

Oracle® Revenue Management and Billing Cloud Service

Release 8.1 Patch Set

Licensing Guide

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Oracle Revenue Management and Billing Cloud Service Licensing Guide

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Preface

About This Document

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

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

It also provides the licensing information for Oracle software and third-party products and components which are included in these cloud services.

Intended Audience

This document is intended for the following audience:

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

Organization of the Document

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

Section No.	Section Name	Description
Section 1	ORMB Cloud Service Licensing	Lists the features which are available in the Oracle Financial Services Revenue Management and Billing Cloud Services and Oracle Insurance Revenue Management and Billing Cloud Services.
Section 2	Oracle Software Licensing for ORMB Cloud Service	Lists the technology stack used for the Oracle Financial Services Revenue Management and Billing Cloud Services and Oracle Insurance Revenue Management and Billing Cloud Services and the respective licensing information reference.
Section 3	Third-Party Licensing for ORMB Cloud Service	Provides the licensing information about the third-party products and components which are included in the Oracle Revenue Management and Billing Cloud Services.

Acronyms

The following acronyms are used in this document:

Acronym	Meaning
ORMB	Oracle Revenue Management and Billing
OUAF	Oracle Utilities Application Framework
FW	Framework
IDCS	Oracle Identity Cloud Service

Related Documents

You can refer to the following documents for more information:

Document Name	Description
<i>Oracle Revenue Management and Billing Cloud Service Release 8.1 Patch Set Release Notes</i>	Lists the feature enhancements and client platforms and browsers that are supported in this release. It highlights different roles and responsibilities of Oracle and Customer in deploying, configuring, and maintaining the Oracle Revenue Management and Billing Cloud Service. It also highlights the known issues in this release
<i>Oracle Revenue Management and Billing Cloud Service Federated Identity Configuration Guide</i>	Provides an overview of federated SSO login. It explains how to configure federated SSO login with SAML for the ORMB Cloud Service.
<i>Oracle Revenue Management and Billing Cloud Service REST Services Configuration Guide</i>	Explains how to configure federated Web service login to access protected REST services on the ORMB Cloud environments.
<i>Oracle Revenue Management and Billing Cloud Service End User Provisioning Guide</i>	Explains how to setup the security administrator account for the ORMB Cloud Service. It also explains how to manage users and user groups for the ORMB Cloud Service. In addition, it explains how to import and export bulk users and user groups for the ORMB Cloud Service.
<i>Oracle Revenue Management and Billing Cloud Service SFTP Authentication and Access Permissions Guide</i>	Explains how to configure SFTP authentication for the ORMB Cloud Service. It also explains how to access the SFTP server using WinSCP, how to create the directories and files on the SFTP server, and how to set the read, write, and execute permissions for a file or folder on the SFTP server.
<i>Oracle Revenue Management and Billing Cloud Service SaaS Reporting using OAS</i>	Provides an overview of the ORMB SaaS reporting architecture. It also explains how to use Oracle Analytics Server for ORMB SaaS reporting.

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.
<code>monospace</code>	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.

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1. ORMB Cloud Service Licensing

Oracle Revenue Management and Billing Cloud Services is a suite of integrated cloud services designed to drive incremental revenue and profitability for today's financial services and health insurance enterprises. The modules in the suite empower financial institutions and healthcare payers to closely focus on core business objectives, including dynamic pricing, revenue uptick, and driving more flexible and innovative billing options for customers. Oracle Revenue Management and Billing Cloud Service combines the power of Oracle's market-leading pricing, revenue management and billing solution with the simplicity, elasticity, and security of Oracle Cloud. The cloud service delivers functionally rich, highly scalable pricing, billing, and collections capabilities on Oracle's secure public cloud infrastructure to help financial institutions and healthcare payers plug revenue leakage and generate new sources of revenue.

1.1 Licensing Information

This Licensing Information document is a part of the product or program documentation under the terms of your Oracle services or license agreement and is intended to help you understand the program editions, entitlements, restrictions, prerequisites, special license rights, and/or separately licensed third-party technology terms associated with the Oracle services or software program(s) covered by this document (the "Program(s)"). Entitled or restricted use products or components identified in this document that are not provided with the particular Program may be obtained from the applicable cloud service, the Oracle Software Delivery Cloud website (<https://edelivery.oracle.com>), or from media Oracle may provide. If you have a question about your rights and obligations, please contact your Oracle sales representative and/or contact the applicable Oracle License Management Services representative listed on <http://www.oracle.com/us/corporate/license-management-services/index.html>.

1.2 ORMB Cloud Service Offerings

Oracle offers Oracle Financial Services Revenue Management and Billing Cloud Services for the financial services domain and Oracle Insurance Revenue Management and Billing Cloud Services for the insurance domain. For information about the different cloud services offered for ORMB, refer to [ORMB Cloud Service Descriptions and Metrics](#).

We offer subscription license model for the Oracle Financial Services Revenue Management and Billing Cloud Services and Oracle Insurance Revenue Management and Billing Cloud Services. 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 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.

1.2.1 Oracle Financial Services Revenue Management and Billing Cloud Services

The Oracle Financial Services Revenue Management and Billing Cloud Services contain various modules which offer the following features:

Module Name	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
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 help 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

Module Name	It enables you to...
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 • 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

Module Name	It enables you to...
	<ul style="list-style-type: none"> • 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
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. • Supports API integration between ORMB and external system using which you can do the following: <ul style="list-style-type: none"> • Create, edit, and view the details of a prospect person and its accounts • Create, edit, and view the details of a prospect account

Module Name	It enables you to...
	<ul style="list-style-type: none"> • Assign a price list to an existing or prospect customer or account in a deal • Edit, delete, and view the details of a price list assignment in a deal • Override, edit, and recommend a pricing for a price item • Add or edit commitments for a price item pricing • Create, edit, and manage a deal throughout its lifecycle
Information Lifecycle Management	<ul style="list-style-type: none"> • Archive a voluminous transactional data ensuring that referential integrity of the overall system is maintained
Reporting	<ul style="list-style-type: none"> • Enables you to extract the invoice aging, user access, payment, To Do, hold process, and transaction data from ORMB using the respective FOP report in the supported formats <div data-bbox="594 804 1417 877" style="border: 1px solid black; padding: 2px;"> <p>Note: This feature is offered in the cloud services where the reporting option is available.</p> </div>
Chatbot	<ul style="list-style-type: none"> • Provides digital assistance with ODA to have conversational experiences with ORMB through text, chat, and voice interfaces
Billing Anomaly Detection with Artificial Intelligence (AI) and Machine Learning (ML)	<ul style="list-style-type: none"> • Enables you to use artificial intelligence and machine learning to detect anomalies in the bills and bill segments before the bill completion. <div data-bbox="594 1157 1417 1230" style="border: 1px solid black; padding: 2px;"> <p>Note: This feature is offered in the cloud services where the reporting option is available.</p> </div>

1.2.2 Oracle Insurance Revenue Management and Billing Cloud Services

The Oracle Insurance Revenue Management and Billing Cloud Services contain various modules which offer the following features:

Module Name	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 • 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

Module Name	It enables you to...
	<ul style="list-style-type: none"> • 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
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

Module Name	It enables you to...
	<ul style="list-style-type: none"> • 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 • Calculate the premium for the newborn 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

Module Name	It enables you to...
	<ul style="list-style-type: none"> • 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 • Systematically distribute payment against unpaid bills of an account or a statement
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
Reporting	<ul style="list-style-type: none"> • Enables you to extract the invoice aging, user access, payment, To Do, hold process, specific stop-loss, and aggregate stop-loss data from ORMB using the respective FOP report in the supported formats

2. Oracle Software Licensing for ORMB Cloud Service

The following table lists the technology stack used for the Oracle Financial Services Revenue Management and Billing Cloud Services and Oracle Insurance Revenue Management and Billing Cloud Services and the respective licensing information reference:

Oracle Software	Version	Licensing Information Reference
Oracle WebLogic Server	12.2.1.4	https://docs.oracle.com/en/middleware/fusion-middleware/fmwlc/application-server-products-new-structure.html#GUID-8CCF31F0-BAB0-4EF0-BDA9-1A399D0529BA
Oracle Database	19c	https://docs.oracle.com/en/database/oracle/oracle-database/19/dblic/Third-Party-Notices-Licenses.html#GUID-606933AB-5FB4-4271-9DA9-76DC7B41D244
Oracle JDK	8	https://www.oracle.com/docs/tech/jdk8-lium.pdf
Oracle Linux	7	https://docs.oracle.com/en/operating-systems/oracle-linux/7/licenses/licenses-ThirdPartyNoticesandLicenses.html#ol7-thirdparty-license
Oracle HTTP Server	12.2.1.4	https://docs.oracle.com/en/middleware/fusion-middleware/fmwlc/application-server-products-new-structure.html#GUID-C0AA5AC3-FDC0-4BC4-866C-A6F6306D5E59
Oracle Identity Cloud Service	-	https://docs.oracle.com/en/cloud/paas/identity-cloud/idclm/licensing-information.html#GUID-295687CC-7D95-4CB9-BA0D-84EAC974D9C0
Oracle Analytics Server	6.4	https://docs.oracle.com/en/middleware/bi/analytics-server/license-oas/open-source-or-other-separately-licensed-software-oracle-analytics-server-oasli.html
Oracle GoldenGate	19.1.0.0.220222	https://docs.oracle.com/en/middleware/goldengate/core/21.1/ogglic/third-party-licenses.html#GUID-2F8607B4-57BF-47E2-8D38-456A52FBD87A

Oracle Software	Version	Licensing Information Reference
<p>Oracle Digital Assistant</p> <p>Note: This software is used only for the Oracle Financial Services Revenue Management and Billing Cloud Services and not for the Oracle Insurance Revenue Management and Billing Cloud Services.</p>	22.1 or above	https://docs.oracle.com/en/cloud/paas/digital-assistant/licensing/#DALUM-GUID-26E51D2B-8ABF-4671-85D4-DEF1CA044258
<p>Oracle REST Data Services</p> <p>Note: This software is used for the ORMB Cloud Services where the reporting option is available.</p>	21.3.1	https://docs.oracle.com/en/database/oracle/oracle-rest-data-services/21.4/aelig/third-party-license-information.html#GUID-EEB77BED-469E-4026-B403-4ECE4F6244FA

3. Third-Party Licensing for ORMB Cloud Service

This section provides the licensing information about the third-party products and components which are included in the Oracle Revenue Management and Billing Cloud Services. 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](#)

3.1 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	2.4.7	Apache Software Foundation
ant	1.10.11	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	1.68	The Legion of the Bouncy Castle Inc.
bcprov-jdk15on	1.68	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	2.4.12	Apache Software Foundation
groovy-xml	2.4.12	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	2.12.2	Apache Software Foundation
jackson-core	2.12.2	Apache Software Foundation
jackson-databind	2.12.2	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	2.4.7	Apache Software Foundation
Knockout Mapping	2.4.1	Steven Sanderson, Roy Jacobs
Knockout.js	3.4.2	Steven Sanderson, Roy Jacobs
log4j-api	2.17.1	Apache Software Foundation
log4j-core	2.17.1	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

3.2 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	2.12.2	Apache Software Foundation
jackson-core	2.12.2	Apache Software Foundation
jackson-databind	2.12.2	Apache Software Foundation
log4j-api	2.17.1	Apache Software Foundation
log4j-core	2.17.1	Apache Software Foundation

3.3 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
bcpj-jdk15to18	1.68	The Legion of the Bouncy Castle Inc.
bcprov-jdk15to18	1.68	The Legion of the Bouncy Castle Inc.
batik-all	1.14	Apache Software Foundation
commons-codec	1.15	Apache Software Foundation
commons-collections4	4.4	Apache Software Foundation
commons-compress	1.21	Apache Software Foundation
commons-io	2.11.0	Apache Software Foundation
commons-logging	1.2	Apache Software Foundation
commons-math3	3.6.1	Apache Software Foundation
Fontbox	2.0.25	Apache Software Foundation
fop	2.6	Apache Software Foundation
Jfreechart	1.5.3	Free Software Foundation, Inc.
Json	20211205	JSON.org
log4j-api	2.17.1	Apache Software Foundation
Poi	5.1.0	Apache Software Foundation
poi-ooxml	5.1.0	Apache Software Foundation
poi-ooxml-full	5.1.0	Apache Software Foundation
poi-scratchpad	5.1.0	Apache Software Foundation
Qrcode	-	Kazuhiko Arase
serializer	2.7.2	Apache Software Foundation
SparseBitSet	1.2	Apache Software Foundation
xalan	2.7.2	Apache Software Foundation
xercesImpl	2.12.2	Apache Software Foundation
xml-apis	1.4.01	Apache Software Foundation
xml-apis-ext	1.3.04	Apache Software Foundation
xmlbeans	5.0.3	Apache Software Foundation

Third-Party Jar or Component	Version	Provider
xmlgraphics-commons	2.6	Apache Software Foundation
curvesapi	1.06	Graph Builder
xstream	1.4.18	XStream Committers

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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](#)
- [Notice Concerning Usage of Concurrent](#)
- [Notice Concerning Usage of Cordova Plugin Pin Check](#)
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- [Notice Concerning Usage of Graph Builder](#)
- [Notice Concerning Usage of International Components for Unicode \(ICU4J\)](#)
- [Notice Concerning Usage of Jaxen](#)
- [Notice Concerning Usage of JfreeChart Library](#)
- [Notice Concerning Usage of JQuery \(3.5.1\)](#)
- [Notice Concerning Usage of JQueryMobile](#)
- [Notice Concerning Usage of JQuery UI](#)
- [Notice Concerning Usage of JSignature](#)
- [Notice Concerning Usage of JSON](#)
- [Notice Concerning Usage of Knockout](#)
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- [Notice Concerning Usage of Moment.js](#)
- [Notice Concerning Usage of QR Code](#)
- [Notice Concerning Usage of SLF4J](#)
- [Notice Concerning Usage of Staxmate](#)
- [Notice Concerning Usage of Swagger-UI](#)
- [Notice Concerning Usage of XMLPULL](#)

- [Notice Concerning Usage of XStream](#)

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- antlr4-runtime-4.7.2.jar

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- Apache Cordova 7.0.0
- apache-xmlbeans-3.1.0.jar
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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-1.15.jar

- commons-collections-3.2.2.jar
- commons-collections4-4.4.jar
- commons-compress-1.21.jar
- commons-fileupload-1.4.jar
- commons-io-2.7.jar
- commons-io-2.11.0.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-2.0.25.jar
- fop-2.6.jar
- groovy-2.4.12.jar
- groovy-xml-2.4.12.jar
- httpclient-4.5.13.jar
- httpclient-cache-4.1.2.jar
- httpcore-4.4.13.jar
- httpmime-4.1.2.jar
- jackson-annotations-2.12.2.jar
- jackson-core-2.12.2.jar

- jackson-databind-2.12.2.jar
- jboss-logging-3.4.1.Final.jar
- jcl-over-slf4j-1.7.30.jar
- jettison-1.4.1.jar
- joda-time-2.9.6.jar
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- log4j-api-2.17.1.jar
- log4j-core-2.17.1.jar
- nimbus-jose-jwt-8.19.jar
- poi-5.1.0.jar
- poi-ooxml-5.1.0.jar
- poi-ooxml-full-5.1.0.jar
- poi-scratchpad-5.1.0.jar
- serializer-2.7.2.jar
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- xml-apis-1.4.01.jar
- xml-apis-ext-1.3.04.jar
- xmlbeans-5.0.3.jar
- xmlgraphics-commons-2.6.jar
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JFreeChart : a free chart library for the Java(tm) platform

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