

Oracle® Revenue Management and Billing

Version 3.2.0.0.0

Licensing Guide

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Oracle Revenue Management and Billing Licensing Guide

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Preface

About This Document

This document will help you to understand different features which you can use when you acquire a license for:

- Oracle Financial Services Revenue Management and Billing
- Oracle Insurance Revenue Management and Billing

It also provides the licensing information about the third party products and components which are included in these products.

Intended Audience

This document is intended for all purchasers of Oracle Financial Services Revenue Management and Billing and Oracle Insurance Revenue Management and Billing.

Organization of the Document

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

Section No.	Section Name	Description
Section 1	Oracle Revenue Management and Billing Licensing	Lists the features which are available in Oracle Financial Services Revenue Management and Billing and Oracle Insurance Revenue Management and Billing.
Section 2	Third Party Licensing	Provides the licensing information about the third party products and components which are included in Oracle Revenue Management and Billing.

Acronyms

The following acronyms are used in this document:

Acronym	Meaning
ORMB	Oracle Revenue Management and Billing
OAAF	Oracle Utilities Application Framework
FW	Framework
ILM	Information Lifecycle Management
TFM	Transaction Feed Management
PDF	Portable Document Format
EDI	Electronic Data Exchange

Acronym	Meaning
ICU	International Components for Unicode

Related Documents

You can refer to the following documents for more information:

Document	Description
<i>Oracle Revenue Management and Billing Version 3.2.0.0.0 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 Utilities Application Framework Business Process Guide</i>	Explains how to get acquainted with the user interface. It explains the different types of pages or portals that you may come across in the application. It explains how to set the user preferences and how to create, manage, assign, and complete a To Do in the application. It also explains how to submit reports and view historic reports in the application.
<i>Oracle Utilities Application Framework Administrative Guide</i>	Explains the general, security, user, designing, developing, and scripting options available in OUAF. It also describes the user interface, database, configurations, and reporting tools available in OUAF. In addition, it provides information about the application viewer, how to configure incoming and outgoing messages, and how to integrate LDAP, OIM, and Batch Scheduler with ORMB.

Document	Description
<i>Oracle Revenue Management and Billing Business Process Guide</i>	<p>Explains how to maintain the demographic, geographic, and financial objects (i.e. accounts) of a customer. It explains how to manage a customer's bills, payments, adjustments, credits, collections processing, statements and deposits in ORMB. It also describes the financial transactions, case management, sales and marketing functions, rates engine, quotations, loans, how to monitor and execute job streams, and how to manage workflows, notifications and overdue processing. In addition, it explains how to extract the data from the system using an extract template.</p> <p>The features listed and described in this document can be used in both financial services and health insurance domains.</p>
<i>Oracle Revenue Management and Billing Administrative Guide</i>	<p>Explains how to configure various features and functionalities in ORMB. For example, billing, payments, adjustments, financial transactions, credits, collections processing, loans, service credits, background processes, quotations, case management, security, overdue processing, batch scheduler, workflow and notifications.</p> <p>The information available in this document can be used in both financial services and health insurance domains.</p>
<i>Oracle Revenue Management and Billing Banking User Guide</i>	<p>Describes various features which are available for the financial services business. For example, customer registration, customer 360° view, invoicing group, pricing management, multi-currency accounts, currency conversion, construct based billing and settlement, trial billing, product lifecycle management, subscription billing, mass pricing update, accrual, foreign exchange gain loss, transaction feed management, upload validated payment and adjustment data, freeze payments on notification, payment request, offset request, funding request, hold request, refund/write off request, dispute request, upload request, earnings credit rate, payment agreement request, invoice request, deal management, etc.</p> <p>It describes all screens related to these features and explains how to perform various tasks related to the feature in the application.</p>

Document	Description
<i>Oracle Revenue Management and Billing Insurance User Guide</i>	<p>Describes various features which are available for the following three lines of health insurance business – fully-insured group, self-funded, and individual. For example, customer registration, customer 360° view, pricing management, trial billing, transaction feed management, upload validated payment and adjustment data, freeze payments on notification, payment request, offset request, funding request, hold request, refund/write off request, upload request, payment agreement request, invoice request, inbound message processing, reconciliation, entity audit, premium repricing, etc.</p> <p>It describes all screens related to these features and explains how to perform various tasks related to the feature in the application.</p>
<i>Oracle Revenue Management and Billing Installation Guide</i>	<p>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 pre-requisites 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 OUAF, OUAF rollup packs, ORMB, and ORMB patches or rollup packs.</p> <p>It contains appendices which lists ORMB rollup packs and notices about third party JAR and other components.</p>
<i>Oracle Revenue Management and Billing Quick Installation Guide</i>	<p>Provides information about the media packs which are available for the current release. It contains information about the supported platforms, space requirements, and release-specific documentation library. In addition, it contains high-level information on how to install ORMB and selected additional software.</p>

Document	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 OUAF, information about OUAF 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>

Document	Description
<i>ORMB - Transaction Feed Management - Batch Execution Guide</i>	<p>Explains the sequence in which the batches should be executed while performing various tasks in the Transaction Feed Management module.</p> <p>It provides detailed information about each TFM batch and its parameters. It also indicates the restart and multi-threading ability of each batch. In addition, it recommends values for various parameters which can be used for tuning batch performance as per the available hardware.</p>
<i>Oracle Revenue Management and Billing Batch Guide</i>	<p>Provides detailed information about various batches which are used in different modules, such as billing, payments, financial transaction, pricing management, funding request, offset request, hold request, upload request, inbound message, payment agreement request, accruals, earnings credit rate, ILM, deferred revenue recognition, reconciliation, garbling, repricing, entity audit, statements, etc. It also contains information about the batch parameters and the batch restart and multi-threading abilities.</p>
<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 Upgrade Path Guide</i>	<p>Explains the path and pre-requisites for upgrading Oracle Revenue Management and Billing from one version to another.</p>
<i>Oracle Revenue Management and Billing Direct Database Upgrade Guide</i>	<p>Explains how to directly upgrade the ORMB database from 2.3.0.2.0 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>

Document	Description
<i>Oracle Revenue Management and Billing Information Lifecycle Management (ILM) Implementation Guide</i>	Provides an overview of the Information Lifecycle Management (ILM) feature. It describes how to implement ILM for the Transaction Feed Management (TFM) and Billing modules. It also provides detailed information about the ILM batches and their parameters.

These 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 3.X.X.X.X Documentation Library) using the following URL:

<https://www.oracle.com/technical-resources/documentation/fsgbu.html>

Change Log

Revision	Last Update	Updated Section	Comments
1.1	7-Jun-2022	Section 1: Oracle Revenue Management and Billing Licensing	Updated Information

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1. Oracle Revenue Management and Billing Licensing

Oracle offers the Oracle Financial Services Revenue Management and Billing product for the financial services domain and the Oracle Insurance Revenue Management and Billing product for the insurance domain. We offer both the perpetual and annual subscription software license models for the Oracle Financial Services Revenue Management and Billing product and only the perpetual license model for the Oracle Insurance Revenue Management and Billing product. For more information about the license and its use, rights and obligations, you can contact the Oracle License Management Services representative listed on <http://www.oracle.com/us/corporate/license-management-services/index.html>.

Oracle Financial Services Revenue Management and Billing Version 3.2.0.0.0 and Oracle Insurance Revenue Management and Billing Version 3.2.0.0.0 media packs are common for all platforms. You can download the media packs from [Oracle Software Delivery Cloud](#).

Oracle customers who have purchased support have access to electronic support through [My Oracle Support](#). If anyone in the team is deaf, hard-of-hearing, or have a speech disability, they can refer to <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info> or <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs> for technical assistance.

The following table lists the features available in these products:

Product Name	Features				
Oracle Financial Services Revenue Management and Billing	<p>This product contains various modules which offer the following features:</p> <table border="1" data-bbox="505 1066 1404 1866"> <thead> <tr> <th data-bbox="505 1066 751 1115">Module</th> <th data-bbox="751 1066 1404 1115">It enables you to...</th> </tr> </thead> <tbody> <tr> <td data-bbox="505 1115 751 1866">Customer Management</td> <td data-bbox="751 1115 1404 1866"> <ul style="list-style-type: none"> • Maintain the customers, customer hierarchy, and their accounts • Maintain the automatic payment instructions for accounts • Configure the multi-currency feature for accounts and thereby enable them to create bills, payments, and adjustment in a currency which is different from the account's invoice currency • Configure the approval workflow process for various actions or entities in the system • View 360 degree information of the customers and their accounts • Configure notifications for the File Upload Interface utility to create an alert for the records which are in the Error status • Configure notifications for the Transaction Feed Management feature to create an alert for the records which are in the Ignored or Error status </td> </tr> </tbody> </table>	Module	It enables you to...	Customer Management	<ul style="list-style-type: none"> • Maintain the customers, customer hierarchy, and their accounts • Maintain the automatic payment instructions for accounts • Configure the multi-currency feature for accounts and thereby enable them to create bills, payments, and adjustment in a currency which is different from the account's invoice currency • Configure the approval workflow process for various actions or entities in the system • View 360 degree information of the customers and their accounts • Configure notifications for the File Upload Interface utility to create an alert for the records which are in the Error status • Configure notifications for the Transaction Feed Management feature to create an alert for the records which are in the Ignored or Error status
Module	It enables you to...				
Customer Management	<ul style="list-style-type: none"> • Maintain the customers, customer hierarchy, and their accounts • Maintain the automatic payment instructions for accounts • Configure the multi-currency feature for accounts and thereby enable them to create bills, payments, and adjustment in a currency which is different from the account's invoice currency • Configure the approval workflow process for various actions or entities in the system • View 360 degree information of the customers and their accounts • Configure notifications for the File Upload Interface utility to create an alert for the records which are in the Error status • Configure notifications for the Transaction Feed Management feature to create an alert for the records which are in the Ignored or Error status 				

Product Name	Features	
	Pricing	<ul style="list-style-type: none"> • Design a simple, medium, or complex pricing for the banking services offered to the customers • Design the multi-parameter based pricing or two-dimensional pricing for the banking services • Inherit pricing from different entities, such as customer, parent customer, parent price list, and so on • Design rates which helps to control how the service charges are calculated, how charges appear on the customer's bills, and how general ledger is affected by the charges • Update multiple active pricing for a price item assigned at different levels at once • Manage the entire lifecycle of the corporate banking products from their inception to retirement • Manage the entire lifecycle of the retail banking products, market products, promotional offers, and bundles from their inception to retirement • Ability to simulate a price list and analyze the original and proposed revenue and the revenue variation for an account where the price list is assigned
	Billing	<ul style="list-style-type: none"> • Create and manage customer's regular and adhoc bills • Create and review trial bills for customer's accounts • Generate regular and trial bills for an account through an invoice request • Adjust a contract's balance • Process banking transactional data to automatically create service charges based on certain rules • Upload adjustment data received from an external source system and then create adjustments • Define the billing hierarchy using the construct based billing feature • Configure the subscription based billing for accounts

Product Name	Features	
		<ul style="list-style-type: none"> • Generate earnings credit rate (i.e. reward points) and distribute them to offset the bills of the source account, bills of other accounts of the source customer, or the bills of the accounts identified in the distribution hierarchy • Upload data related to service charges received from the external system • Create, manage, and print customer's statements
	Accounting	<ul style="list-style-type: none"> • Generate financial transactions for bills, payments, and adjustments • Post the financial transactions to the general ledger using the standard or configurable process • Enables you to validate the extracts which are sent to the GL system • Transfer deferred revenue to earned revenue using deferred revenue recognition schedule • Track the foreign exchange gain or loss due to fluctuations in the exchange rate and accordingly post it to different general ledger • Accrue revenues that have been earned and expenses that have been incurred for customers' accounts
	Payments and Receivables	<ul style="list-style-type: none"> • Create and manage customer's payments • Interface payments from an external source, such as remittance processor • Freeze payments on notification from auto clearing house • Create and transfer payments through a payment request • Offset the credit and debit bills across accounts of the person and/or its hierarchy in the same currency or in the different currencies • Refund or write off amount through a refund or write off request • Hold a person, account, or bill through a hold request • Create a hold request from the user interface or through a REST based inbound web service

Product Name	Features	
		<ul style="list-style-type: none"> • Schedule payments for unpaid bills through a payment arrangement, payment agreement request, or a promise to pay • Upload data received from the external system and then accordingly create multiple hold requests, refund requests, or write off requests at once
	Collections	<ul style="list-style-type: none"> • Periodically monitor how much the customers owe to ensure they haven't violated your collection criteria • View overdue bills of the delinquent accounts • Manage complaints by logging a case • Track disputes against a bill, bill line item, or adjustment through a dispute request • Hold overdue processes of accounts • Help collections through different processes, such as dunning letters, flexible payment plans, etc.
	Deal Modelling and Simulation	<ul style="list-style-type: none"> • Complete functionality designed to manage the entire deal pricing and execution process with a more predictable and profitable outcome • Create deals for existing customers, accounts, and prospects to simulate proposed pricing on proposed commitments and thereby analyze the profitability and revenue from the deal • Design a simple, medium, or complex approval process for deals • Review deals at regular intervals on customer orchestration • Leveraging deal template to create new deals • Provision to select the price items and hierarchy entities that should be included in the deal • Detailed dashboards listing the holistic views of deal, revenue metrics, customer metrics, Top N customers by revenue, variation from last period, etc.
	Information Lifecycle Management	<ul style="list-style-type: none"> • Archive a voluminous transactional data ensuring that referential integrity of the overall system is maintained

Product Name	Features	
Oracle Insurance Revenue Management and Billing	This product contains various modules which offer the following features:	
	Module	It enables you to...
	Customer Management	<ul style="list-style-type: none"> • Maintain the customers, customer hierarchy, and their accounts • Maintain the automatic payment instructions for accounts • Maintain the policy holders and billing entities from the user interface or through inbound messages • Maintain the derivation and pricing parameters for the billing entities using which the system can automatically derive the billing entity to whom the membership charges should be billed • Maintain the self-funded and fully-insured group policies from the user interface or through inbound messages • Maintain the fully-insured group policy plans, memberships, and member persons from the user interface or through inbound messages • Maintain the health products and health plans for individual health insurance through inbound messages • Maintain the individual memberships and member persons through inbound messages • Configure the approval workflow process for various actions or entities in the system • View 360 degree information of the customers and their accounts
Pricing	<ul style="list-style-type: none"> • Design a simple, medium, or complex pricing for the self-funded, fully-insured group, and individual health plans • Design the multi-parameter based pricing for the self-funded, fully-insured group, and individual health plans • Inherit pricing from parent customer for the self-funded or fully-insured group health plans • Design the rates which helps to control how the service charges are calculated, how charges appear on the customer’s bills, and how general ledger is affected by the charges 	

Product Name	Features
	<ul style="list-style-type: none"> • Define pricing for the self-funded services, such as accumulation products like stop-loss, discount arrangement, level funding, and minimum premium program • Define multiple versions of pricing for self-funded services for easy disaggregation and re-accumulations • Manage SSL accumulation across bill groups using different mechanism • Define pricing for the fully-insured group health plans, such as ACA plans, COBRA coverage, Group Medicare (800 series) coverage, and retiree coverage • Define pricing for the individual health plans, such as ACA plans, Medicare plans, Grandfather plans, Retiree plans, and for all types of plans, such as Medical, Dental, Vision and supplement coverage, etc. • Calculate membership premium for the fully-insured group and individual health plans • Calculate reverse charges for the flat or percentage based employer or sponsor contribution in case of retiree group and individual memberships • Trigger repricing whenever qualifying life event changes are made to the policy, plan, or membership • Trigger repricing when the pricing rules are inactivated • Monitor a member person's age during the enrollment or renewal period and accordingly calculate the premium for the member person • Maintain the fully-insured group and individual health plan pricing through inbound messages • Maintain the fully-insured pricing, new born, binder payment, and rate guarantee business rules which are used while pricing and billing the individual memberships • Define the rate guarantee period for an individual membership • View 360 degree information of a health product and health plan

Product Name	Features	
	Billing	<ul style="list-style-type: none"> • Create and manage customer's regular and adhoc bills • Create and review trial bills for customer's accounts • Generate regular and trial bills for an account through an invoice request • Automatically generate an adhoc bill for an account on activating, terminating, and/or reinstating a fully-insured group policy • Adjust a contract's balance • Process claim transactional data to automatically create service charges based on certain rules • Bill the claim fund charges to the self-funded employer in advance • Upload the pass-through service charges for membership through inbound messages • Upload adjustment data received from an external source system and then create adjustments • Define the billing hierarchy using the bill group derivation and pricing parameters • Create, manage, and print customer's statements • Manage the fully-insured group customers as per 9/10 monthly arrangements • Create and process the premium and admin fee charges as per different proration or wash rules at the time of enrollment and termination
	Accounting	<ul style="list-style-type: none"> • Generate financial transactions for bills, payments, and adjustments • Post the financial transactions to the general ledger using the standard or configurable process • Transfer deferred revenue to earned revenue using deferred revenue recognition schedule • Track the foreign exchange gain or loss due to fluctuations in the exchange rate and accordingly post it to different general ledger

Product Name	Features	
		<ul style="list-style-type: none"> • Calculate the premium for the new born credit waiver period and post the new born waiver amount to the general ledger
	Payments and Receivables	<ul style="list-style-type: none"> • Create and manage customer's payments • Interface payments from an external source, such as remittance processor • Freeze payments on notification from auto clearing house • Create and transfer payments through a payment request • Offset the credit and debit bills across accounts of the person and/or its hierarchy in the same currency or in the different currencies • Refund or write off amount through a refund or write off request • Hold a person, account, or bill through a hold request • Create a hold request from the user interface or through a REST based inbound web service • Schedule payments for unpaid bills through a payment arrangement, payment agreement request, or a promise to pay • Upload data received from the external system and then accordingly create multiple hold requests, refund requests, or write off requests at once • Upload lockbox payment and remittance advices received in the Electronic Data Exchange (EDI) 820 format • Reconcile pay instructions received from the external system against the bill segments which are created for memberships (i.e. member to member reconciliation) • Modify the agreed limits, funds, or calculated amounts of the accumulation products within the policy period through an off-process request • Define, manage, and process the individual membership's binder payment as per grace days and threshold amount • Mass payment transfer across accounts using the File Upload Interface utility

Product Name	Features	
	Collections	<ul style="list-style-type: none">• Periodically monitor how much the customers owe to ensure they haven't violated your collection criteria• View overdue bills of the delinquent accounts• Manage complaints by logging a case• Hold overdue processes of accounts• Help collections through different processes, such as dunning letters, flexible payment plans, etc.
	Information Lifecycle Management	<ul style="list-style-type: none">• Archive a voluminous transactional data ensuring that referential integrity of the overall system is maintained

2. Third Party Licensing

This section provides the licensing information about the third party products and components which are included in Oracle Revenue Management and Billing. It includes the following sections:

- [Third Party Products Used by OUAF](#)
- [Third Party Products Used by the ORMB Database](#)
- [Third Party Products Used by the ORMB Application](#)
- [License and Copyright Notices](#)

2.1 Third Party Products Used by OUAF

The following table lists the open source and third party jars and components used by Oracle Utilities Application Framework Version 4.4.0.3.0:

Third Party Jar or Component	Version	Provider
accessors-smart	1.3	Apache Software Foundation
ant	1.10.9	Apache Software Foundation
antlr	2.7.7	Terence Parr and Sam Harwell
antlr4-runtime	4.7.2	Terence Parr and Sam Harwell
Apache Cordova	7.0.0	Apache Software Foundation
apache-xmlbeans	3.1.0	Apache Software Foundation
asm	8.0	INRIA, France Telecom
bcpkix-jdk15on	1.60	The Legion of the Bouncy Castle Inc.
bcprov-jdk15on	1.60	The Legion of the Bouncy Castle Inc.
Castor	1.4.1	Apache Software Foundation
cglib	3.3.0	Apache Software Foundation
CodeMirror	5.58.2	Marijn Haverbeke
commons-beanutils	1.9.4	Apache Software Foundation
commons-cli	1.4	Apache Software Foundation
commons-codec	1.15	Apache Software Foundation
commons-collections	3.2.2	Apache Software Foundation
commons-fileupload	1.4	Apache Software Foundation
commons-io	2.7	Apache Software Foundation
commons-lang3	3.9	Apache Software Foundation
commons-logging	1.2	Apache Software Foundation

Third Party Jar or Component	Version	Provider
commons-text	1.9	Apache Software Foundation
Cordova Android	6.4.0	Apache Software Foundation
Cordova App-Event Plugin	1.2.1	Apache Software Foundation
Cordova BackgroundFetch	5.3.0	OpenSource
Cordova BackgroundMode Plugin	0.7.2	Sebastián Katzer
Cordova Camera Plugin	4.0.3	Apache Software Foundation
Cordova Command Line Interface	8.0.0	Apache Software Foundation
Cordova Device Plugin	2.0.2	Apache Software Foundation
Cordova File Plugin	6.0.1	Apache Software Foundation
Cordova File Transfer Plugin	1.7.1	Apache Software Foundation
Cordova Geolocation Plugin	4.0.1	Apache Software Foundation
Cordova inappbrowser plugin	3.0.0	Apache Software Foundation
Cordova iOS	4.4.0	Apache Software Foundation
Cordova Local Notification Plugin	0.8.5	Apache Software Foundation
Cordova Network Information Plugin	2.0.1	Apache Software Foundation
Cordova Plugin Fingerprint aio	1.7.0	Niklas Merz
Cordova Plugin for Barcode Scanner	8.0.0	PhoneGap
Cordova Plugin Pin Check	0.0.6	Crypho AS
Cordova SQLite storage adapter	2.3.3	Apache Software Foundation
Cordova Websocket Plugin (KNOWLEDGECODE)	0.12.2	Open source
Cordova WebSQL Plugin	0.0.10	Apache Software Foundation
Cordova Whitelist Plugin	1.0.0	Apache Software Foundation
Cordova Zip Plugin	3.1.0	Chromium
cordova-plugin-compat	1.1.0	Apache Software Foundation
cordova-plugin-ios-keychain	3.0.1	Ionic
cordova-plugin-secure-keystore	1.5.6	Pradeep Singh
cordova-plugin-shared-preferences	0.1.0	Adriano Di Giovanni
dom4j	2.1.3	MetaStuff, Ltd.
ehcache-core	2.5.2	Apache Software Foundation
FullCalendar	3.10.2	Adam Shaw

Third Party Jar or Component	Version	Provider
groovy	3.0.7	Apache Software Foundation
groovy-xml	3.0.7	Apache Software Foundation
httpclient	4.5.13	Apache Software Foundation
httpclient-cache	4.1.2	Apache Software Foundation
httpcore	4.4.13	Apache Software Foundation
httpmime	4.1.2	Apache Software Foundation
icu4j	64.2	Unicode, Inc.
jackson-annotations	2.10.3	Apache Software Foundation
jackson-core	2.10.3	Apache Software Foundation
jackson-databind	2.10.3	Apache Software Foundation
jaxen-mod	1.2.0	The Werken Company
jboss-logging	3.4.1	Apache Software Foundation
jcl-over-slf4j	1.7.30	Apache Software Foundation
jettison	1.4.1	Apache Software Foundation
joda-time	2.9.6	Apache Software Foundation
jQuery	2.1.0	John Resig
jQuery	3.3.1	John Resig
jQuery	3.4.1	JS Foundation and other contributors
jQuery	3.5.1	JS Foundation and other contributors
jQueryMobile	1.4.2	jQuery Foundation and other contributors
jQueryUI	1.12.1	Paul Bakaus
JSignature	2	Willow Systems Corp
json-smart	2.4	Apache Software Foundation
Knockout Mapping	2.4.1	Steven Sanderson, Roy Jacobs
Knockout.js	3.4.2	Steven Sanderson, Roy Jacobs
log4j-api	2.13.3	Apache Software Foundation
log4j-core	2.13.3	Apache Software Foundation
Moment.js	2.21.0	Tim Wood
nimbus-jose-jwt	8.19	Apache Software Foundation
Qdox	1.12.1	Joe Walnes

Third Party Jar or Component	Version	Provider
slf4j-api	1.7.30	Quality Open Software
staxmate	2.4.0	Tatu Saloranta
swagger-ui	3.18.1	SmartBear Software
swagger-ui	3.26.2	SmartBear Software Inc.
Timezone Data 2010j	2010j	David Olson
velocity-engine-core	2.1	Apache Software Foundation
Xalan	2.7.2	Apache Software Foundation
XMLBeans	3.1.0	Apache Software Foundation
Xmlpull	1.1.3.1	XmlPull Project (xmlpull.org)
xmlschema-core	2.2.4	Apache Software Foundation
xpp3	1.1.4c	Apache Software Foundation
xstream	1.4.15	Joe Walnes

2.2 Third Party Products Used by the ORMB Database

The following table lists the third party jars and components used by the Oracle Revenue Management and Billing database:

Third Party Jar or Component	Version	Provider
commons-cli	1.4	Apache Software Foundation
commons-codec	1.15	Apache Software Foundation
commons-collections	3.2.2	Apache Software Foundation
jackson-annotations	2.10.3	Apache Software Foundation
jackson-core	2.10.3	Apache Software Foundation
jackson-databind	2.10.3	Apache Software Foundation
log4j-api	2.13.3	Apache Software Foundation
log4j-core	2.13.3	Apache Software Foundation

2.3 Third Party Products Used by the ORMB Application

The following table lists the third party jars and components used by the Oracle Revenue Management and Billing application:

Third Party Jar or Component	Version	Provider
bcpg-jdk15to18	1.68	The Legion of the Bouncy Castle Inc.

Third Party Jar or Component	Version	Provider
bcprov-jdk15to18	1.68	The Legion of the Bouncy Castle Inc.
batik-all	1.14	Apache Software Foundation
commons-codec	1.14	Apache Software Foundation
commons-collections4	4.4	Apache Software Foundation
commons-compress	1.19	Apache Software Foundation
commons-io	2.8.0	Apache Software Foundation
commons-logging	1.2	Apache Software Foundation
commons-math3	3.6.1	Apache Software Foundation
fontbox	2.0.24	Apache Software Foundation
fop	2.6	Apache Software Foundation
log4j-1.2-api	2.14.0	Apache Software Foundation
poi	4.1.2	Apache Software Foundation
poi-ooxml	4.1.2	Apache Software Foundation
poi-ooxml-schemas	4.1.2	Apache Software Foundation
serializer	2.7.2	Apache Software Foundation
SparseBitSet	1.2	Apache Software Foundation
xalan	2.7.2	Apache Software Foundation
xercesImpl	2.12.1	Apache Software Foundation
xml-apis	1.4.01	Apache Software Foundation
xml-apis-ext	1.3.04	Apache Software Foundation
xmlbeans	3.1.0	Apache Software Foundation
xmlgraphics-commons	2.6	Apache Software Foundation
curvesapi	1.06	Graph Builder

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- [Notice Concerning Usage of Apache Software](#)
- [Notice Concerning Usage of ASM](#)
- [Notice Concerning Usage of Bouncy Castle Crypto API](#)
- [Notice Concerning Usage of CodeMirror](#)
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- [Notice Concerning Usage of Cordova Plugin Pin Check](#)
- [Notice Concerning Usage of Cordova Plugin Fingerprint aio](#)
- [Notice Concerning Usage of Cordova Plugin Secure Keystore](#)
- [Notice Concerning Usage of Cordova Plugin Shared Preferences](#)
- [Notice Concerning Usage of DOM4J](#)
- [Notice Concerning Usage of FullCalendar](#)
- [Notice Concerning Usage of Graph Builder](#)
- [Notice Concerning Usage of International Components for Unicode \(ICU4J\)](#)
- [Notice Concerning Usage of Jaxen](#)
- [Notice Concerning Usage of JQuery \(3.5.1\)](#)
- [Notice Concerning Usage of JQueryMobile](#)
- [Notice Concerning Usage of JQuery UI](#)
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- [Notice Concerning Usage of Moment.js](#)
- [Notice Concerning Usage of SLF4J](#)
- [Notice Concerning Usage of Staxmate](#)
- [Notice Concerning Usage of Swagger-UI](#)
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- antlr4-runtime-4.7.2.jar

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- Apache Cordova 7.0.0
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- Castor 1.4.1
- cglib-3.3.0.jar
- commons-beanutils-1.9.4.jar
- commons-cli-1.4-c12260c.jar
- commons-codec-1.14.jar
- commons-codec-1.15.jar
- commons-collections-3.2.2.jar
- commons-collections4-4.4.jar
- commons-compress-1.19.jar
- commons-fileupload-1.4.jar
- commons-io-2.7.jar
- commons-io-2.8.0.jar

- commons-lang3-3.9.jar
- commons-logging-1.2.jar
- commons-logging-1.2-9f99a00.jar
- commons-math3-3.6.1.jar
- commons-text-1.9.jar
- Cordova Android 6.4.0
- Cordova App-Event Plugin 1.2.1
- Cordova Camera Plugin 4.0.3
- Cordova Command Line Interface 8.0.0
- Cordova Device Plugin 2.0.2
- Cordova File Plugin 6.0.1
- Cordova File Transfer Plugin 1.7.1
- Cordova Geolocation Plugin 4.0.1
- Cordova inappbrowser plugin 3.0.0
- Cordova iOS 4.4.0
- Cordova Local Notification Plugin 0.8.5
- Cordova Network Information Plugin 2.0.1
- Cordova SQLite storage adapter 2.3.3
- Cordova WebSQL Plugin 0.0.10
- Cordova Whitelist Plugin 1.0.0
- cordova-plugin-compat 1.1.0
- ehcache-core-2.5.2.jar
- fontbox-2.0.24.jar
- fop-2.6.jar
- groovy-3.0.7.jar
- groovy-xml-3.0.7.jar
- httpclient-4.5.13.jar
- httpclient-cache-4.1.2.jar
- httpcore-4.4.13.jar
- httpmime-4.1.2.jar
- jackson-annotations-2.10.3.jar
- jackson-core-2.10.3.jar
- jackson-databind-2.10.3.jar
- jboss-logging-3.4.1.Final.jar
- jcl-over-slf4j-1.7.30.jar
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- joda-time-2.9.6.jar
- json-smart-2.4.jar

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- nimbus-jose-jwt-8.19.jar
- poi-4.1.2.jar
- poi-ooxml-4.1.2.jar
- poi-ooxml-schemas-4.1.2.jar
- serializer-2.7.2.jar
- SparseBitSet-1.2.jar
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- xml-apis-1.4.01.jar
- xml-apis-ext-1.3.04.jar
- xmlbeans-3.1.0.jar
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- bcprov-jdk15on-1.68.jar
- bcpjg-jdk15to18-1.68.jar
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