text editor.

- Change the line below from:

```
on.premise=N
```

to:

```
on.premise=Y
```

- Also in the `locate-config.properties` file, 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](#) on page 1 for a listing.

Note: If this entry is not set to a valid time zone, orders are not displayed in Order Inquiry, and reports do not generate correctly.

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

- Locate these arguments and move them, or add them if they don't already exist:

```
USER_MEM_ARGS="-Xms768m -Xmx2048m"
```

- These arguments should be placed before the first instance of `WL_HOME`. The above values are the recommended max and min memory sizes to run Order Broker.

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

```
set JAVA_OPTIONS="{JAVA_OPTIONS} -
Dlog4j.configuration="file:{DOMAIN_HOME}/conf/log4j.xml"
```

Note: All the parameters for the `JAVA_OPTIONS` should be on the same line.

8. Also in the `setDomainEnv.sh` file, add the following entry:

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

It should look something like this, with the new entry inserted before the call to `commEnv.sh`:

```
# set PATCH_CLASSPATH=[myPatchClasspath] (windows)
```

```
# set PATCH_LIBPATH=[myPatchLibpath] (windows)
```

```
# set PATCH_PATH=[myPatchPath] (windows)
```

```
# PATCH_CLASSPATH=[myPatchClasspath] (unix)
```

```
# PATCH_PATH=[myPatchPath] (unix)
```

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

```
.${WL_HOME}/../oracle_common/common/bin/commEnv.sh
```

9. Delete all the log files in the `<WEBLOGIC_12c>/<DOMAIN_FOLDER>/logs` directory.

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

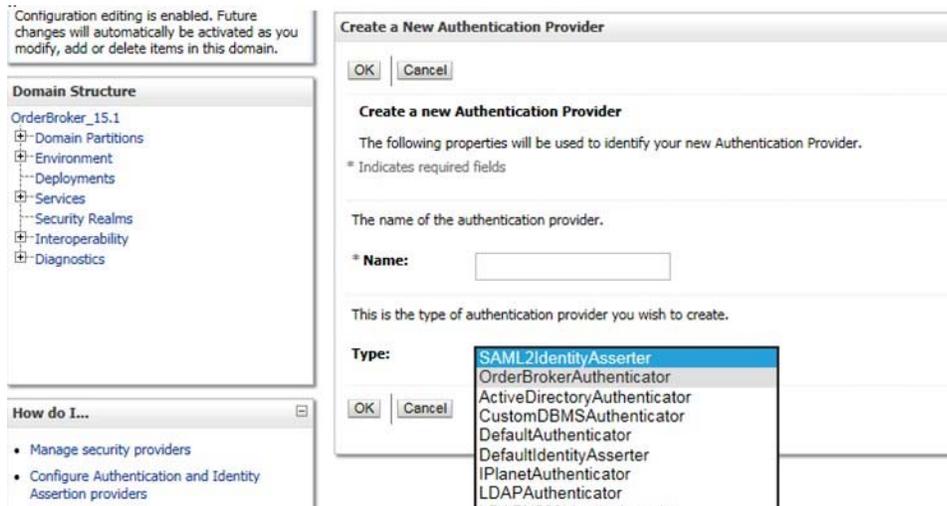
Set up the Security Realm WebLogic JAAS Authentication

1. Stop WebLogic on all managed servers.
2. With the managed servers down, copy the `locateProvider.jar` from the `/Order Broker/Weblogic/Authentication` install folder to `<WEBLOGIC_12c>/wlserver/server/lib/mbeantypes`.

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

Use the WebLogic Console to Configure the Application

1. Start WebLogic.
2. Open the WebLogic console.
 - 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**.
 - 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.

3. Go to **Services > Data Sources**.

4. Click **Lock & Edit**.

For each Data Source:

- Click on the data source name.

- Go to the **Configuration > Connection Pool** tab.
 - Set *Initial Capacity* to 10.
 - Set *Maximum Capacity* to 200.
 - Set *Minimum Capacity* to 10.
 - Click **Save**.
4. For the LocateNoTxDatasource datasource:
 - Add `jtaManaged=false` to the *Connection Pool Properties* field.
 - Click **Save**.
 - At the **Transactions** tab, enable *Supports Global Transactions*.
 - Click **Save**.
 5. Click **Activate Changes**.

Restart WebLogic to apply all changes.

Set up Timeout Seconds

In the WebLogic console, set up *Timeout Seconds* for Order Broker database transactions:

1. Under the left navigation pane for **Domain Structure**, advance to `<DOMAIN_FOLDER> > Services > JTA`.
2. Enter 3000 in *Timeout Seconds*.
3. 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**.

The screenshot displays the WebLogic console interface. On the left, the 'Domain Structure' tree is expanded to 'Services > JTA'. Above the tree are buttons for 'Lock & Edit' and 'Release Configuration'. The main configuration area has tabs for 'Configuration', 'Monitoring', 'Control', 'Security', 'Web Service Security', 'ZDT Control', and 'Notes'. Under 'Configuration', there are sub-tabs: 'General', 'JTA', 'Concurrency', 'JPA', 'EJBs', 'Web Applications', 'Logging', 'Log Filters', and 'Batch'. The 'JTA' tab is active, showing a 'Save' button and a description: 'Use this page to define the Java Transaction API (JTA) configuration of this WebLogic Server domain.' Below this are four configuration fields:

Timeout Seconds:	<input type="text" value="3000"/>
Abandon Timeout Seconds:	<input type="text" value="86400"/>
Before Completion Iteration Limit:	<input type="text" value="10"/>
Max Transactions:	<input type="text" value="10000"/>

Set Up Data Sources in the Cluster

Note: Do not copy and paste text directly from this PDF file. To eliminate unwanted special characters, copy and paste first into a text editor, and then copy and paste from the text editor into the specified file, after first confirming that no unwanted special characters were embedded.

You need to create data sources in WebLogic Administration Server for all the data sources defined in the tomee.xml file from the <APACHE_TOMCAT>/installation/conf folder.

1. 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 these six Data Sources with the following users:
 - * LocateAdminDatasource (user = ORDER_BROKER_ADMIN)
 - * LocateAdminNoTxDatasource (user = ORDER_BROKER_ADMIN)
 - * LocateDatasource (user = ORDER_BROKER)
 - * LocateNoTxDatasource (user = ORDER_BROKER)
 - * ProximityDatasource (user = PROXIMITY)
 - * ProximityNoTxDatasource (user = PROXIMITY)

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

Example: If the entry in the tomee.xml for the LocateDatasource is:

```
<Resource id="LocateDatasource"
type="javax.sql.DataSource"> ..
jdbcUrl =
jdbc:example:thin:@<HOSTNAME>:1521/<SERVICENAME>
connectionCacheProperties = {MinLimit=10, MaxLimit=50,
InitialLimit=25} password = SAMPLEPASSWORD userName =
SAMPLEUSERNAME validationQuery = SELECT 1 from dual ..
</Resource>
```

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 from the id in the tomee.xml entry, such as LocateDatasource, into the **Name** field.
- * Leave the **Scope** set to **Global**.
- * Enter the Data Source name from the id in the tomee.xml entry, 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** and select **Next**.
- * Leave **Options** set to the defaults and select **Next**.
- * Set the **Database Name** to the entry after the forward slash at the end of the `jdbcUrl` entry. For example, enter `<SERVICENAME>`, if the `jdbcUrl` entry is `jdbc:example:thin:@<HOSTNAME>:1521/<SERVICENAME>`.
- * Set the **Host Name** to the entry before the colon in the `jdbcUrl` entry. For example, enter `<HOSTNAME>` if the `jdbcUrl` entry is `jdbc:oracle:thin:@<HOSTNAME>:1521/<SERVICENAME>`.
- * Set the **Port** to the number before the forward slash in the `jdbcUrl` entry. For example, enter `1521` if the `jdbcUrl` entry is `jdbc:oracle:thin:@<HOSTNAME>:1521/<SERVICENAME>`.
- * Set the **Database User Name** to your `userName` entry.
- * Set the **Password/Confirm Password** to your password entry and select **Next**.
- * Set the **URL** to the complete `jdbcURL` entry, such as `jdbc:example:thin:@<HOSTNAME>:1521/<SERVICENAME>`.

Note: You cannot leave the default URL because Order Broker uses pluggable databases, which require the format indicated above, with a slash before the service name.

Wrong: `jdbc:oracle:thin:@<HOSTNAME>:1521:<SERVICENAME>`
 Correct: `jdbc:oracle:thin:@<HOSTNAME>:1521/<SERVICENAME>`

- * Set the **Test Table Name** to your entry from the `validationQuery`, such as `PING SQLDATABASE`.
- * Select **Test Configuration**.
- * Select **Finish**.

The data source will now be displayed in the table.

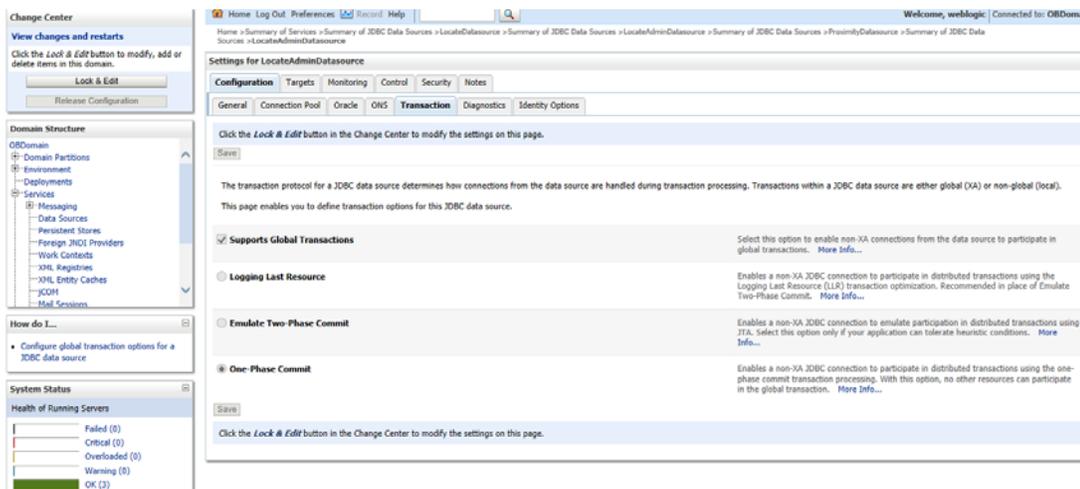
- * Select the Data Source by clicking on the **Link** under **Name** in the table.
- * Select the **Targets** tab and select the top check box under clusters:

Clusters

- cluster-name
- All servers in the cluster

- * Select **Save**.
- * You should see the message `Settings updated successfully`.
- * Select the **Configuration** tab.
- * Select **Connection Pool**. Settings should be:
 - Initial Capacity= InitialLimit=25
 - Maximum Capacity= MaxLimit=50
 - 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 the Supports Global Transaction.
 - * Select the Transaction tab on the Datasource settings.
 - * Check the Supports Global Transaction setting.
 - * Click Save.
 - * You should see the message Setting 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 1. on page 12](#) 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.

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

As mentioned above under [Upgrade the Application](#) on page 6, 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.

The screenshot shows the Oracle WebLogic Server Administration Console. The main content area displays the 'Summary of Deployments' page with the 'Control' tab selected. Below the navigation tabs, there is a table of deployments. The 'Locate' checkbox is checked for the 'Locate' application. The table columns are Start, State, Health, Type, Targets, Scope, and Domain Partitions.

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

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

Set Up Startup Arguments for Managed Servers

Note: Do not copy and paste text directly from this PDF file. To eliminate unwanted special characters, copy and paste first into a text editor, and then copy and paste from the text editor into the specified file, after first confirming that no unwanted special characters were embedded.

1. Under the left navigation pane for **Domain Structure**, selecting the **Lock & Edit** button may be required to update Server Start Arguments.

Under Domain (where Domain is the name of the domain)

Environment
Servers

Note: These steps must be repeated for every managed server:

2. Select the **Configuration** tab.
3. Select the **Name** of a managed server (link). For example: `server-name1`.

The screenshot displays the Oracle WebLogic Server Administration Console interface. The left-hand navigation pane shows the 'Domain Structure' tree with 'Servers' selected under the 'Environment' folder. The main content area is titled 'Summary of Servers' and includes a 'Configuration' tab. Below the tab, there is a table listing the servers in the domain. The table has columns for Name, Type, Cluster, Machine, State, Health, and Listen Port. Three servers are listed: 'adf-server1', 'adf-server2', and 'AdminServer(admin)'. All are in a 'Configured' state and 'RUNNING'.

Name	Type	Cluster	Machine	State	Health	Listen Port
adf-server1	Configured	adf-cluster	wbo403	RUNNING	OK	7003
adf-server2	Configured	adf-cluster	wbo404	RUNNING	OK	7003
AdminServer(admin)	Configured			RUNNING	OK	7001

4. Select the **Server Start** tab.

Settings for adf-server1

Configuration Protocols Logging Debug Monitoring Control Deployments Services Security Notes

General Cluster Services Keystores SSL Federation Services Deployment Migration Tuning Overload Concurrency Health Monitoring **Server Start** Services Coherence

Save

Node Manager is a WebLogic Server utility that you can use to start, suspend, shut down, and restart servers in normal or unexpected conditions. Use this page to configure the startup settings that Node Manager will use to start this server on a remote host.

Java Home: The Java home directory (path on the machine running Node Manager)

Java Vendor: The Java Vendor value to use when starting this server

BEA Home: The BEA home directory (path on the machine running Node Manager)

Root Directory: The directory that this server uses as its root directory (do not specify a Root Directory value, the domain directory is used)

Class Path: The classpath (path on the machine running Node Manager)

Arguments: The arguments to use when starting this server. More

5. Enter these values in the **Arguments** text box:

```
-Dlocate.uri=https://your_weblogic_server.domain.com:<port>
-Djava.awt.headless=true
```

Note: All the ARGUMENTS should be on the same line.

Note: Replace `your_weblogic_server.domain.com` with your managed server name, and change `<port>` to the non-SSL port you set up for Order Broker. The port should be the port that the server is deployed to in the clustered environment, and it cannot be the SSL port.

Edit Config.xml

Note: Do not copy and paste text directly from this PDF file. To eliminate unwanted special characters, copy and paste first into a text editor, and then copy and paste from the text editor into the specified file, after first confirming that no unwanted special characters were embedded.

1. Locate the `config.xml` file in your WebLogic installation (`<WEBLOGIC_12c>/<DOMAIN_FOLDER>/config/config.xml`) on **each of the servers**.
2. Open it in a Linux-compatible text editor.
3. Insert the bolded line below between two existing lines:

```
<node-manager-username>weblogic</node-manager-username>
<node-manager-password-encrypted>
{ABC}XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
</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>
```

Note: Failure to complete the above steps can result in a 401 error response to a web service call.

Start Up the Servers

1. Open the WebLogic console in a browser.
2. Under the Domain Structure navigate to **Environment -> Servers**.
3. Select the control tab.
4. Select each of the Managed servers and click the start button.
5. Check the `Config.xml` file still contains the bolded line added above under [Edit Config.xml](#) on page 17.

Validate the Upgrade

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.
3. From the **Systems** menu, select **About Order Broker**.
4. At the **About Order Broker** window, confirm that the levels are correct:
 - *Version:* 16.0
 - *Server Level:* 16.0.47-2016-11-29_16-01-56
 - *Database Level:* 16.0.047
5. Select **Cache...** from the **About Order Broker** window and confirm that all servers are listed correctly.

Configure the Application

1. From the menu, navigate to the **Tenant-Admin** Screen (**System > Tenant**).
2. It is necessary to register a change to the **Email Interval** to begin email generation after the upgrade. Enter a different setting in the **Email Interval** field and select **Save**. Then you can return to the screen, enter your original **Email Interval** setting again, and select **Save** again.
3. Configure the additional settings based upon your requirements. You will need to confirm or update:
 - the fields listed under **Data Folder Settings**.
 - the **Email Template Path**.See [Edit Configuration Files and Set Up Data Folders](#) on page 7 for information on setting up the current folders.
 - Save your entries.

For more information: See the online help or the **Administration Guide** for details.

The screenshot shows the 'Tenant - Admin' settings page. The 'Settings' section includes fields for UI Timeout (20 minutes), Lock Out (5 attempts), Tenant Logo (http://www.micros.com/images/micros.png), Account (locate), Use Routing Engine (checked), Use Store Connect (checked), Use Vendor Portal (checked), and Time Zone (America/New_York). The 'Email Settings' section includes Email Template Path (/home/u00/webadmin/config/domains) and Email Interval (5 minutes). The 'Retention Settings' section includes Report Files (30 days), Product Import Files (30 days), Clean Up Schedule (01:00 hh:mm), Email Notifications/Server Logs (30 days), and Pack Slip Files (30 days). The 'Data Folder Settings' section includes Product Import Files (/usr/share/Locate/data/ProductUpload), Proximity Upload Files (/usr/share/Locate/data/ProximityUpload), and Export Files (/usr/share/Locate/data/ExportData). The 'Miscellaneous Settings' section includes ESB WSDL Location (http://owmtegrate-qa4-8082/launch.D3) and Geocode Address (http://maps.oracle.com/geocoder/geocode). The 'Proxy Server Settings' section includes Proxy Address (www.proxy.us.oracle.com) and Proxy Port (80). A 'Save' button and a 'Cancel' button are visible in the top right corner.

4. To confirm that each scheduled job or process is active, advance to each of the following screens where you have previously set up a schedule and select **Save**:
 - **Store Connect Preferences** screen (**Locations** menu > **Organizations and Preferences** > **Store Connect Preferences**) if polling has been scheduled.
 - **Schedule Report** window (**Reports** menu > **Schedule Reports** > edit icon ()) for each scheduled report.
 - **System Import Schedule** screen (**System** menu > **Schedule Imports** > schedule () icon)) for scheduled import of products, locations, system products, product locations, or product barcodes.
 - **System** screen (**Systems** menu > **System** > edit icon ()) if you have scheduled probable quantity export, fulfilled quantity inventory export, or incremental inventory import.

Store Connect Upgrade

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

The screenshot shows the Oracle WebLogic Server Administration Console. The main content area displays the 'Summary of Deployments' page. On the left, the 'Domain Structure' tree is visible, with 'Deployments' selected. The 'Summary of Deployments' page has tabs for 'Configuration', 'Control', and 'Monitoring'. Below the tabs, there is a table of deployments. The table has columns for 'State', 'Health', 'Type', 'Targets', 'Scope', and 'Domain Partitions'. The 'LocateSTC' application is highlighted in blue, and its checkbox is checked. The table shows the following data:

Deployment Name	State	Health	Type	Targets	Scope	Domain Partitions
Service all requests	Active	OK	Resource Adapter	AdminServer, self-cluster	Global	
Service only administration requests	Active	OK	Web Application	AdminServer, self-cluster	Global	
OR_DMS Application (12.2.1.0.0)	Active	OK	Enterprise Application	AdminServer	Global	
OR_iam	Active	OK	Enterprise Application	self-cluster	Global	
OR_Locate	Active	OK	Enterprise Application	self-cluster	Global	
<input checked="" type="checkbox"/> OR_LocateSTC	Active	OK	Web Application	self-cluster	Global	
OR_LocateVPA	Active	OK	Web Application	self-cluster	Global	
OR_oppo-rest	Active	OK	Web Application	AdminServer	Global	
state-management-provider-memory-rar	Active	OK	Resource Adapter	AdminServer, self-cluster	Global	

- * Select the **Start** button.

- * Select **Start/Service all requests**.

Validate the Store Connect Upgrade

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 to 16.0.46-2016-10-27_13-00-21.

Supplier Direct Fulfillment (Vendor Portal) Upgrade

Note: Do not copy and paste text directly from this PDF file. To eliminate unwanted special characters, copy and paste first into a text editor, and then copy and paste from the text editor into the specified file, after first confirming that no unwanted special characters were embedded.

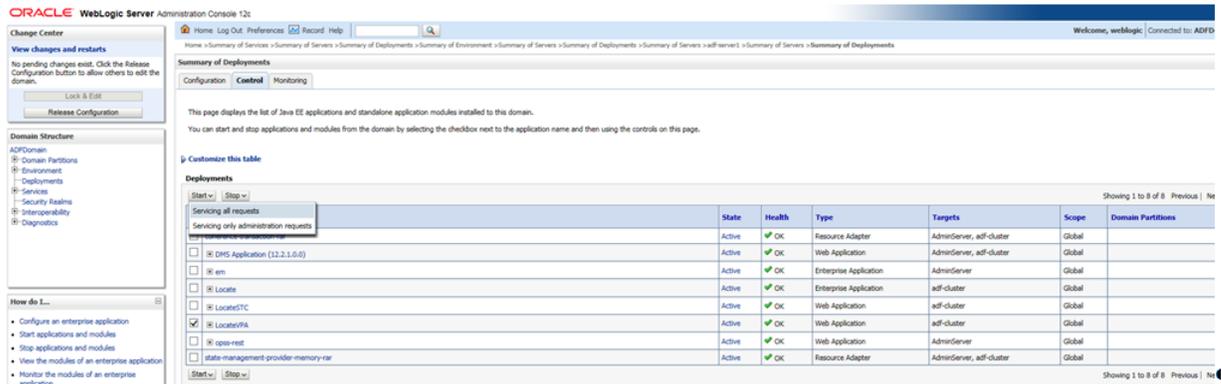
1. Copy the `LocateVPA.war` from the `/Supplier Direct Fulfillment/Deployments` folder to a staging area on the same server as WebLogic to deploy later to the Cluster in WebLogic. This step is not required on all servers in the cluster.
2. Use a Linux-compatible text editor to open the `web.xml` in the war file in the `WEB-INF` folder and add the following section:

```
<context-param>
  <param-name>LOCATE_UPLOAD_FOLDER</param-name>
  <param-value>SDFUPLOAD_DATA_PATH</param-value>
</context-param>
```

Where `SDFUPLOAD_DATA_PATH` is the data folder path set up previously, such as `/usr/share/OrderBroker/SDFUploadData`.

3. 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.

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



The screenshot shows the Oracle WebLogic Server Administration Console. 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 "State", "Health", "Type", "Targets", "Scope", and "Domain Partitions". The "LocateVPA" checkbox is checked in the "Start" column of the table.

Start	Stop	State	Health	Type	Targets	Scope	Domain Partitions
Servicing all requests							
Servicing only administration requests							
<input 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/Servicing all requests**.

Validate the Vendor Portal Upgrade

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 to 16.0.46-2016-10-27_13-00-21.



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