

JD Edwards EnterpriseOne

Portal Reference Guide for Oracle WebCenter

9.2

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Preface

Welcome to the JD Edwards EnterpriseOne documentation.

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Related Information

For additional information about JD Edwards EnterpriseOne applications, features, content, and training, visit the JD Edwards EnterpriseOne pages on the JD Edwards Resource Library located at:

<http://learnjde.com>

Conventions

The following text conventions are used in this document:

Convention	Meaning
Bold	Boldface type indicates graphical user interface elements associated with an action or terms defined in text or the glossary.
<i>Italics</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
Monospace	Monospace type indicates commands within a paragraph, URLs, code examples, text that appears on a screen, or text that you enter.
> Oracle by Example	Indicates a link to an Oracle by Example (OBE). OBEs provide hands-on, step-by-step instructions, including screen captures that guide you through a process using your own environment. Access to OBEs requires a valid Oracle account.

1 Documentation Accessibility

Documentation Accessibility

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2 Understanding This Guide

Welcome

Welcome to the JD Edwards EnterpriseOne Tools Portal Reference for Oracle Web Center Guide . This guide has been updated for JD Edwards EnterpriseOne Tools releases 9.2.1, 9.2.1.2, 9.2.1.4, 9.2.2, and 9.2.6.

Audience

This guide is intended for system administrators and technical consultants who are responsible for assembling, building, and deploying packages. This guide assumes you have a working knowledge of the following:

- The WebCenter Portal.
- The principles and customary practices of your business area.
- Computer desktop application usage and terminology.

Using this Guide

The JD Edwards EnterpriseOne Tools Portal Reference for Oracle Web Center Guide covers the Oracle WebCenter technology.

The *JD Edwards EnterpriseOne Tools Portal Reference for Oracle Web Center Guide* is meant to be used to supplement the use of the Oracle WebCenter Portal with Oracle JD Edwards portlets and WSRP technology. This guide is not meant to be read front to back. Instead, the user should skip to the necessary parts and use them with other guides that more fully detail the various install processes. The necessary supplementary guides include:

- *JD Edwards EnterpriseOne Tools Server Manager Guide*
- *Installing Oracle Fusion Middleware WebCenter 11g with JD Edwards EnterpriseOne Red Paper*

Accessing Minimum Technical Requirements

Customers must conform to the supported platforms for the release as detailed in the Certifications for JD Edwards EnterpriseOne. In addition, JD Edwards EnterpriseOne may integrate, interface, or work in conjunction with other Oracle products. Refer to the following link for cross-reference material in the Program Documentation for Program prerequisites and version cross-reference documents to assure compatibility of various Oracle products:

<http://www.oracle.com/corporate/contracts/index.html>

Access the Certifications from My Oracle Support (<https://support.oracle.com>) by searching for this product from the Certification tab:

JD Edwards EnterpriseOne Portal

EnterpriseOne Portal Solutions Overview

EnterpriseOne Portal supports only the WSRP solution on these Portal Servers:

- Oracle WebCenter Portal
- IBM WebSphere Portal with WebSphere Application Server

Depending on the combination of JD Edwards EnterpriseOne Applications and Tools Release levels, the availability of the different portal solutions is depicted in the following table:

JD Edwards EnterpriseOne Applications Release Level	WSRP
9.1	WebCenter 11g and WLS 10.3.5+
9.2	WebCenter 11g and WLS 10.3.6+

X = supported

3 Oracle WebCenter Portal

Understanding WebCenter Portal Server

Prerequisites

- Install WebCenter Database Schemas (See *Create Database Schemas with Repository Creation Utility*).
- Install WebLogic Server (See *Installing the WebLogic Server*).

Important: the WebCenter database schemas must be created and the WebLogic Server must be installed before you install Oracle WebCenter Portal.

Oracle WebCenter Portal 11.1.1.8.0 with Bundle Patch 5 support starts with:

- JD Edwards EnterpriseOne Tools Release 9.1.5 Update 0
- JD Edwards EnterpriseOne Tools Release 9.1.4.Update 6
- JD Edwards EnterpriseOne Tools Release 9.2.0.Update 0

JD Edwards EnterpriseOne Features Not Supported with Oracle WebCenter Portal (Release 9.2.0.5)

The following JD Edwards EnterpriseOne Web client features are not supported with Oracle WebCenter Portal:

- List View Grid Format
- Carousel
- EnterpriseOne Pages
- Composed EnterpriseOne Pages
- Composite Application Framework
- Advanced Media Object Attachments (Release 9.2.1)
- Design mode for Personal Forms (Release 9.2.1)
- EnterpriseOne Search (Release 9.2.1.2)
- Contextual Conversations, Contextual Documents, and User Conversations (Release 9.2.1.2)
- Task Search (Release 9.2.1.4)
- Subscriptions to Notifications (Release 9.2.2)
- Renaming and resetting column headers for Table View Grid Format in design mode (Release 9.2.2.4)
- Design mode for Form Extensions (Release 9.2.2.4)

Installing Oracle WebCenter Portal

When you install the WebCenter components on your machine, be sure to enter the correct data (machine name, ports, and so on) for your configuration. When you download the software from the Oracle Software Cloud, note the directories to which you downloaded the software and replace the directory location specified in this chapter with your directory locations. Be sure to install the executable files for your platform.

Note: To install WebCenter Portal 12c, see the steps in *Preparing to Install and Configure Oracle WebCenter Portal* in the Oracle Fusion Middleware Installing and Configuring Oracle WebCenter Portal, 12c (12.2.1.4.0) Guide.

Use these steps to install Oracle WebCenter Portal 11.1.1.8.0.

1. Download and unzip the WebCenter installation file:

Oracle WebCenter Portal 11g (11.1.1.8.0), part number = V38995-01

2. Execute the install process from the Disk1 folder:
 - o On Windows: *setup.exe* with **Run as administrator** option
 - o On UNIX: *./runInstaller* as a non-root user
3. Enter the JRE location when prompted.
4. Review the Welcome page information. Click **Next**.
5. Select your **Software Updates** option.

6. The installer performs prerequisite checks.

Specify Installation Location

ORACLE 11g
FUSION MIDDLEWARE

- Welcome
- Skip Software Updates
- Prerequisite Checks
- Installation Location**
- Application Server
- Installation Summary
- Installation Progress
- Installation Complete

Oracle Middlewre Home: /u01/Oracle/Middleware

Oracle Home Directory: Oracle_WC1

An Application Server must already be installed.

7. Enter a Middleware Home and a WebCenter Home Directory.



Application Server

ORACLE 11^g
FUSION MIDDLEWARE

- [Welcome](#)
- [Skip Software Updates](#)
- [Prerequisite Checks](#)
- [Installation Location](#)
- Application Server**
- [Installation Summary](#)
- [Installation Progress](#)
- [Installation Complete](#)

WebLogic Server

WebSphere

Application Server Location

WLS installation detected, WebLogic Server support available in this Middleware Home.

8. Select **WebLogic Server** as the application server and click **Next**.

Note: EnterpriseOne supports only a WebLogic Server as the application server.

Installation Summary

ORACLE 11g
FUSION MIDDLEWARE

- Welcome
- Skip Software Updates
- Prerequisite Checks
- Installation Location
- Application Server
- Installation Summary**
- Installation Progress
- Installation Complete

Middleware Home Location: /u01/Oracle/Middleware
Oracle Home Location: /u01/Oracle/Middleware/Oracle_WC1
Application Server Type: WebLogic Server
Application Server Location: /u01/Oracle/Middleware

Disk Space

- Required: 2180 MB
- Available: 133852 MB

Applications

- WebCenter Portal : Spaces
- WebCenter Portal : Framework
- WebCenter Portal : Portlets
- Oracle Wiki and Blog Server
- Oracle Discussion Server

Save Response File:

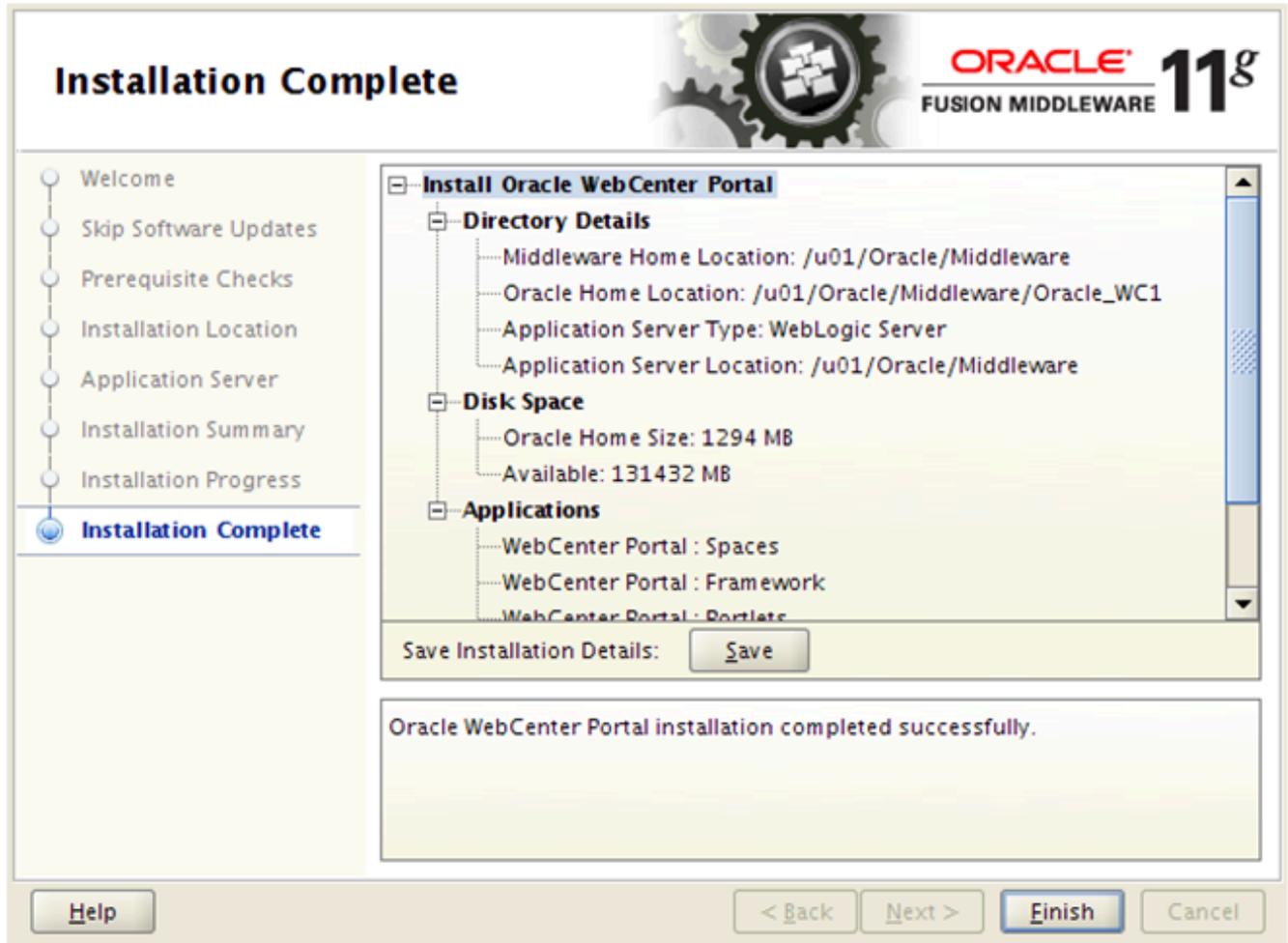
To change this configuration before installing, select the topic you want to change in the pane on the left.
To install this configuration, select **Install**.

9. Review the Install Summary.

10. Click **Install** to start the install process.



11. Click **Next** to continue when the install has completed.



12. Click **Finish** when the install process is completed.
13. Run config.sh (.cmd) from <MW_Home>/Oracle_WC1/common/bin folder to create the WebCenter domain.

14. Select **Create a new WebLogic domain** option and click **Next**.

Generate a domain configured automatically to support the following products:

- Basic WebLogic Server Domain - 10.3.6.0 [wserver_10.3] *
- Oracle WebCenter Spaces - 11.1.1.0 [Oracle_WC1]
- Oracle WebCenter Services Portlets - 11.1.1.6.0 [Oracle_WC1]
- Oracle WebCenter Pagelet Producer - 11.1.1.0 [Oracle_WC1]
- Oracle Enterprise Manager - 11.1.1.0 [oracle_common]
- Oracle Portlet Producers - 11.1.1.0 [Oracle_WC1]
- Oracle WebCenter Discussion Server - 11.1.1.0 [Oracle_WC1]
- Oracle WebCenter ActivityGraph Engines - 11.1.1.0 [Oracle_WC1]
- Oracle WebCenter Personalization - 11.1.1.0 [Oracle_WC1]
- Oracle WebCenter Analytics Collector - 11.1.1.0 [Oracle_WC1]
- Oracle WSM Policy Manager - 11.1.1.0 [oracle_common]
- Oracle JRF WebServices Asynchronous services - 11.1.1.0 [oracle_common]
- Oracle JRF - 11.1.1.0 [oracle_common]
- Basic WebLogic SIP Server Domain - 10.3.6.0 [wserver_10.3]
- Oracle Platform Security Service for Audit - 11.1.1.0 [oracle_common]

Base this domain on an existing template

Template location:

15. Select **Oracle WebCenter Spaces** to be part of this domain. Other required products will be selected automatically. You can add more products later if needed.

16. Click **Next**.

Enter the name and location for the domain and its applications:

Domain name:

Domain location:

Application location:

17. Enter the domain name. For example: webcenter_domain.

*Name:

*User password:

*Confirm user password:

Description:

18. Enter the domain Administrator user and password.

The image shows two side-by-side configuration panels. The left panel, titled "WebLogic Domain Startup Mode", contains two radio button options. The "Production Mode" option is selected and highlighted with a red border. The right panel, titled "JDK Selection", contains two radio button options. The "Available JDKs" option is selected, and a list box below it displays "Sun SDK 1.7.0_45 @ /u01/Oracle/jdk1.7.0". Below the "Other JDK" option, there is a text input field for "Location:" and a "Browse" button.

WebLogic Domain Startup Mode	JDK Selection
<p><input type="radio"/> Development Mode Utilize boot.properties for username and password and poll for applications to deploy. Sun JDK recommended for better startup performance during iterative development.</p>	<p><input checked="" type="radio"/> Available JDKs</p> <div style="border: 1px solid gray; padding: 5px; width: fit-content;"><p>Sun SDK 1.7.0_45 @ /u01/Oracle/jdk1.7.0</p></div>
<p><input checked="" type="radio"/> Production Mode Require the entry of a username and password and do not poll for applications to deploy. WebLogic JRockit JDK recommended for better runtime performance and management.</p>	<p><input type="radio"/> Other JDK</p> <p>Location: <input type="text"/> <input type="button" value="Browse"/></p>

19. Select **Production Mode** and verify the available JDK.

Note: Change only the input fields below that you wish to modify and values will be applied to all selected rows.

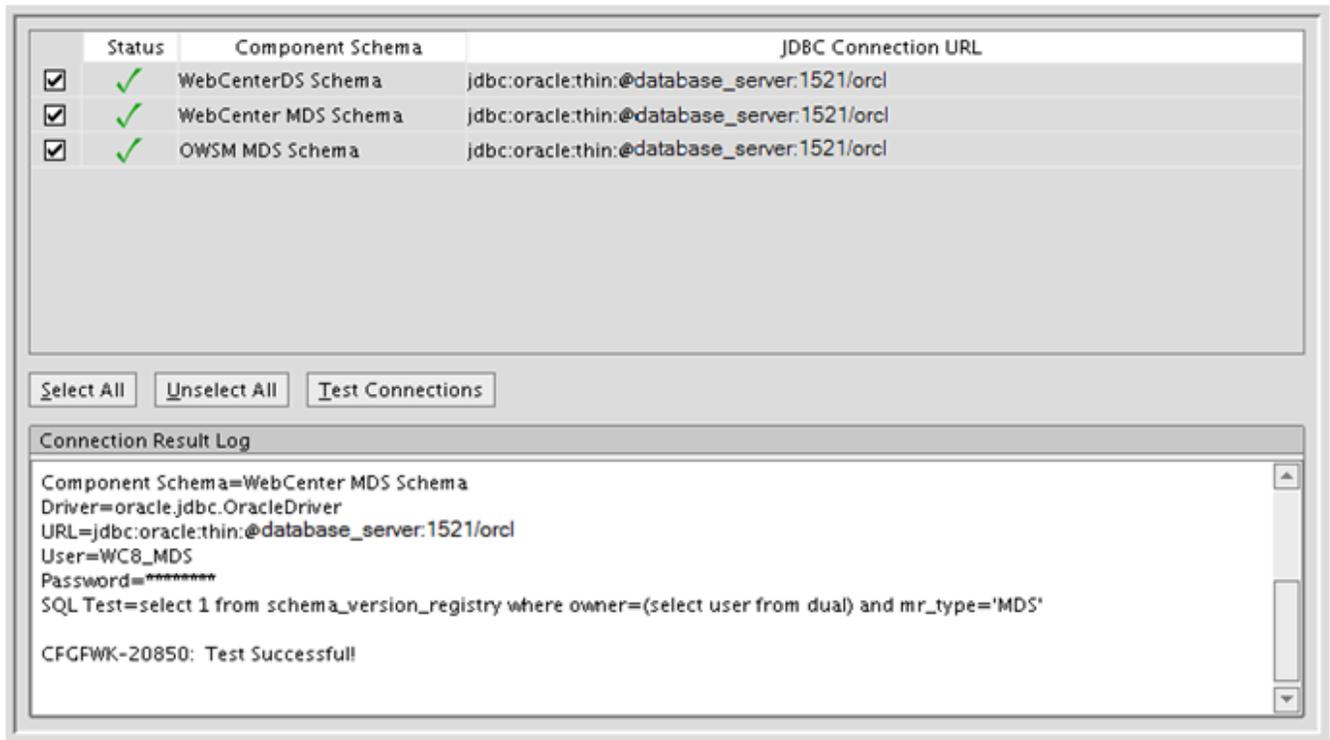
Vendor: DBMS/Service:
Driver: Host Name:
Schema Owner: Port:
Schema Password:

RAC configuration for component schemas:
 Convert to GridLink Convert to RAC multi data source Don't convert

	Component Schema	DBMS/Service	Host Name	Port	Schema Owner	Schema Password
<input type="checkbox"/>	WebCenterDS Schema	orcl	database_server	1521	WC8_WEBCENTER	*****
<input type="checkbox"/>	WebCenter MDS Schema	orcl	database_server	1521	WC8_MDS	*****
<input checked="" type="checkbox"/>	OWSM MDS Schema	orcl	database_server	1521	WC8_MDS	*****

20. Enter the JDBC Component Schema database connection.

Note: If you are not using the default Schema Owner, you must modify them one line at a time.



21. Test the JDBC Schema connection.



22. Select the **Administration Server** and **Managed Server, Cluster and Machine**.

A configuration form for an Administration Server. The fields are as follows:

- *Name: AdminServer
- *Listen address: All Local Addresses
- Listen port: 7001
- SSL listen port: N/A
- SSL enabled:

23. Enter the Administration Server name and Listen port.

A table showing the configuration for a Managed Server. The table has the following columns: Name*, Listen address*, Listen port, SSL listen port, and SSL enabled. The first row is selected.

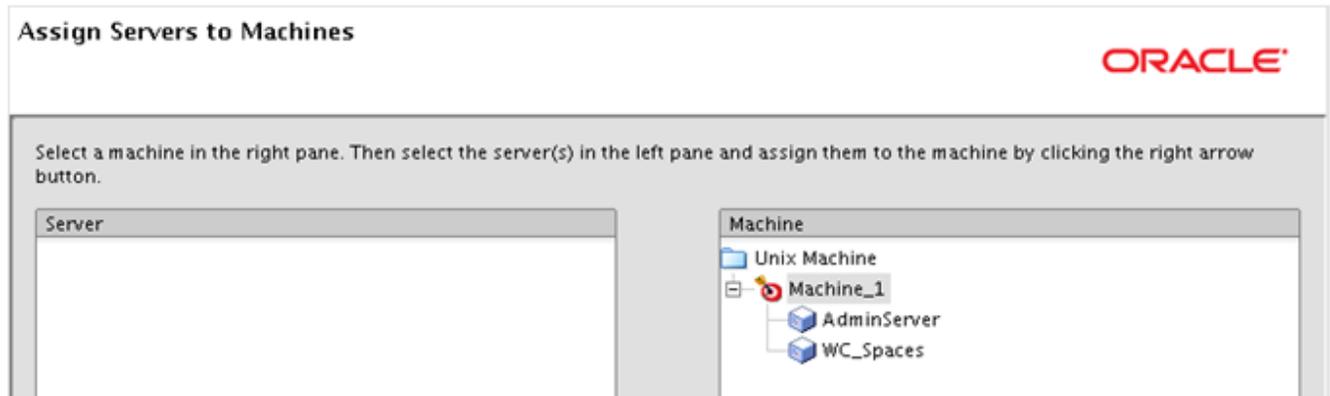
	Name*	Listen address*	Listen port	SSL listen port	SSL enabled
→ 1	WC_Spaces	All Local Addresses	8888	N/A	<input type="checkbox"/>

24. Accept the default Managed Server name and port.
25. Click **Next** to skip the cluster configuration.

A table showing the configuration for a Machine. The table has the following columns: Name*, Post bind GID en..., Post bind G..., Post bind UID en..., Post bind U..., Node manager listen..., and Node manager list... The first row is selected.

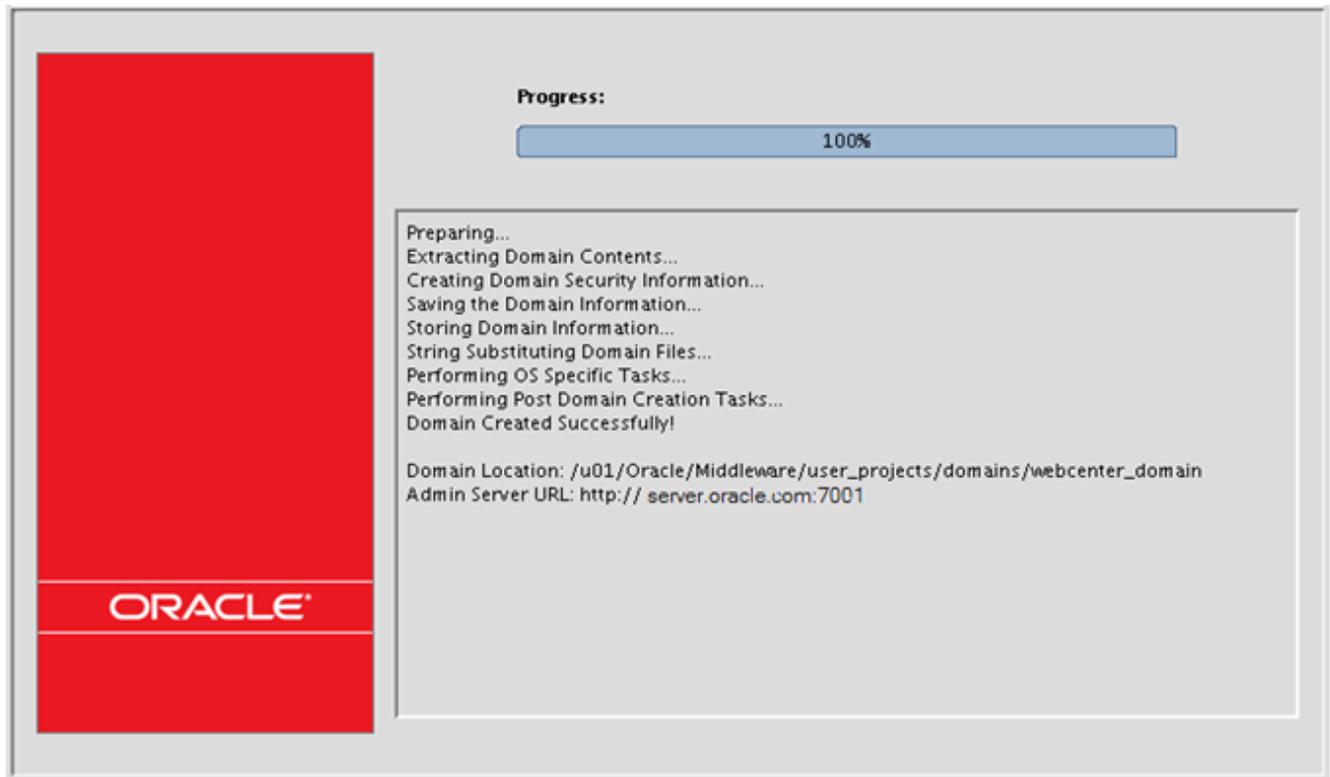
	Name*	Post bind GID en...	Post bind G...	Post bind UID en...	Post bind U...	Node manager listen...	Node manager list...
→ 1	Machine_1	<input type="checkbox"/>	nobody	<input type="checkbox"/>	nobody	localhost	5556

26. From the Configure Machines page, select your platform and click **Add** to create a Machine name.



27. Assign Server to the Machine by moving the server in the left to the right under the Machine name.

28. Review the Configuration Summary and click **Create**.



29. Click **Done** when the domain is created.

Post Installation Configuration

This section discusses:

- Applying the Required Patches
- Starting the WebLogic Administration Server

Applying the Required Patches

The following patches are required:

- p6880880 - Obtain the latest Opatch version (11.1.0.8.3 or higher)
- p18712656 - Microsoft Internet Explorer 11 support (Must apply before Bundle Patch)
- p19194669 - WebCenter 11.1.1.8.0 Bundle Patch 5

Please follow the instructions on each patch when applying these patches.

Starting the WebLogic Administration Server

To start the Weblogic Administration Server:

1. Start the WebLogic Admin Server (`startWebLogic.sh(.cmd)`) from `<MW_Home>\user_projects\domains\<webcenter_domain>\bin` folder.
2. Start WebLogic NodeManager (`startNodeManager.sh(.cmd)`) from `<MW_home>\wlserver_10.3\server\bin`.
3. The `startNodeManager` process creates a `nodemanager.properties` file in `<MW_home>\wlserver_10.3\common\nodemanager` folder.
4. Once the file is created, run `setNMProps.sh(.cmd)` from `<MW_home>oracle_common\common\bin` folder.

Note: Another option is that you can edit the `nodemanager.properties` by opening the file with an editor and change `StartScriptEnabled` to **true**.

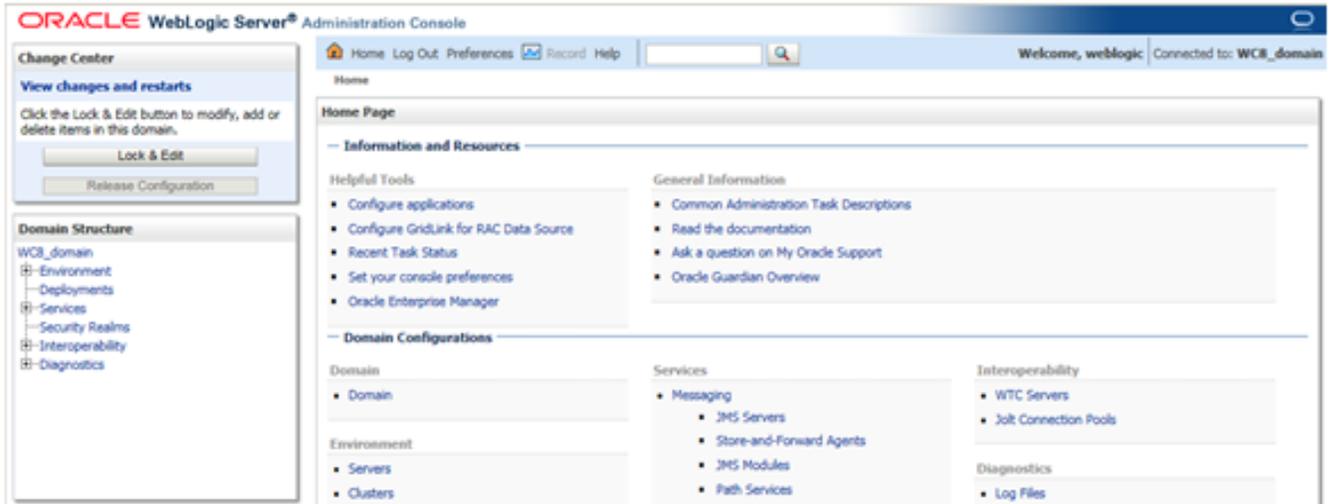
Note: WebCenter Portal Enterprise Manager will not start correctly if this value is not set.

5. After the value is changed, you must stop and restart NodeManager.

6. Start the domain Admin Server and WC_Spaces.



7. After the Admin Server is started, you can access the domain console, Enterprise Manager, and WebCenter Portal.



`http://server:7001/console` (Domain Console)

o



Application Server

ORACLE 11^g
FUSION MIDDLEWARE

- [Welcome](#)
- [Skip Software Updates](#)
- [Prerequisite Checks](#)
- [Installation Location](#)
- Application Server**
- [Installation Summary](#)
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- [Installation Complete](#)

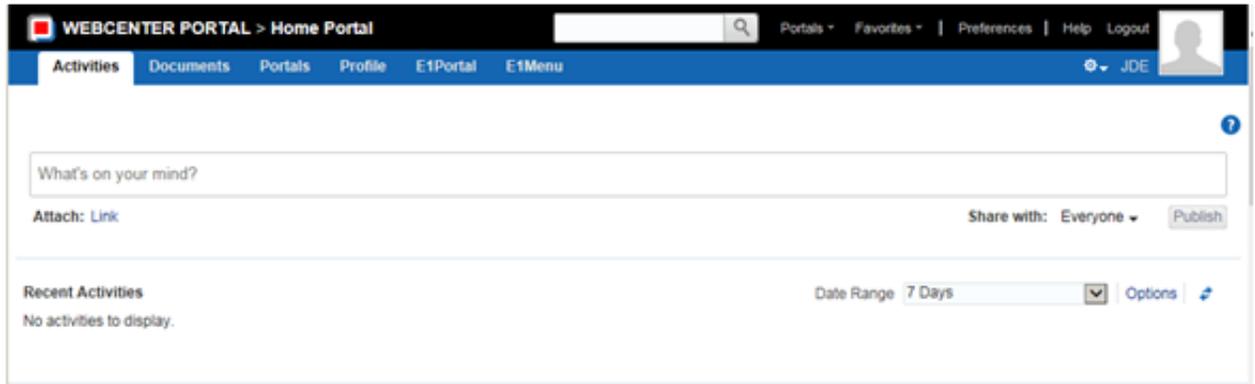
WebLogic Server

WebSphere

Application Server Location

WLS installation detected, WebLogic Server support available in this Middleware Home.

`http://server:7001/em` (Enterprise Manager)



`http://server:8888/webcenter`



8. Click **About WebCenter Portal** on the bottom right to verify the version level.

Note: The bundle patch level will not be displayed. You will have to use the OPatch command "opatch lsinventory" to verify the patch.

Configuring the External LDAP Server

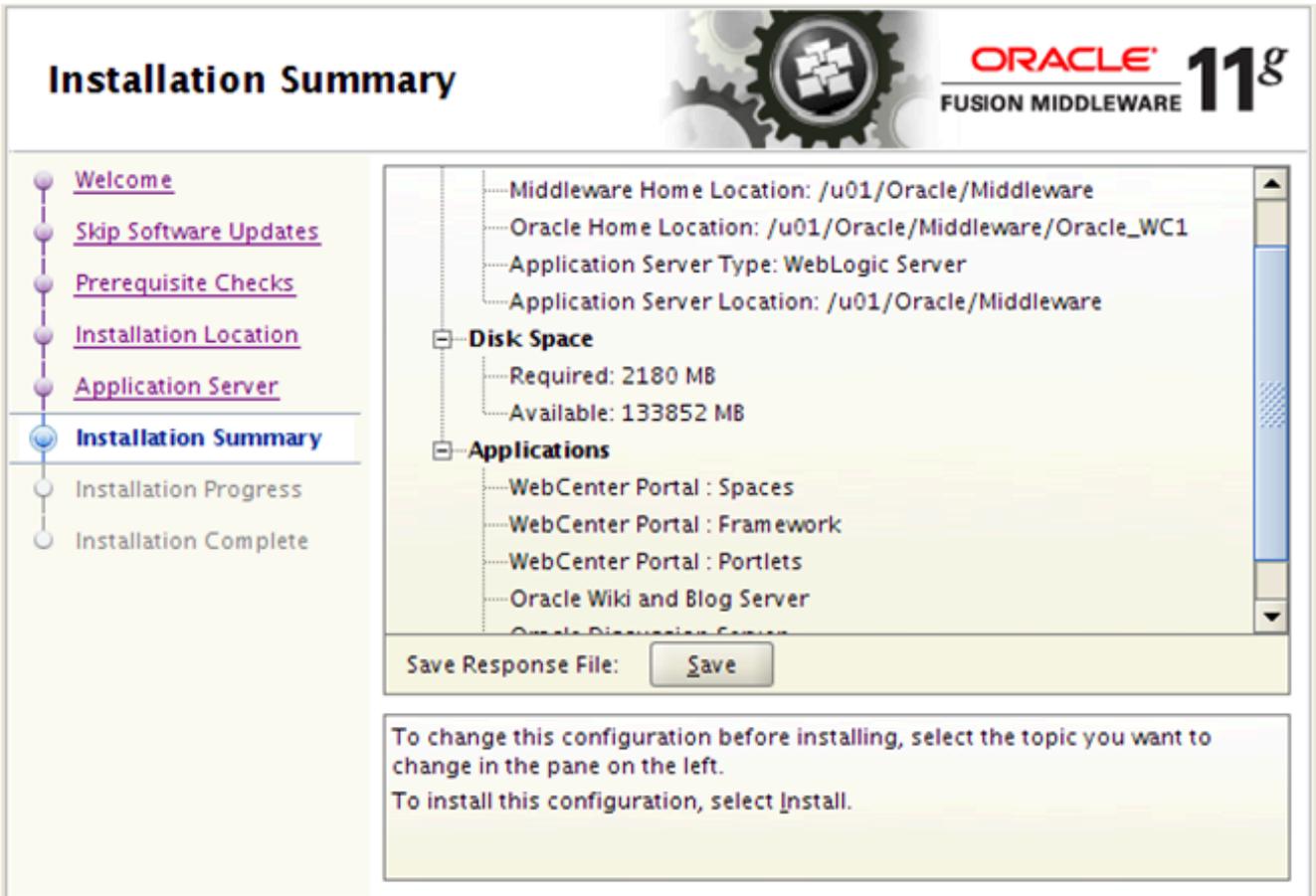
Oracle WebCenter comes with an embedded OID LDAP server. This embedded server should not be used for a production environment. You should configure an external LDAP server such as Oracle Internet Directory (OID) or other 3rd party LDAP server.

Configuring the Oracle Internet Directory Authenticator

In order to configure Oracle Internet Directory as an external LDAP server, you must have it installed and functioning.

Use these steps to configure the Oracle Internet Directory Authenticator.

1. Login to the WebLogic Server Administration Console.
2. From the Domain Structure pane, click **Security Realms**.



3. Select the **myrealm** entry to configure the OID authenticator.
4. Select the **Providers** tab.
5. Click **Lock and Edit**.

6. Click **New** to create a provider.

The name of the authentication provider.

* **Name:**

This is the type of authentication provider you wish to create.

Type: 

7. Enter a name for the new provider (for example, OIDProvider).
8. Select **OracleInternetDirectoryAuthenticator** as the type, and then click **OK**.
9. On the **Providers** tab, click the newly added provider. The common setting pane appears.

This page displays basic information about this Oracle Internet Directory Authentication provider. this provider is used in the login sequence.

 Name:	OIDProvider
 Description:	Provider that performs LDAP authentication
 Version:	1.0
 Control Flag:	<input type="text" value="SUFFICIENT"/> 

10. Set the control flag to **SUFFICIENT** and click **Save**.

Use this page to define the provider specific configuration for this Oracle Internet Directory Authentication provider.

Connection

Host: The host name or IP address of the LDAP server. [More Info...](#)

Port: The port number on which the LDAP server is listening. [More Info...](#)

Principal: The Distinguished Name (DN) of the LDAP user that WebLogic Server should use to connect to the LDAP server. [More Info...](#)

Credential: The credential (usually a password) used to connect to the LDAP server. [More Info...](#)

Confirm Credential:

SSLEnabled Specifies whether the SSL protocol should be used when connecting to the LDAP server. [More Info...](#)

Users

User Base DN: The base distinguished name (DN) of the tree in the LDAP directory that contains users. [More Info...](#)

All Users Filter: An LDAP search filter for finding all users beneath the base user distinguished name (DN). Note: If you change the user name attribute to a type other than cn, you must duplicate that change in the User From Name Filter and User Name Attribute attributes. [More Info...](#)

User From Name Filter: An LDAP search filter for finding a user given the name of the user. The user name attribute specified in this filter must match the one specified in the All Users Filter and User Name Attribute attributes. [More Info...](#)

User Search Scope: Specifies how deep in the LDAP directory tree the LDAP Authentication provider should search for users. [More Info...](#)

User Name Attribute: The attribute of an LDAP user object class that specifies the name of the user. The user name attribute specified must match the one specified in the All Users Filter and User From Name Filter attributes. [More Info...](#)

User Object Class: The LDAP object class that stores users. [More Info...](#)

Use Retrieved User Name as Principal Specifies whether or not the user name retrieved from the LDAP server should be used as the Principal in the Subject. [More Info...](#)

11. Open the **Provider Specific** tab.

Field	Value	Comment
Host:	The host ID for the LDAP server	

Field	Value	Comment
Port:	The LDAP server port number	
Principal:	The LDAP administrator principal	
Credential:	<password>	The administrator principal password
Confirm Credential:	<password>	
User Base DN:	User Search Base	
All User Filter:	(&(uid=*)(objectclass=person))	
User Name Attribute	uid	
Group Base DN:	Group search base - same as user base DN	
Use Retrieved User Name as Principal	Checked	User login IDs are usually case insensitive. This flag is required so that the subject established contains the user name as stored in the OID.

12. Complete the fields as shown in the table below. Leave the rest of the fields set to their default values.
13. Click **Save**.

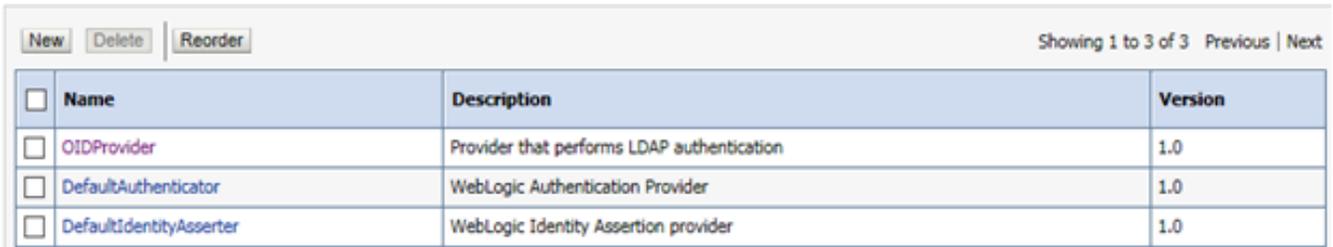
Configuring the Default Authenticator and Provider Order

After configuring the OID Authenticator, ensure that the default authenticator's control flag is set to SUFFICIENT and reorder the providers.

Use these steps to configure the default authenticator and provider order:

1. Navigate to the Provider Settings pane.
2. Open the Default Authenticator and set the control flag to **SUFFICIENT**.

3. Do the same for any providers that you might have.



The screenshot shows a web interface for managing providers. At the top, there are buttons for 'New', 'Delete', and 'Reorder'. On the right, it says 'Showing 1 to 3 of 3' with 'Previous' and 'Next' links. Below this is a table with three columns: 'Name', 'Description', and 'Version'. Each row has a checkbox in the first column.

<input type="checkbox"/>	Name	Description	Version
<input type="checkbox"/>	OIDProvider	Provider that performs LDAP authentication	1.0
<input type="checkbox"/>	DefaultAuthenticator	WebLogic Authentication Provider	1.0
<input type="checkbox"/>	DefaultIdentityAsserter	WebLogic Identity Assertion provider	1.0

4. On the Setting Pane, reset the provider order to:

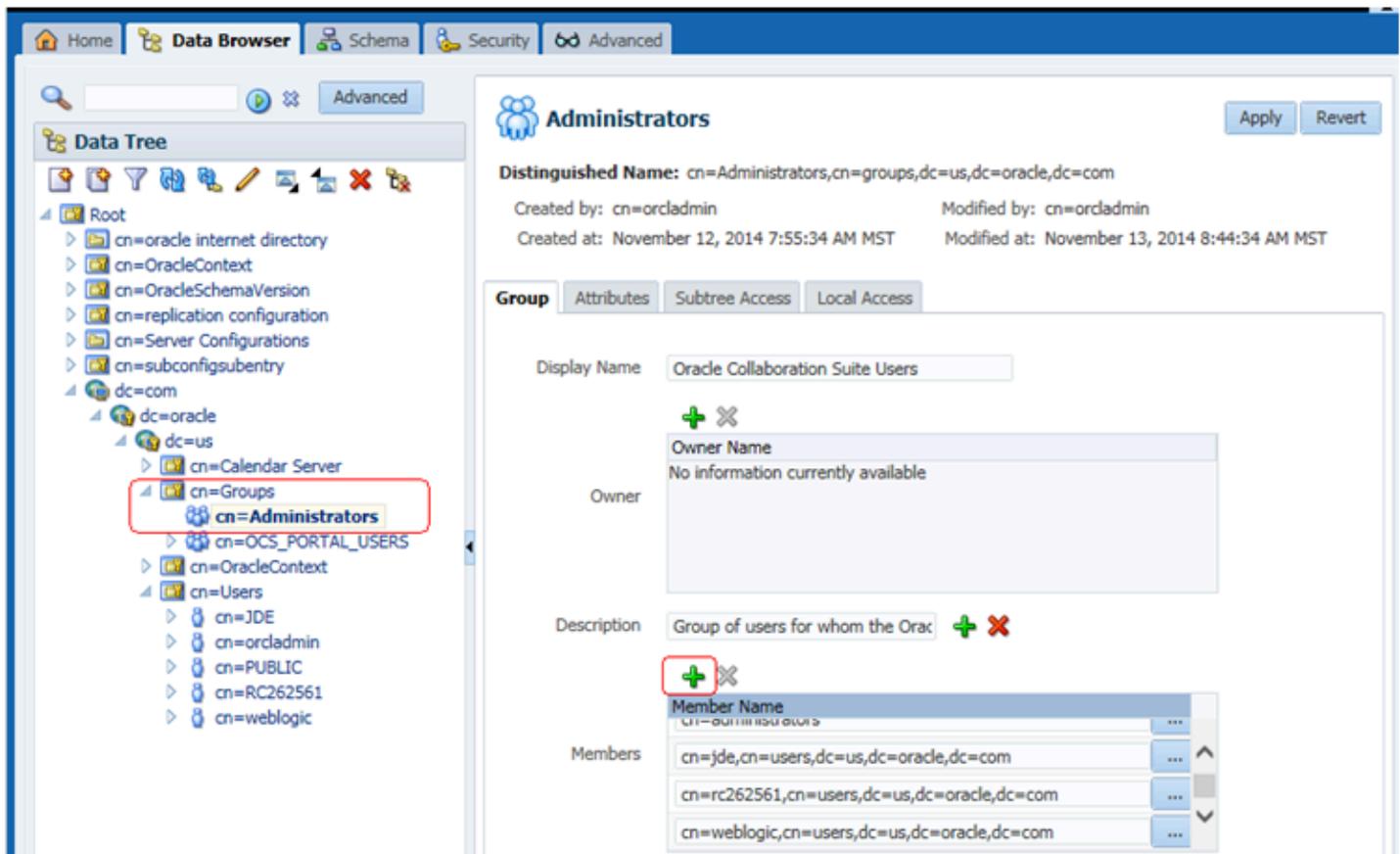
- OIDProvider (SUFFICIENT)
- DefaultAuthenticator (SUFFICIENT)
- DefaultIdentityAsserter

Note: If your WebLogic user is not part of the OID Administrators group, you will not be able to restart the WebLogic Admin Server.

You can use the following steps to add an Administrators group and add your user from OID.

1. Connect to Oracle Directory Manager, <http://host:port:7005/odsm>.
2. Create a new Group, Administrators. You can use the Create Like option.

3. Add your admin user to this group.



Now, you should be able to start the WebLogic Admin Server.

Configuring Oracle HTTP Server for WebCenter Portal

After you install and configure Oracle HTTP Server, you will then configure the Oracle HTTP server for WebCenter Portal.

Use the following example to configure *mod_wl_ohs.conf*. Verify that WebLogic port numbers match your configuration.

```
# WebCenter Portal
```

```
<Location /webcenter>  
    SetHandler weblogic-handler  
    WeblogicHost    webcenter.example.com  
    WeblogicPort    8888  
</Location>
```

After you edit the *mod_wl_ohs.conf* file, restart the HTTP server from *MW_Home/instance/instance1/bin* folder:

```
>./opmnctl startall
```

Now you can access WebCenter Portal using the HTTP port; for example,

```
http://myserver.com:7777/webcenter
```


4 Understanding WSRP

Understanding WSRP

This chapter helps you understand WSRP.

Understanding WSRP

This part of the guide covers the JD Edwards EnterpriseOne portal solution for Oracle WebCenter 11g based on the Web Services for Remote Portlets (WSRP) standards. Refer to *EnterpriseOne Portal Solutions Overview* in this guide for other portal solutions available with EnterpriseOne. This solution is only available for JD Edwards EnterpriseOne Application Release 9.0 with Tools Release 8.98.3 and beyond.

Two foundational terminologies in WSRP standards are Producer and Consumer.

The Producer is a web service that offers one or more portlets and implements various WSRP interfaces and operations. In the JD Edwards EnterpriseOne solution, the JD Edwards EnterpriseOne HTML Web Server is the WSRP producer.

Note: For the Oracle WebCenter Spaces solution, only the WebLogic Server is supported as a Producer for Oracle WebCenter.

The Consumer is a web service client that invokes producer-offered WSRP web services and provides an environment for users to interact with portlets offered by one or more producers. In the JD Edwards EnterpriseOne solution, the Oracle WebCenter is the WSRP consumer that is used to display and group multiple JD Edwards EnterpriseOne portlets as well as portlets provided by other WSRP producers.

Note: Server Manager must be used to deploy the EnterpriseOne HTML Web Client as a WSRP/Portal producer.

5 Administering WSRP with Oracle WebCenter

Configuring Oracle WebCenter Portal for EnterpriseOne

Oracle WebLogic Server: Effective with JD Edwards EnterpriseOne Tools Release 8.98.4, Oracle WebLogic Server 10.3.x is supported as a producer.

Effective with JD Edwards EnterpriseOne Tools Release 9.2.6, Oracle WebLogic Server 12.2.1.4 is supported as a producer.

Oracle WebLogic Administration Server needs to be running in order to register a WSRP producer. The Oracle WebCenter Enterprise Manager is part of the Oracle WebLogic Administration Server. They both use the same admin port.

Note: For information specific to Oracle WebCenter Portal 12c, refer to *Configuring Oracle WebCenter Portal Domain* in the Oracle Fusion Middleware Installing and Configuring Oracle WebCenter Portal, 12c (12.2.1.4.0) Guide.

Starting the WebLogic Node Manager

Starting Node Manager on a machine that hosts Managed Servers allow you to start and stop the Managed Servers remotely using the Administration Console or the command line. Node Manager can also automatically restart a Managed Server after an unexpected failure.

Note: For information specific to Oracle WebCenter Portal 12c, refer to *Configuring Oracle WebCenter Portal Domain* in the Oracle Fusion Middleware Installing and Configuring Oracle WebCenter Portal, 12c (12.2.1.4.0) Guide.

The steps below are for UNIX and Microsoft Windows platforms, respectively.

Note: Normally the Node Manager is running with the default port 5556.

#To start Node Manager on UNIX Systems:

Start the Node Manager by running this script:

```
MW_Home/wlserver_10.3/server/bin/startNodeManager.sh
```

To start Node Manager on Microsoft Windows Systems:

Start the Node Manager by running this script:

```
MW_Home\wlserver_10.3\server\bin\startNodeManager.cmd
```

Starting the WebLogic Administration Server

The steps below are for UNIX and Microsoft Windows platforms, respectively.

Note: For information specific to Oracle WebCenter Portal 12c, refer to *Configuring Oracle WebCenter Portal Domain* in the Oracle Fusion Middleware Installing and Configuring Oracle WebCenter Portal, 12c (12.2.1.4.0) Guide.

Starting WebLogic Administration on UNIX Systems

To start WebLogic Administration on UNIX Systems:

1. Run this script in the directory where you create your new domain: startWebLogic.sh - The default location is: MW_HOME/user_projects/domains/your_domain/bin.
2. Before the server is started, you will be prompted for the WebLogic Admin Server user and password. If you do not want the server to prompt for user and password, you can create a boot.properties in this folder: MW_HOME/user_projects/domains/your_domain/servers/AdminServer/security. You might need to create the security folder if it does not exist.

Starting WebLogic Administration on Microsoft Windows Systems

To start WebLogic Administration on Microsoft Windows Systems:

1. Run this script in the directory where you create your new domain: startWebLogic.cmd The default location is: MW_HOME\user_projects\domains\your_domain
2. Before the server is started, you will be prompted for the WebLogic Admin Server user and password. If you do not want the server to prompt for user and password, you can create a boot.properties in this folder: MW_HOME\user_projects\domains\your_domain\servers\AdminServer\security You might need to create the security folder if it does not exist.

Modifying the boot.properties file

To modify the boot.properties file:

The boot.properties should contain two entries. For example:

- username=weblogic
- password=<password>

You should replace the username and password entries with values that are valid for your installation.

Note: Both parameters (username and password) must be entered in lowercase.

The information in this file will be encrypted after the first use. You can use the same file for other managed server configuration.

Associate a Machine to a Server

In order to start a managed server from the Administration Console, you must first create a machine and then associate the managed server with that machine.

Note: For information specific to Oracle WebCenter Portal 12c, refer to *Configuring Oracle WebCenter Portal Domain* in the Oracle Fusion Middleware Installing and Configuring Oracle WebCenter Portal, 12c (12.2.1.4.0) Guide.

1. Login to the Oracle WebLogic Administration Console. For example:

```
http://host:7001/console
```

2. Navigate to **Environment > Machines**.
3. Click the **Lock & Edit** button.
4. Click the **New** button.
5. Click the **New** button.
6. Enter a machine name. For example: **Machine-WC** .
7. Select the machine name you just created, select **Target** tab, and associate this machine to your managed servers.
8. Click the **Activate Changes** button.

Starting the Oracle WebCenter Portal

Once a managed server is associated to a machine, you can select the server to start.

1. Navigate to **Environment > Servers**.
2. Select the **Control** tab.
3. Select the Managed Server you want to start.
4. Click the **Start** button.

Verifying Configuration File Settings

WSRP Producer registration will fail unless these JD Edwards configuration settings are correctly set. Edit these settings through EnterpriseOne Server Manager.

Enter a valid Enterprise user and a valid environment in the JDBJ Bootstrap Session.

Enter a correct Path Code and Default Environment. Compression must be off on the WSRP producer.

Registering the WSRP Producer

EnterpriseOne WSRP Portlets can be registered using Enterprise Manager or WebCenter Console.

Registering a New WSRP Producer for Oracle WebCenter Using Enterprise Manager

To register a New WSRP Producer for Oracle WebCenter Using Enterprise Manager:

1. Open a browser.
2. Enter the Enterprise Manager URL. For example:
`http://host:7001/em`
Note: The port number is the same as the WebLogic Admin Console.
3. Enter the Admin user and password.
4. From the node structure in the left pane, expand WebCenter > WebCenter Spaces and then click on **webcenter (WC_Spaces)**.
5. Click the **WebCenter** drop down menu and select **Settings -> Service Configuration**.

6. Select **Portlet Producers** and then click **Add**.
7. On Add Portlet Producer Connection, enter the WSRP URL where the EnterpriseOne HTML web server is running.

For WebLogic Server:

If the web server is running on the WebLogic Server, then you would follow this format:

```
http://<host>:<port>/jde/wsd1/WSRP_v1_Service.wsdl
```

Note: If you are planning to use the SSL configuration, you must import the certificate from the WSRP producer to WebCenter Portal keystore.

8. On Add Portlet Producer Connection, increase the **Default Execute Timeout** to about 300 seconds; otherwise the registration might fail due to network performance.

Registering the WSRP Producer using the HTTPS Protocol

To register the WSRP Producer using the HTTPS Protocol:

1. Edit the WSRP_v1_Service.wsdl file from the Producer with the HTTPS protocol and port in these two locations:

```
ORACLE_HOME/user_projects/domains/<domain>/servers/<server>/stage/<instance>/app/webclient.war/wsd1
folder
```

```
JDE_Agent_Home/targets/<instance>/owl_deployment/webclient.ear/app/webclient.war/wsd1 folder
```

```
<service name="WSRP_v1_Service">
  <port name="WSRPBaseService" binding="bind:WSRP_v1 Markup_Binding_SOAP">
    <soap:address location="https://myserver.com:86/jde/WSRPBaseService"/>
  </port>
  <port name="WSRPServiceDescriptionService" binding="bind:WSRP_v1 ServiceDescription_Binding_SOAP">
    <soap:address location="https://myserver.com:86/jde/WSRPServiceDescriptionService"/>
  </port>
</service>
```

2. Export the certificate from the Producer using the 'Base-64 encoded X.509' format.
3. Copy the Producer certificate to the WebCenter Portal machine.
4. Import the Producer certificate using the Java Keytool utility from the WebCenter Portal machine. For example:

```
keytool -importcert -trustcacerts -alias producerkey -file /tmp/producer.cer -keystore /java/jre/lib/
security/cacerts
```

5. Enter the keystore password.
6. Verify and accept the certificate.
7. A successful message should display: **Certificate was added to keystore.**
8. Restart the WebCenter Portal server and register the Producer.

Registering a New WSRP Producer for Oracle WebCenter Using WebCenter Console

You can also register a Portlet Producer from the WebCenter Console instead of using the Enterprise Manager Console as described in the previous section. You must sign on as a WebCenter Administrator:

`http://host:8888/webcenter`

To register a Portlet Producer from the WebCenter:

1. Login to WebCenter Portal.
2. Select Administration tab - Tools and Services - Portlet Producers.
3. Click **Register** to add a new producer or **Edit** to change the settings for a existing producer.
4. Enter the WSDL and click the **Test** button to verify the server connection.
5. Set the default execution timeout to 300 seconds. Adjust this value based on your network traffic.
6. Once the producer is registered, you can return to your page and add the portlet from this producer.

Reviewing the Existing WSRP Registration on Your System

To review the existing WSRP registration on your system:

1. On the WebCenter Portal dropdown menu, select **Settings > Service Configuration**.
2. On WebCenter Service Configuration, select **Portlet Producers** to display all of the existing Producers.

Adding Portlets from the WSRP Producer to a Page

Once the WSRP Producer is registered, you are now ready to add the EnterpriseOne Portlets to Oracle WebCenter Portal.

To create a JD Edwards EnterpriseOne user on WebCenter:

Note: In order to access JD Edwards EnterpriseOne Portlets, this user must be a valid JD Edwards EnterpriseOne user. If you have configured an external LDAP server, then users must be added from the LDAP server.

1. Create a JD Edwards EnterpriseOne user on WebCenter from the Administration Console.
2. Open a browser, access the Oracle WebLogic Server Administration Console. For example:
`http://host:port/console`
3. Navigate to **Security Realms > myrealm**.
4. Select the **Users and Groups** tab.
5. Click the **New** button and enter the new user information.
6. Select your LDAP provider. Select **DefaultAuthenticator** for the default embedded OID server.
7. Click the **OK** button to save the information.

Accessing the Oracle WebCenter

To access the Oracle WebCenter:

1. From a browser, access your WebCenter URL. For example: `http://host:8888/webcenter` where 8888 is the default WebCenter port.
2. Enter the user and password. In order to access EnterpriseOne Portlets, this user must be an EnterpriseOne user.
3. Select **Create Page** from the Page Actions option on upper right.
4. Select the **Page** option.
5. Enter the **Page Name** and select **Blank** as the Page Style, and then click **Create**.
6. An empty page will be created.
7. Select the **UI Components** from the Catalog Search panel.
8. On Catalog, select the **Portlets** component.
9. Select your Producer from the list.
10. Select the EnterpriseOne Portlet from the list and click **Add**.
11. Select the **Edit** icon (wrench button in the top right corner of the portlet) for each portlet and use the pulldown to change the value for **Render Portlet In I Frame** to **True** from the Display Option tab, where the default is value is set to **Auto**.

Note: You must change this setting for each portlet.
12. When the values for each portlet are changed, click the **Save** button.
13. Click the **Close** button.

This completes the steps necessary to access the JD Edwards EnterpriseOne portlets.

Additional Requirements for the E1Menu Portlet

The E1Menu portlet should not be associated with any other portlets on the same page.

Additional settings are required for the E1Menu portlet on Oracle WebCenter Portal.

To add these additional settings:

1. Select the **Edit** icon from the page (not the one from the portlet).
2. Change the Layout to **stretch** from the Display Options tab.
3. Click **Apply**.
4. Change the Width to 100% and Height to 650px (you can adjust the height value based on your display size).
5. Click **Apply** and click **OK**.
6. Click **Save** and **Close**.
7. Launch the E1Menu Portlet and verify the configuration.

6 Appendix A - Create Database Schemas with Repository Creation Utility

Create Database Schemas with Repository Creation Utility

This appendix discusses creating database schemas with Repository Creation Utility (RCU) 11.1.1.8.0. Prior running this utility, you must have a functioning database such as Oracle database 11g or 12c. RCU is available on only Windows and Linux platforms, but you can create schemas on other supported platforms.

The version of the Repository Creation Utility MUST match the product you are installing.

Note: For information specific to Oracle WebCenter Portal 12c, refer to *Configuring Oracle WebCenter Portal Domain* in the Oracle Fusion Middleware Installing and Configuring Oracle WebCenter Portal, 12c (12.2.1.4.0) Guide.

Prerequisites

- You must have a database installed and configured.

If your existing database is not UTF-8 format, you will get a warning message that you can ignore.

If you are installing a new database, set it to use UTF-8 format.

- You must alter these Oracle database parameters:
 - Alter system set processes=500 scope=spfile
 - Alter system set open_cursors=800 scope=spfile
 - Restart database before running RCU

Launching the Repository Creation Utility

Use these steps to launch the Repository Creation Utility.

1. Download and unzip the *Oracle Fusion Middleware Repository Creation Utility 11g for Windows or Linux* file.
2. Run rcu.bat on Windows or rcu on UNIX from rcuHome/bin folder.

3. Click **Next** on the Welcome page.

The screenshot shows a dialog box titled "Middleware Home Type" with two radio button options: "Use an existing Middleware Home" (unselected) and "Create a new Middleware Home" (selected). To the right of these options is a large empty rectangular area. Below the options is a section titled "Middleware Home Directory" containing a text input field with the path "/u01/Oracle/Middleware" and two buttons: "Browse..." and "Reset".

4. Select the **Create** option and click **Next**.

The screenshot shows the 'Database Connection Details' form. On the left is a navigation pane with the following items: Welcome, Create Repository, Database Connection Details (highlighted), Select Components, Schema Passwords, Map Tablespaces, Summary, and Completion Summary. The main form area contains the following fields:

- Database Type: Oracle Database (dropdown)
- Host Name: database_server (text input). Below the input is the text: 'For RAC database, specify VIP name or one of the Node name as Host name. For SCAN enabled RAC database, specify SCAN host as Host name.'
- Port: 1521 (text input)
- Service Name: ORCL (text input)
- Username: sys (text input). Below the input is the text: 'User with DBA or SYSDBA privileges. Example: sys'
- Password: [masked with asterisks] (password input)
- Role: SYSDBA (dropdown). Below the dropdown is the text: 'One or more components may require SYSDBA role for the operation to succeed.'

5. Enter the database connection information.

The screenshot shows the 'Repository Creation Utility - Checking Prerequisites' dialog box. It has a title bar with a close button. The main content area is titled 'Checking Global Prerequisites' and contains a table with the following data:

✓ Initializing repository configuration metadata	00:00.672(ms)
✓ Obtain properties of the specified database	00:00.235(ms)
✓ Check requirement for specified database	00:00.422(ms)
✓ Execute pre create operations	00:00.125(ms)

Below the table is a progress bar and the text: 'Operation completed. Click OK to continue to next page.' An 'OK' button is located in the bottom right corner.

6. The utility performs a prerequisites check.

A Prefix groups the components associated with one deployment.

Select an existing Prefix

Create a new Prefix

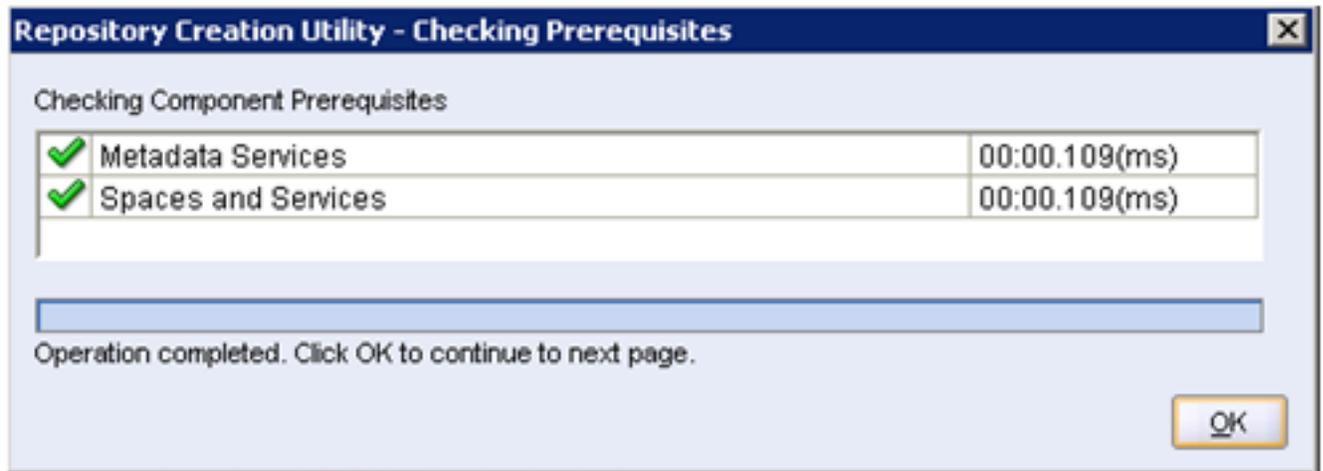
Prefix can contain only alpha-numeric characters. Prefix should not start with a number and should not contain any special characters.

Component	Schema Owner
<input type="checkbox"/> Oracle AS Repository Components	
<input checked="" type="checkbox"/> AS Common Schemas	
<input checked="" type="checkbox"/> Metadata Services	WC8_MDS
<input type="checkbox"/> Audit Services	IAU
<input type="checkbox"/> Audit Services For OES	IAUOES
<input type="checkbox"/> Enterprise Scheduler Service	ESS
<input type="checkbox"/> Oracle Platform Security Services	OPSS
<input type="checkbox"/> Identity Management	
<input type="checkbox"/> WebCenter Content	
<input type="checkbox"/> Oracle Data Integrator	
<input type="checkbox"/> Oracle Business Intelligence	
<input type="checkbox"/> WebLogic Communication Services	
<input type="checkbox"/> SOA and BPM Infrastructure	
<input checked="" type="checkbox"/> WebCenter Portal	
<input checked="" type="checkbox"/> Spaces and Services	WC8_WEBCENTER
<input type="checkbox"/> Portlet Producers	PORTLET
<input type="checkbox"/> Activity Graph and Analytics	ACTMTIES
<input type="checkbox"/> Discussions	DISCUSSIONS
<input type="checkbox"/> Portal and BI	
<input type="checkbox"/> Oracle Social Network	

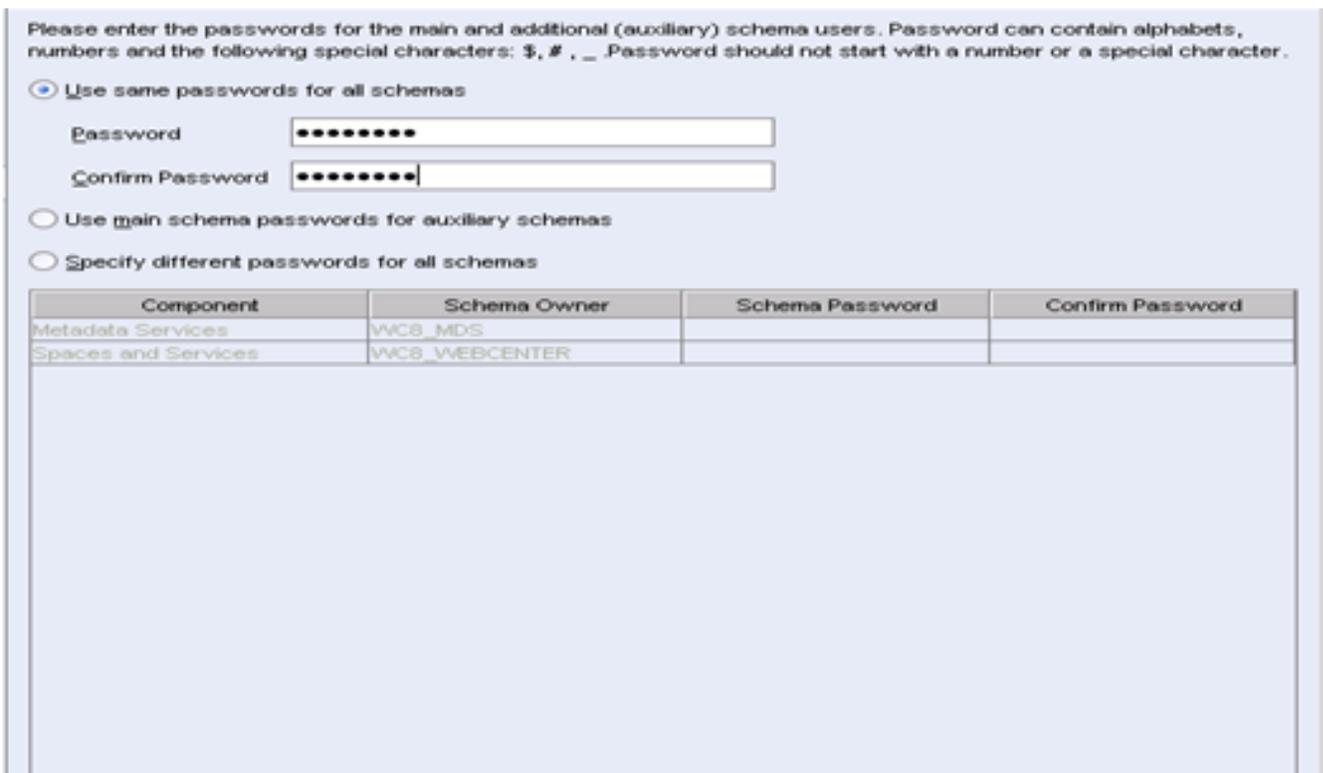
7. On Select Components, enter the prefix that identifies your environment in the **Create a new Prefix** field.

8. In the Component area, select the schemas you need to create.
 - o For WebCenter - select the Spaces and Services from the WebCenter Portal Section.
 - o For OID - If you are planning to use Oracle Internet Directory as your LDAP server, you can select Oracle Internet Directory from the Identity Management section as well.

Note: You can rerun this utility anytime to add more database schemas for other products.



9. The utility performs the prerequisites again.



- Enter the schema passwords.

Choose tablespaces for the selected components. The default and temporary tablespaces are specified in the table below.
To create new tablespaces or modify existing tablespaces click the 'Manage Tablespaces' button.

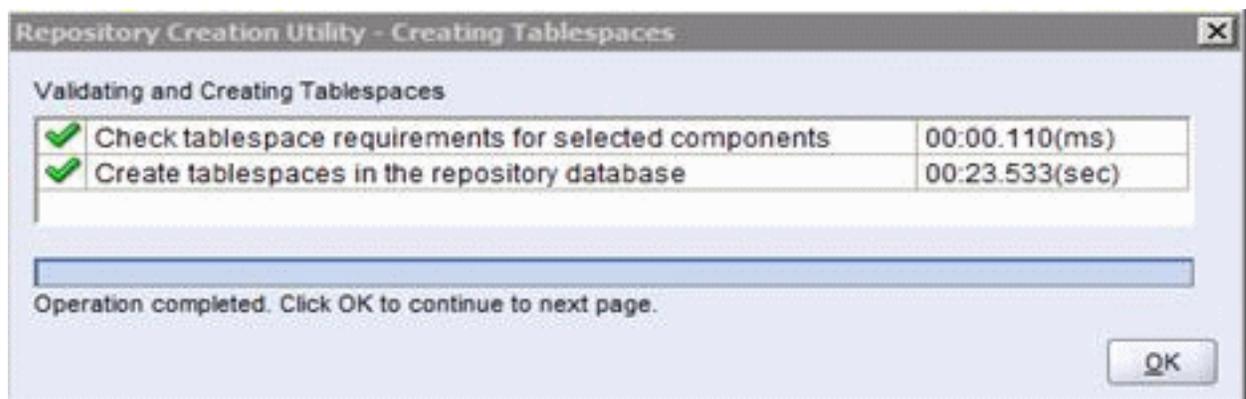
Component	Schema Owner	Default Tablespace	Temp Tablespace
Metadata Services	WC8_MDS	*WC8_MDS	*WC8_IAS_TEMP
Spaces and Services	WC8_WEBCENTER	*WC8_IAS_WEBCENTER	*WC8_IAS_TEMP

- Review the tablespace mapping.

Note: This example shows a different schema prefix than the default, which is DEV.



- The utility creates any tablespaces that do not already exist.



- The utility validates and creates the tablespaces.
- Review the summary.

15. Click **Create** to start the tablespaces creation.



16. Click **Close** to exit Repository Creation Utility.

7 Appendix B - Installing WebLogic Server

Prerequisites

- Install a 64-bit JDK 1.7 based on your platform.
- Add the JDK 1.7 location to the system path.

Installing the WebLogic Server

Use these steps to install WebLogic Server 11g.

Note: For information specific to Oracle WebCenter Portal 12c, refer to *Configuring Oracle WebCenter Portal Domain* in the Oracle Fusion Middleware Installing and Configuring Oracle WebCenter Portal, 12c (12.2.1.4.0) Guide.

1. Run the Oracle WebLogic 10.3.6.0 installer from the image that you downloaded from the Oracle Software Delivery Cloud.

The item name of the installer is Oracle WebLogic Server 11gR1 (10.3.6) Generic and Coherence (V29856-01).

The filename of the installer is: wls1036_generic.jar

For Windows, open a command window

```
> java -jar wls1036_generic.jar
```

On UNIX platforms, the command syntax to run the installer is platform dependent.

For Linux and AIX (non-Hybrid JDK)

```
> java -jar wls1036_generic.jar
```

For Solaris and HP-UX (Hybrid JDK)

```
> java -d64 -jar wls1036_generic.jar
```

2. Click **Next** on the Welcome page.

The screenshot shows a configuration window for the Oracle WebLogic Server installation. It is divided into two main sections:

- Middleware Home Type:** This section contains two radio button options:
 - Use an existing Middleware Home
 - Create a new Middleware Home
- Middleware Home Directory:** This section contains a text input field with the path `/u01/Oracle/Middleware` entered. Below the input field are two buttons: **Browse...** and **Reset**.

3. Click **Create a New Middleware Home** option, and then enter the Home Directory.

Register for Security Updates

Provide your email address for security updates and to initiate configuration manager.



Email:

Use My Oracle Support email address/username

I wish to receive security updates via My Oracle Support

Support Password:

4. Enter the contact information for Security Updates.

Choose Install Type

Select the type of installation you wish to perform.



Typical

 Install the following product(s) and component(s):

- WebLogic Server
- Oracle Coherence

Custom

 Choose software products and components to install and perform optional configuration.

5. Select **Typical** as the installation type.

JDK Selection

JDK(s) chosen will be installed. Defaults will be used in script string-substitution if installed.



[Disgard Changes](#)

Bundled JDK:	Approximate installed size*
	Highlighted item: All selected bundled JDK's: 0.0 KB Total of all selected items: 690.2 MB

*Installer requires free disk space approximately 2x this total

Local JDK:

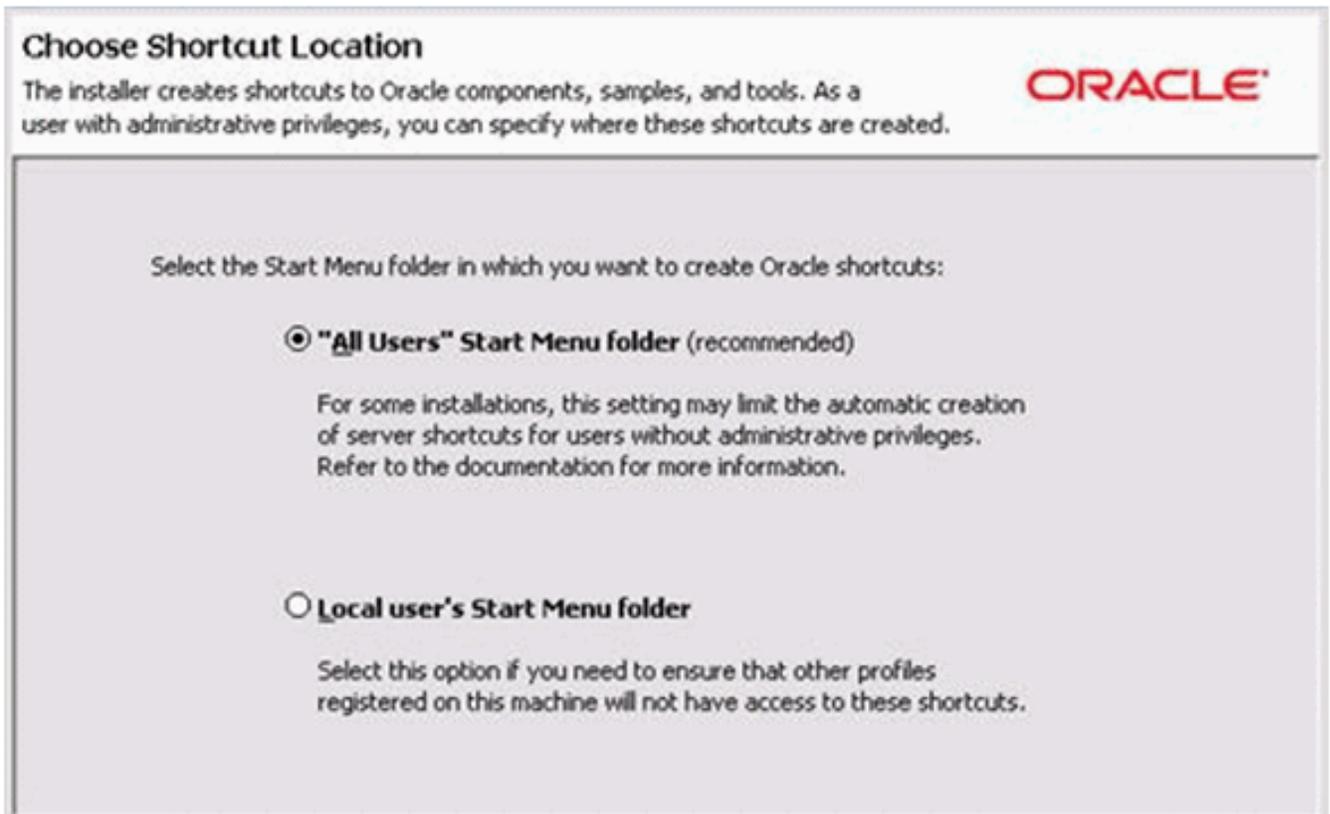
- Oracle 1.7.0_45 (/u01/Oracle/jdk1.7.0)

6. Verify the JDK location.

The screenshot shows a configuration window for Oracle WebLogic Server. At the top right, there is a 'Discard Changes' button. The window is divided into sections. The first section is 'Middleware Home Directory' with the value '/u01/Oracle/Middleware'. The second section is 'Product Installation Directories', which contains a warning: 'The Product Home might contain shared utilities and any products or components for which unique directories are not set.' Below this, there are two rows of configuration. The first row is for 'WebLogic Server' with the path '/u01/Oracle/Middleware/wlserver_10.3' and a 'Browse...' button. The second row is for 'Oracle Coherence' with the path '/u01/Oracle/Middleware/coherence_3.7' and a 'Browse...' button.

Section	Value
Middleware Home Directory	/u01/Oracle/Middleware
Product Installation Directories	The Product Home might contain shared utilities and any products or components for which unique directories are not set.
WebLogic Server:	/u01/Oracle/Middleware/wlserver_10.3 <input type="button" value="Browse..."/>
Oracle Coherence:	/u01/Oracle/Middleware/coherence_3.7 <input type="button" value="Browse..."/>

7. Confirm the install location.



8. On Windows platform, the system prompts you for a shortcut location.

Installation Summary

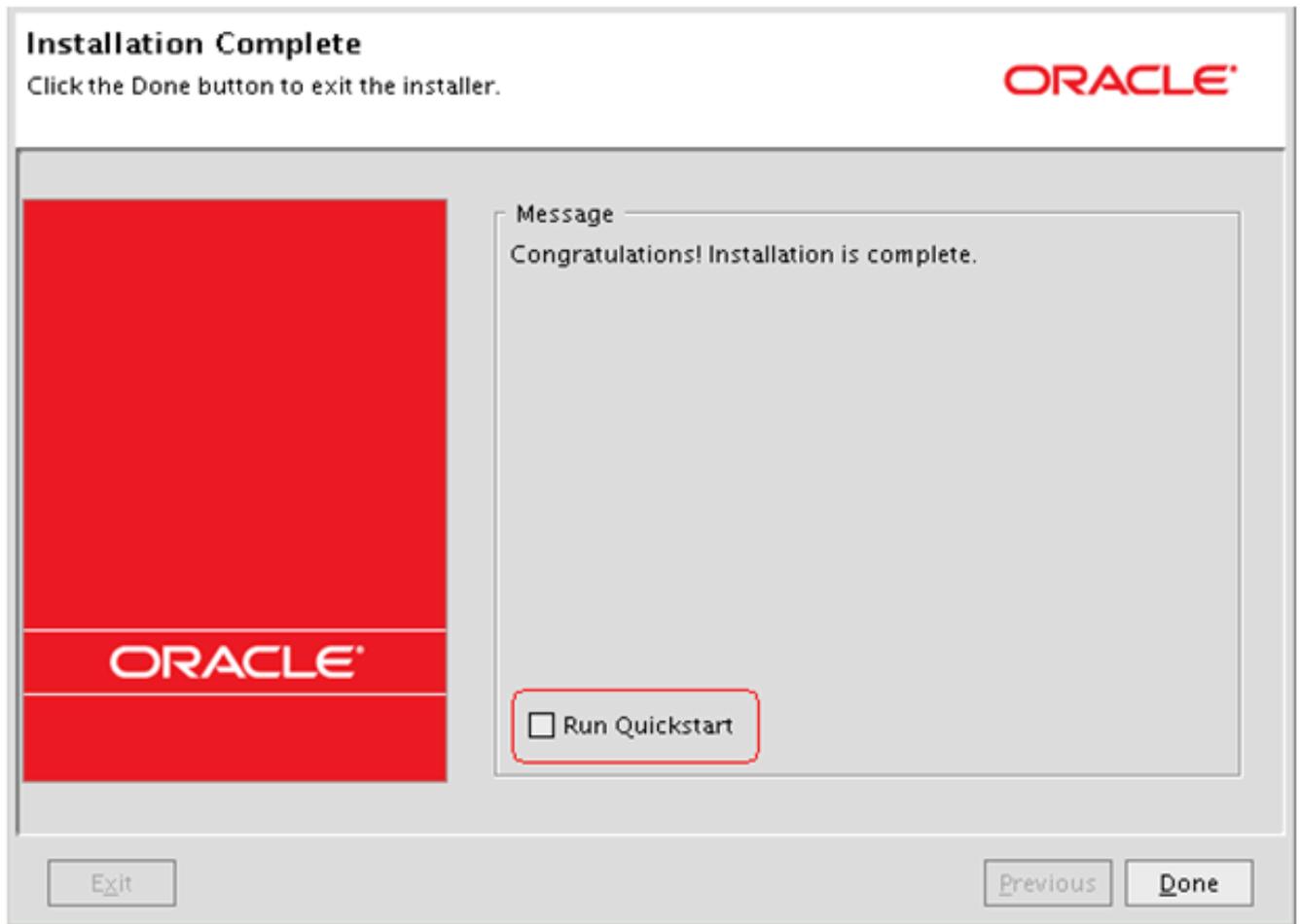
The following Products and JDKs will be installed.

ORACLE

Description
Implements JEE technologies, Web services, and other leading Internet standards, to provide a reliable framework for highly available, scalable, and secure applications.

Approximate Installed Size	
Highlighted item:	693.9 MB
Total of all selected items:	690.3 MB

- Review the Installation Summary page and click **Next**.



- Un-check the **Run Quickstart** option and click **Done**.

Note: A new domain will be created during the WebCenter installation.

8 Glossary

B2B

Abbreviation for business-to-business.

B2C

Abbreviation for business-to-consumer.

B2E

Abbreviation for business-to-employee.

web service

A web service is a software system designed to support communication between two electronic devices over a network.

WSRP

Abbreviation for Web Services for Remote Portlets.

WSRP Consumer

The WSRP Consumer is a web service client that invokes producer-offered WSRP web services and provides an environment for users to interact with portlets offered by one or more producers.

WSRP Producer

The Producer is a web service that offers one or more portlets and implements various WSRP interfaces and operations. In the JD Edwards EnterpriseOne solution, the JD Edwards EnterpriseOne HTML Web Server is the WSRP producer