

# **Oracle® Revenue Management and Billing**

Version 2.9.0.0.0

## **Quick Installation Guide**

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## Oracle Revenue Management and Billing Quick Installation Guide

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# Preface

## About This Document

This document provides high-level information on how to install Oracle Revenue Management and Billing (ORMB) and selected additional software.

## Intended Audience

This document is intended for the following audience:

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

**Note:** To complete the installation, you should have:

- >> Administrative privileges on the host where you want to install the software
- >> Experience installing and configuring application servers and other software

## Organization of the Document

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

Section No.	Section Name	Description
Section 1	ORMB Installation Overview	Provides high-level information on how to install Oracle Revenue Management and Billing and selected additional software.

## 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.

Document	Description
<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 know-how 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.

## Change Log

Revision	Last Update	Updated Section	Comments
17.1	13-May-2020	Section 1.8: Installing ORMB	Updated Information
17.2	29-May-2020	Section 1.8: Installing ORMB	Updated Information
17.3	31-Aug-2020	Section 1.8: Installing ORMB	Added Information
17.4	19-Jan-2022	-	Added Bookmarks in PDF

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# 1. ORMB Installation Overview

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This section provides high-level information on how to install Oracle Revenue Management and Billing (ORMB) Version 2.9.0.0.0 and selected additional software. For more information, see *Oracle Revenue Management and Billing Installation Guide*.

This section includes the following topics:

- Media Pack Contents
- Product Documentation
- Application Overview
- Supported Platforms
- Application Server Space Requirements
- Support for Software Patches and Upgrades
- Installation and Configuration Overview
- Installing ORMB
- Installing Additional Software
- Contacting Oracle Support

## 1.1 Media Pack Contents

The following media packs are available for this release:

- Oracle Financial Services Revenue Management and Billing Version 2.9.0.0.0 – It contains the following packages:
  - Oracle Utilities Application Framework V4.4.0.0.0 Single Fix Prerequisite Rollup for RMB V2.9.0.0.0
  - Oracle Revenue Management and Billing V2.9.0.0.0 Multiplatform
  - Oracle Revenue Management and Billing V2.9.0.0.0 Oracle Database
- Oracle Insurance Revenue Management and Billing Version 2.9.0.0.0 – It contains the following packages:
  - Oracle Utilities Application Framework V4.4.0.0.0 Single Fix Prerequisite Rollup for RMB V2.9.0.0.0
  - Oracle Revenue Management and Billing V2.9.0.0.0 Multiplatform
  - Oracle Revenue Management and Billing V2.9.0.0.0 Oracle Database

## 1.2 Product Documentation

User manuals and other technical documents are available in the Portable Document Format (PDF). You can download Oracle Revenue Management and Billing release-specific documentation library (for example, Oracle Revenue Management and Billing Version 2.9.X.X.X Documentation Library) using the following URL:

<http://www.oracle.com/technetwork/indexes/documentation/fsgbu-1364781.html>

## 1.3 Application Overview

The application is split into multiple tiers:

### Tier 1: Browser-Based Client

Oracle Revenue Management and Billing supports the following operating systems:

- Windows 10 (64-bit)

The following operating system and web browser combinations are supported:

- Windows 10 (64-bit) with Internet Explorer 11.x<sup>1</sup> (not in the Compatibility mode)
- Windows 10 (64-bit) with Google Chrome Enterprise Version 67 or higher

### 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.

## 1.4 Supported Platforms

This section includes the following topics:

- [Operating Systems and Application Servers](#)
- [Oracle Database Servers](#)
- [SDK - Supported Combinations](#)
- [Oracle WebLogic Server Information](#)
- [Oracle VM Support](#)
- [Oracle Support Policy Regarding VMware](#)

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<sup>1</sup> Here, **x** represents the vendor supported version.



## 1.4.1 Operating Systems and Application Servers

The installation is supported on 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*.

The following table lists the operating system and application server combinations on which Oracle Revenue Management and Billing Version 2.9.0.0.0 is supported:

Operating System and Web Browser (Client)	Operating System (Server)	Chipset	Application Server	Database Server
Windows 10 (64-bit) with Internet Explorer 11.x <sup>2</sup> or Google Chrome Enterprise Version 67 or higher	AIX 7.2 TL0+ <sup>3</sup> (64-bit)	POWER 64-bit	WebLogic 12.2.1.3 (64-bit)	Oracle Database Server 18c (12.2.0.2) SP1+ Oracle Database Server 19c
	Oracle Linux 7.x <sup>2</sup> (64-bit)	x86_64	WebLogic 12.2.1.3 (64-bit)	Oracle Database Server 18c (12.2.0.2) SP1+
			IBM WebSphere 9.0.5.2	Oracle Database Server 19c
	Oracle Solaris 11.3+ <sup>3</sup>	SPARC 64-bit	WebLogic 12.2.1.3 (64-bit)	Oracle Database Server 18c (12.2.0.2) SP1+ Oracle Database Server 19c
	Red Hat Enterprise Linux <sup>4</sup> 7.x <sup>2</sup> (64-bit)	x86_64	WebLogic 12.2.1.3 (64-bit)	Oracle Database Server 18c (12.2.0.2) SP1+
			IBM WebSphere 9.0.5.2	Oracle Database Server 19c
Windows Server 2012 R2 (64-bit)	x86_64	WebLogic 12.2.1.3 (64-bit)	Oracle Database Server 18c (12.2.0.2) SP1+ Oracle Database Server 19c	

<sup>2</sup> Here, **x** represents the vendor supported version.

<sup>3</sup> Version numbers suffixed with "+" are the MINIMUM version supported. That version and all future 4<sup>th</sup> digit updates will be supported.

<sup>4</sup> Oracle Revenue Management and Billing is tested and certified on Oracle Linux 7.x. Oracle Linux is 100% userspace-compatible with Red Hat Enterprise Linux, and therefore Oracle Revenue Management and Billing is supported on Red Hat Enterprise Linux.

**Note:**

Oracle Corporation distributes Oracle Linux with the following two kernels:

**Red Hat Compatible Kernel** – This kernel is identical to the kernel shipped in Red Hat Enterprise Linux.

**Unbreakable Enterprise Kernel** – This kernel is based on a later Linux 2.6-series kernel, with Oracle's own enhancements for OLTP, InfiniBand, SSD disk access, NUMA-optimizations, Reliable Datagram Sockets (RDS), async I/O, OCFS2, and networking.

Oracle claims that the Unbreakable Enterprise Kernel is compatible with Red Hat Enterprise Linux; and Oracle middleware and third-party Red Hat Enterprise Linux-certified applications can be installed and run unchanged on Unbreakable Enterprise Kernel. However, for users requiring strict compatibility with Red Hat or for users running kernel modules dependent on specific kernel versions, the Red Hat Compatible Kernel offers 100% compatibility with Red Hat Enterprise Linux.

We strongly recommend you to install Oracle Revenue Management and Billing (ORMB) on Windows platform only for non-production activities, such as User Acceptance Testing (UAT), development setup, and so on.

## 1.4.2 Oracle Database Servers

Oracle Revenue Management and Billing Version 2.9.0.0.0 is supported with Oracle Database Server 18c (12.2.0.2) SP1+ and 19c on all operating systems listed above. The following Oracle Database Server Editions are supported:

- Oracle Database Enterprise Edition

Oracle Database Client 18c or 19c is required as a pre-requisite for installing the Oracle Revenue Management and Billing application.

## 1.4.3 SDK - Supported Combinations

Refer to the SDK documentation for supported platforms and installation instructions.

## 1.4.4 Oracle WebLogic Server Information

You must download and install Oracle WebLogic Server using Fusion Middleware Infrastructure Installer 12.2.1.3.

**Note:**

You need to apply the **WLS PATCH SET UPDATE 12.2.1.3.181016** patch (Patch Number: 28298734) after installing Oracle WebLogic Server.

While creating a domain, select the **Oracle Restricted JRF - 12.2.1 [oracle\_common]** option from the **Create Domain Using Product Templates** page in the **Fusion Middleware Configuration Wizard**. The **WebLogic Coherence Cluster Extension - 12.2.1 [wlserver]** option is selected automatically.

## 1.4.5 Oracle VM Support

Oracle Revenue Management and Billing Version 2.9.0.0.0 is supported on Oracle VM Server for x86 (64-bit) supported releases of Oracle Linux and Microsoft Windows operating systems.

## 1.4.6 Oracle Support Policy Regarding VMware

Please refer to My Oracle Support Knowledge Base Article 249212.1 for Oracle's Support Policy Regarding VMware.

## 1.5 Application Server Space Requirements

For each application server environment, a minimum of 4 GB of real memory is required, plus 6 GB of swap space. The approximate disk space requirements in a standard installation are as follows (the size represents the MINIMUM required):

Location	Size	Usage
Install DIR (\$SPLEBASE) Location	12 GB recommended	This is the location where the application and framework is installed. The startup, shutdown, and other online log files are stored in this location. The size and space that is used should be monitored because various debugging options can significantly affect the size of log files.
Log DIR (\$SPLOUTPUT) Location	10 GB recommended 2 GB minimum	This location is used for storing batch log files and output from batch jobs. The size of this space should be influenced by which batches are executed and how often, and the amount of debugging information that is collected.
Location of the application web work files on the web servers	5 GB recommended 2 GB minimum	This location is used by the various web server vendors to expand the application. It should be considered when installing these products. Refer to the individual web server documentation to determine the location of the temporary files.
Installation Temporary Area	10 GB minimum	The application is installed from this location. You need enough space to decompress the files and install the application.
Oracle Data Area	14 GB minimum	This is the location where the Oracle Database data files are stored. The size of this space should be based on the requirements of the production environment. For an initial or demo database install, 4 GB should be sufficient.

## 1.6 Support for Software Patches and Upgrades

Due to the ongoing nature of software improvement, vendors will issue patches and service packs for the operating systems, application servers and database servers on top of specific versions on which Oracle Utilities Application Framework is tested.

If it is necessary to upgrade, you must first upgrade the testing environment that is running on the same platform as the production environment prior to updating the Oracle Revenue Management and Billing production environment.

The exception from this rule is Hibernate Version 4.1.0. This version should not be upgraded.

Always contact Oracle Revenue Management and Billing Support prior to applying vendor updates that do not guarantee backward compatibility.

## 1.7 Installation and Configuration Overview

The following diagram provides an overview of the steps that need to be taken to install and configure Oracle Revenue Management and Billing:

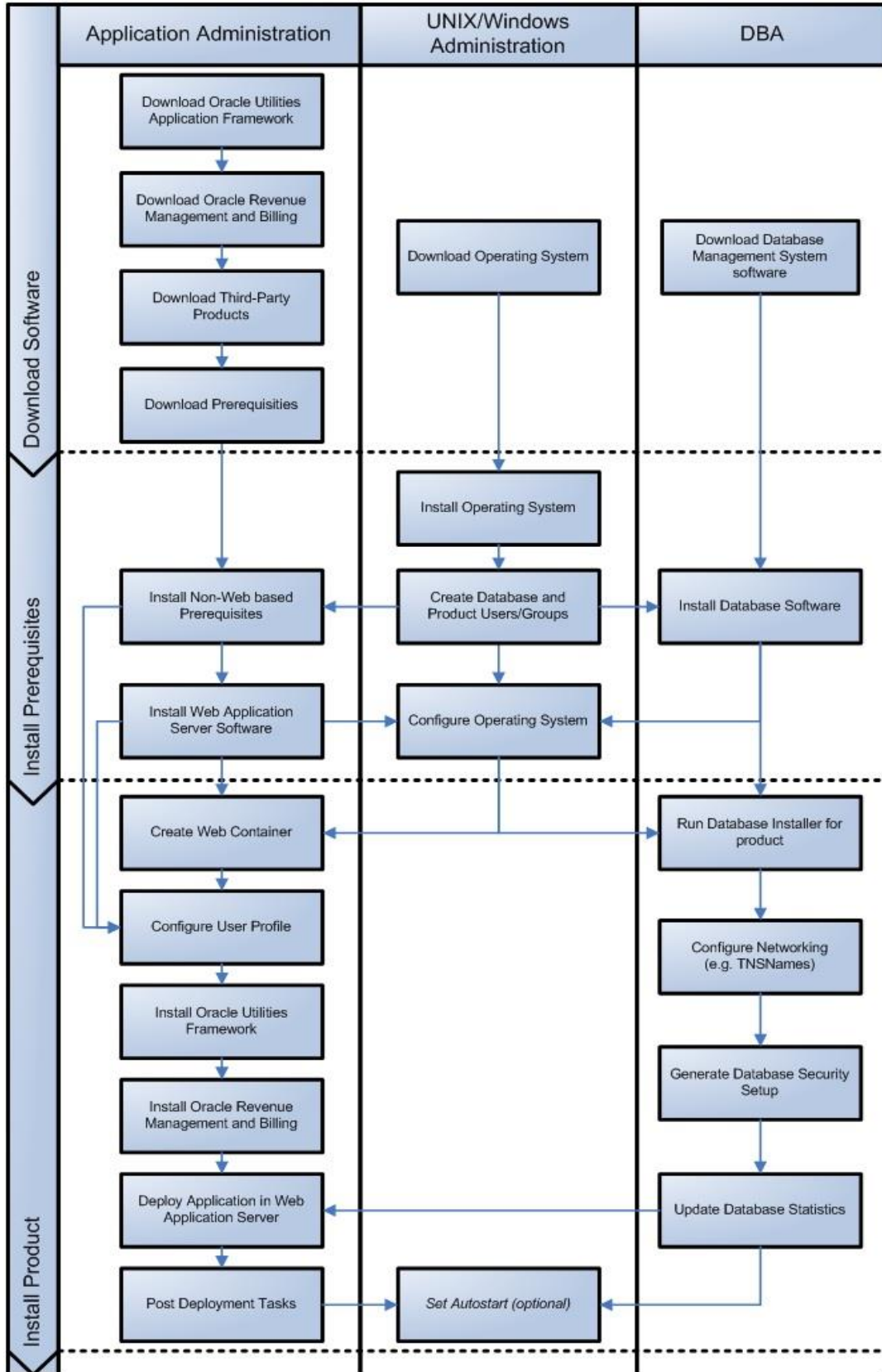


Figure 1: ORMB Installation and Configuration Steps

## 1.8 Installing ORMB

To install Oracle Revenue Management and Billing (ORMB) Version 2.9.0.0.0:

1. Install all required third-party software.

**Note:** For more information about the step 1, see *Oracle Revenue Management and Billing Installation Guide*.

2. Create a database on the database server.
3. Install the following on the database in the specified order:
  - a. Oracle Utilities Application Framework Version 4.4.0.0.0
  - b. Rollup Pack for Oracle Utilities Application Framework Version 4.4.0.0.0
  - c. Oracle Revenue Management and Billing Version 2.9.0.0.0
4. Install the following post-requisite patches on the database:
  - a. MANDATORY PATCH 1 FOR ORMB VERSION 2.9.0.0.0 (Patch Number: 31066976)
  - b. MANDATORY PATCH 2 FOR ORMB VERSION 2.9.0.0.0 (Patch Number: 31074070)
  - c. MANDATORY PATCH 3 FOR ORMB VERSION 2.9.0.0.0 (Patch Number: 31122862)
  - d. MANDATORY PATCH 4 FOR ORMB VERSION 2.9.0.0.0 (Patch Number: 31130102)
  - e. MANDATORY PATCH 5 FOR ORMB VERSION 2.9.0.0.0 (Patch Number: 31190091)
  - f. MANDATORY PATCH 6 FOR ORMB VERSION 2.9.0.0.0 (Patch Number: 31172781)
  - g. MANDATORY PATCH 7 FOR ORMB VERSION 2.9.0.0.0 (Patch Number: 31222633)
  - h. MANDATORY PATCH 8 FOR ORMB VERSION 2.9.0.0.0 (Patch Number: 31248602)
  - i. MANDATORY PATCH 9 FOR ORMB VERSION 2.9.0.0.0 (Patch Number: 31313821)
  - j. MANDATORY PATCH 10 FOR ORMB VERSION 2.9.0.0.0 (Patch Number: 31314417)

**Note:**

The above patch list is not comprehensive. For the complete list of patches that you need to apply on the database, see the *ORMB V29000 Patch Guide (Doc ID: 2704165.1)* which is available on [My Oracle Support](#).

For more information about the step 2, 3, and 4, see *Oracle Revenue Management and Billing Database Administrator's Guide*.

5. Install the following on the application environment in the specified order:
  - a. Oracle Utilities Application Framework Version 4.4.0.0.0
  - a. Rollup Pack for Oracle Utilities Application Framework Version 4.4.0.0.0
  - b. Oracle Revenue Management and Billing Version 2.9.0.0.0
6. Install the following post-requisite patches on the application environment:
  - a. MANDATORY PATCH 1 FOR ORMB VERSION 2.9.0.0.0 (Patch Number: 31066976)
  - b. MANDATORY PATCH 2 FOR ORMB VERSION 2.9.0.0.0 (Patch Number: 31074070)

- c. UPDATE ONLINE HELP FOR ORMB VERSION 2.9.0.0.0 (Patch Number: 31008818)
  - d. MANDATORY PATCH 3 FOR ORMB VERSION 2.9.0.0.0 (Patch Number: 31122862)
  - e. MANDATORY PATCH 4 FOR ORMB VERSION 2.9.0.0.0 (Patch Number: 31130102)
  - f. MANDATORY PATCH 5 FOR ORMB VERSION 2.9.0.0.0 (Patch Number: 31190091)
  - g. MANDATORY PATCH 6 FOR ORMB VERSION 2.9.0.0.0 (Patch Number: 31172781)
  - h. MANDATORY PATCH 7 FOR ORMB VERSION 2.9.0.0.0 (Patch Number: 31222633)
  - i. MANDATORY PATCH 8 FOR ORMB VERSION 2.9.0.0.0 (Patch Number: 31248602)
  - j. MANDATORY PATCH 9 FOR ORMB VERSION 2.9.0.0.0 (Patch Number: 31313821)
  - k. MANDATORY PATCH 10 FOR ORMB VERSION 2.9.0.0.0 (Patch Number: 31314417)
7. Create the `billView` directory in the `$$SPLAPP` directory.
  8. Generate the Application Viewer (this includes the Data Dictionary).

**Note:**

The above patch list is not comprehensive. For the complete list of patches that you need to apply on the application environment, see the *ORMB V29000 Patch Guide (Doc ID: 2704165.1)* which is available on [My Oracle Support](#).

For more information about the step 5, 6, 7, and 8, see *Oracle Revenue Management and Billing Installation Guide*.

## 1.9 Installing Additional Software

This section explains how to download additional software, such as Oracle WebLogic when you have purchased the required license.

### 1.9.1 Oracle WebLogic

You must download Oracle WebLogic from [Oracle Software Delivery Cloud](#). The supported versions of Oracle WebLogic Server are listed in the [Operating Systems and Application Servers](#) section.

## 1.10 Contacting Oracle Support

Please follow this link <http://www.oracle.com/support/index.html> to contact Oracle Support.