

# **Oracle Financial Services Revenue Management and Billing**

Version 6.0.0.0.0

## **Quick Installation Guide**

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**ORACLE®**

## Oracle Financial Services Revenue Management and Billing Quick Installation Guide

**Note:** To improve the content readability, the Oracle Financial Services Revenue Management and Billing product is referred to as Oracle Revenue Management and Billing throughout this document.

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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 in 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.

## Conventions

The following conventions are used across the document:

Convention	Meaning
<b>boldface</b>	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.

## Acronyms

The following acronyms are used in this document:

Acronym	Meaning
ORMB	Oracle Revenue Management and Billing
OAAF	Oracle Utilities Application Framework
FW	Framework
WLS	WebLogic Server
PDF	Portable Document Format
RDS	Reliable Datagram Sockets
UAT	User Acceptance Testing

## Related Documents

You can refer to the following documents for more information:

Document Name	Description
<i>Oracle Revenue Management and Billing Version 6.0.0.0.0 Release Notes</i>	Provides a brief description about the new features, enhancements, and UI level changes introduced in the current release. The new features and enhancements are classified under three distinct heads – Generic (which is intended for both domains), Financial Services, and Health Insurance. It also contains high-level information about the supported platforms, framework upgrade, supported upgrades, and documentation updates. In addition, it contains a list of discontinued features, planned deprecation notices, customer bugs fixed or forward ported and known issues in the current release.
<i>Oracle Revenue Management and Billing Installation Guide</i>	Provides an overview about the application architecture. It contains detailed information about the software and hardware requirements, supported platforms, application server and database space requirements, and application server prerequisites for supported platforms. It explains the installation and configuration menu options which are available during installation and advanced menu options which are available post installation. It also explains how to configure WebSphere application server and how to install OAAF, OAAF rollup packs, ORMB, and ORMB patches or rollup packs.  It contains appendices which lists ORMB rollup packs and notices about third-party JAR and other components.

Document Name	Description
<i>Oracle Revenue Management and Billing Database Administrator's Guide</i>	<p>Provides information about the supported database platforms and explains how to install database with or without demo data. It contains the standards and conventions that should be followed while working with ORMB database. In addition, it lists various configurations and implementation guidelines with respect to tablespace, encryption, storage, compression, indexes, initialization parameters, listener, table partitioning, performance monitoring, memory resource management, optimizer statistics and segment advisors, etc.</p> <p>It contains various appendices which lists the new objects added in ORMB, application services configured for default user groups, new objects added in OUA, information about OUA system tables and ORMB rollup packs, notices about third-party JAR and other components.</p>
<i>Oracle Revenue Management and Billing Server Administration Guide</i>	<p>Provides detailed information about the product architecture, native support, directory structures, environment variables, logs, etc. It explains various concepts related to the batch server and lists and describes the scripts required for installing and configuring ORMB. It explains how to monitor the system and configure Web browser, Web application server, business application server, inbound web services, and batch server. It explains how to provide Oracle Cloud Support and how to integrate and monitor Oracle Scheduler.</p> <p>It contains various appendices which lists and describes the parameters available in the ENVIRON.INI, Web.xml, spl.properties, hibernate.properties, submitbatch.properties, threadpoolworker, coherence-cache.config.xml, and tangosol-coherence-override.xml files.</p>
<i>Oracle Revenue Management and Billing Security Guide</i>	<p>Highlights what's new in security! Describes all the security features available in ORMB for authentication, authorization, user access, database access, LDAP and SSO integration, audit, encryption, web services, and JNDI access. It also describes how to provide support for data masking, Oracle cloud object storage, groovy, HTTP proxy, keystore, truststore, whitelist, federated architecture, and object erasure. In addition, it explains how to garble the customer information.</p>
<i>Oracle Revenue Management and Billing Upgrade Path Guide</i>	<p>Explains the path and pre-requisites for upgrading Oracle Revenue Management and Billing from one version to another.</p>

Document Name	Description
<i>Oracle Revenue Management and Billing Upgrade Guide</i>	<p>Explains how to upgrade the ORMB application server and database from one version to another. It also explains how to migrate the ORMB data from one version to another and describes the additional tasks that you need to perform after upgrading from one version to another.</p> <p>It includes various appendices that contain information about new tables introduced in the current release, existing tables which are modified in the current release, dropped algorithms and algorithm types, dropped characteristic types, dropped algorithm parameters, dropped option types in feature configurations, ORMB rollup packs, and SQL statements used for data migration.</p>
<i>Oracle Revenue Management and Billing Direct Database Upgrade Guide</i>	<p>Explains how to directly upgrade the ORMB database from 2.5.0.1.0 or any later version to the current release. It also highlights any known issues during direct database upgrade and how to handle these issues in the database.</p>

## Change Log

Revision	Last Update	Updated Section	Comments
25.1	18-Oct-2023	Section 1.8: Installing ORMB	Updated Information
25.2	14-Dec-2023	Section 1.2: Product Documentation	Updated Information

## Access to Oracle Support

Oracle customers that have purchased support have access to electronic support through 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.

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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 6.0.0.0.0. It also lists additional software that are required for the installation. For more information, refer to the *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 pack is available for this release:

- Oracle Financial Services Revenue Management and Billing 6.0.0.0.0 – It contains the following packages:
  - Oracle Financial Services Revenue Management and Billing 6.0.0.0.0 - Oracle Utilities Application Framework (4.5.0.1.1) Single Fix Prerequisite Rollup
  - Oracle Financial Services Revenue Management and Billing 6.0.0.0.0 - Multiplatform
  - Oracle Financial Services Revenue Management and Billing 6.0.0.0.0 - Oracle Database

## 1.2 Product Documentation

User manuals and other technical documents are available in the Portable Document Format (PDF) format. You can download the release-specific documentation from either of the following locations:

- **Oracle Technology Network (OTN)** – You can access the ORMB release-specific documentation libraries from OTN using the following URL:

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

It contains the **Documentation Library for Oracle Revenue Management and Billing On-Premise Solution** section. You can view and download a release-specific documentation library by clicking the **View Library** and **Download** links, respectively, corresponding to the respective ORMB version.

- **Oracle Help Center (OHC)** – You can access the ORMB release-specific documentation from OHC using the following URL:

<https://docs.oracle.com/en/industries/financial-services/revenue-management-billing/index.html>

The ORMB OHC page contains a drop-down list which allows you to select the ORMB version for which you want to access the documentation.

**Points to Note:**

You can access the documentation of a release prior to 5.0.0.0.0 from OHC by selecting the **Previous Releases** option from the list.

Always ensure that you download latest revision of the document from **OTN** or **OHC**.

From 6.0.0.0.0 release onwards, the Oracle Revenue Management and Billing Online Help (i.e., help.ear file) is not packaged with the application. The ORMB Online Help is published on Oracle Help Center (OHC). You can continue to use context-sensitive help from the application which will point to the respective topic on OHC.

## 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:

- Microsoft Windows 10 (64-bit)

The following operating system and web browser combinations are supported:

- Microsoft Windows 10 (64-bit) with Chromium Edge v108+
- Microsoft Windows 10 (64-bit) with Mozilla Firefox ESR 102+

**Note:** Here, x represents the vendor supported version.

- Microsoft Windows 10 (64-bit) with Google Chrome Enterprise Version 108+

### 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.

Operating System and Web Browser (Client)	Operating System (Server)	Chipset	Application Server	Database Server
Microsoft Windows 10 (64-bit) with Chromium Edge v108+, Mozilla Firefox ESR 102+, or Google Chrome Enterprise Version 108+	IBM AIX 7.2 TL5+ for POWER (64-bit) <b>Note:</b> Version numbers suffixed with "+" are the MINIMUM version supported. That version and all future 4 <sup>th</sup> digit updates will be supported.	POWER 64-bit	Oracle WebLogic 12.2.1.4 (64-bit)	Oracle Database Server 19c
<b>Note:</b> Here, x represents the vendor supported version.	Oracle Linux 8.x (64-bit)	x86_64	Oracle WebLogic 12.2.1.4 (64-bit) IBM WebSphere 9.0.5.6	Oracle Database Server 19c
	Red Hat Enterprise Linux 8.x (64-bit) <b>Note:</b> Oracle Revenue Management and Billing is tested and certified on Oracle Linux 8.x. Oracle Linux is 100% user space-compatible with Red Hat Enterprise Linux, and therefore Oracle Revenue Management and Billing is supported on Red Hat Enterprise Linux.	x86_64	Oracle WebLogic 12.2.1.4 (64-bit) IBM WebSphere 9.0.5.6	Oracle Database Server 19c
	Microsoft Windows Server 2016+ (64-bit)	x86_64	Oracle WebLogic 12.2.1.4 (64-bit)	Oracle Database Server 19c

## 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](#)

## 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, refer to the *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 6.0.0.0.0 is supported:

### Points to 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.

Microsoft Windows Server is not supported for the Production environments. We strongly recommend you install Oracle Revenue Management and Billing (ORMB) on Microsoft Windows platform only for non-production activities, such as User Acceptance Testing (UAT), development setup, and so on.

Refer to the [Oracle Revenue Management and Billing Certification Matrix \(Document ID: 1674639.1\)](#) on [My Oracle Support](#) to determine whether any new version of the operating systems, web browsers, application servers, database servers, or pre-requisites software is supported.

## 1.4.2 Oracle Database Servers

Oracle Revenue Management and Billing Version 6.0.0.0.0 is supported with Oracle Database Server 19c on all operating systems listed above. The following Oracle Database Server Editions are supported:

- Oracle Database Server Enterprise Edition 19c

Oracle Database Client 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 *Oracle Utilities Application Framework Software Development Kit* 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 12.2.1.4.

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

### 1.4.5 Oracle VM Support

Oracle Revenue Management and Billing Version 6.0.0.0.0 is supported on Oracle VM Server for x86 supported releases of Oracle Linux and Microsoft Windows operating systems.

Refer to the *Support Position for [Oracle Products Running on VMware Virtualized Environments](#)* (Document ID: 249212.1) article on [My Oracle Support](#) 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 are 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	Size	Usage
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	16 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 Revenue Management and Billing 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 exceptions from this rule are Hibernate Version 4.1.0 and Oracle Database 19c. These versions 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:

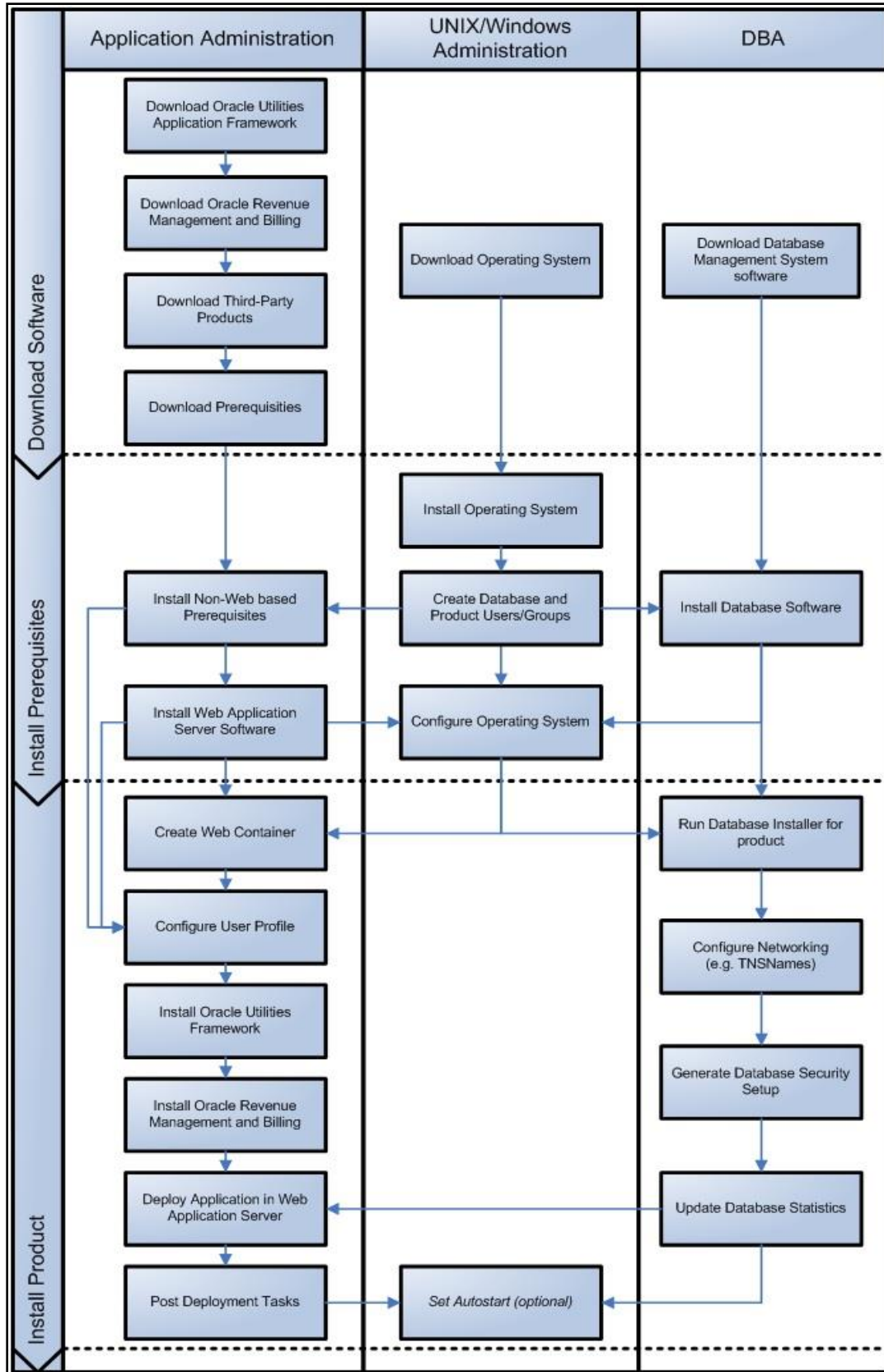


Figure 1: ORMB Installation and Configuration Steps

## 1.8 Installing ORMB

To install Oracle Revenue Management and Billing (ORMB) Version 6.0.0.0.0:

1. Install all required third-party software.

**Note:** For more information about the step 1, refer to the *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 4.5.0.1.1
  - b. Rollup Pack for Oracle Utilities Application Framework Version 4.5.0.1.1
  - c. Oracle Revenue Management and Billing Version 6.0.0.0.0
4. Install all post-requisite patches on the database.

**Points to Note:**

To view the list of patches that you need to apply on the database, refer to the [ORMB V6.0.0.0.0 Patch Guide](#) (Document ID: 2978216.1) on [My Oracle Support](#).

For more information about the step 2, 3, and 4, refer to the *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 4.5.0.1.1
  - b. Rollup Pack for Oracle Utilities Application Framework Version 4.5.0.1.1
  - c. Oracle Revenue Management and Billing Version 6.0.0.0.0
6. Install all post-requisite patches on the application environment.
7. Create the [billView](#) directory in the [\\$SPLAPP](#) directory.

**Points to Note:**

To view the list of patches that you need to apply on the application environment, refer to the [ORMB V6.0.0.0.0 Patch Guide](#) (Document ID: 2978216.1) on [My Oracle Support](#).

For more information about the step 5, 6, and 7 refer to the *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.