

# **Oracle® Revenue Management and Billing**

Version 2.3.0.0.0

## **Release Notes**

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## About this Document

This document describes the enhancements made in this release. It indicates the changes made to the existing screens in Oracle Revenue Management and Billing. It also highlights the bug fixes and known issues in this release.

This document does not describe the functionality of Oracle Revenue Management and Billing or technical know-how on how to install or upgrade Oracle Revenue Management and Billing. For more detailed information, you can refer to the following documents:

Document	Description
<i>Oracle Revenue Management and Billing Banking User Guide</i>	Lists and describes various banking features in Oracle Revenue Management and Billing. It also describes all screens related to these features and explains how to perform various tasks in the application.
<i>Oracle Revenue Management and Billing Installation Guide</i>	Lists the pre-requisites, supported platforms, and hardware and software requirements for installing the Oracle Revenue Management and Billing application. It also explains how to install the Oracle Revenue Management and Billing application.
<i>Oracle Revenue Management and Billing Quick Installation Guide</i>	Provides high-level information on how to install the Oracle Revenue Management and Billing application.
<i>Oracle Revenue Management and Billing Database Administrator's Guide</i>	Provides detailed information on how to install the database for the Oracle Revenue Management and Billing application.
<i>ORMB-Documaker Integration Guide for Banking</i>	Provides detailed information on how to integrate Oracle Documaker with Oracle Revenue Management and Billing.
<i>ORMB - Transaction Feed Management - Batch Execution Guide</i>	Describes the order in which the batches must be executed during the Transaction Feed Management process.
<i>Oracle Revenue Management and Billing Server Administration Guide</i>	Describes the Oracle Revenue Management and Billing architecture. It also explains how to configure, deploy, and monitor web and business application servers.
<i>Oracle Revenue Management and Billing Batch Server Administration Guide</i>	Provides detailed information on how to configure and work with the batch component in Oracle Revenue Management and Billing.
<i>Oracle Revenue Management and Billing Security Guide</i>	Describes how to configure security for the Oracle Revenue Management and Billing application using the default security features.

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# New Features

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This section describes the following new features which are added in this release:

- On Demand Billing
- Multi Parameter Based Pricing

## On Demand Billing

Oracle no longer supports the Off Cycle Billing feature introduced in Oracle Revenue Management and Billing Version 2.2.4.2. Instead, the On Demand Billing feature has been introduced to facilitate adhoc and regular billing. Earlier, you were only able to carry out billing based on the bill cycle (defined for the account). In other words, you were able to generate a bill for a bill cycle using the billable charges whose start and end dates fall within the bill cycle. However, there might be situations where you have received certain billing information after the bill is generated for the bill cycle. In such scenarios, you would like to generate a separate bill for the newly created billable charges. The system now allows you to generate an adhoc bill. However, note that you cannot generate adhoc bills through the **Bill** screen.

A bill is generated using the billable charges. Now, in order to differentiate between the normal and adhoc billable charges, you need to set the **Adhoc Bill** flag for the billable charges. If the value of the **Adhoc Bill** flag is set to **Y**, the system will consider the billable charge during adhoc billing. And, if the value of the **Adhoc Bill** flag is set to **N**, the system will consider the billable charge during regular billing based on the bill cycle.

A new batch named **C1-FABL** is created which generates adhoc bills. Both, automatically generated and manually created billable charges (with the **Adhoc Bill** flag set to **Y**) are considered during adhoc billing.

Oracle Revenue Management and Billing provides you with a facility to upload usage data received from various product processors or banking applications for billing. You can upload a usage data file in the CSV format. You need to ensure that the CSV file is in the required format; otherwise the file will not be uploaded in the system.

When you upload a usage data file, mapping algorithm parses the flat file in the CSV format and maps the columns in the CSV file to an XML schema named **Interface**. The validation process starts immediately after the file is uploaded in the system. During the validation process, the system and custom validations (if any) are executed. The status of each usage record is changed to **Valid** or **Invalid** depending on whether the usage record was validated successfully or not. Once a usage record is successfully validated, you can submit the valid records and create billable charges for them.

You can optionally configure the system to use the approval workflow process for a usage data file. On submitting a valid record, the approval workflow process routes the usage record to the approver for approval. The approver receives a notification to approve the valid records. The approver can either approve or reject one or more valid records. Once the approver approves a valid record, a billable charge is created for the usage record. However, if the approver rejects a valid record, a notification is

sent to the submitter to resolve the usage record. The submitter can then correct the existing data or add missing data (based on the review comments), and can again submit the valid record for approval. Once the valid record is approved, a billable charge is created for the usage record.

You may or may not specify the Bill After Date while uploading a usage data file. The Bill After Date indicates the date after which adhoc or normal bills must be generated. The system behaves in the following manner when:

- **Billing Method — Adhoc Billing, Bill After Date — Specified:** Adhoc bill is generated for the usage data file and account combination when the Bill After Date is equal to or earlier than the current date.
- **Billing Method — Adhoc Billing, Bill After Date — Not Specified:** During the upload process, the Bill After Date is set to the current date. And, adhoc bill is generated for the usage data file and account combination when the Bill After Date is equal to or earlier than the current date.
- **Billing Method — Regular Billing, Bill After Date — Specified:** Normal bill is generated for the account in the bill cycle in which the bill after date falls.
- **Billing Method — Regular Billing, Bill After Date — Not Specified:** Normal bill is generated for the account based on the bill cycle defined for the account.

Once the adhoc or normal bills are generated for a usage data file, you can freeze and complete the bills. During the on demand billing process, each usage record goes through various statuses until it is billed to the customer.

**Note:** The adhoc bill generation and on demand billing processes are supported only for the Banking module.

## Multi Parameter Based Pricing

The price for a product or service may differ depending upon various transaction, customer or account attributes. Oracle Revenue Management and Billing provides a facility to define pricing for a product based on multiple parameters. This multi parameter based pricing feature enables the price analyst to define product and its parameters which influence pricing. You can then define pricing for the product based on these parameters. Bundles are offered to customers to provide discounted rates. You can also define pricing for bundles based on multiple parameters. To enable the multi parameter based pricing feature, you must set the **Multi Price Parameter** option type of the **C1\_PPARM\_FLG** feature configuration to **True**.

If the multi parameter based pricing feature is disabled, you can define pricing for a product based on the variance parameter. If the multi parameter based pricing feature is enabled, you can define pricing for a product based on multiple parameters.

Some parameters might be mandatory and some might be optional while defining product pricing. You can define product pricing based on these parameters at various levels, such as:

- Account Agreed



- Account Price List
- Account Inherited Price List
- Customer Agreed
- Customer Price List
- Customer Inherited Price List
- Parent Customer Agreed
- Parent Customer Price List
- Parent Customer Inherited Price List
- Default Price List
- Global Price List

As prices can be defined at multiple levels, the system first searches for exact match at all levels (using the search order). If the system finds the exact match at multiple levels, the price assignment at the higher precedence level is considered for calculating the charges. But, if the system does not find the exact match at any level, it searches for the best fit match at all levels. If the system finds the best fit match with same weight at multiple levels, the price assignment at the higher precedence level is considered for calculating the charges.

# Enhancements

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This section lists the enhancements made to the following features:

- Transaction Feed Management
- Billing
- Pricing Management
- Invoicing Group
- Payments

## Transaction Feed Management

The following changes are made to the transaction feed management process:

- A new sub-process named **Parameter Group Creation** is introduced in the transaction feed management process. This sub process must be executed only when the multi parameter based pricing feature is enabled. You can execute the parameter group creation process through a multi-threaded batch named **C1-PRMGC**.
- The following sub-processes are redesigned to work when the multi parameter based pricing feature is enabled:
  - Transaction Validation and Initial Product Determination
  - Pricing Verification
  - Aggregation
- Two new soft parameters named Checksum Validation Required and Duplicate Check Required are added in the C1-TXNHV batch. You can set the value of these parameters to Y or N. When you set the value of the **Checksum Validation Required** parameter to **Y** and execute the C1-TXNHV batch, the system validates the following:
  - The number of transaction records in the file matches the total transaction records in the header.
  - The sum of transaction amount matches the total transaction amount in the header.
  - The sum of transaction volume matches the total transaction volume in the header.

When you set the value of the **Duplicate Check Required** parameter to **Y** and execute the C1-TXNHV batch, the system validates the following:

- File with the same header date and external header ID is not available in the system.
- The duplicate file check is done only against the files or feeds which are in the **Validated (VALI)** status and not against the feeds which are in the **Uploaded (UPLD)** status.

- If the file or header information is validated successfully, the status of the file or feed is changed to **Validated (VALI)** and the status of all transactions in the feed remains as **Uploaded (UPLD)**. However, if the header validation fails, the status of the feed and all transactions in the feed is changed to **Invalid (INVL)**.
- During the transaction validation, if the transaction information is invalid or incorrect (for example, division is invalid), the status of the transaction is changed to **Error (EROR)**. But, if the transaction information is not available, the status of the transaction is changed to **Invalid (INVL)**.
- Earlier, the system allowed only one account to bear the charges for a transaction. But, now, the system allows multiple accounts to bear the charges for a transaction. However, these accounts must belong to the division to which the transaction belongs.
- Earlier, you were only able to limit the maximum products that can be mapped to a transaction. But, now, you can also limit the maximum accounts that can bear the charges for a transaction and the maximum parameters that can be used with each product.
- The following new output parameters are available which can be used while defining rules in the system:
  - Account Division (DIVISIONX\_VAL)
  - Account Division Column (DIVISIONX\_COL)
  - Parameter Code (PCDX\_Y\_Z\_VAL)
  - Parameter Value (PVLX\_Y\_Z\_VAL)
  - Parameter Value Column (PVLX\_Y\_Z\_COL)
- Three new soft parameters named Transaction Header ID, Transaction Source, and Division are added in the C1-TXNRB batch.
- Two new soft parameters named Maximum Batch Count and Chunk Size are added in the C1-TXCNC batch.
- Two new soft parameters named Chunk Size and Pricing Level are added in the C1-TXNVP batch.
- The Max Parallel Jobs on Database soft parameter is removed and the following new soft parameters are added in the C1-TXNCU batch:
  - Transaction Header ID
  - Transaction Source
  - Division
  - Request Type
- Now, to cancel a transaction feed, you need to execute the following batches in the specified order:
  1. C1-DELBL

2. C1-TXNCU
  3. C1-TXCNC
- A new batch named **Bill Deletion (C1-DELBL)** is introduced in the system. It is used to delete the bills (with the Pending status) and their corresponding bill segments during the cancellation process.
  - You can now use the C1-TXNCU batch to recalculate SQIs not only when the transactions are in the **Error (EROR)** status, but also during the cancellation process.
  - Now, the **Transaction Details** screen allows you to search for transactions with the following status:
    - Uploaded
    - Initial Product Determined
    - Ignored
    - Error
    - Cancelled
    - Completed
    - Invalid
  - The feed status can be either of the following:
    - Uploaded
    - Validated
    - Invalid
    - Cancelled
  - Earlier, you were able to add the UDF\_CHAR\_1 to UDF\_CHAR\_10 columns in the CSV file while uploading the transaction data using the sample interface. But, now, you can add the UDF\_CHAR\_1 to UDF\_CHAR\_25 columns in the CSV file.
  - Besides setting the C1\_RLENG and C1-TXNDMYID feature configurations, you also need to set the C1\_PPARM\_FLG feature configuration.
  - The TOUX\_Y\_Val\_Val output parameter is renamed to TOUX\_Y\_Val and TOUX\_Y\_Val\_Col output parameter is renamed to TOUX\_Y\_Col.
  - In the CSV file, if a transaction or any other user defined currency is other than the division's base currency, the system will do the currency conversion if the appropriate exchange rate is available in the system.
  - If the base currency is not defined for the division (to which the transaction belongs), the status of the transaction is changed to **Error (EROR)**.

## Billing

The following changes are made in the billing feature:

- The **Off Cycle Billing** (OFFCYC-BILLING) parameter is removed from the **Billing** (BILLING) batch.
- The **Bill Cycle** (BILL-CYC-CD) parameter is added in the **Billing** (BILLING) batch. It is used to specify the bill cycle for which you want to generate the bills.
- A new batch named **C1-FABL** is created which generates adhoc bills. Both, automatically generated and manually created billable charges (with the **Adhoc Bill** flag set to **Y**) are considered during adhoc billing.
- You can now specify the currency in which the billable charge line item is charged. If you specify a currency other than the account's invoice currency, the system will do the currency conversion if the appropriate exchange rate is available in the system.
- A new soft parameter named **Characteristic Type for Billable Charge Id** is added in the **BS-CRE-PRICE** algorithm type.
- Earlier, the system did not allow you to track the adjustments which were rejected by an approver. Now, on rejecting an adjustment, a To Do entry is created using the **C1-ADJRJ** To Do type. You can search for the To Do entry in the **To Do List** screen. On clicking the **Submitted Message** link corresponding to the To Do entry, the **Adjustment** screen appears with the details of the account whose adjustment was rejected. You can then create a new adjustment for the account.

## Pricing Management

The following changes are made in the pricing management feature:

- Earlier, the system did not allow you to assign a parent product if its child products are already assigned to a price list, customer, or an account, and vice versa. Now, you can assign a parent and child products, which are associated to each other using the relationship type, such as product, service and service group, to a price list, customer, or an account.
- The following relationship types used for associating two or more products are removed and no longer supported:
  - Other
  - Sweep Credit
  - Sweep Debit
- You cannot copy a bundle when the **Multi Price Parameter** option type of the **C1\_PPARAM\_FLG** feature configuration is set to **True**.
- Earlier, while copying a price list, you were able to copy pricing along with the products. Now, you can also copy price list hierarchy along with the price list.

- The system allows you to specify the schedule even if the **Aggregate Transaction** field is set to **No**. In this case, the billable charge start date is equal to the aggregation schedule start date and the billable charge end date is equal to the aggregation schedule end date.
- Earlier, you were able to associate two or more products with each other only when they are associated to the same contract type. Now, if you are associating a product to another product (and not adding a product to a bundle), then the two products need not have same contract type associated with them.

## Invoicing Group

The following changes are made in the invoicing group feature:

- Earlier, on searching for an account while adding a member in the master account, only child customers' accounts that meet the search criteria were listed in the search results. Now, accounts of all customers (such as, parent, child, and siblings) in the hierarchy that meet the search criteria are listed in the search results.
- Earlier, all contracts linked at the member level were duplicated at the master level when member accounts were added to the master account. Now, only contracts which are eligible for billing are duplicated at the master level when member accounts are added to the master account.

## Payments

The following changes are made in the payments feature:

- A new screen named **Payment History - Search Portal** is added in the **Financial Query** menu. It allows you to search for a payment using various search criteria.

## User Interface (UI) Level Changes

The following table lists changes made to the existing screens in Oracle Revenue Management and Billing:

Screen	Changes
Add Product Pricing, Edit Assigned Pricing, Override Product Pricing	<p>The following changes are made to these screens:</p> <ul style="list-style-type: none"> <li>• The <b>Product Parameters</b> field is added at two places – one at the top and another in the <b>Tiering Ranges</b> section. This field appears only when the <b>Multi Price Parameter</b> option type of the <b>C1_PPARM_FLG</b> feature configuration is set to <b>True</b>.</li> <li>• The <b>Variance Parameter</b> field appears at the top and in the <b>Tiering Ranges</b> section only when the <b>Multi Price Parameter</b> option type of the <b>C1_PPARM_FLG</b> feature configuration is set to <b>False</b>.</li> <li>• On clicking the <b>Search</b> icon corresponding to the <b>Product Parameters</b> field, the <b>Product Parameters</b> screen appears.</li> </ul>
Transaction Record Type (Used for Adding, Editing, and Copying)	<p>The following changes are made to this screen:</p> <ul style="list-style-type: none"> <li>• The <b>Maximum Product Parameters</b> field is added in this screen.</li> <li>• The <b>Maximum Accounts to be charged</b> field is enabled.</li> </ul>
View Rule Type	<p>The following changes are made to this screen:</p> <ul style="list-style-type: none"> <li>• The <b>Rule Type Input</b> column in the <b>Rule Type Information</b> zone is renamed to <b>Field Type</b>.</li> </ul>
Invoicing Group Maintenance - Add/Edit	<p>The following changes are made to this screen:</p> <ul style="list-style-type: none"> <li>• The <b>Cancel</b> button is removed from the <b>Add Member</b> zone.</li> </ul>

Screen	Changes
Manage Products	<p>The following changes are made to this screen:</p> <ul style="list-style-type: none"> <li>• The <b>Copy</b> column appears in the <b>Search Results</b> section only when you search for a bundle. However, if the <b>Multi Price Parameter</b> option type of the <b>C1_PPARM_FLG</b> feature configuration is set to <b>True</b>, this column does not appear when you search for a bundle.</li> <li>• You can now access this screen from <b>Main Menu</b> and not from <b>Admin Menu</b>.</li> </ul>
View Billed Transactions	<p>The following changes are made to this screen:</p> <ul style="list-style-type: none"> <li>• The <b>Division</b> field is no more required when you search for a bill using the Bill ID or the Alternate Bill ID.</li> <li>• The <b>Product Description</b> column in the <b>Bill Segments</b> zone is renamed to <b>Product</b>.</li> <li>• The <b>Product Parameters</b> column is added in the <b>Bill Segments</b> zone. This column appears only when the <b>Multi Price Parameter</b> option type of the <b>C1_PPARM_FLG</b> feature configuration is set to <b>True</b>.</li> <li>• The <b>Variance Parameter</b> column appears in the <b>Bill Segments</b> zone only when the <b>Multi Price Parameter</b> option type of the <b>C1_PPARM_FLG</b> feature configuration is set to <b>False</b>.</li> </ul>
Feed Management Dashboard	<p>The following changes are made to this screen:</p> <ul style="list-style-type: none"> <li>• The <b>Error Message</b> and <b>Invalid Volume</b> columns are added in the <b>Search — Feed Level</b> zone.</li> <li>• The <b>Invalid Volume</b> column is added in <b>Division Level Information</b> zone.</li> <li>• The <b>Transaction Level Information</b> zone allows you to filter transactions based on various search criteria.</li> <li>• The <b>Error Message</b> column is added in the <b>Transaction Level Information</b> zone.</li> </ul>
Product Relationship Maintenance	<p>The following changes are made to this screen:</p> <ul style="list-style-type: none"> <li>• The <b>Product Parameters</b> column is added in the <b>Assigned Products</b> zone.</li> </ul>



Screen	Changes
Pricing (Account), Pricing (Customer)	<p>The following changes are made to these screens:</p> <ul style="list-style-type: none"> <li>• The <b>Product Parameters</b> column is added in the <b>Effective Price Assignment</b> zone. This column appears only when the <b>Multi Price Parameter</b> option type of the <b>C1_PPARM_FLG</b> feature configuration is set to <b>True</b>.</li> <li>• The <b>Variance</b> column appears in the <b>Effective Price Assignment</b> zone only when the <b>Multi Price Parameter</b> option type of the <b>C1_PPARM_FLG</b> feature configuration is set to <b>False</b>.</li> </ul>
Add/Edit Product Relationship	<p>The following changes are made to this screen:</p> <ul style="list-style-type: none"> <li>• The <b>Product Parameters</b> column is added in the <b>Search Results</b> section. It appears only when the <b>Multi Price Parameter</b> option type of the <b>C1_PPARM_FLG</b> feature configuration is set to <b>True</b>. Even if the multi parameter based pricing feature is enabled, it does not appear when you are adding products to a regular bundle.</li> <li>• The <b>End Date</b> field is removed from the <b>Search Criteria</b> section.</li> </ul>
Add Product, Edit Product, View Product	<p>The following changes are made to these screens:</p> <ul style="list-style-type: none"> <li>• The <b>Parameters</b> tab is added in these screens. It appears only when the <b>Multi Price Parameter</b> option type of the <b>C1_PPARM_FLG</b> feature configuration is set to <b>True</b>. Also, while viewing, editing and creating a ratio and phantom bundle, the <b>Parameters</b> tab does not appear in these screens.</li> </ul>

Screen	Changes																				
Transaction Details (Used for Searching)	<p>The following changes are made to this screen:</p> <ul style="list-style-type: none"> <li>The <b>Invalid</b> option is added in the <b>Query Option</b> list.</li> <li>The following table lists the columns which are added in the <b>Search Results</b> section when you search for a transaction with:</li> </ul> <table border="1" data-bbox="719 478 1435 804"> <thead> <tr> <th>Status</th><th>Column Name</th></tr> </thead> <tbody> <tr> <td>Uploaded</td><td>Manual Entry</td></tr> <tr> <td>Initial Product Determined</td><td>Product Parameters</td></tr> <tr> <td>Completed</td><td>Product Parameters</td></tr> <tr> <td>Cancelled</td><td>Manual Entry</td></tr> </tbody> </table> <ul style="list-style-type: none"> <li>The following table lists the columns which are removed from the <b>Search Results</b> section when you search for a transaction with:</li> </ul> <table border="1" data-bbox="719 940 1435 1224"> <thead> <tr> <th>Status</th><th>Column Name</th></tr> </thead> <tbody> <tr> <td>Uploaded</td><td>Customer Reference Number</td></tr> <tr> <td>Completed</td><td>Transaction Upload Date</td></tr> <tr> <td>Cancelled</td><td>Customer Reference Number</td></tr> <tr> <td>Ignored</td><td>Customer Reference Number</td></tr> </tbody> </table> <ul style="list-style-type: none"> <li>The <b>Variance Parameter</b> column appears in the <b>Search Results</b> section only when the <b>Multi Price Parameter</b> option type of the <b>C1_PPARM_FLG</b> feature configuration is set to <b>False</b>.</li> <li>The <b>Product Parameters</b> column appears in the <b>Search Results</b> section only when the <b>Multi Price Parameter</b> option type of the <b>C1_PPARM_FLG</b> feature configuration is set to <b>True</b>.</li> </ul>	Status	Column Name	Uploaded	Manual Entry	Initial Product Determined	Product Parameters	Completed	Product Parameters	Cancelled	Manual Entry	Status	Column Name	Uploaded	Customer Reference Number	Completed	Transaction Upload Date	Cancelled	Customer Reference Number	Ignored	Customer Reference Number
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Uploaded	Customer Reference Number																				
Completed	Transaction Upload Date																				
Cancelled	Customer Reference Number																				
Ignored	Customer Reference Number																				

Screen	Changes
Copy Price List	<p>The following changes are made to this screen:</p> <ul style="list-style-type: none"> <li>• The <b>Product Parameters</b> column is added in the <b>Price List Products</b> zone. This column appears only when the <b>Multi Price Parameter</b> option type of the <b>C1_PPARM_FLG</b> feature configuration is set to <b>True</b>.</li> <li>• The <b>Variance</b> column appears in the <b>Price List Products</b> zone only when the <b>Multi Price Parameter</b> option type of the <b>C1_PPARM_FLG</b> feature configuration is set to <b>False</b>.</li> <li>• The <b>Copy Pricing Hierarchy</b> field is added in the <b>Copy Price List</b> zone.</li> </ul>
Billable Charge	<p>The following changes are made to this screen:</p> <ul style="list-style-type: none"> <li>• The <b>Bill After</b>, <b>Adhoc Bill</b>, and <b>Currency Code</b> fields are added in the <b>Main</b> tab.</li> <li>• The <b>Start Time</b> and <b>End Time</b> fields are removed from the <b>Pricing Information</b> tab.</li> <li>• The <b>Price Item Parm Code</b> and <b>Price Item Parm Value</b> fields are added in the <b>Pricing Information</b> tab.</li> </ul>
Contract Type	<p>The following changes are made to this screen:</p> <ul style="list-style-type: none"> <li>• The <b>Adhoc Future Billing</b> option in the <b>Use Calendar Billing</b> list (in the <b>Billing</b> tab) is renamed to <b>Allow Advanced Billing</b>.</li> </ul>
Rule Check	<p>The following changes are made to this screen:</p> <ul style="list-style-type: none"> <li>• The <b>Rule Input Parameters</b> section is renamed to <b>Rule Type Input Parameters</b>.</li> </ul>
Bill	<p>The following changes are made to this screen:</p> <ul style="list-style-type: none"> <li>• If the multi parameter based pricing feature is enabled in the Banking module, the period, product and product parameters of the bill segment are concatenated and displayed in the <b>Bill Segment</b> column. However, if the multi parameter based pricing feature is disabled in the Banking module, the period, product and variance parameter of the bill segment are concatenated and displayed in the <b>Bill Segment</b> column.</li> </ul>

Screen	Changes
Rate Component	<p>The following changes are made to this screen:</p> <ul style="list-style-type: none"><li>• The <b>Price Item</b> and <b>Price Assignment</b> options are added in the <b>Criteria</b> field (on the <b>Eligibility</b> tab).</li></ul>

## Supported Platforms

The following table lists the operating system and application server combinations on which Oracle Revenue Management and Billing Version 2.3.0.0.0 has been tested and certified:

Operating System and Web Browser (Client)	Operating System (Server)	Chipset	Application Server	Database Server
Windows XP SP3 (IE 8.x)	AIX 6.1 TL5 (64-bit), AIX 7.1 TL1 (64-bit)	POWER 64-bit	WebSphere 8.5	Oracle 11.2.0.2
Windows 7 (IE 8.x, or 9.x in Compatibility Mode)	Oracle Linux 5.8 and 6.2 (64-bit)	x86_64	WebLogic 10.3.6	Oracle 11.2.0.2
	Red Hat Enterprise Linux 5.8 and 6.2 (64-bit)	x86_64	WebLogic 10.3.6	Oracle 11.2.0.2
	Windows Server 2008 R2 (64-bit)	x86_64	WebLogic 10.3.6	Oracle 11.2.0.2

**Note:** Oracle will not provide any support for Windows XP from all upcoming releases in 2014.

## Framework Upgrade

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Oracle Revenue Management and Billing Version 2.3.0.0.0 is based on Oracle Utilities Application Framework Version 4.2.0.1.0. This version of Oracle Utilities Application Framework includes many enhancements that were not available in the previous release of Oracle Revenue Management and Billing. For more information about these enhancements, refer to *Oracle Utilities Application Framework V4.2.0.0.0 Release Notes* and *Oracle Utilities Application Framework V4.2.0.1.0 Release Notes*. You can also refer to the white paper named *What's New In Oracle Utilities Application Framework V4*, which is available on My Oracle Support at <http://support.oracle.com/>. Refer to article ID 1177265.1.

## Prerequisite Software

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This release of Oracle Revenue Management and Billing requires the following software:

- Micro Focus Server Express 5.1 WrapPack 7
- Micro Focus Server 5.1 WrapPack 7
- Oracle Java Development Kit Version 6.0 Update 20 or Later, 64-Bit
- Oracle JRockit 5.0 R27.6.5 Java Development Kit
- Hibernate 4.1.0
- Oracle WebLogic Server 11gR1 (10.3.6) 64-bit

## Supported Upgrades

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For upgrading from any previous version of Oracle Revenue Management and Billing to 2.3.0.0.0, consult with Oracle Support, Oracle Partner, or Oracle Consulting that may be supporting your implementation and upgrade process.



## Supported Integrations

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The following integrations are currently not supported in this release of Oracle Revenue Management and Billing:

- Oracle Revenue Management and Billing Version 2.3.0.0.0 to PeopleSoft (General Ledger and Accounts Payable) Version 9.1
- Oracle Revenue Management and Billing Version 2.3.0.0.0 to Oracle E-Business Suite (General Ledger and Accounts Payable) Version 12.0

These integrations will be supported in the upcoming releases of Oracle Revenue Management and Billing.

## Software Development Kit (SDK) Installation

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If you want to do any customization, you need to install Software Development Kit (SDK) on the development environment. You can search and download Oracle Utilities Software Development Kit Version 4.2.0.0 Patch Number 14330682 (p14330682\_42000\_Generic.zip file) from <https://support.oracle.com/>.

## Deprecated Features

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None of the existing features are deprecated in this release of Oracle Revenue Management and Billing, However, the following feature is scheduled to be removed in a future release of Oracle Revenue Management and Billing:

- TOU (Variance Parameter) Based Pricing

Therefore, henceforth, we strongly recommend you to use the multi parameter based pricing feature instead of the TOU based pricing feature.

## Bug Fixes

The following table lists the bugs that are fixed in this release:

Bug Number	Copy of	Description
14391587	-	CONTRACT START AND END DATES NOT CONSIDERED WHILE CREATION OF BILLABLE CHARGES
14544566	-	CHANGE SEQUENCE GENERATION LOGIC FOR BILLABLE CHARGE CREATION
14771391	14544301	INCORRECT PRODUCT'S PRICING IS PICKED WHEN MULTIPLE PRICE LISTS ARE ASSIGNED
16315524	-	C1-TXNSQ BATCH CANNOT BE RESTARTED IF STUCK DUE TO ERRORS
14592275	-	C1-TXCNC - TRANSACTION DERIVING MULTIPLE PRODUCTS NOT CANCELLING CORRECTLY
9662449	-	ADD CLOB TO DIVISION TABLE
10124659	-	CURRENCY DROP DOWN IS NOT POPULATED BASED ON THE DIVISION CURRENCY
10270223	-	UNABLE TO DELETE CONTRACT TYPES DUE TO BO VALIDATION
10287979	-	VERSION FIELD NOT DEFINED FOR TABLES IN THE DATABASE
10648788	-	ADJUSTMENT APPROVAL PROFILE NOT GETTING SELECTED CORRECTLY
12328605	-	MASTER IGA - ADD MEMBER - CANCEL BUTTON - NOTHING HAPPENING
12396973	-	GETTING MULTIPLE ENTRIES IN THE CI_APPTXN_ITEM TABLE WHILE CREATING AN ACCOUNT
12673474	-	ISSUE WITH RATE IN ROUNDING DOWN
12768583	-	MULTIPLE TRANSACTION IDS CREATED ON PRICE LIST ASSIGNMENT
13844573	-	MINIMUM MAXIMUM RATE COMPONENTS WITH NO VALUE LEADS TO INCORRECT CALCULATIONS
13999778	-	VIEW BILLED TRANSACTIONS SCREEN - DISPLAY MEMBER ACCOUNT DETAILS FOR IGA BILL
14475445	-	UNABLE TO DEFINE ADHOC CHARACTERISTICS ON CONTRACT TYPE
14476947	-	TRANSACTION VALIDATION - ERROR DUE TO SETUP ISSUES OR DUE TO INVALID DATA

Bug Number	Copy of	Description
14540805	-	NO VALIDATIONS TO PREVENT DUPLICATE FILE UPLOAD
14626761	-	USABILITY ISSUES ON THE RULE CHECK SCREEN
14626501	-	ADDITIONAL PARAMETERS REQUIRED FOR THE C1-TXNRB BATCH
14682105	-	UNABLE TO CREATE A CREDIT ENDORSEMENT CHARGE
14741551	-	UNABLE TO ASSIGN PARENT PRODUCT IF ITS ASSOCIATED PRODUCTS ARE ALREADY ASSIGNED
15835251	-	VIEW BILLED TRANSACTIONS - DIVISION NOT MANDATORY WHILE SEARCHING USING BILL ID
15963333	-	BILL SEGMENT FOREIGN KEY REFERENCE ISSUE
15990019	-	RATE CHECK NOT PICKING UP CORRECT TIER WHEN THRESHOLD TIERED PRICING DEFINED
16020292	-	MANUALLY CREATED BILLABLE CHARGES DELETED DURING CANCELLATION AND DISAGGREGATION
16175513	-	RENAME THE RULE TYPE INPUT COLUMN IN THE VIEW RULE TYPE SCREEN
16315566	-	USABILITY ISSUES IN THE APPROVAL WORKFLOW SCREENS
16365873	16327531	UNABLE TO APPROVE BILL CYCLE WHEN NUMBER OF SCHEDULES EXCEEDS 100
16450333	-	C1-TXNIP - PERFORMANCE ISSUE
16799320	-	C1-TXNSQ BATCH - CURRENCY CONVERSION ALGORITHM HAS BEEN HARD CODED
16804428	-	ACCOUNT IDENTIFIER IN THE ACCOUNT SCREEN TRIMED TO 16 CHARACTERS AFTER SAVING
17156319	-	STACKING NOT WORKING WHEN PRICE ASSIGNMENT ID IS STAMPED ON BILLABLE CHARGE
14464067	-	NEED SEARCH FUNCTIONALITY FOR RATE SCHEDULE DURING PRICE ASSIGNMENT
16314709	16189733	ACCT EXPIRED FROM OLD PARENT HIERARCHY STILL SHOWING THE PRICING FROM OLD PARENT

## Known Issues

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This section lists the known issues in Oracle Revenue Management and Billing Version 2.3.0.0.0 along with workarounds available to handle these issues. The known issues are grouped into the following categories:

- Banking
- Documentation

### Banking

14459067	<b>FEED MANAGEMENT BATCHES CAN RUN IN ANY SEQUENCE GIVING INCORRECT RESULTS</b>
Issue	During the transaction aggregation process, you need to execute batches in the specified order (as stated in the user manual). If you do not follow the sequence, erroneous results may occur.
Workaround	The only way to resolve this issue is to disaggregate and execute the aggregation process once again.

17631435	<b>BUNDLE PRICE USED INSTEAD OF INDIVIDUAL PRODUCT PRICE AT HIGHER PRECEDENCE LEVEL</b>
Issue	<p>While executing the C1-TXNVP batch, if the system finds effective pricing for the bundle at lower precedence level (for example, at the parent level), it creates billable charge for the bundle. Instead, it should create billable charge for the individual product if the effective pricing is available at the higher precedence level.</p> <p><b>Note:</b> This issue exists only when the multi parameter based pricing feature is disabled.</p>
Workaround	None

<i>14597607</i>	<b>THE FEED MANAGEMENT BATCHES CANNOT RUN CONCURRENTLY.</b>
Issue	You cannot execute the transaction feed management batches concurrently.
Workaround	None

<i>10008523</i>	<b>SEARCH RESULT FOR EXCHANGE RATE NOT DISPLAYED CORRECTLY</b>
Issue	Searching for the lowest precision rate (0.000000000000000001 /0.000000000000000011/ 0.000000000000000023) from the <b>Search Exchange Rate</b> zone results in displaying the rate in exponential format "IE -18".
Workaround	None

<i>10301512</i>	<b>VALIDATION RULES FOR ADHOC CHARACTERISTIC TYPES ARE NOT TRIGGERED IN THE MANAGE PRODUCTS, MANAGE PRICE LISTS, ADD PRODUCT PRICING, OVERRIDE PRODUCT PRICING, AND EDIT ASSIGNED PRICING SCREENS</b>
Issue	When you associate adhoc characteristic types with a product, price list, and a price assignment, validations defined for adhoc characteristic types are not triggered in the <b>Manage Products, Manage Price Lists, Add Product Pricing, Override Product Pricing</b> , and the <b>Edit Assigned Pricing</b> screens.
Workaround	None

<i>10362250</i>	<b>UNABLE TO CHANGE THE DIVISION STATUS FROM ACTIVE TO RETIRED</b>
Issue	When the approval workflow functionality is enabled, the status of a division will not get changed from <b>Active</b> to <b>Retired</b> .
Workaround	None

10377174	<b>LOCALIZATION ISSUE WHEN MAKER AND CHECKER CHOOSE DIFFERENT LANGUAGES</b>
Issue	When a maker and checker operate in different languages, a maker cannot see the approved transactions.
Workaround	Maker should login with a language that checker is using to see the approved transactions.

10635413	<b>ADD TXN APPR CREATED FOR IG IF IG ADD INACTIVE BUT IG EDIT ACTIVE</b>
Issue	If you want to deactivate the approval workflow process for invoicing group, you have to set the <b>Active</b> flag for both the groups (that is, <b>C1IGADD</b> and <b>C1IGUPD</b> ) to <b>N</b> . If the <b>Active</b> flag for either of the groups is set to <b>Y</b> , the approval workflow process will be initiated while adding or updating an invoicing group.
Workaround	None

10623776	<b>PRE-VALIDATION ERROR MSG FOR INVOICING GROUP EVEN IF PRE-VALIDATION IS OFF</b>
Issue	If you set the <b>Pre-validation</b> flag for both the groups (that is, <b>C1IGADD</b> and <b>C1IGUPD</b> ) to <b>N</b> , the validation will still be triggered before the approval workflow request is created.
Workaround	None

13052225	<b>ACCOUNT IDENTIFIER MANDATARY SWITCH NOT WORKING</b>
Issue	If the <b>Account Identifier Required</b> option type of the <b>C1_ACCTINFO</b> feature configuration is set to <b>Y</b> , you will not be able to use the <b>Add Account and Start Service</b> feature available in the <b>Person</b> screen.
Workaround	None



13084901	<b>BILLABLE CHARGE – PRICING INFO TAB, PRODUCT AND SUB-UOM DESCRIPTION IS NOT SHOWN</b>
Issue	When you specify the product and TOU (issue currency) code in the <b>Pricing Information</b> tab of the <b>Billable Charge</b> screen, the description of the product and TOU does not appear corresponding to the respective fields.
Workaround	None

13389268	<b>ISSUES IN DIVISION SPECIFIC PRODUCT CHAR TYPES</b>
Issue	The UI maps do not support <b>Foreign Key</b> and <b>Location</b> characteristic types.
Workaround	None

13783604	<b>CHARS GENERATED ON BILL SEGMENTS EVEN IF C1_EX_ROUND FEATURE CONFIG IS SET TO NO</b>
Issue	The <b>Exchange Rate</b> characteristic type appears in the <b>Bill Segment Calc Line Characteristics</b> screen even if the <b>Feature Config for Conversion</b> option type of the <b>C1_EX_ROUND</b> feature configuration is set to <b>N</b> . This happens only when the bill segment creation algorithms are created using the <b>BS-CRE-PRICE</b> and <b>C1-GENBSEGPA</b> algorithm types.
Workaround	None

16027959	<b>FOREIGN KEY AND FILE LOCATION CHARACTERISTIC TYPE NOT SUPPORTED IN UI MAPS</b>
Issue	The screens created using the UI map do not support the <b>Foreign Key Value</b> and <b>File Location Value</b> characteristic types. These screens only support the <b>Adhoc Value</b> and <b>Predefined Value</b> characteristic types.
Workaround	None

16101626	<b>GETTING SERVER ERROR WHILE DELETING A DIVISION (ASSOCIATED WITH A PRODUCT)</b>
Issue	The system does not allow you to delete a division which is associated with a product (even if the division is not yet used in the system).
Workaround	In such case, you can first remove the product from the division and then delete the division.

13968474	<b>UNABLE TO COPY PRICE LIST WHEN APPROVAL WORKFLOW IS ON</b>
Issue	On copying a price list when the approval workflow is on, the products added in the price list, their pricing details, and characteristics defined for the price list does not get copied to the new price list.
Workaround	None

16181301	<b>MESSAGE DOES NOT APPEAR ON CLICKING BUTTONS IN LIST OF PRICE ASSIGNMENTS ZONE</b>
Issue	On approving, rejecting, or canceling one or more price assignment requests (at once) from the <b>List of Price Assignments</b> zone, the appropriate message does not appear when you click the <b>Accept Changes</b> , <b>Return to Submitter</b> , or the <b>Revert to Original</b> button.
Workaround	None

17269658	<b>ONE BILLABLE CHARGE CREATED IF PARAMETERS OR PRICING CHANGES WITHIN AGG PERIOD</b>
Issue	If within the aggregation period, product parameters or pricing changes, single billable charge would be created for all aggregated transactions. For example, if you have aggregated transactions whose transaction date falls between 1 <sup>st</sup> Jan 2010 to 31 <sup>st</sup> March 2010 and two product pricing are available (one from 1 <sup>st</sup> Jan 2010 to 31 <sup>st</sup> Jan 2010 and another from 1 <sup>st</sup> Feb 2010 to 31 <sup>st</sup> March 2010), the system use the product pricing effective from 1 <sup>st</sup> Jan 2010 to 31 <sup>st</sup> Jan 2010 for all aggregated transactions.

Workaround	None
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<i>17265278</i>	<b>VIEW RULE TYPE SCREEN - PERFORMANCE ISSUE</b>
Issue	If you define a transaction record type with the maximum accounts to be charged set to 5, maximum products to be mapped set to 10, and the maximum product parameters set to 15 and view the details of the rule type, you might experience delay in loading the <b>View Rule Type</b> screen.
Workaround	None

<i>17227628</i>	<b>REFERENCE TYPE PARAMTER NOT SAVING IF SAME TABLE USED MULTIPLE TIMES IN LOOKUP</b>
Issue	If one table is used multiple times with different java value in the <b>PPRF_OPT_TYP_FLG</b> lookup field, you will not be able to create a parameter with value type set to <b>Reference</b> .
Workaround	None

<i>16752305</i>	<b>SQL ERROR ON SUBMISSION OF 1000 RECORDS IN THE ON DEMAND BILLING SCREEN</b>
Issue	If a usage data file contains more than 1000 records, you might get an SQL error during the billable charge creation process.
Workaround	None

<i>16834483</i>	<b>INAPPROPRIATE SERACH RESULTS IF DESCRIPTION CONTAINS SPECIAL CHARACTERS</b>
Issue	If the description contains special characters, then you may not get appropriate search results when you search using the description. This issue exists across all screens in the application.
Workaround	None

17282537	<b>C1-TXCNC BATCH GETS EXECUTED SUCCESSFULLY EVEN IF C1-TXNCU BATCH FAILS</b>
Issue	<p>When you execute the C1-TXNCU batch with either of the following parameters during the cancellation process, an error occurs:</p> <ul style="list-style-type: none"> <li>• Transaction Source</li> <li>• Division</li> </ul> <p>If you further execute the C1-TXCNC batch during the cancellation process, the status of all transactions in the feed is changed to Cancelled (CNCL). But, in this case, the SQIs on the billable charges are not accurate.</p>
Workaround	None

16913131	<b>ERROR WHEN NUMBER OF RECORDS FOR PAGINATION IN THE ODB SCREENS SET TO 100</b>
Issue	A warning message appears when you set the <b>Number of Records Per Page</b> field to a three digit number or above in the <b>Usage Data</b> or <b>View Bill Data</b> screen.
Workaround	<p>You can avoid this warning message by editing the registry. Using a Registry Editor, such as Regedt32.exe, open the following key:</p> <ul style="list-style-type: none"> <li>• HKEY_CURRENT_USER\Software\Microsoft\Internet Explorer\Styles</li> </ul> <p>If the <b>Styles</b> key is not present, create a new key named <b>Styles</b>. Then, create a new DWORD value named <b>MaxScriptStatements</b> under this key, and set its value to <b>0xFFFFFFFF</b> to avoid the warning message.</p>

17245492	<b>INCORRECT RESULTS IF BUNDLE USED INSTEAD OF PRODUCT IN RATIO OR PHANTOM BUNDLE</b>
Issue	If you use a bundle instead of a product in a ratio or phantom bundle, service quantity is aggregated incorrectly, and thus the bill amount is inaccurate.
Workaround	None

16764375	<b>ABLE TO DELETE PRODUCT PRICING WHICH IS INDIRECTLY ASSIGNED THROUGH PL HIERARCHY</b>
Issue	At present, the system does not allow you to delete a product pricing available on a price list which is directly assigned to a customer or an account. But, the same validation does not exist when the product pricing is indirectly assigned to a customer or an account through price list hierarchy, global or default price list.
Workaround	None

17631748	<b>CURRENCY CONVERSION NOT WORKING PROPERLY WHEN DIFFERENT BATCH DATE IS USED</b>
Issue	If you do not specify the same batch business date while executing the C1-TXNSQ and C1-TXNCU batches, the exchange rate used while executing these two batches might be different. As a result, erroneous results will be generated.
Workaround	None

17839602	<b>ORIGINAL PRICING AMT VALUE IS INCORRECT WHEN CALC LINE CHAR AMT IS ROUNDED OFF</b>
Issue	<p>In the <b>Bill Segment Calc Line Characteristics</b> screen, the value displayed corresponding to the <b>Original Pricing Amount</b> characteristic type is incorrect when the calc line char amount is rounded off during currency conversion.</p> <p>The original pricing amount is calculated using the formula - Aggregated Service Quantity * Rate Component Value (for example, <math>100 * 1.65 = 165</math>). If the account's invoice currency and pricing currency are different, the currency conversion takes place. On currency conversion, the amount corresponding to the calc line char (in the <b>Bill Segment</b> screen) is derived using the exchange rate. For example, if the exchange rate is 0.020720, the calc line char amount will be rounded off to 3.42 (<math>165 * 0.020720 = 3.4188</math>). Again, this rounded off calc line char value is used to calculate the original pricing amount. Therefore, the value displayed corresponding to the <b>Original Pricing Amount</b> characteristic type is 165.06 (<math>3.42 / 0.020720 = 165.0579</math>) instead of 165.</p>
Workaround	None

17386232	<b>PARAMETERS TAB DISPLAYED WHEN MULTI PARAMETER BASED PRICING FEATURE IS DISABLED</b>
Issue	The <b>Parameters</b> tab must appear in the <b>Add Product</b> , <b>Edit Product</b> or <b>View Product</b> screen only when the <b>Multi Price Parameter</b> option type of the <b>C1_PPARM_FLG</b> feature configuration is set to <b>True</b> . However, at present, this tab appears even if the <b>Multi Price Parameter</b> option type of the <b>C1_PPARM_FLG</b> feature configuration is set to <b>False</b> .
Workaround	None

18790200	<b>DOCUMAKER INTEGRATION IS NOT SUPPORTED FOR MULTI PARAMETER BASED PRICING FEATURE</b>
Issue	In this release, ORMB-Documaker Integration is supported only when the TOU (Variance Parameter) Based Pricing feature is used and not when the Multi Parameter Based Pricing feature is used.
Workaround	None

## Documentation

14592124	<b>XAI DYNAMIC UPLOAD - UNABLE TO ACCESS ONLINE HELP</b>
Issue	At present, the online help for the XAI Dynamic Upload screen is not available.
Workaround	None

17344113	<b>"ERROR 404--NOT FOUND" - ONLINE HELP IS NOT WORKING</b>
Issue	At present, the <b>"ERROR 404--NOT FOUND"</b> error occurs when you access online help for the following screens: <ul style="list-style-type: none"> <li>• Action Category</li> <li>• Action Type</li> <li>• Case Group</li> <li>• Case Type Status Mapping</li> <li>• Collection Control Central</li> </ul>

	<ul style="list-style-type: none"><li>• Conservation Program</li><li>• Contract Option Event Type</li><li>• Contract Option Type</li><li>• Deposit Review</li><li>• Disconnect Location</li><li>• Facility Level 1 to 2</li><li>• Facility Level 2 to 3</li><li>• Field Activity Remark</li><li>• FK Validation Summary</li><li>• Item Type</li><li>• Location Type</li><li>• NBB Recommendation Rule</li><li>• Non-billed Budget</li><li>• Pay Method</li><li>• Postal Code Default</li><li>• Promise To Pay</li><li>• Promise To Pay Cancel Reason</li><li>• Promise To Pay Type</li><li>• Protocol</li><li>• Read Out Type</li><li>• Representative</li><li>• Retire Reason</li><li>• Revision History Search</li><li>• Sub-UOM</li><li>• Sub-UOM Group</li><li>• Sub-UOM Map Relationship Type</li><li>• Sub-UOM Map Template</li><li>• Sub-UOM Map Type</li><li>• Terms of Service Type</li><li>• TOS Cancel Reason</li><li>• Trend Area</li><li>• Trend Class</li><li>• Unit of Measure</li><li>• Validation Error Summary</li></ul>
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Workaround	None
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<i>17365890</i>	<b>ONLINE HELP NOT AVAILABLE FOR SOME SCREENS OR TABS</b>
Issue	<p>At present, the online help is not available for the following screens:</p> <ul style="list-style-type: none"> <li>• Billable Charge Upload Staging – Characteristics Tab</li> <li>• Payment History - Search Portal</li> <li>• Loan</li> <li>• Collection Type</li> <li>• Migration Data Set Export</li> <li>• Migration Data Set Import</li> <li>• Migration Plan</li> <li>• Migration Request</li> <li>• Rate Schedule – SQ Rule Tab</li> </ul>
Workaround	None

<i>17365791</i>	<b>INDEX ENTRIES NOT DEFINED FOR THE BANKING AND INSURANCE MODULES</b>
Issue	At present, index entries are not defined for all topics in the Banking and Insurance modules.
Workaround	None

<i>17365959</i>	<b>ONLINE HELP - INDEX TAB - CCB DISPLAYED INSTEAD OF ORMB IN DROP-DOWN LIST</b>
Issue	In the (Online Help) Index tab, CCB is displayed instead of ORMB in the drop-down list.
Workaround	None



## Technical Support

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For any technical support, consult with Oracle Support, Oracle Partner, or Oracle Consulting that may be supporting your implementation and upgrade process.