

Oracle® Revenue Management and Billing

Version 2.9.0.0.0

Reporting Installation Guide

Revision 2.1

F34134-01

August, 2020

Oracle Revenue Management and Billing FOP Reporting Installation Guide

F34134-01

Copyright Notice

Copyright © 2020, Oracle and/or its affiliates. All rights reserved.

Trademark Notice

Oracle, Java, JD Edwards, PeopleSoft, and Siebel are registered trademarks of Oracle Corporation 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 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.

License Restrictions Warranty/Consequential Damages Disclaimer

This software and related documentation provided under a license agreement containing restrictions on use and disclosure, and 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 de-compilation of this software, unless required by law for interoperability, is prohibited.

Warranty Disclaimer

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

Restricted Rights Notice

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

U.S. GOVERNMENT RIGHTS

Oracle programs, including any operating system, integrated software, any programs installed on the hardware, documentation, and/or technical data delivered to U.S. Government end users are “commercial computer software” or “commercial technical data” 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, documentation, and/or technical data shall be subject to license terms and restrictions as mentioned in Oracle License Agreement, and to the extent applicable, the additional rights set forth in FAR 52.227-19, Commercial Computer Software--Restricted Rights (June 1987). No other rights are granted to the U.S. Government.

Hazardous Applications Notice

This software 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 in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy, and other measures to ensure the safe use of this software. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software in dangerous applications.

Third Party Content, Products, and Services Disclaimer

This software 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.

Preface

About This Document

This document will help you to understand the prerequisites, supported platforms, and hardware and software requirements for installing the Oracle Revenue Management and Billing (ORMB) reporting framework.

Intended Audience

This document intended for the following audience:

- End-Users
- System Administrators
- Consulting Team
- Implementation Team

Organization of the Document

The information in this document has organized into the following sections:

Section No.	Section Name	Description
Section 1	Overview	Provides an overview of installing ORMB Reporting Framework.
Section 2	Verifying the Configuration Files	Lists the configuration files and parameters to be verify in respective files before using reporting framework. It also defines the steps to check and update the configuration files.
Section 3	Application Architecture Overview	Provides an overview of the Oracle Revenue Management and Billing architecture.
Section 4	Supported Platforms	Lists the software and hardware requirements for each application tier.
Section 5	Installing ORMB Reporting	Defines the steps to install ORMB Reporting
Section 6	Contacting Oracle Support	Indicates the oracle Support URL

Related Documents

You can refer to the following documents for more information:

Document	Description
<i>Oracle Revenue Management and Billing Version 2.9.0.0.0 Release Notes</i>	Provides a brief description about the new features, enhancements, UI and database level changes, supported platforms, framework upgrade, supported upgrades, and technology upgrade made in this release. It also highlights the discontinued features, bug fixes, and known issues in this release.
<i>Oracle Revenue Management and Billing Installation Guide</i>	Lists the application server pre-requisites, supported platforms, and software and hardware requirements for installing the Oracle Revenue Management and Billing application. It explains how to install the Oracle Revenue Management and Billing application.
<i>Oracle Revenue Management and Billing Database Administrator's Guide</i>	Provides information about the Oracle Database Server and Client required for installing the Oracle Revenue Management and Billing database. It explains how to install database with and without demo data. It provides database configuration guidelines including recommended settings for the Oracle Exadata Database machine.
<i>Oracle Revenue Management and Billing Server Administration Guide</i>	Explains the Oracle Revenue Management and Billing (ORMB) architecture and technical expertise required for configuring and using the ORMB application. It explains how to configure and deploy web and business application servers. In addition, it explains how to monitor client machines, web and/or business application servers, and database connections.
<i>Oracle Revenue Management and Billing Security Guide</i>	Lists the security features available in the Oracle Revenue Management and Billing application. It explains how to configure security for the Oracle Revenue Management and Billing application using the default security features.
<i>Oracle Revenue Management and Billing Bill and Letter Reports Configuration Guide</i>	Explains the ORMB web reporting platform and also lists the benefits of the platform. It also assists in configuring the ORMB Reporting system for generating different reports.
<i>Oracle Revenue Management and Billing Reporting SDK Guide</i>	Lists and describes various FOP reporting SDK features in Oracle Revenue Management and Billing. It also describes all screens related to these features and explains how to perform various tasks in the application.
<i>Oracle Revenue Management and Billing Reporting User Guide</i>	Explains the ORMB reporting process and the various types of frameworks provided by ORMB. It also explains how to use Groovy to generate different reports.

Conventions

The following conventions are used across the document:

Convention	Meaning
boldface	Boldface indicates graphical user interface elements associated with an action, or terms defined in the text.
<i>italic</i>	Italic indicates a document or book title.
monospace	Monospace indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or information that an end-user needs to enter in the application.

Change Log

Revision	Last Update	Updated Section	Comments
2.1	19-Jan-2022	-	Added Bookmarks in PDF

Contents

1. Overview	8
1.1 Installation Overview	8
1.2 Application Architecture Overview	8
2. Verifying the Configuration Files	10
3. Update spl Template File	12
4. Installing ORMB Reporting Module	13
4.1 Prerequisites	13
4.2 How to Install ORMB Reporting?	13
4.3 Oracle WebLogic	17
5. Oracle Support	17

1. Overview

This section provides information on how to install Oracle Revenue Management and Billing (ORMB) Reporting Framework.

1.1 Installation Overview

Installing Oracle Revenue Management and Billing Reporting Framework involves the following steps:

1. Verifying and updating configuration files, which include key parameters required for generating reports as, described in [Verifying Configuration Files](#) section.
2. Review different tiers of the application architecture as described in the [Application Architecture Overview](#) section.
3. Understand hardware requirements for installing the application and the supported platforms for the application and database servers, as described in the [Supported Platforms and Hardware Requirements](#) section.

Note: For more information, refer *Oracle Revenue Management and Billing Database Administrator's Guide*.

1.2 Application Architecture Overview

The application is split into multiple tiers:

Tier 1: Browser-Based Client

Oracle Revenue Management and Billing supports the following operating systems:

- Windows 7, 8.1, 10 (64-bit)

The following operating system and web browser combinations are supported:

- Windows 7, 8.1, 10 (64-bit) with Internet Explorer 11.x (not in the Compatibility mode)

Tier 2: Web Application Server

Oracle Revenue Management and Billing supports the following Web application servers:

- Oracle WebLogic

Tier 3: Database Server

Oracle Revenue Management and Billing supports Oracle Database Server. Please see Oracle Revenue Management and Billing Server Administration Guide for a more detailed description of the application architecture and individual tiers.

1.3 Supported Platforms

This section shows each of the operating system/server combinations on which the product is supported:

- Operating Systems and Application Servers
- Oracle Database Servers
- SDK – Supported Combinations
- Oracle WebLogic Server Information
- Oracle VM Support
- Oracle Support Policy Regarding VMware

The installation supports many operating system, application server, and database server combinations. For the software requirements for each of these combinations, see Oracle Revenue Management and Billing Installation Guide or Oracle Revenue Management and Billing Release Notes.

2. Verifying the Configuration Files

You need to verify whether the configuration files required for generating reports have valid details. There are two approaches to verify and update the configuration files:

- Comment the following line in `spl.properties.template` file found in the path: `/scratch/rmbbuild/spl/<Install DIR>/templates/`
ouaf.runtime.billView.directoryPath=@force_forward_slash(SPLEBASE)@/splapp/billView/

Note: To comment a line, type `##` at the beginning of the line. For example:

```
##ouaf.runtime.billView.directoryPath=@force_forward_slash(SPLEBASE)@/splapp/billView/
```

- Alternatively, you can verify and update the configuration files `spl.properties` and `environ.ini`

The `spl.properties` file lists the parameters and directory path name used by the report generating algorithm. By default, the statements in these files that are marked with `##` are not referred by the algorithm while generating the reports. However, it is recommended to verify this and if the lines are not commented, comment them.

To verify, search for statements that end with `/billView/` in the respective `spl.properties` file. The table below lists the `spl.properties` file paths and their valid values.

File Path	Valid Value
<code>/scratch/rmbbuild/spl/<Install_DIR>/etc/conf/root/WEB-INF/classes/spl.properties</code>	<code>##ouaf.runtime.billView.directoryPath=/scratch/rmbbuild/spl/<Install_DIR>/splapp/billView/</code>
<code>/scratch/rmbbuild/spl/<Install_DIR>/etc/conf/XAIApp/WEB-INF/classes/spl.properties</code>	<code>##ouaf.runtime.billView.directoryPath=/scratch/rmbbuild/spl/<Install_DIR>/splapp/billView/</code>
<code>/scratch/rmbbuild/spl/<Install_DIR>/splapp/mpl/config/spl.properties</code>	<code>##ouaf.runtime.billView.directoryPath=/scratch/rmbbuild/spl/<Install_DIR>/splapp/billView/</code>
<code>/scratch/rmbbuild/spl/<Install_DIR>/splapp/applications/root/WEB-INF/classes/spl.properties</code>	<code>##ouaf.runtime.billView.directoryPath=/scratch/rmbbuild/spl/<Install_DIR>/splapp/billView/</code>
<code>/scratch/rmbbuild/spl/<Install_DIR>/splapp/applications/XAIApp/WEB-INF/classes/spl.properties</code>	<code>##ouaf.runtime.billView.directoryPath=/scratch/rmbbuild/spl/<Install_DIR>/splapp/billView/</code>

To check and update the `spl.properties` files, follow the below steps:

1. Log on to WinSCP and browse to the path where `spl.properties` file is available. Refer to the previous table for various file paths.
 For example: `/scratch/rmbbuild/spl/<Install_DIR>/etc/conf/root/WEB-INF/classes`
2. Open the `spl.properties` file and search for the line that ends with `/billView/`
3. If the line is not commented, type `##` at the beginning of the line. For example:
##ouaf.runtime.billView.directoryPath=/scratch/rmbbuild/spl/<Install_DIR>/splapp/billView/
4. Save and close the file.

To check and update the `environ.ini` file, follow the below steps:

1. Log on to WinSCP and browse to the path where **environ.ini** file is available. For example:
/scratch/rmbbuild/spl/<INSTALL DIRECTORY>/etc/ENVIRON.INI
2. Verify if `TOP_VERSION` value=<Product Version> and if the value is not valid, update the same.
3. Verify if `TOP_VERSION_NUM` value=< Product Version> and if the value is not valid, update the same.

3. Updating spl Template File

Navigate to the location `<Installation Home>/<Installation Directory>/templates/` and update the template file `spl.properties.standalone.template` by adding the code given below:

```
## EJB properties
#ifdef SPLWAS=WLS
spl.serviceBean.jndi.name = @WEB_CONTEXT_ROOT@/servicebean
spl.ejbContainer.contextFactory =
weblogic.jndi.WLInitialContextFactory
#ifdef !WEB_WLSSLPORT=[NULL]
spl.ejbContainer.url = t3s://@BSN_WLHOST@:@WEB_WLSSLPORT@
#endif
#ifdef WEB_WLSSLPORT=[NULL]
spl.ejbContainer.url = t3://@BSN_WLHOST@:@WEB_WLPORT@
#endif
spl.ejbContainer.user = @WEB_WLSYSUSER@
spl.ejbContainer.password = @WEB_WLSYSPASS@
#endif
```

4. Installing ORMB Reporting Module

4.1 Prerequisites

To install ORMB Reporting version 2.9.0.0.0, you should have:

- ORMB application installed

4.2 How to Install ORMB Reporting?

To install ORMB Reporting version 2.9.0.0.0, follow the procedure below:

1. Log on to WebLogic Administration Console.
2. Select Deployments from home page. The Summary of Deployments page appears.

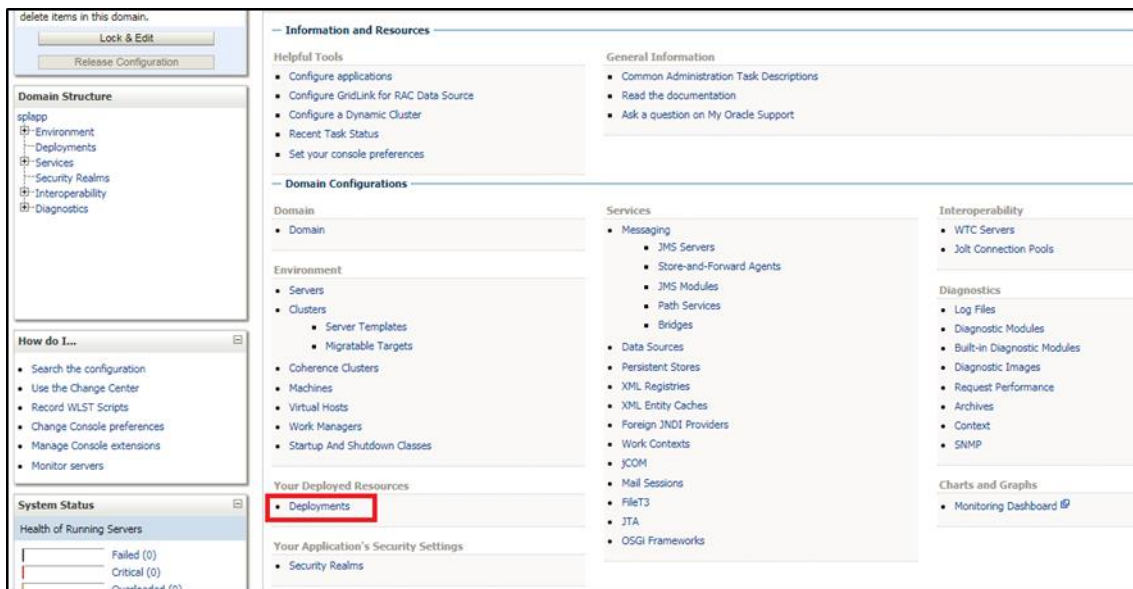


Figure 1: Deployment Home Page

3. Click on **Lock & Edit**. This enables the **Install** button under Deployments tab.

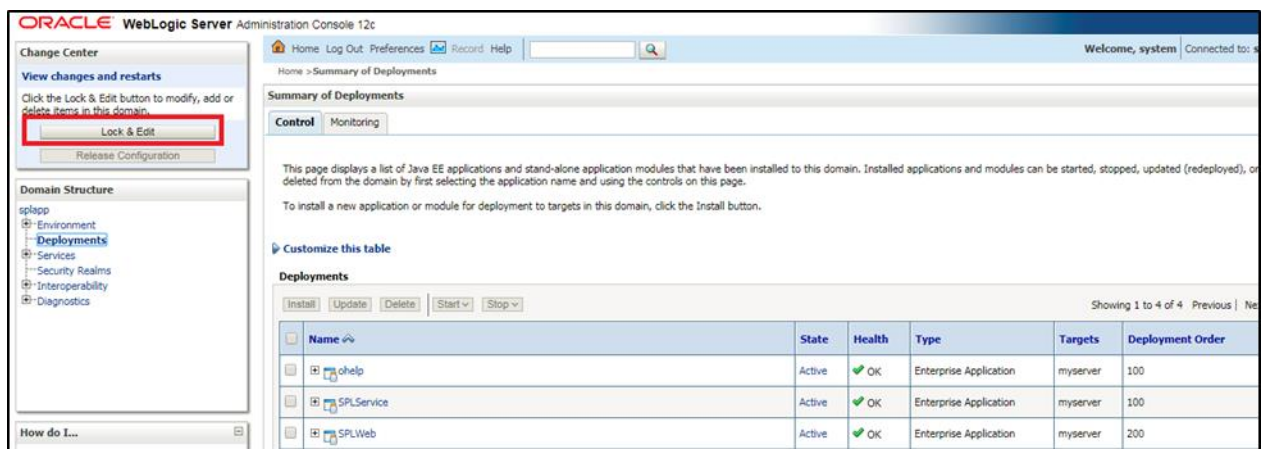


Figure 2: Summary of Deployments Page

4. Click **Install**. The 'Locate deployment to install and prepare for deployment' screen appears.

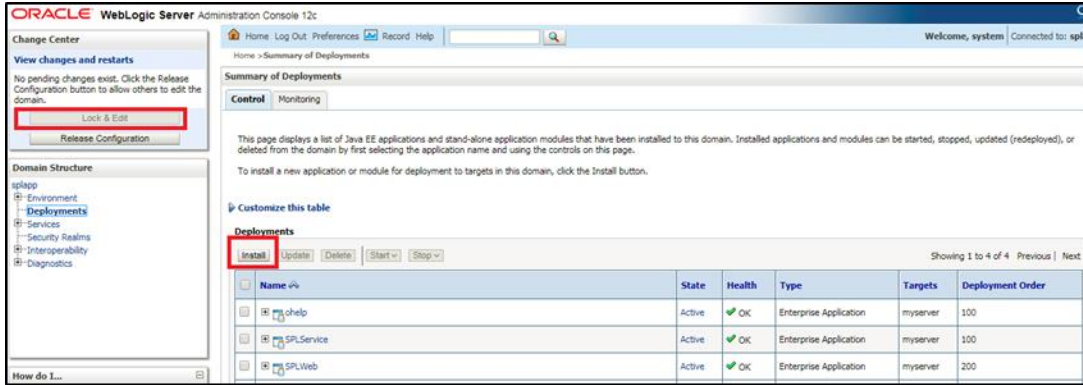


Figure 3: Install Deployment

5. Enter `/scratch/rmbuild/spl/<INSTALL DIRECTORY>/splapp/applications` in the Path field.

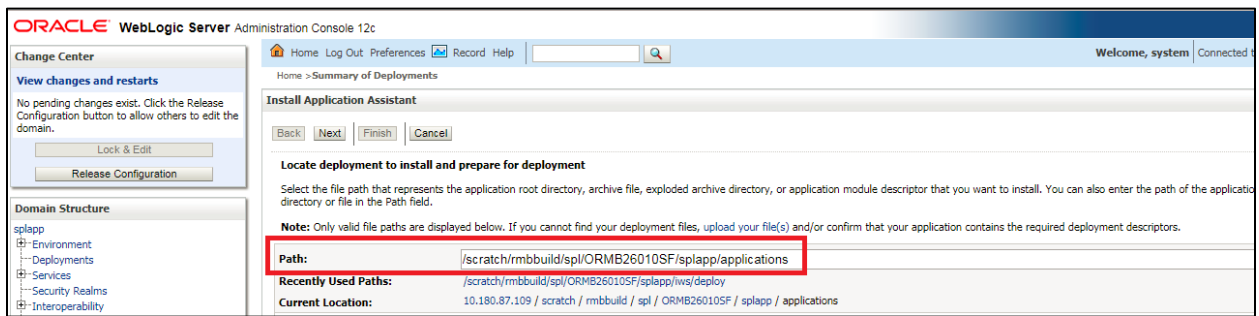


Figure 4: Locate Deployment Screen

6. Select `spl-reporting.ear` node.

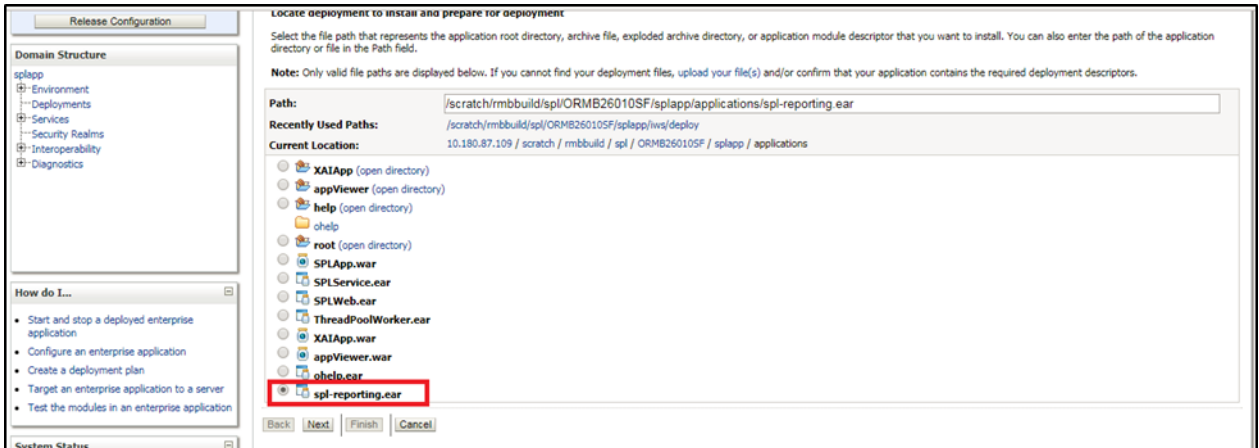


Figure 5: Deployment Option

7. Click **Next**.
8. Under Choose targeting style section, select **Install this deployment as an application** option and click **Next**.

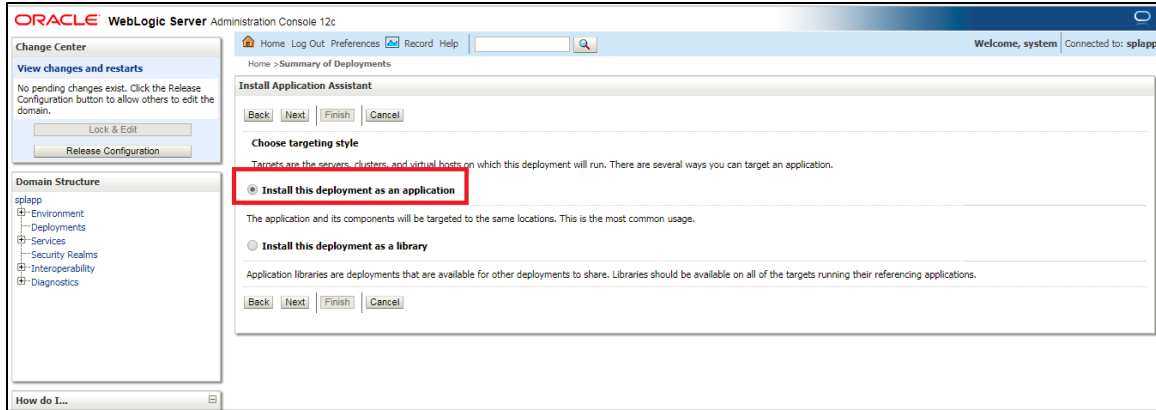


Figure 6: Deployment Option

9. Under Optional Settings, enter default values in all fields and click Next.

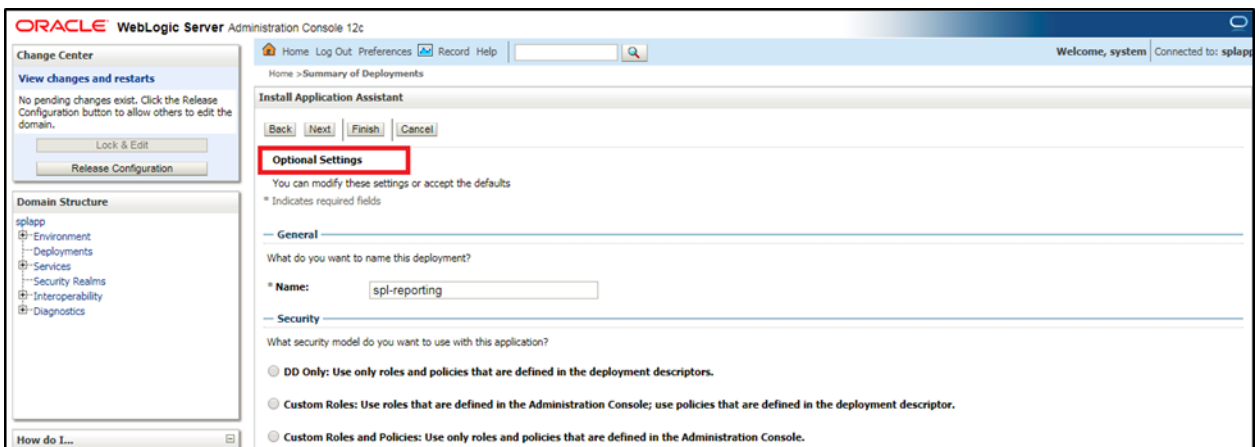


Figure 7: Optional Settings

10. Under Additional Configuration section, select **No, I will review the configuration later** and click Finish.

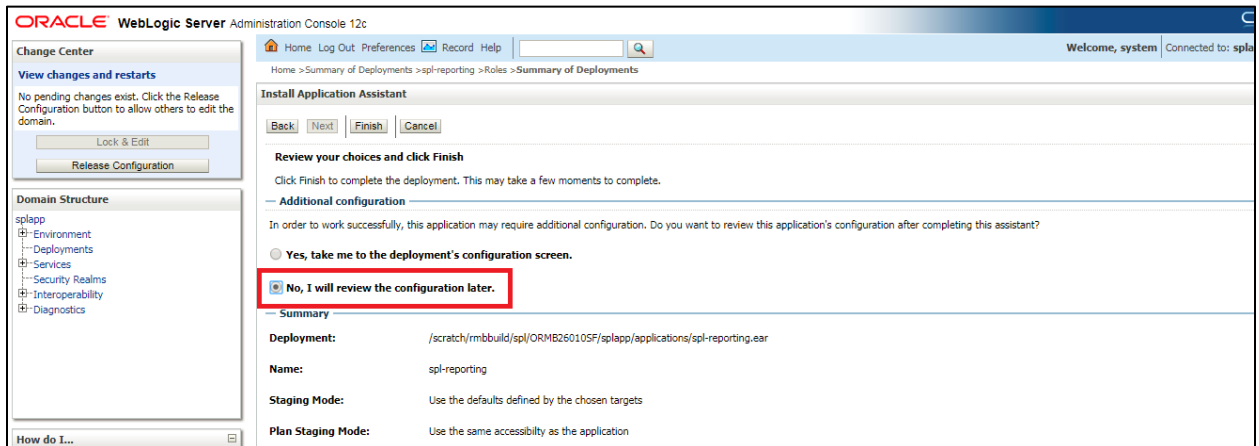


Figure 8: Review Choices

11. The spl-reporting ear file will be deployed.

12. Click **Activate Changes** to activate the changes.

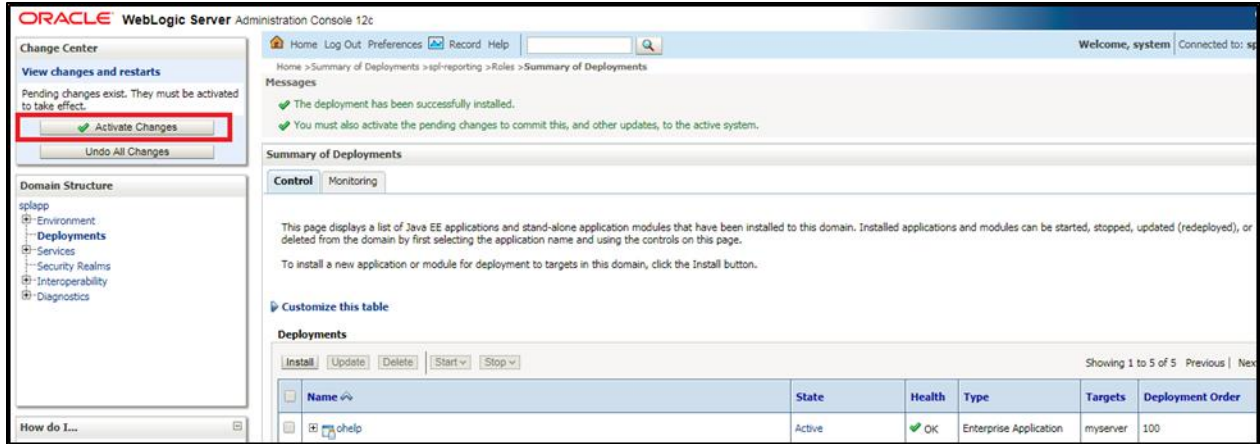


Figure 9: Activate Changes

13. In the list of Deployments, state of **spl-reporting** changes to **Prepared**.

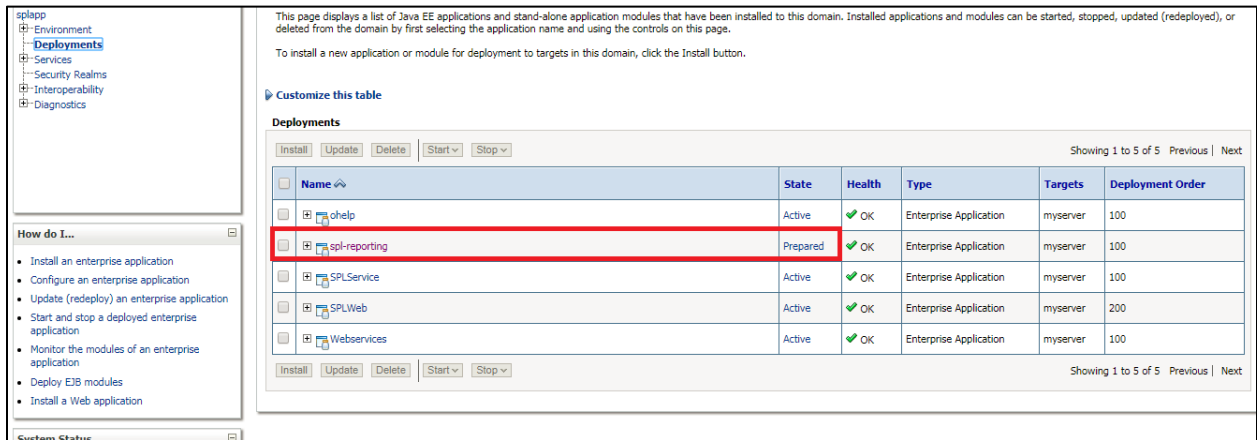


Figure 10: Deployment State

14. To activate the deployed reporting ear file, select **spl-reporting** node and click **Start**.

15. Select **Servicing all requests** from the drop-down list. The **Start Application Assistant** page appears.

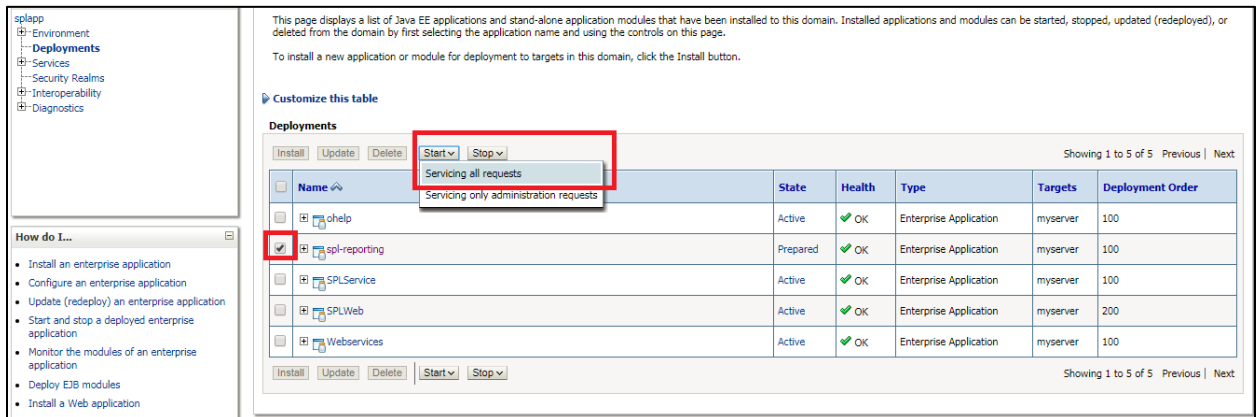
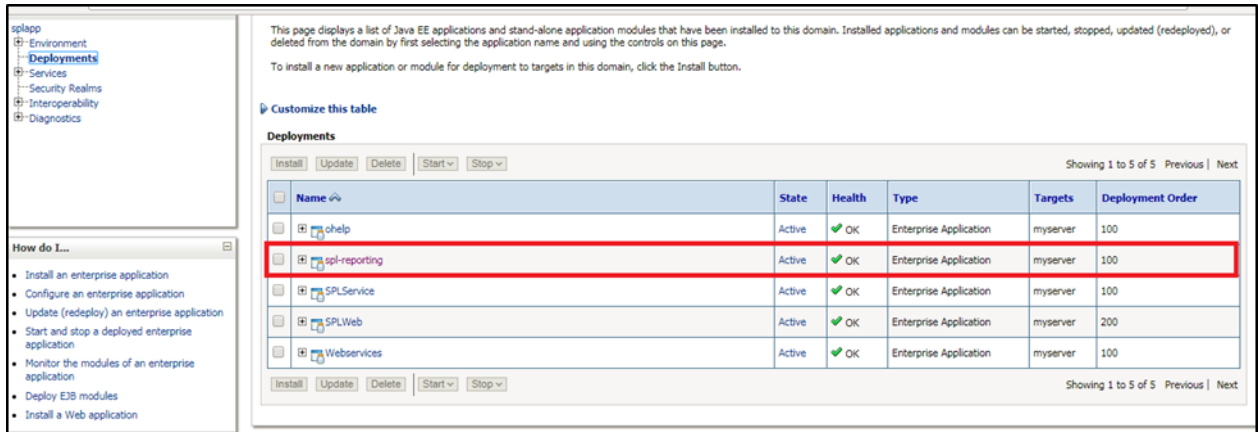


Figure 11: Activate Deployment

16. Click **Yes** and the status of the deployed reporting ear file changes from **Prepared** to **Active**.



This page displays a list of Java EE applications and stand-alone application modules that have been installed to this domain. Installed applications and modules can be started, stopped, updated (redeployed), or deleted from the domain by first selecting the application name and using the controls on this page.

To install a new application or module for deployment to targets in this domain, click the Install button.

Customize this table

Deployments

Install Update Delete Start Stop

Name	State	Health	Type	Targets	Deployment Order
ohelp	Active	OK	Enterprise Application	myserver	100
spl-reporting	Active	OK	Enterprise Application	myserver	100
SPLService	Active	OK	Enterprise Application	myserver	100
SPLWeb	Active	OK	Enterprise Application	myserver	200
Webservices	Active	OK	Enterprise Application	myserver	100

Install Update Delete Start Stop

Figure 12: Deployment State

Note: For more information, refer to *Oracle Revenue Management and Billing Installation Guide*.

4.3 Oracle WebLogic

You must download Oracle WebLogic from Oracle Software Delivery Cloud. The supported versions of Oracle WebLogic Server listed in the [Error! Reference source not found.](#) section.

5. Oracle Support

You can contact Oracle Support by navigating to <http://www.oracle.com/support/index.html>