

Oracle Retail Order Broker
Installation Guide
Release 16.0
E83029-09

April 2018

E83029-09

Copyright © 2018, Oracle and/or its affiliates. All rights reserved.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

If this software or related documentation is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, then the following notice is applicable:

U.S. GOVERNMENT END USERS: Oracle programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, delivered to U.S. Government end users are “commercial computer software” pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, shall be subject to license terms and license restrictions applicable to the programs. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Xeon are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Opteron, the AMD logo, and the AMD Opteron logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group.

This software or hardware and documentation may provide access to or information on content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services unless otherwise set forth in an applicable agreement between you and Oracle. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services, except as set forth in an applicable agreement between you and Oracle.

Oracle Retail VAR Applications

The following restrictions and provisions only apply to the programs referred to in this section and licensed to you. You acknowledge that the programs may contain third party software (VAR applications) licensed to Oracle. Depending upon your product and its version number, the VAR applications may include:

(i) the MicroStrategy Components developed and licensed by MicroStrategy Services Corporation (MicroStrategy) of McLean, Virginia to Oracle and imbedded in the MicroStrategy for Oracle Retail Data Warehouse and MicroStrategy for Oracle Retail Planning & Optimization applications.

(ii) the Wavelink component developed and licensed by Wavelink Corporation (Wavelink) of Kirkland, Washington, to Oracle and imbedded in Oracle Retail Mobile Store Inventory Management.

(iii) the software component known as Access Via™ licensed by Access Via of Seattle, Washington, and imbedded in Oracle Retail Signs and Oracle Retail Labels and Tags.

(iv) the software component known as Adobe Flex™ licensed by Adobe Systems Incorporated of San Jose, California, and imbedded in Oracle Retail Promotion Planning & Optimization application.

You acknowledge and confirm that Oracle grants you use of only the object code of the VAR Applications. Oracle will not deliver source code to the VAR Applications to you. Notwithstanding any other term or condition of the agreement and this ordering document, you shall not cause or permit alteration of any VAR Applications. For purposes of this section, "alteration" refers to all alterations, translations, upgrades, enhancements, customizations or modifications of all or any portion of the VAR Applications including all reconfigurations, reassembly or reverse assembly, re-engineering or reverse engineering and recompilations or reverse compilations of the VAR Applications or any derivatives of the VAR Applications. You acknowledge that it shall be a breach of the agreement to utilize the relationship, and/or confidential information of the VAR Applications for purposes of competitive discovery.

The VAR Applications contain trade secrets of Oracle and Oracle's licensors and Customer shall not attempt, cause, or permit the alteration, decompilation, reverse engineering, disassembly or other reduction of the VAR Applications to a human perceivable form. Oracle reserves the right to replace, with functional equivalent software, any of the VAR Applications in future releases of the applicable program.

Contents

Send Us Your Comments	vi
Preface	vii
Audience	vii
Documentation Accessibility	vii
Customer Support	vii
Improved Process for Oracle Retail Documentation Corrections	viii
Oracle Retail Documentation on the Oracle Technology Network	viii
Conventions	viii

1 Preinstallation Tasks

Prerequisites	1-2
Implementation Capacity Planning	1-2
Check Supported Database Server Requirements	1-2
Check Supported Application Server Requirements	1-2
Check Supported Application Server Requirements for Store Connect or Supplier Direct Fulfillment Servers	1-3
Check Client PC and Web Browser Requirements	1-3
Supported Oracle Retail Products	1-3
Linux User Account Privileges to Install the Software	1-4
WebLogic User Privileges to Configure WebLogic	1-4
Oracle WebService Manager – Policy Manager	1-4
Definitions and Concepts	1-5
Platform	1-5
Domain	1-5
Cluster	1-5
ADMIN_SERVER	1-5
DOMAIN_SERVER	1-5
WEBLOGIC_12c	1-5
DOMAIN_FOLDER	1-6

2 Installation Steps

Before You Start	2-1
Databases	2-3
Create Database Containers and Pluggable Databases	2-3
Create Table Spaces for Each Database	2-3
Create the Users / Schemas and Seed Data for Each Database	2-4
Order Broker Application	2-7
Create the Order Broker Application Admin User	2-7
Install the Application	2-8
Use the WebLogic Console to Configure the Application	2-11
Set Up Startup Arguments for Managed Servers	2-18
Edit Config.xml	2-19
Start Up the Servers	2-19
Validate the Installation	2-20

Configure the Installation	2-20
Store Connect Installation	2-22
Validate the Store Connect Installation	2-23
Supplier Direct Fulfillment (Vendor Portal) Installation	2-24
Validate the Vendor Portal Installation	2-25
Time Zones	A-1
Installation Order	B-1

Send Us Your Comments

Oracle Retail Order Broker Installation Guide, Release 16.0

Oracle welcomes customers' comments and suggestions on the quality and usefulness of this document.

Your feedback is important, and helps us to best meet your needs as a user of our products. For example:

- Are the implementation steps correct and complete?
- Did you understand the context of the procedures?
- Did you find any errors in the information?
- Does the structure of the information help you with your tasks?
- Do you need different information or graphics? If so, where, and in what format?
- Are the examples correct? Do you need more examples?

If you find any errors or have any other suggestions for improvement, then please tell us your name, the name of the company who has licensed our products, the title and part number of the documentation and the chapter, section, and page number (if available).

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

Send your comments to us using the electronic mail address: retail-doc_us@oracle.com

Please give your name, address, electronic mail address, and telephone number (optional).

If you need assistance with Oracle software, then please contact your support representative or Oracle Support Services.

If you require training or instruction in using Oracle software, then please contact your Oracle local office and inquire about our Oracle University offerings. A list of Oracle offices is available on our Web site at <http://www.oracle.com>.

Preface

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

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at <http://www.oracle.com/us/corporate/accessibility/index.html>.

Access to Oracle Support

Customers that have purchased support have access to electronic support at My Oracle Support. For information, visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info> or visit

<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.

Customer Support

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

<https://support.oracle.com>

When contacting Customer Support, please provide the following:

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

Improved Process for Oracle Retail Documentation Corrections

To more quickly address critical corrections to Oracle Retail documentation content, Oracle Retail documentation may be republished whenever a critical correction is needed. For critical corrections, the republication of an Oracle Retail document may at times not be attached to a numbered software release; instead, the Oracle Retail document will simply be replaced on the Oracle Technology Network Web site.

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.

In this chapter:

- [Prerequisites](#) on page 2
 - [Implementation Capacity Planning](#) on page 2
 - [Check Supported Database Server Requirements](#) on page 2
 - [Check Supported Application Server Requirements](#) on page 2
 - [Check Client PC and Web Browser Requirements](#) on page 3
 - [Supported Oracle Retail Products](#) on page 3
 - [Linux User Account Privileges to Install the Software](#) on page 4
 - [WebLogic User Privileges to Configure WebLogic](#) on page 4
 - [Oracle WebService Manager – Policy Manager](#) on page 4
- [Definitions and Concepts](#) on page 5
 - [Platform](#) on page 5
 - [Domain](#) on page 5
 - [Cluster](#) on page 5
 - [ADMIN_SERVER](#) on page 5
 - [DOMAIN_SERVER](#) on page 5
 - [WEBLOGIC_12c](#) on page 5
 - [DOMAIN_FOLDER](#) on page 6

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, v12.2.1.0.0 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.

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**.

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.

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 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](#).

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:

- [Databases](#) on page 3
 - [Create Database Containers and Pluggable Databases](#) on page 3
 - [Create Table Spaces for Each Database](#) on page 3
 - [Create the Users / Schemas and Seed Data for Each Database](#) on page 4
- [Order Broker Application](#) on page 7
 - [Create the Order Broker Application Admin User](#) on page 7

- [Install the Application](#) on page 8
- [Set Up Startup Arguments for Managed Servers](#) on page 18
- [Validate the Installation](#) on page 20
- [Store Connect Installation](#) on page 22
 - [Validate the Store Connect Installation](#) on page 23
 - [Configure the Installation](#) on page 20
- [Supplier Direct Fulfillment \(Vendor Portal\) Installation](#) on page 24
 - [Validate the Vendor Portal Installation](#) on page 25

Databases

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

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.

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

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.

1. In Oracle, create one or more Container Databases. For example, you could create one for the Order Broker and Proximity schemas and one for the Order Broker Admin schema. The decision of how many Container Databases to create is up to the DBA.
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

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.

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

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.

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

Create the Users / Schemas and Seed Data for Each Database

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.

For the ORDER_BROKER and ORDER_BROKER_ADMIN databases:

1. In the ORDER_BROKER database:

- Create an ORDER_BROKER user / schema
- Create an ORDER_BROKER_PROXIMITY user / schema

Open the `Order_Broker_Users.sql` script.

In the following line, replace the **order broker** with the password generated for the order_broker user:

```
CREATE USER order_broker IDENTIFIED BY order broker DEFAULT
TABLESPACE order_broker_data TEMPORARY TABLESPACE TEMP;
```

In the following line, replace the **proximity** with the password generated for the proximity user:

```
CREATE USER proximity IDENTIFIED BY proximity DEFAULT
TABLESPACE proximity_data TEMPORARY TABLESPACE TEMP;
```

Run `Order_broker_users.sql` logged in as system.

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

Run the following command logged in as system:

```
grant execute on dbms_lob to order_broker;
```

2. In the Order_Broker_Admin database, create an ORDER_BROKER_ADMIN user / schema.

Open the Order_Broker_Admin_Users.sql script.

In the following line, replace the **order broker admin** with the password generated for the order_broker_admin user:

```
CREATE USER order_broker_admin IDENTIFIED BY
order broker admin DEFAULT TABLESPACE order_broker_admin_data
TEMPORARY TABLESPACE TEMP;
```

Run Order_broker_Admin_users.sql logged in as system.

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

3. In the ORDER_BROKER database, logged in as the ORDER_BROKER user:
 - Run the Order_Broker_schema.sql script

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

Before running the Order_Broker_seed_data.sql script and the other scripts listed below, change the Linux path as follows:

```
REM INSERTING into TENANT
Insert into TENANT
(TENANT_ID,NAME,LICENSE_CODE,KEY_CODE,UI_TIME_OUT,TENANT_LO
GO,ACCOUNT,EMAIL_INTERVAL_MINUTES,EMAIL_TEMPLATE_PATH,REPOR
T_RETENTION_DAYS,LOG_RETENTION_DAYS,PACKSLIP_RETENTION_DAYS
,PRODUCT_IMPORT_RETENTION_DAYS,ATTRIBUTE_DATA_DIRECTORY,PRO
DUCT_DATA_DIRECTORY,PROXIMITY_DATA_DIRECTORY,EXPORT_DATA_DI
RECTORY,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/emailtem
plates',30,14,30,30,'/usr/share/OrderBroker/data/AttributeU
ploadData','/usr/share/OrderBroker/data/ProductUploadData',
'/usr/share/OrderBroker/data/ProximityUploadData','/usr/sha
re/OrderBroker/data/ExportData','0 00 01 ? *
*',' ',1,1,1,5);
```

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.

- 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

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

4. 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

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

5. In the **ORDER_BROKER_ADMIN** database, logged in as the ORDER_BROKER_ADMIN user:
 - Run the Order_Broker_Admin_schema.sql script
 - Run the Order_Broker_Admin_schema_v16_0_changes.sql script

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 [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

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. 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 ojdbc7.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

Note: Any uppercase characters in the user ID will be converted to lowercase.

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

Install 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 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`
4. To enable uploads, provide full read/write/execute access to the user running the application.
 5. If the `<WEBLOGIC_12c>/<DOMAIN_FOLDER>/logs` directory doesn't exist, create it. Also, give full rights for the application service profile to this directory.
 6. 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. Using a Linux-compatible text editor, change the `password_pepper.properties` file found in `/server/conf/security`. Set `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. Move the `ehcache.xml` file in `/Order Broker/Weblogic/conf` to `<WEBLOGIC_12c>/<DOMAIN_FOLDER>/conf`, and use a Linux-compatible text editor to update the following:


```
<cacheManagerPeerProviderFactory
class="net.sf.ehcache.distribution.RMICacheManagerPeer
ProviderFactory"
```

```
properties="peerDiscovery=automatic,
multicastGroupAddress=#.#.#.#,
multicastGroupPort=15, timeToLive=#"/>
```

Where:

- multicastGroupAddress= #.#.#.# is a unique value common all servers in the range 224.0.0.1 to 239.255.255.255
- timeToLive=0 for a single server and 1 for a multiple server installation

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/conf 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`.

These 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, adding 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, if any, in the `<WEBLOGIC_12c>/<DOMAIN_FOLDER>/log` directory.
10. Repeat the above steps for all servers in the cluster.

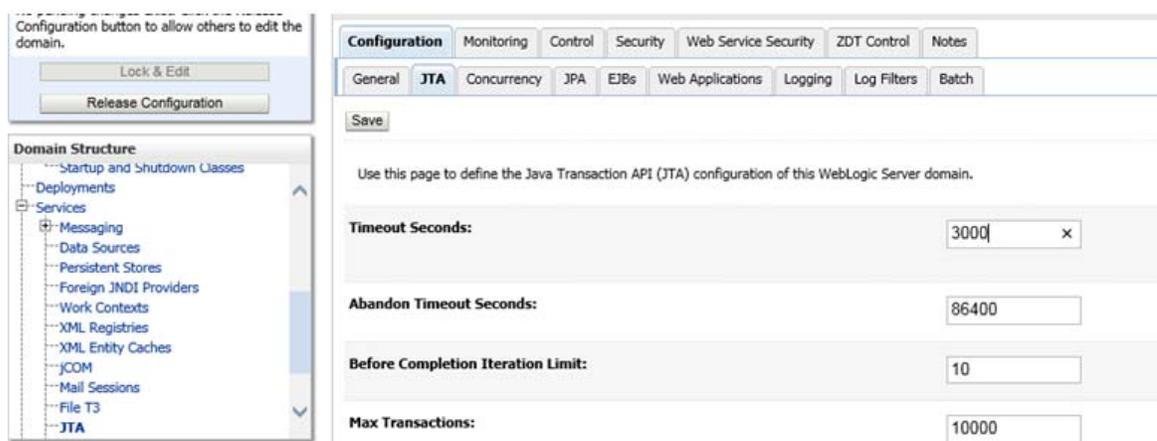
Use the WebLogic Console to Configure the Application

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. 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**.

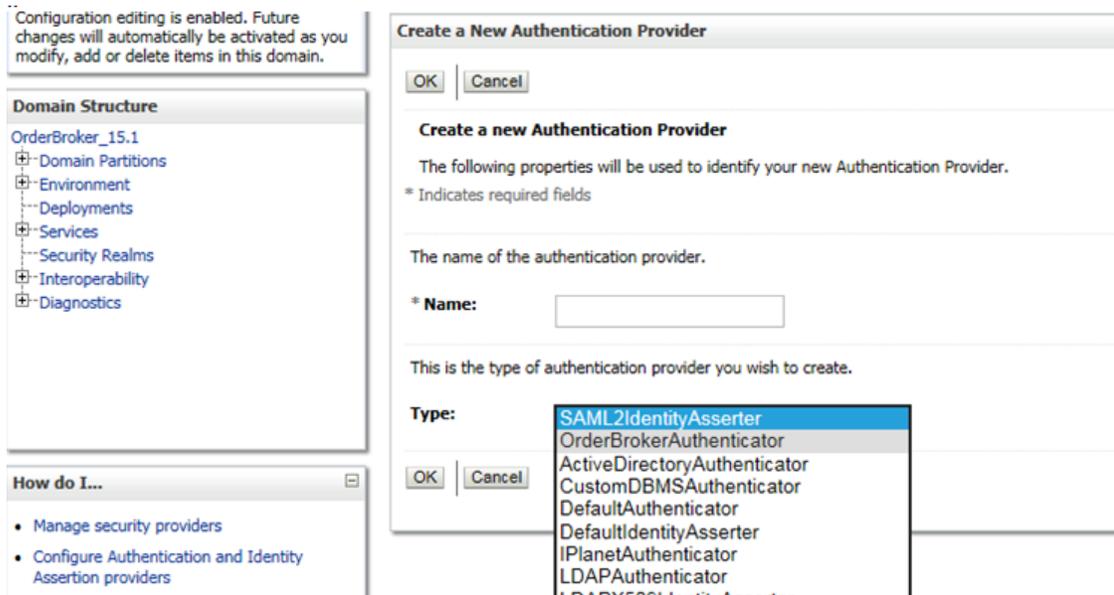
Note: You may need to select **Lock & Edit** to update Transaction Seconds. If so, you may need to select **Activate Changes**.

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



2. Set up the Security Realm for WebLogic JAAS authentication:
 - Stop WebLogic on all managed servers.
 - With the managed servers down, copy the `locateProvider.jar` from the `/Order Broker/Weblogic/Authentication` install folder to `<WEBLOGIC_12c>/wlserver/server/lib/mbeantypes`.
 - Start WebLogic.
 - Once WebLogic is up and running, open the 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.
 - Restart all the managed servers.
3. 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 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: 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** and select **Next**.
- * Leave **Options** set to the defaults 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 `ORDER_BROKER`.
- * Set **Password/Confirm Password** to `password = ORDER_BROKER` and select **Next**.
- * Set the **URL** to URL:
`jdbc:oracle:thin:@<HOSTNAME>:1521/<SERVICENAME>`.

Note: You cannot leave the default URL because Order Broker uses pluggable databases, which require the format indicated above.

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

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

- * Set the **Test Table Name** to `validationQuery = SELECT 1 from dual in SQL PINGDATABASE`.

Note: Test Table Name: **SELECT 1 from dual**: This will be your entry from your `validationQuery`.

- * 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:

Initial Capacity= InitialLimit=10
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**.

The screenshot displays the Oracle Change Center interface for configuring a JDBC data source. The main window shows the 'Settings for LocateAdminDatasource' with the 'Transaction' tab selected. Under the 'Transaction' section, the 'Supports Global Transactions' option is checked, indicating that non-XA connections from the data source will participate in global transactions. Other options like 'Logging Last Resource', 'Emulate Two Phase Commit', and 'One-Phase Commit' are currently unchecked. The 'System Status' panel on the left shows the health of running servers, with 3 servers in an 'OK' state.

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 3. 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.

Additional step for the LocateNoTxDatasource datasource:

- Add `jtaManaged=false` to the connection pool properties field.
- Click **Save**.
- Click **Activate Changes**.

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.

The screenshot shows the Oracle WebLogic Server Administration Console. The main content area is titled "Summary of Deployments" and contains a table of installed applications. The "em" application is selected, and its "Locate" checkbox is checked. The "Start" button is highlighted in the top-left corner of the table.

Start	Stop	State	Health	Type	Targets	Scope	Domain Partitions
Servicing all requests							
Servicing only administration requests							
<input type="checkbox"/>		Active	OK	Resource Adapter	AdminServer, self-cluster	Global	
<input type="checkbox"/>		Active	OK	Web Application	AdminServer, self-cluster	Global	
<input checked="" type="checkbox"/>		Active	OK	Enterprise Application	AdminServer	Global	
<input type="checkbox"/>		Active	OK	Enterprise Application	self-cluster	Global	
<input type="checkbox"/>		Active	OK	Web Application	self-cluster	Global	
<input type="checkbox"/>		Active	OK	Web Application	AdminServer	Global	
<input type="checkbox"/>		Active	OK	Web Application	AdminServer	Global	
<input type="checkbox"/>		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`.

ORACLE WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help

Home > Summary of Deployments > Summary of Servers > adf-server1 > Summary of Servers > Summary of Deployments > Summary of Servers > adf-server1 > Summary of Servers > adf-server1 > Summary of Servers

Summary of Servers

Configuration Control

A server is an instance of WebLogic Server that runs in its own Java Virtual Machine (JVM) and has its own configuration. This page summarizes each server that has been configured in the current WebLogic Server domain.

Customize this table

Servers (Filtered - More Columns Exist)

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 keystones SSL Federation Services Deployment Migration Tuning Overload Concurrency Health Monitoring **Server Start** Web 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 machine.

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.

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=http://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)
2. 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>
{ABC}XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
</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](#).

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.

Note: If you can't log in, confirm that property values are set with just an equal sign and no other code between the property and the setting: for example, `prop=value`.

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 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.

Note: Use the *Time Zone* field to select the correct time zone to use for display in the user interface. This field, and all the other required fields, are described in the online help. .

Tenant ✕

Tenant - Admin

Settings Save Cancel

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

Email Interval (minutes)

Retention Settings

Report Files (days)

Product Import Files (days)

Clean Up Schedule hh:mm

Email Notifications/Server Logs (days)

Pack Slip Files (days)

Data Folder Settings

Product Import Files

Proximity Upload Files

Export Files

Miscellaneous Settings

ESB WSDL Location

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"/> [E] DHS Application (12.2.1.0.0)	Active	OK	Enterprise Application	AdminServer	Global	
<input type="checkbox"/> [E] em	Active	OK	Enterprise Application	self-cluster	Global	
<input type="checkbox"/> [E] Locate	Active	OK	Web Application	self-cluster	Global	
<input checked="" type="checkbox"/> [E] LocateSTC	Active	OK	Web Application	self-cluster	Global	
<input type="checkbox"/> [E] LocateVPA	Active	OK	Web Application	AdminServer	Global	
<input type="checkbox"/> [E] ocss-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/Service 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 to 16.0.46-2016-10-27_13-00-21.

Supplier Direct Fulfillment (Vendor Portal) Installation

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.

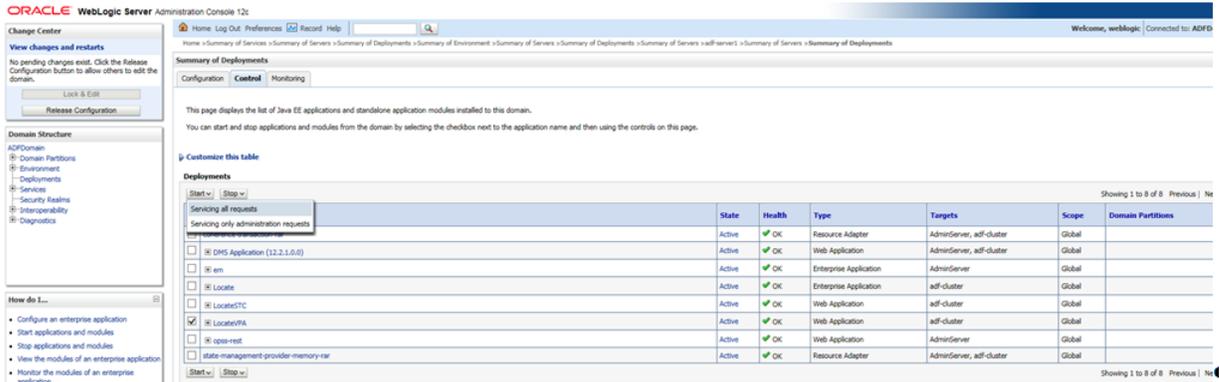
1. Copy the `LocateVPA.war` from the `/Supplier Direct Fulfillment/Deployments` folder to a staging area on the same server as WebLogic to deploy later to the Cluster in WebLogic. This step is not required on all servers in the cluster.
2. Use a Linux-compatible text editor to open the `web.xml` in the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

State	Health	Type	Targets	Scope	Domain Partitions
Active	OK	Resource Adapter	AdminServer_adf-cluster	Global	
Active	OK	Web Application	AdminServer_adf-cluster	Global	
Active	OK	Enterprise Application	AdminServer	Global	
Active	OK	Enterprise Application	adf-cluster	Global	
Active	OK	Web Application	adf-cluster	Global	
Active	OK	Web Application	adf-cluster	Global	
Active	OK	Web Application	AdminServer	Global	
Active	OK	Resource Adapter	AdminServer_adf-cluster	Global	

- * Select the **Start** button.
- * Choose **Start/Servicing 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 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

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