

# **Oracle® Revenue Management and Billing**

Version 2.5.0.1.0

## **Release Notes**

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## Oracle Revenue Management and Billing Version 2.5.0.1.0 Release Notes

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## About this Document

This document describes the new features, enhancements, UI and database level changes, supported platforms, framework upgrade, supported upgrades, and technology upgrade made in this release. It also highlights the discontinued features, bug fixes, and known issues in this release.

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 application server pre-requisites, supported platforms, and software and hardware requirements for installing the Oracle Revenue Management and Billing application. It explains how to install the Oracle Revenue Management and Billing application.
<i>Oracle Revenue Management and Billing Quick Installation Guide</i>	Provides high-level information on how to install the Oracle Revenue Management and Billing (ORMB) application and selected additional software.
<i>Oracle Revenue Management and Billing Database Administrator's Guide</i>	Provides information about the Oracle Database Server and Client required for installing the Oracle Revenue Management and Billing database. It explains how to install database with and without demo data. It provides database configuration guidelines including recommended settings for the Oracle Exadata Database machine.
<i>Oracle Revenue Management and Billing Server Administration Guide</i>	Explains the Oracle Revenue Management and Billing (ORMB) architecture and technical know-how required for configuring and using the ORMB application. It explains how to configure and deploy web and business application servers. In addition, it explains how to monitor client machines, web and/or business application servers, and database connections.
<i>Oracle Revenue Management and Billing Security Guide</i>	Lists the security features available in the Oracle Revenue Management and Billing application. It explains how to configure security for the Oracle Revenue Management and Billing application using the default security features.
<i>Oracle Revenue Management and Billing Batch Guide</i>	Lists and describes various ORMB batches.

## Change Log

Revision	Last Update	Updated Section	Comments
1.1	24-Feb-2016	Known Issues	Updated Documentation Known Issues
1.2	30-Mar-2016	Known Issues	Updated Documentation Known Issues

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## Prerequisites

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If a customer is already using the Transaction Feed Management feature and wants to upgrade to Oracle Revenue Management and Billing Version 2.5.0.1.0, then the customer needs to ensure the following (before upgrading):

- All bills generated in the system are in the **Complete** status. In other words, there should not be any bills in the **Pending** status. If there are any bills in the **Pending** status or if any billable charge (generated through TFM) is not yet billed, disaggregation and cancellation of transactions which are uploaded using 2.4.0.1.0 will not happen successfully.
- Transactions which are uploaded using 2.4.0.1.0 must not be in the **Initial Product Determined (INPD)** status. They can be in the **Uploaded (UPLD)**, **Invalid (INVL)**, **Error (EROR)**, **Completed (COMP)**, or **Cancelled (CNCL)** status.
- Equal to (=) or tilde (~) symbol is not used in any existing product parameter code or value. Otherwise, erroneous results might occur.

# New Features

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

- [Overpayment Distribution](#)
- [Refund/Write Off Request](#)

## Overpayment Distribution

Oracle Revenue Management and Billing allows you to distribute credit from the account's excess credit contract against the next bill during the post bill completion. To enable this functionality, you need to create an algorithm using the **CR-DSTRBTN** algorithm type and attach it to the **Post Bill Completion** algorithm spot of the excess credit contract's contract type. This algorithm will create debit and credit adjustments. A debit adjustment is created against the excess credit contract. One or more credit adjustments are created against the bill.

While creating an algorithm using the **CR-DSTRBTN** algorithm type, you need to specify the following parameters:

- **Debit Adjustment Type** - Used to specify the adjustment type using which you want to create debit adjustment against the excess credit contract.
- **Credit Adjustment Type** - Used to specify the adjustment type using which you want to create credit adjustments against the bill.
- **Match Type** - Used to specify the match type whose payment distribution algorithm you want to use for distributing credit from the excess credit contract against the bill. Note that the **Entity** flag of the match type must be set to **Bill**.
- **Adjustment Characteristic Type** - Used to specify the characteristic type. You must specify a characteristic type where the type of char value is set to **Foreign Key Value** and characteristic entity is set to **Adjustment**. While defining the credit adjustment type, this characteristic type must be added in the **Adjustment Characteristics** tab. It indicates that this characteristic must be defined for adjustments which are created using the credit adjustment type. It is used to link debit adjustment (created against the excess credit contract) with one or more credit adjustments (created against the bill).

**Note:** If a bill has a credit line item, a debit adjustment is created to offset the credit line item before distributing the excess credit against the bill. This debit adjustment is created using the adjustment type specified in the **Credit Adjustment Type** parameter. This debit adjustment is also linked to the debit adjustment which is created against the excess credit contract.

All parameters in this algorithm type are mandatory.

## Refund/Write Off Request

Oracle Revenue Management and Billing allows you to refund and write off amount to the account. If the amount received from the payor account is matched against the suspense or excess credit contract, the system facilitates you to refund the amount to the payor. In addition, you can refund the amount of a credit bill line item, such as credit bill segment or adjustment, if required. To refund the amount to the account holder, you need to create refund adjustments through a refund request. While creating a refund request, you need to specify the refund request type using which you want to create the refund request. It is the refund request type which helps the system to determine:

- Whether the refund request must be approved before creating refund adjustments in the system
- Approval profile using which the refund request must be approved
- Whether multi-level or single-level approval is required while creating refund adjustments in the system
- Tolerance limit for refund (i.e. minimum refund amount)
- Adjustment type using which the write up adjustment must be created when the total refund amount is less than the minimum refund amount
- Default adjustment type using which refund adjustments must be created

The system allows you to create refund adjustments only using those adjustment types where A/P request type is defined. Once the refund adjustments are created, the A/P Extract process will extract the information and accordingly refund the amount to the payor. During the refund request process, a refund request goes through various statuses in its lifecycle.

Note that the lifecycle of a refund request is driven by the business object using which the refund request is created. A refund request business object named **C1-RefundReq** is shipped with the product. The refund request feature is articulated based on the lifecycle and logic defined in the **C1-RefundReq** business object.

Similarly, the system facilitates you to write off the amount to the account through a write off request. While creating a write off request, you need to specify the write off request type using which you want to create the write off request. It is the write off request type which helps the system to determine:

- Whether the write off request must be approved before creating write off adjustments in the system
- Approval profile using which the write off request must be approved
- Whether multi-level or single-level approval is required while creating write off adjustments in the system
- Default adjustment type using which write off adjustments must be created

The system allows you to create write off adjustments only using those adjustment types where A/P request type is not defined. During the write off request process, a write off request goes through various statuses in its lifecycle.

Note that the lifecycle of a write off request is driven by the business object using which the write off request is created. A write off request business object named **C1-WORequest** is shipped with the product. The write off request feature is articulated based on the lifecycle and logic defined in the **C1-WORequest** business object.

# Enhancements

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This section lists the enhancements made to the following features:

- [Transaction Feed Management](#)
- [Division](#)
- [Payment](#)
- [Payment Request](#)
- [Billing](#)

## Transaction Feed Management

The following changes are made to the Transaction Feed Management feature:

- Earlier, you were only able to use transaction detail fields as input or output parameters in a rule. Now, the system allows you to use fields which are not part of the standard transaction details. These fields are referred to as temporary fields and are defined similar to other fields, but are not associated with any ORMB tables. You need to associate temporary fields with the rule type while defining a transaction record type. Once associated, you can use the temporary field as input or output parameter while defining a rule using the rule type.

**Note:** At present, you can only associate a temporary field with a rule type, but cannot use the temporary field in a rule which is created using the rule type. The latter part of the functionality will be available in a future release of Oracle Revenue Management and Billing.

- Based on the **Processing Date for Transaction Feed Management** characteristic defined for the division to which a transaction belongs, the system determines rules, product parameters, pricing, and exchange rate which are effective on the transaction or batch business date. The effective product parameters, pricing, and exchange rate are determined for all account and product combinations to which the transaction is mapped. Now, the system facilitates you to use a custom processing date for a particular account and product combination to which the transaction is mapped. This helps you to override the processing date for a particular account and product combination. However, the overridden processing date is used only while determining effective product parameters, pricing, and exchange rate.

Two new output parameters are introduced in this release - PRCS\_DTX\_Y\_TYP and PRCS\_DTX\_Y\_VAL. Here, X represents the account and Y represents the product. The PRCS\_DTX\_Y\_TYP parameter is used to indicate the date type using which you want to determine the effective product parameters, pricing and exchange rate. The valid values for this parameter are - TXN\_DT and Batch\_DT. However, the PRCS\_DTX\_Y\_VAL parameter is used to indicate a custom date on which you want to determine the effective product parameters, pricing and exchange rate. The custom date must be a date other than the transaction or batch business date.

Once the **Transaction Validation and Initial Product Determination (C1-TXNIP)** batch is executed, the processing date is stamped against each transaction leg in the database. If a custom processing date is specified for a particular account and product combination, the custom processing date is stamped against the respective transaction leg. Otherwise, the processing date defined for the division to which a transaction belongs is stamped against the legs of the respective transaction. The processing date which is stamped against a transaction leg in the database is used while executing all subsequent batches in the transaction aggregation cycle.

- Earlier, the effective pricing was determined for each transaction leg during the transaction aggregation process. But, the rates engine was invoked at the time of billing. This resulted in performance issues because rating for a large volume of transactions was done at the time of billing. Now, the system provides the flexibility to rate the transactions either prior to billing or during billing. Based on the business requirements, you can configure the system such that transactions mapped to some products can be rated at a frequency which is different than the account's billing frequency. For example, daily, weekly, etc. In other words, the system offers the following ways in which a transaction is priced, rated and billed:
  - **Rate The Transaction During Billing** – In this scenario, you can:
    - Determine effective pricing for a transaction leg, create a billable charge for the transaction leg, and then determine the rate during billing.
    - Determine effective pricing for a transaction leg, create a billable charge for aggregated transaction legs, and then determine the rate during billing.
  - **Rate the Transaction Prior to Billing** – In this scenario, you can:
    - Determine effective pricing and rate for a transaction leg, and accumulate pre-calculated charges in a pass through billable charge based on the distribution code, currency code, description on bill, aggregation parameter group ID (which is created based on the rate component characteristics). The pass through billable charge is then billed during billing.
    - Determine effective pricing for a transaction leg, aggregate the transaction legs, determine rate for accumulated service quantities, and then accumulate pre-calculated charges in a pass through billable charge based on the distribution code, currency code, description on bill, aggregation parameter group ID (which is created based on the rate component characteristics). The pass through billable charge is then billed during billing.
    - Determine effective pricing and rate for a transaction leg and create a pass through billable charge for the transaction leg which is billed during billing.
  - **Ignore Transaction for Billing** – In this scenario, you can:
    - Determine effective pricing for a transaction leg, but the billable charge is not created for the transaction leg.

- Determine effective pricing and rate for a transaction leg, but the billable charge is not created for the transaction leg.
- While defining a product pricing, you need to specify the rating criteria which indicates how and when you want to the rate the transaction legs. The valid values are:
  - Do Not Rate Transactions
  - Aggregate transactions and then rate aggregated SQs
  - Rate individual transactions and aggregate calc lines across transactions
  - Rate Transactions
- The system enables you to do some preprocessing and post-processing activities while determining rate for transaction legs in the C1-TXNEX and C1-TXNSQ batches. If you want to do some preprocessing activities before invoking the rates engine, you need to attach an algorithm of the **C1\_RTCL\_PRPC** algorithm type on the **Feed Management Rate Pre-Processing** algorithm entity in the **Algorithms** tab of the **Division** screen. If you want to do some post-processing activities after determining rate, you need to attach an algorithm of the **C1\_RTCL\_POPC** algorithm type on the **Feed Management Rate Post-Processing** algorithm entity in the **Algorithms** tab of the **Division** screen.
- Earlier, you were able to add the Additional Amount 1 to Additional Amount 5, Amount 1 Currency Code to Amount 5 Currency Code, and Additional Numeric Data 1 to Additional Numeric Data 10 columns in the CSV file while uploading the transaction data using the sample interface. But, now, you can add the Additional Amount 1 to Additional Amount 10, Amount 1 Currency Code to Amount 10 Currency Code, and Additional Numeric Data 1 to Additional Numeric Data 20 columns in the CSV file.
- The CSV file format required for uploading transactions using the sample interface (i.e. ODI) has changed. Refer to the *Oracle Revenue Management and Billing Banking User Guide* for more details.
- Now, you can aggregate transaction legs in a billable charge using aggregation parameters other than account ID, product code, variance or product parameters, aggregation start date, and aggregation end date. The additional aggregation parameters can be stamped in the form of aggregation parameter group ID while performing post-processing activities for each transaction leg. This aggregation parameter group ID will be used in subsequent batches during the transaction aggregation cycle.

- Now, the system facilitates you to undertake some post-processing activities while executing the C1-TXNIP, C1-TXNVP, C1-TXNSQ, and C1-TXNCU batches.

If you want to do some post-processing activities while executing....	Then...
C1-TXNIP	You need to attach an algorithm of the <b>C1_PRDR_POPC</b> algorithm type on the <b>Feed Management Product Derivation Post-Processing</b> algorithm entity in the <b>Algorithms</b> tab of the <b>Division</b> screen. This algorithm is triggered only for transaction legs which are in the <b>Initial Product Determined (INPD)</b> status. Note that the system invokes the algorithm which is attached on the division to which the transaction belongs.
C1-TXNVP	You need to attach an algorithm of the <b>C1_VRPR_POPC</b> algorithm type on the <b>Feed Management Verify Pricing Post-Processing</b> algorithm entity in the <b>Algorithms</b> tab of the <b>Division</b> screen. This algorithm is triggered once the effective pricing is determined for a transaction leg. Note that the system invokes the algorithm which is attached on the derived account's division and not on the division to which the transaction belongs.
C1-TXNSQ	You need to attach an algorithm of the <b>C1_BCHG_POPC</b> algorithm type on the <b>Feed Management Billable Charge Post-Processing</b> algorithm entity in the <b>Algorithms</b> tab of the <b>Division</b> screen. This algorithm is triggered once the billable charge is created and SQIs are updated in the billable charge. Note that the system invokes the algorithm which is attached on the derived account's division and not on the division to which the transaction belongs.
C1-TXNCU	You need to attach an algorithm of the <b>C1_BCHG_POPC</b> algorithm type on the <b>Feed Management Billable Charge Post-Processing</b> algorithm entity in the <b>Algorithms</b> tab of the <b>Division</b> screen. This algorithm is triggered once the SQIs are recalculated in a billable charge. Note that the system invokes the algorithm which is attached on the derived account's division and not on the division to which the transaction belongs.

- The **Division** parameter is newly introduced in the **C1-TXNRP** batch. It is used when you want to update the regular and post processing product pricing information of accounts belonging to a particular division.
- The **Algorithm Code** parameter is newly introduced in the **C1-IAENT** batch. It is used when you want to perform some post-processing activities once the transaction legs and aggregated and non-aggregated billable charges are identified for disaggregation. For example, you may not want to delete the transaction legs which are in the **Ignored (IGNR)** status.



- Earlier, if you wanted to use any custom logic to derive the contract when it is not found, you used to attach an algorithm of the **SA\_DERV\_POPC** algorithm type on the **Transaction Feed Management Contract Derivation** algorithm entity in the **Algorithms** tab of the **Division** screen. Now, this algorithm type and algorithm spot are no longer supported. If you want to use any custom logic to derive the contract when it is not found, you need to include the custom mechanism in the post-processing algorithm.

## Division

The following changes are made to the division feature:

- The following algorithm entities are added in the **Algorithms** tab:
  - Feed Management Billable Charge Post-Processing
  - Feed Management Product Derivation Post-Processing
  - Feed Management Rate Post-Processing
  - Feed Management Rate Pre-Processing
  - Feed Management Verify Pricing Post-Processing
- The **Transaction Feed Management Cancellation Preprocessing** algorithm entity is renamed to **Feed Management Cancellation Pre-Processing**.
- The **Transaction Feed Management Disaggregation Preprocessing** algorithm entity is renamed to **Feed Management- Disaggregation Pre-Processing**.

## Payment

The following changes are made to the payment feature:

- The **How to handle overpayments (D/O)** parameter is newly introduced in the **C1-PDOV-WTBS** algorithm type. It helps the system to determine how to handle overpayment which is outside the tolerance limit. The valid values are:
  - **D** – Used when you want to distribute excess credit using the payment distribution algorithm attached on the customer class. This algorithm distributes excess credit to make payment for past bills of the account. If there are multiple past bills in debt, the excess credit will be used to make payment for the oldest bill.
  - **O** - Used when you want to distribute excess credit using the overpayment distribution algorithm attached on the customer class. This algorithm credits the overpayment on the excess credit contract of the account.

## Payment Request

The following changes are made to the payment request feature:

- Now, on distributing the tender amount, the payment event, payments, payment segments, and payment tender are created. The payments are created in the **Freezable** status. If any error occurs while creating a payment, the payment is created in the **Error** status. If all payments of a payment event are in the **Freezable** status, the status of the payment event is set to **Balanced**. However, if any payment of a payment event is in the **Error** status, the status of the payment event is set to **Unbalanced**. On distributing the payment amount (during transfer), the new payments are created in the **Freezable** status. If any error occurs while creating a new payment, the payment is created in the **Error** status. The status of the payment event is set to **Unbalanced**. The old payments in the payment event that you want to transfer remains in the **Frozen** or **Error** status.
- Earlier, the approval process was triggered while distributing the tender or payment amount. However, now, the approval process is triggered while freezing the payments created through a payment request.
- If there are multiple payment segments in a payment, the system provides the ability to edit the payment segment amount, if required.
- You can refund one or more payments of a payment event through the **Payment Event Summary** screen.

## Billing

The following changes are made to the billing feature:

- The **Exchange Rate Algorithm** parameter is newly introduced in the **FTFREZGLEXTN** algorithm type. This parameter is useful when you want to use different currency conversion algorithm during bill segment generation and FT GL creation for bill segments. If you specify a currency conversion algorithm in this parameter, the algorithm will be triggered during FT GL creation for bill segments. However, if you do not specify any value for this parameter, the currency conversion during bill segment generation and FT GL creation for bill segments is done based on the algorithm attached on the **Currency Conversion For Bill Segments** algorithm spot of the respective division.

## User Interface (UI) Level Changes

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

Screen	Changes
Transaction Details (Used for viewing, adding, and copying a transaction)	<p>The following changes are made to this screen:</p> <ul style="list-style-type: none"> <li>• <b>Additional Amount 6, Additional Amount 7, Additional Amount 8, Additional Amount 9, and Additional Amount 10</b> fields are added in this screen.</li> <li>• <b>Amount 6 Currency Code, Amount 7 Currency Code, Amount 8 Currency Code, Amount 9 Currency Code, and Amount 10 Currency Code</b> fields are added in this screen.</li> <li>• <b>Additional Numeric Data 11, Additional Numeric Data 12, Additional Numeric Data 13, Additional Numeric Data 14, Additional Numeric Data 15, Additional Numeric Data 16, Additional Numeric Data 17, Additional Numeric Data 18, Additional Numeric Data 19, and Additional Numeric Data 20</b> fields are added in this screen.</li> </ul>
Add Product Pricing, Edit Product Pricing, and Override Product Pricing	<p>The following changes are made to this screen:</p> <ul style="list-style-type: none"> <li>• The <b>Rating Criteria</b> field is added in this screen.</li> </ul>
Feed Management Dashboard	<p>The following changes are made to this screen:</p> <ul style="list-style-type: none"> <li>• The <b>Transaction Leg Information, Transaction Leg Service Quantity, Transaction Leg Calculation Lines, Transaction Leg Calculation Details, and Transaction Leg Calculation Line Characteristics</b> zones are added in this screen.</li> </ul>
Transaction Record Type	<p>The following changes are made to this screen:</p> <ul style="list-style-type: none"> <li>• The <b>Temporary Fields</b> section is added in this screen.</li> </ul>

Screen	Changes
Payment Request	<p>The following changes are made to this screen:</p> <ul style="list-style-type: none"><li>• The <b>Submit for Approval</b> and <b>Freeze</b> buttons are added in the <b>Payment Request</b> zone.</li><li>• The <b>Detail</b> column is added in the <b>Payment Distribution</b> zone.</li></ul>
Payment Event Summary	<p>The following changes are made to this screen:</p> <ul style="list-style-type: none"><li>• The <b>Refund</b> button is added in the <b>Payments</b> zone.</li><li>• A new query option named <b>Suspense/Excess Credit Contract</b> is added in the <b>Search Payment Event</b> zone.</li></ul>

## Database Level Changes

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To view the list of objects (such as tables, columns, algorithm types, business objects, and so on) that are newly added in Oracle Revenue Management and Billing Version 2.5.0.1.0, refer to the Appendix A : New Objects in the Oracle Revenue Management and Billing V2.5.0.1.0 Database section in *Oracle Revenue Management and Billing Database Administrator's Guide*.

## Supported Platforms

The following table lists the operating system and application server combinations on which Oracle Revenue Management and Billing Version 2.5.0.1.0 is supported:

Operating System and Web Browser (Client)	Operating System (Server)	Chipset	Application Server	Database Server
Windows 7 <sup>1</sup> , 8.1 (Internet Explorer 11.x)	AIX 7.1 TL1 (64-bit)	POWER 64-bit	WebSphere 8.5 (64-bit)	Oracle 12.1.0.2
	Oracle Linux 6.5 and 7.0 (64-bit)	x86_64	WebLogic 12.1.3.0 (64-bit)	Oracle 12.1.0.2
	Red Hat Enterprise Linux <sup>2</sup> 6.5 and 7.0 (64-bit)	x86_64	WebLogic 12.1.3.0 (64-bit)	Oracle 12.1.0.2
	Windows Server 2012 R2 (64-bit)	x86_64	WebLogic 12.1.3.0 (64-bit)	Oracle 12.1.0.2

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

<sup>1</sup> Oracle will not provide any support for Windows XP from 2014.

<sup>2</sup> Oracle Revenue Management and Billing is tested and certified on Oracle Linux 6.5 and 7.0. Oracle Linux is 100% userspace-compatible with Red Hat Enterprise Linux, and therefore Oracle Revenue Management and Billing is supported on Red Hat Enterprise Linux.

## Framework Upgrade

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Oracle Revenue Management and Billing Version 2.5.0.1.0 is based on Oracle Utilities Application Framework Version 4.3.0.1.0. This version of Oracle Utilities Application Framework no longer supports COBOL. It includes many enhancements that were not available before Oracle Utilities Application Framework Version 4.3.0.1.0. For more information about these enhancements, refer to the [Oracle Utilities Application Framework Version 4.3.0.1.0 Enhancements](#) section.

# Oracle Utilities Application Framework Version 4.3.0.1.0 Enhancements

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This section lists enhancements made in Oracle Utilities Application Framework Version 4.3.0.1.0:

- [System Wide Enhancements](#)
- [Online Help Enhancements](#)
- [Security Enhancements](#)
- [Configuration Tool Enhancements](#)
- [Batch Enhancements](#)
- [To Do Enhancements](#)
- [Miscellaneous Enhancements](#)
- [Web Service Enhancements](#)
- [System Data Enhancements](#)
- [Bug Fixes Not Included in This Release](#)

## System Wide Enhancements

This section lists and describes the following system-wide enhancements:

- [New Login Screen Images](#)
- [New Session Expiration Behavior](#)
- [Indicating Required Fields](#)
- [Menu Behavior Enhancements](#)
- [Menu Configuration Enhancements](#)
- [Toolbar History Enhancements](#)
- [Component Install/Deploy](#)

### New Login Screen Images

In this release, the image visible in the Login screen for the application has been changed.



## New Session Expiration Behavior

In previous releases, if a user's session has expired and the user may still be able to perform some tasks that don't require interaction with the server. As soon as the system attempts to interact with the server, the user may then be returned to the login screen or may be presented with an error.

In this release the system has been enhanced to detect the timeout and show an alert that the session has expired, informing the user to sign in again.

## Indicating Required Fields

In this release of the system, required fields (elements) are marked using an asterisk. This is visible on the maintenance dialogue objects defined using a business object that are maintained on a portal-based page (also referred to as "new style"). It is not visible on objects maintained on a "fixed" page (also referred to as "old style").

Required elements for a row in a child collection (list) are also marked with an asterisk. Note that the system does not have any visual marking to indicate that at least one row in a child collection is required. It is only able to highlight which elements must be populated for each row.

Please note that the system relies on the field or element configuration (table / field metadata and BO schema configuration) to display the asterisk. If there are elements that are required via an algorithm or some other procedural code, the system is not able to detect that condition in order to display the asterisk.

Also note that if an implementation does not wish to enable this functionality, it may be turned off via the properties file. Simply uncomment the following setting in the `spl.properties.template`:

```
#com.oracle.ouaf.ui.disableRequiredFieldIndicators = true
```

## Menu Behavior Enhancements

In the previous release, the menu behavior changed from the 4.2.x code line. In this release, some further changes have been made to the display of menus:

- Clicking the Menu or Admin button causes the first submenu to appear. If other submenu options are available a right arrow is visible on the menu line, the user can "mouse over" the menu line to show the submenu. In the release, the user may now click this menu line to "lock" the submenu. The right arrow image is replaced by a padlock image. If the user's mouse moves away from the menu area, the locked submenu remains visible. This resolves the usability issue of needing to keep the cursor lined up on the menu line as the mouse is moved toward the submenu to further select the desired option.

The user may now do one of the following:

- Click on or mouse over the desired submenu line to further open the next level and ultimately click the desired option.
  - Click on a different menu line to "lock" that submenu instead.
  - Click the ESC key or click on an area of the page outside the menu to close the menu.
- For menu lines that support Search and Add options, the Search option now appears before the Add. This is in an effort to use the menu line and item metadata configuration to drive the display. The base product menu lines always configure the "search" Menu Item first, followed by the "add" Menu Item. The menu rendering now follows that.

**Note:** If your implementation has custom menu lines with multiple menu items where the "add" is configured as the first Menu Item and the "search" as the second, then the menu rendering will reflect that.

- In the 4.2.x code line, the "add" option was rendered as an image (configured on the Menu Item). In 4.3.0.0, the menu rendering changed to use the word Add and an image is no longer used, however, the internal code still used the presence of the image reference in the Menu Item to signal which of the Menu Items is the "add". Because the image itself is not necessary, the code has been enhanced to cater for no image configuration. In this case, the system will assume that when a menu line has two menu items, the first Menu Item represents the "search". The second Menu Item represents the "add".

**Note:** For backward compatibility, the system will continue to look for an image and assume that the menu item with the image is the "add". If your implementation has custom Menu Lines with 2 Menu Items, where the "add" is first (but still refers to an image), no changes are needed. (However, note that in this case, the "Add" will display before the search option.) If you wish to remove the image (that is no longer needed), be sure that the "search" Menu Item is the first in the sequence.

## Menu Configuration Enhancements

In this release, the Label Long on the Menu maintenance object has been suppressed from the user interface. This field is not used by the system.

In previous releases, the Description on the Menu maintenance object was only enabled for the Main and Admin menu types and was used to build the menu bar prior to version 4.3.0.0. In this release, the description is now available for all menu types and may be used to provide information about the menu. The menu search has also been enhanced to search by the description and to return the description in the results.

## Toolbar History Enhancements

In this release, when a user navigates to a portal that is configured to display its information string as part of the page title (via the FK reference on the portal options), that detail is also visible in the History dropdown in the application toolbar.

This functionality is only available for portal based pages. It is not available for navigating to fixed pages. Also note that the current product standard is not to configure "all-in-one" portals to reference the information string.

## Component Install/Deploy

In past releases, installation and management of individual components of the product was complex. In this release the installation has now been altered to identify the roles supported by the installation to optimize the configuration and management of each installation. In this release, the online, integration and batch roles are supported to optimize the components available for configuration and deployment. An environment identifier has also been introduced to group disparate installations, even across machines, into a single managed environment. The roles for an installation are typically determined at installation time, but this enhancement allows change of roles after installation without the need for re-installation.

## Online Help Enhancements

This section lists and describes the following enhancements made to the online help:

- [Oracle Help for the Web](#)
- [Framework Help Included in Edge Product Help](#)

### Oracle Help for the Web

In this release, implementations using WebLogic will now see a new help implementation using Oracle Help for the Web (OHW). Besides a slightly different look and feel for the table of contents and the topics, OHW provides the following capabilities:

- Full text search. Now if there is a term that you want to find help about, you can use the full text search to find topics that reference that term.
- Combined index. In the past, if an implementation included multiple products in the "stack", each with its own help set that was included, the index was separated. A user needed to first select the product and then search for the index term. With OHW, the index terms are combined for all products providing their separate help topics, increasing usability.
- Various usability controls such as paging through topics.
- The ability to provide feedback to the documentation team through a feedback form.

Oracle Help for the Web is not available in WebSphere. Clients using WebSphere will continue to see the "classic" online help visible in previous releases.

## Framework Help Included in Edge Product Help

In previous releases, the online help that is specific to the framework product was installed separately from online help provided by each "edge" product. The table of contents for the help was visible "side by side". In the "classic" help view, the index entries were kept separate as well.

Starting in this release, the "edge" products will incorporate the help for Oracle Utilities Application Framework into its build of the help. The following provides additional details:

- For the business process chapters, the framework topics User Interface Standard Features, To Do Processing and Reports are incorporated into the outline of the "edge" product help in a location appropriate for that product's help. For a business user, this removes the distinction of what functionality is provided by the framework layer and what functionality is provided by the "edge" product.
- The business process chapters for Batch Processing and External Messages have been moved to the corresponding chapters in the administrative user guide.
- For the administrative user guide, the full set of framework chapters are included, followed by the full set of chapters associated with the edge product.

Note that for products that have several product layers in the "stack" only the initial "edge" product layer will include the framework help topics incorporated into its help. Additional "layers" will continue to have their own help implemented "side by side" in the table of contents. Note however that for implementations that have Oracle Help for the Web, the index will be combined in this case.

## Security Enhancements

This section lists and describes the following enhancements made to the application security feature:

- [Enhance User BO Used for External System Integration](#)
- [Separately Secure Change to a User's User Groups](#)

### Enhance User BO Used for External System Integration

In this release, changes have been made to the business object that is used to create Users from Oracle Identity Management (OIM) to support a template user.

In previous releases, in order to define a user from OIM, an implementation needed to define a Generic Technology Connector (GTC) to map information from OIM to the product. The implementation could choose to

- Expose the information to the OIM administrative user to define the information when creating the application users. For example, for this new user, specify his/her Home Page or valid User Groups.

- Define standard values in the mapping file so that the OIM administrative user doesn't need to specify them for every user (for example the Language or the Time Zone).

In this release, the product is providing the ability to use a template user in the application with appropriate configuration for users of that type. In OIM, the Generic Technology Connector (GTC) can be defined with the bare minimum needed to create a valid application user (such as their Name, Email Address and User ID) along with a template user from which all the other configuration data can be copied. This allows an implementation to define template users for standard "roles". For example, in Oracle Utilities Mobile Workforce Management, template users can be defined for Dispatchers, Mobile Workers, System Administrators and Contractors. Each template user can define the appropriate User Groups, Home Page, Portal Preferences, To Do Roles, etc for users in that role.

The **F1-IDMUser** business object (User for External System Integration) now has a pre-processing algorithm that looks for a template user (defined as a characteristic). It retrieves the configuration from the template user. It creates the new user with a combination of the information passed in from OIM (such as name, User ID, Email Address) and the information from the template user.

## Separately Secure Change to a User's User Groups

The ability to change the Enable / Disable flag on the user record requires special security. However in previous releases, all other attributes of a user could be modified by anyone with security for the **Change** access mode, including the user group configuration.

In this release a new access mode (**Administrator**) has been introduced to the User application service allowing implementations to separately secure the ability to change a user's user groups.

**Upgrade Note:** For backward compatibility, all user groups that have security for the Change access mode will be updated to also have security for the new System Administrator access mode. Implementations can then decide if they would like to take advantage of the new capability to limit which user groups should allow changes to the user's user group information.

## Configuration Tool Enhancements

This section lists and describes the following enhancements made to the configuration tool feature:

- [Schema Editor Enhancements](#)
- [Scripting Enhancements](#)

### Schema Editor Enhancements

The following enhancements have been made in the schema editor for defining elements for a business object:

- **Enhancement to Map XML Element Definition** - In previous releases, the schema editor's Map XML Field provided a search to find the appropriate field within the MO to use for the mapping. In this release, the field has been changed to a dropdown given the typically small number of CLOB or XML data type fields in a given MO.

- **Simple Field** - In this release, a new schema editor element type **Simple Field** has been introduced to help simplify the steps needed to create an element that is mapped using Map XML. This can be thought of as a type of "wizard" for a specific type of **Field** element. It exposes a subset of configuration available for the **Field** element type. In the Database Mapping section, only the Map XML Field element is exposed.

**Note:** This is only available for the schema editor on Business Object because that is the only place where the maintenance object is known. For other schema editors on other pages, for example the Data Area schema editor, the Field element type must be selected to define this type of element.

## Scripting Enhancements

The XQuery processor for scripting engines 2 and 3 has been upgraded. It now supports the functions 'matches', 'replace' and 'tokenize'. In addition, it is able to reuse more XPath expressions than before. As a result, implementations can reduce the XQuery LRU cache size in the spl properties file (com.oracle.XPath.LRUSize). The adjustment depends on your specific implementation. A rough recommendation is to reduce the cache size by about one third.

## Batch Enhancements

This section lists and describes the following enhancements made to the batch functionality:

- [Batch Parameter Security](#)
- [System Health Check](#)

### Batch Parameter Security

In this release, a new security flag has been added to the batch control parameter collection to indicate if there should be some security applied to the value of the parameter. The values of the security flag are **Encrypt** and **None**. The default is **None**. The configuration of the parameter value's security must be set on the batch control.

If the parameter value's security is set to **Encrypt**,

- Any default value set on the Batch Control will be stored in the database as encrypted
- When the batch job is submitted using Batch Job Submission, the value will be shown encrypted.
- In the log generated for the batch job, the parameter value will be written with asterisks.

**Upgrade Note:** All existing base product owned batch controls have been updated to set the parameter to **None** to maintain backward compatibility. The configuration of any base owned batch control may be changed by an implementation. The recommendation for the **F1-LDAP** (LDAP Import) batch control is to configure the 'password' parameter value to **Encrypt**.

## System Health Check

In this release, a new service has been provided to assess the "health" of the system. The current implementation of this service is to execute the batch control - level of service algorithms. It is possible that in the future additional health check types may be supported.

The service can return an overall status based on the details of the health check (for example based on the details of the level of service algorithm results).

- 200 indicates that everything is normal / healthy.
- 203 indicates that a non-critical function is degraded
- 500 indicates that one or more critical functions is degraded

The health check service maps the following results returned by the level of service algorithms:

- If at least one algorithm returns a value of Error, an overall status of 500 is returned
- If no algorithm returns a value of Error and at least one returns a value of Warning, an overall status of 203 is returned
- If all algorithms return a value of Normal, an overall status of 200 is returned.

An Inbound Web Service **F1-HealthCheck** has also been provided allowing external systems to use a web service to retrieve this information.

In addition, the product provides a Health Check portal that shows the details of the health check. The output of each batch control's level of service algorithm is displayed.

## To Do Enhancements

This section lists and describes the following enhancements made to the To Do functionality:

- [Allow Additional Sort Keys on Manual To Dos](#)

### Allow Additional Sort Keys on Manual To Dos

In previous releases, the product allowed for a To Do Post Processing algorithm to populate custom sort keys. However, in the case the standard sort keys for a manual To Do (User ID, User Name and Subject) were not populated by the system.

In this release, the product will ensure that the standard sort keys of User ID, User Name and Subject are populated on a manual To Do Entry even when custom sort keys are also populated. The To Do Type must define the standard sort keys for the manual To Do entry (as described in the online help).

**Note:** This was originally implemented as a hot fix to the 4.2.0.2.0 code line via bug 20886978.

## Miscellaneous Enhancements

This section lists and describes the following miscellaneous enhancements:

- [Attachment Creation Enhancements](#)
- [Extendable Lookup Enhancements](#)
- [Manual Transition of Sync Request](#)
- [Lift 2 Decimal Restriction on Money Fields](#)
- [Support Currency Symbol on Number Fields](#)

### Attachment Creation Enhancements

In previous releases, the procedure for creating an attachment was two steps: first choose the appropriate business object based on the type of attachment and enter a description; then upload the attachment.

In this release, the attachment creation has been streamlined to follow a more typical attachment dialogue. Now when a user wants to create an attachment, first the user selects the file to upload. The system then determines the business object and prompts the user for the description (and any other fields that may get captured depending on your specific product). The uploaded attachment is then saved.

**Upgrade Note:** If your implementation has created customized dialogues to create an attachment and call the base BPA **F1-AttchMain** (Attachment Maintenance), some minor changes are required to your custom BPAs to align the script's data areas with the **F1-AttchMain**.

In addition, if your implementation includes a custom BPA for uploading attachments and invokes the base UI Map **F1-AttachmentUploadPopup** following the pattern of the base BPA **F1-AtchUplod** the custom BPA will need to change how it invokes the Attachment Upload map to reflect the changes in the FW Attachment Upload BPA. The script step was changed from an Invoke Map step type to an Edit Data step type. It sets the target area as **Page Area** rather than **Pop-Up Window** and caters for the new Cancel action. Please contact customer support if you need more information.

### Extendable Lookup Enhancements

This section describes the following enhancements made to the extendable lookup:

- **Characteristics Added** - In this release, a standard characteristics collection has been added to Extendable Lookup. With this enhancement, extendable lookups may be designed to capture additional information that may then be searchable by an algorithm or other internal process.



- **New CLOB Column Added** - As previously delivered, the extendable lookup MO includes a standard CLOB column (BO\_DATA\_AREA) that is configured to be customizable. It means that if a product supplied an extendable lookup BO that defined additional information for each lookup value and supplied base values for the lookup with that additional information populated, an implementation could change the values of the additional information.

In this release a new CLOB column has been added to the extendable lookup that is configured to not allow customization (BASE\_BO\_DATA\_AREA). This allows product teams to define an extendable lookup BO that delivers base values and includes additional information that an implementation may not change.

For example, imagine a product defines a "Contact Type" extendable lookup that captures the addition information "Priority" and "Allow Extension". In addition, imagine that the product supplied base values for the lookup and included delivered values for Priority and Allow Extension.

Code	Description	Allow Extension	Priority	Owner
C1-PHONE	Phone	Y	50	C1
C1-FAX	Fax	N	50	C1
C1-EMAIL	Email	N	10	C1

The design dictates that an implementation is allowed to change the Priority of the base record, but not the Allow Extension value. The design of the business object would look like this:

```
<lookupValue mdField="CONTACT_TYPE" mapField="F1_EXT_LOOKUP_VALUE"/>
<description mapField="DESCR"/>
<owner mapField="OWNER_FLG" dataType="lookup" lookup="OWNER_FLG"/>
...
<allowExtension mdField="ALLOW_EXT_SW" mapXML="BASE_BO_DATA_AREA"/>
<priority mdField="PRIORITY" mapXML="BO_DATA_AREA"/>
```

As you can see, the Priority element is mapped to the customizable CLOB and the Allow Extension element is mapped to the non-customizable CLOB.

The following points should be noted about this functionality:

- An implementation may change the value of additional fields mapped to the "customizable" CLOB field (in the above example Priority). When upgrading to the next release of the product, the overridden value of Priority will be retained.
- An implementation may not change the value of additional fields mapped to the "non-customizable" CLOB field (in the above example Allow Extension). A user will receive an error when attempting to change the value via the application. If the value is changed in some other way, when upgrading to the next release of the product, the product's value for the elements will be restored.

**Note:** At this time the error issued to a user attempting to change an element mapped to the non-customizable CLOB will reference the label of the physical column rather than the label of the element defined in the BO. Using the above example, the user will be told that you cannot change the value of Base BO Data Area rather than being told that you cannot change the value of Allow Extension.

- If allowed by the extendable lookup, an implementation may add new extendable lookup values and may define the values of all additional fields as necessary. (In the example, values for Priority and Allow Extension may be defined as appropriate.)

**Upgrade Note:** As part of this enhancement, the base lookup values for the Schema - Element Types (F1-SchemaNodes) extendable lookup have been updated to define the values of the Property Control element in the non-customizable column. This element may not be modifiable by implementations.

- **Override Description Visible in Extendable Lookup List** - Extendable lookup supports an override description. In previous releases, if the override description was populated, it wasn't shown in the extendable lookup list zone. In this release, that has been fixed. The override description is now visible in the extendable lookup list zone.
- **Add Action Moved to Page Actions Area** - In the previous release of the product, the Page Actions area was introduced and many portals adjusted their user interface to define the Add action in the page action area rather than as a hyperlink in the zone header. Extendable Lookup was not included in that update. In this release, the Add action for the extended lookup is now visible in the page actions area.
- **Validation Added to Several Base Extendable Lookups** - In this release, several framework-owned extendable lookup business objects were enhanced to include a validation algorithm to issue an error if an implementation attempts to add a new lookup value. The functionality related to the extendable lookups does not support custom lookup values. This was true in previous releases as well, but there was no validation preventing custom records from being added. (Any custom records that may have been added were simply ignored). In this release, the explicit validation has been included to avoid confusion.

The following table highlights the list of extendable lookups that do not allow custom lookup values.

Extendable Lookup Business Object	Description
F1-BooleanValues	Generic Boolean Values
F1-SchemaActionValues	Schema - Action Values
F1-SchemaBoolTrue	Schema - Boolean True
F1-SchemaBooleanValues	Schema - Boolean Values
F1-SchemaDataTypes	Schema - Field Element Data Types
F1-SchemaDefaultSysVariables	Schema - Valid System Variables

Extendable Lookup Business Object	Description
F1-SchemaDefaultTypes	Schema - Default Key
F1-SchemaDispNoneKey	Schema - Conditionally Hide Key
F1-SchemaDispNoneOperator	Schema - Condition Operator
F1-SchemaElementSuppress	Schema - Suppress Element
F1-SchemaElementVisibleOn	Schema - Element Visibility Control
F1-SchemaFlatFieldRowValues	Schema - Flattened Field Row Values
F1-SchemaFlatRowType	Schema - Flattened Row Types
F1-SchemaListOrderBy	Schema - List Order By Setting
F1-SchemaNodes	Schema - Element Types
F1-SchemaPageActions	Schema - Page Actions
F1-SchemaProtectKey	Schema - Protect Key
F1-SchemaSearchBy	Schema - Search By
F1-SchemaSectColumns	Schema - Section Column Display
F1-SchemaSelectKey	Schema - Dropdown Select Key
F1-SchemaXMLNameSpaces	Schema - XML Namespaces

## Manual Transition of Sync Request

In a previous release, logic was added to support the ability for a user to manually transition a sync request that is currently in a state with a deferred monitor.

In this release, the action button that appears has been changed from **Process Sync** to **Process Now**.

## Lift 2 Decimal Restriction on Money Fields

In previous releases, the system restricted the number of decimals for "money" fields to be no more than 2. Similar validation existed on the Currency page when indicating the number of decimals.

Because there are currencies that support 3 decimals, in this release, the framework has removed the restriction. On the currency table, a user can now enter a number of decimal places that is greater than 2. In addition any validation restricting that a "money" field could not have a scale greater than 2 has been removed.

**Note:** In order to fully support a 3 decimal currency, the fields that capture monetary amounts may need to be enhanced to support a scale greater than 2. Please refer to your specific product's product manager to verify if 3 decimal currency is supported.

## Support Currency Symbol on Number Fields

Elements defined for unit rates typically capture amounts that have a large number of decimal places. The display of these amounts should include a currency symbol. These types of elements cannot be defined as "money" data types, because the amounts capture in "money" data types are validated against their currency's decimal configuration.

In previous releases, to display the currency symbol for these types of fields, special logic was required and automatic UI rendering was not possible. In this release, schemas may now define a currency reference for "number" data types. Automatic UI rendering will include the currency symbol of the referenced currency. The system ignores the currency decimal configuration.

Refer to the "Schema Tips" on the business object, business service, data area and service script pages for more information.

## Web Service Enhancements

This section lists and describes the following web service oriented enhancements:

- [Support XAI Service Deployment via Inbound Web Services](#)
- [MDB in Inbound Web Service](#)

### Support XAI Service Deployment via Inbound Web Services

For implementations using XAI inbound services for external messages, the product recommends moving to the inbound web service mechanism, which uses the J2EE Web Application Server to communicate with the product rather than the XAI servlet.

In this release, the product supplies an interim solution for XAI inbound services that use the Core Adapter. These are XAI inbound services that reference an underlying "page service" in the product. For these services, converting them to use inbound web services requires a business service to be created for the underlying page service (if one doesn't already exist). However, the resulting schema produces for a business service differs from the Request and Response schemas for the analogous XAI inbound service (which are created using the Schema Editor). This requires a change to the integration to cater for the deferent schema.

Moving all incoming messages over to use IWS instead of XAI is the product recommendation. However, to aid in implementations that have many integrations in place using the XAI inbound services that use the Core Adapter (or any adapter whose message class is **BASEADA**), the product provides the ability to deploy these types of XAI inbound services to the J2EE Web Application Server along with the Inbound Web Services.

To take advantage of this capability, you must define a feature configuration option. Under the **External Messages** feature configuration type, the **Support XAI Services via IWS** is used to indicate if this feature is supported. Setting the value to **true** turns on the feature.

**Note:** Refer to **Support XAI Service Deployment via Inbound Web Services** in the External Messages chapter of the Administrative User Guide for more information.

## MDB in Inbound Web Service

In the last few releases, the Message Driven Bean (MDB) was included in the online server and interfacing into XAI. In an effort to isolate messaging traffic from online traffic for capacity management, the MDB has been moved to the same server as Inbound Web Services to establish an effort to create an integration server. The MDB has been updates to use IWS within the same server. The existing MDB will be supported in this transition.

## System Data Enhancements

This section lists and describes the system data which is newly added and updated in Oracle Utilities Application Framework Version 4.3.0.1.0. It contains the following topics:

- [New System Data](#)
- [System Data Update](#)

### New System Data

This section provides information about the new system data delivered in this release.

#### New/Updated Application Services

Application Service	Description	Access Modes	Comments
F1HEALTH	Health Check Portal	Inquire	Provided for the new <a href="#">Health Check</a> portal.
CILTUSEP	User	System Administrator	New access mode provided to allow implementations to <a href="#">secure changes to the user's user groups</a> independently of other changes to the user.

### System Data Update

This section highlights miscellaneous changes to system data configuration:

- The following maintenance objects updates were done to support configuration migration assistant (CMA) functionality:
  - Access Group (**ACCT GROUP**) - An option for the option type Non-Migrated Table was added with the value CI\_ACC\_GRP\_DAR. This is a many-to-many relationship between this MO and the Data Access Group MO. For CMA purposes, the MO is now configured to copy this data across only with the Data Access Group.

- To Do Role (Without Users) (**TO DO RL SC**) - An option for the option type Non-Migrated Table was added with the value CI\_TD\_VAL\_ROLE. This is a many-to-many relationship between this MO and the To Do Type MO. For CMA purposes, the MO is now configured to copy this data across only with the To Do Type.
- The maintenance object Service Task (**F1-SVCTASK**) was updated to configure its ILM Eligibility algorithm. This MO was enabled for ILM but did not have the eligibility algorithm configured.
- The maintenance object Web Service Annotation (**F1-IWSANN**) was updated to remove the table F1-IWS-SVC-ANN. This table was incorrectly included in that MO. Although it is a 'many-to-many' table between Inbound Web Service and Web Service Annotation, the information is only maintained on the Inbound Web Service.
- The lookup **F1\_BATCH\_LEVEL\_OF\_SERVICE\_FLG** has been changed to be non-customizable. This was incorrectly marked customizable in a previous release. The product does not support additional values.
- The description of the lookup value **F1SU** for field **ACCESS\_MODE** has been changed from Super User to System Administrator.
- The description of the feature configuration type **F1EM** was changed from Email Configuration to External Messages. This feature type may be used to define options for other functionality related to external messages.

## Bug Fixes Not Included in This Release

Original Version	Original Fix	Description	4.3 Bug Fix
2.2.0	16418652	Printing zone outputs in portrait instead of landscape	21125562
4.2.0.1.0	20570324	Search window will not launch when i.e. 9 browser zoom set to 150% magnification	20570329
4.2.0.2.0	20402091	Back button 2x "forgets" selected query in query option list	21057709
4.2.0.2.0	20886978	Manual to do sort key defaulting not firing when post processing algorithm is plugged in	21647035
4.2.0.2.0	20914088	Label font color changed?spacing displayed in Chrome	21903486
4.2.0.2.0	21209873	Query zones with filter UI Maps do not restore input filters with defaults configured	21210495
4.2.0.3.0	21104664	Label font color changed?spacing displayed in Chrome	21903486
4.2.0.3.0	21104765	Data grid shows extra column in Chrome	21294297
4.2.0.3.0	21243926	Filter values disappear on navigating back/forward in Chrome	21265682
4.2.0.3.0	21260161	Billable charge screen hangs on pricing info tab in Chrome	21287396

Original Version	Original Fix	Description	4.3 Bug Fix
4.2.0.3.0	21304345	Link issue on account collection summary in Chrome	21339872
4.2.0.3.0	21308694	Label font color changed?spacing displayed in Chrome	21308984
4.2.0.3.0	21355708	Orahandledependentdatetime function is not working for date time fields in list	21441766

## Technical Recommendations

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To improve the overall batch performance on Windows, AIX, and Linux platforms, we recommend you to make changes in the following files:

File Name	Change From	Change To
hibernate.properties	hibernate.c3p0.timeout = 300	hibernate.c3p0.timeout = 600
threadpoolworker.sh	MEM_ARGS="-Xms512m -Xmx1024m -XX:MaxPermSize=768m"	MEM_ARGS="-Xms512m -Xmx4096m -XX:MaxPermSize=768m"



## Supported Upgrades

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At present, we support upgrade from Oracle Revenue Management and Billing Version 2.4.0.1.0 to 2.5.0.1.0. For more information on how to upgrade, refer to the following documents which are available on OTN:

- *Oracle Revenue Management and Billing Version 2.5.0.1.0 Upgrade Guide*
- *Oracle Revenue Management and Billing Version 2.5.0.1.0 Upgrade Path Guide*

For upgrading from any other version of Oracle Revenue Management and Billing other than 2.4.0.1.0, consult with Oracle Support, Oracle Partner, or Oracle Consulting that may be supporting your implementation and upgrade process.

# Technology Upgrade

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The following versions of software are supported in this release of Oracle Revenue Management and Billing:

- Windows 8.1 (Client)
- Windows Server 2012 R2 (64-bit)
- WebLogic 12.1.3.0 (64-bit)
- Java 1.8 for Linux and Windows operating systems
- Oracle Database Server 12.1.0.2
- Oracle Database Client 12.1.0.2

And, the following version of software and browser are not supported in this release of Oracle Revenue Management and Billing:

- AIX 6.1 TL5 (64-bit)
- Internet Explorer 9.x and 10.x
- Google Chrome 43.x
- Firefox 31.x ESR
- Oracle Linux and Red Hat Enterprise Linux 5.8, 6.2, 6.4 and 6.6
- Windows Server 2008 R2 (64-bit)
- WebLogic 10.3.6.0.8 (64-bit)
- WebLogic 12.1.2 (64-bit)
- Oracle Database Server 11.2.0.4 and 12.1.0.1
- Oracle Database Client 11.2.0.1

## Deprecated Notices for OUAF Version 4.3.0.1.0

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This section describes items that are deprecated in this release or planned for deprecation in a future release of Oracle Utilities Application Framework. It contains the following topics:

- [Deprecated Functionality in This Release](#)
- [Deprecation Planned for Future Releases](#)

### Deprecated Functionality in This Release

The following items in Oracle Utilities Application Framework Version 4.3.0.1.0 are deprecated in this release:

- The service program **EMAILSERVICE** (Email Service) is invalid and has been removed. The service program **F1-EMAILSERVICE** is the valid one provided for the real-time email service functionality.
- The lookup value **F1LR** for the algorithm entity flag lookup (**ALG\_ENTITY\_FLG**) is invalid and has been removed.
- The application services **F1BTCLSP** (Batch Cluster), **F1CLTHDP** (Batch Cluster Thread Details) and **F1CLUSTP** (Batch Cluster Portal) have been removed. They were not used for any base functionality.
- The following zones have been removed - **F1-CLSDETAIL** (Cluster Details), **F1-CLSMEMBER** (Cluster Members), **F1-CLSTHPOOL** (Cluster Thread Pools), **F1-CLUSJOBS** (Batch Jobs), **F1-CLUSTER** (Batch Cluster), **F1-CLUSTHRD** (Batch Threads). They were not referenced by any base functionality.

### Deprecation Planned for Future Releases

The following features or items are scheduled to be removed in a future release of Oracle Utilities Application Framework:

- The table usage flag (**TBL\_USAGE\_FLG**) on MD Table (**CI\_MD\_TBL**) and the field usage flag (**FLD\_USAGE\_FLG**) on MD Table Field (**CI\_MD\_TBL\_FLD**) will be deprecated in a future release. The fields are not used by the product.

- Environment Reference. This administrative maintenance object was related to ConfigLab and Archiving, which are no longer supported. In a future release, the following will be removed:
  - Migration Plan **F1-EnvironmentRef**. Note that no base migration request references this plan. Implementations should ensure that no custom migration request references this plan.
  - Business Object **F1-EnvironmentRefPhysicalBO**
  - Maintenance Object **ENV REF**
- The To Do Type **F1-SYNRQ** (Sync Request Error) is not in use and will be deleted in a future release. Errors for the Sync Request Monitor (that also has the name **F1-SYNRQ**) are reported using the To Do Type **F1-SYNTD** (Sync Request Monitor Errors).
- The following metadata related to the legacy LDAP import functionality via XAI will be deprecated in a future release:
  - XAI Inbound Service **LDAPImport**
  - XAI Adapter **LDAPImport**
  - Message Class (formerly XAI Class) **LDAPIMPRTADA**
- The following algorithm types and algorithms provided for the current LDAP import functionality do not include any logic. They will be removed in a future release.
  - Algorithm Type /Algorithm **F1-LDAPIMPRT**
  - Algorithm Type /Algorithm **F1-LDAPPREPR**

# Deprecation Notices for ORMB Version 2.5.0.1.0

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This section describes items that are deprecated in this release or planned for deprecation in a future release of Oracle Revenue Management and Billing. It contains the following topics:

- [Deprecated Functionality in This Release](#)
- [Deprecation Planned for Future Releases](#)

## Deprecated Functionality in This Release

The following features are deprecated in this release:

- **Configuration Lab** - This has been superseded by the Configuration Migration Assistant (CMA) functionality.
- **Archiving Engine (COBOL based)** – This has been superseded by the Information Lifecycle Management (ILM) functionality.

## Deprecation Planned for Future Releases

The following features are scheduled to be removed in a future release of Oracle Revenue Management and Billing:

- **TOU (Variance Parameter) Based Pricing** – We strongly recommend you to use the multi parameter based pricing feature instead of the TOU based pricing feature.
- **Billable Charge Creation Using UOM** – At present, there is one-to-one relationship between UOM and product. Therefore, you are able to create a billable charge using either UOM or product. In a future release, the system will not allow you to search product pricing using UOM. Therefore, we strongly recommend you to create pass through or service quantity based billable charges using product code.
- **Legacy mechanism to upload pass through billable charges using the BCU1 and BCU2 batches** - We have introduced the **On Demand Billing feature which allows you to upload both pass through and rate based billable charges**. We strongly recommend you to start using the On Demand Billing feature for uploading pass through and rate based billable charges.
- **XAI Inbound Services** - This has already been superseded by the Inbound Web Services functionality. For more information on migrating from XAI to IWS, please refer to *Migrating from XAI to IWS Oracle Utilities Application Framework* (Doc ID 1644914.1) on [My Oracle Support](#).

The following table lists the objects which will be deprecated in the next release of Oracle Revenue Management and Billing:

Object Type	Object Name
Algorithm Type	C1_CURALG, FTFREZBSEG, FTFREZFTGLEX, C1-MDOV-BILL, C1-MDOV-BSEG, C1-MDOV-ONSA, SA_DERV_POPC
Feature Configuration	C1_EX_ROUND
Option Types	Currency Conversion Algorithm and Payment Distribution To-Do (from the <b>C1_MLTCURACC</b> feature configuration)
Table Columns	FILE_NAME, UPLD_FLTY_CD, and ACCESS_GRP_CD columns from the CI_BCHG_HSTG table
Batch Control	GLASSIGN
View	CI_EFF_ACCT_PRICING_VW, CI_EFF_PER_PRICING_VW

Therefore, henceforth, we strongly recommend you not to use these objects in any custom implementation.

## ORMB V2.5.0.1.0 Patches

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Oracle Financial Services Revenue Management and Billing Version 2.5.0.1.0 and Oracle Insurance Revenue Management and Billing Version 2.5.0.1.0 patches are available for the following platforms:

- Windows (Microsoft Windows (64-bit))
- AIX (IBM AIX on POWER Systems (64-bit))
- Linux (Linux x86-64)

Each patch includes multiple zip files. You can download the following patches from [My Oracle Support](#):

- **22480614 - RMB V2.5.0.1.0 – Banking** – You can use this patch for all three platforms. This patch contains the following zip files:
  - FW-V4.3.0.1.0-MultiPlatform
  - RMB-V2.5.0.1.0-MultiPlatform
  - RMB-V2.5.0.1.0-FW-PREREQ-MultiPlatform
  - RMB-V2.5.0.1.0-Oracle-Database-MultiPlatform
  - RMB-V2.5.0.1.0-Release-Notes
- **22480621 - RMB V2.5.0.1.0 – Insurance** – You can use this patch for all three platforms. This patch contains the following zip files:
  - FW-V4.3.0.1.0-MultiPlatform
  - RMB-V2.5.0.1.0-MultiPlatform
  - RMB-V2.5.0.1.0-FW-PREREQ-MultiPlatform
  - RMB-V2.5.0.1.0-Oracle-Database-MultiPlatform
  - RMB-V2.5.0.1.0-Release-Notes

To download the patch:

1. Login to [My Oracle Support](#). The **My Oracle Support** page appears.
2. Click the **Patches & Updates** tab. The **Patches and Updates** tab appears.
3. In the **Patch Search** section, click the **Search** tab. The **Search** tab appears.
4. Click the **Product or Family (Advanced)** link.
5. Enter **Oracle Financial Services Revenue Management and Billing** in the **Product is** field.
6. Select the **Oracle Financial Services Revenue Management and Billing 2.5.0.1.0** option from the **Release is** list.
7. Click **Search**. The **Patch Search** page appears. It contains a list of patches which are available for the selected product release.
8. Click the **Patch Name** link corresponding to the patch that you want to download. The patch details appear in the right pane of the **Patch Search** page.

9. Click **Download**. The **File Download** window appears.
10. Click the **Save** icon corresponding to the zip file name link. The **File Download** dialog box appears.
11. Click **Save**. The **Save As** dialog box appears.
12. Browse to the location where you want to download the patch and then click **Save**. The patch is downloaded on your local machine.



## Product Documentation

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User manuals and other technical documents are available in the Portable Document Format (PDF) format. You can download Oracle Revenue Management and Billing release specific documentation library (for example, Oracle Revenue Management and Billing Version 2.5.X.X.X Documentation Library) using the following URL:

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

## Bug Fixes

The following table lists the production issues which were reported and fixed in 2.4.0.1.0 and now forward ported in 2.5.0.1.0:

Bug Number (in 2.4.0.1.0)	Copy of	Description
22353057	-	UDF_NBR FIELDS NOT BEING ACCEPTED AS AGGREGATION PARAMETER
22319157	-	2.4.0.1.0 ROLL UP PACK POST MANDATORY ROLLUP
22316504	-	DISAGGREGATION REQUEST REMAINING IN PENDING DURING C1-DARSU
22297399	-	FILE UPLOAD C1-ODFU BATCH ISSUE
22285429	-	NEW CURRENCY CONV BS ALGO SPOT - DOES NOT ALLOW DIFFERENT EXCHANGE RATES
22284799	-	CUSTOMER CONTACT CHARACTERISTICS ARE NOT AVAILABLE IN ACTION ALGORITHM
22283434	-	C1-TXNSQ BATCH MARK ALL THE TRANSACTION IN ERROR ONCE SQL EXCEPTION ENCOUNTERED
22278306	-	DATE PICKER DISPLAYED OUT OF THE ZONE ON PRICE LIST UI
22278196	-	CIPRRTAN LEAVING OPEN CURSOR S_RVEFF AFTER RATE EXECUTION IN BATCH RUN
22260726	-	CONTRACTTYPE POST PROCESSING JAVA ALGORITHM MISSING INPUT PARAMETER
22259796	22116444	DISAGGREGATION BILL DELETION ISSUES
22255461	-	BILL CREATION FAILING AFTER SETTING UP PAYMENT ARRANGEMENT
22247648	-	BLACK BOX ISSUE DISPLAYED WHILE USER TRY TO APPROVE NEW PRODUCT FROM APPROVE PRO
22246666	-	ON CLICKING ON ADD/EDIT PRODUCT RELATION END DATE IS COPIED TO ALL PRODUCTS
22237650	-	VALIDATION FOR AGGREGATION SCHEDULE SHOULD BE BASED ON FEATURE CONFIG. VALUE
22230970	-	SQL ERROR FOR NAME1 FIELD WHILE PAYMENT UPLOAD BATCH EXECUTION
22200742	-	PRICING NOT BEING REFRESHED FOR A SPECIFIC HIERARCHY
22163686	-	MULTIPLE BS- ONE PS ISSUE

Bug Number (in 2.4.0.1.0)	Copy of	Description
22124404	-	ACTIVATE AUTOPAY (ACTVTAPY) NOT ASSIGNING BATCH CODE OR BATCH NUMBER
22116577	-	C1-TXNRP BATCH PERFORMANCE ISSUE
22105690	-	DUPLICATE VALUE ERROR DURING PAYMENT TRANSFER
22105466	-	CUSTOMER CONTACT ALGORITHM NOT TRIGGERED
22102796	-	{INFO}NOT ABLE TO ADD CM PARAMETER ON BATCH CONTROL TD-CCCB
22097574	-	TFM FIELDS SHOULD SHOW BASED ON FEATURE CONFIGURATION IN ADD/EDIT/OVRD PRICING
22091050	-	BILL SEARCH UI TIMESOUT FOR LARGE INVOICE GROUP ACCOUNTS
22088826	-	ISSUES IN STOP LOSS FOR ASL LIMIT AND BILLABLE CHARGE CREATION FOR ASL
22062930	-	DELETE TRANSACTION CONFIRMATION POP-UP MESSAGE 'OK' BUTTON IS NOT IN PROPER ALIG
22061976	-	DERIVATION ORDER NOT CONSIDERED DURING PROCESSING IN UPDATE ERROR/IGNORE TXN BCH
22041124	-	BUNDLE TYPE DROPDOWN APPEARING ACTIVE,THOUGH IT IS INACTIVE ON ADD PRODUCT SCREN
22031052	-	CONSTRAINT VIOLATION ERROR IN C1-TXNEX BATCH
22028773	-	AUTO PAY EXCEPTION LOGGING ISSUE WITH UNFROZEN PAYMENT
22017091	-	RATES GETTING MANIPULATED AFTER CLICKING ON EDIT AND OVERRIDE BUTTON
22016128	21928976	PATCH 21928976 - NOT WORKING, STILL GETTING OUT OF DATE RANGE
22012916	-	INCORRECT ERROR MESSAGE IN BILLABLE CHARGE POST PROCESSING
22011192	-	OVERRIDE DUE DATE ALGORITHM DOES NOT CONSIDER WEEKENDS AND HOLIDAYS
21975791	-	DIFFERENT LABEL COLORS ON APPROVALREJECTIONREASONUI
21975607	-	MAX LENGTH '253' VALIDATION NOT WORKING ON UI MAP APPROVAL WORKFLOW REJECTION
21970001	-	INCORRECT ALGORITHM ERROR HANDLING IN IP POST PROCESSING
21966146	21958944	PRORATION START DATE NOT GETTING IN RECURRING BILLABLE CHARGE

Bug Number (in 2.4.0.1.0)	Copy of	Description
21965450	21669236	RECURRING CHARGES PROCESSED ONLY BY REGULAR BILLING BATCH AND NOT C1-FABL
21961996	-	PRIORITY FOR PRICE LIST DOES NOT DEFAULT TO VALUE STORED IN SEQNO
21943697	-	C1-TXNRP NOT REFRESHING PRICING FOR ACCOUNTS WITH INHERITED HIERARCHY
21936973	-	ISSUES RELATED TO BILL TOLERANCE ALGORITHM
21932889	-	INCORRECT ORDER OF BILLABLE CHARGE LINES ON THE DAILY RATED TFM BILLABLE CHARGE
21928976	-	EXCHANGE RATE UI INFORMATION NOT RETRIEVED BASED ON SEARCH CRITERIA
21912112	-	ON BILL SEGMENT UI , HYPERLINK FOR BILL ID IS APPEARING
21875010	-	POST-PROCESSING ALGORITHM NOT BEING CALLED FOR FIRST PROSPECTIVE BILL SCENARIO
21874654	-	"EXPIRATION DATE" FIELD IS NOT LINED UP WITH THE FIELDS ABOVE IT.
21842802	-	NOT ABLE TO FILTER BILL SEGMENTS BY PRODUCT
21841494	-	ACCOUNT EFFECTIVE PRICING TAKES LONG TIME TO DISPLAY RESULT FOR MORE THAN 50 REC
21840533	21790274	ERROR WHILE SAVING CUSTOMER, WHEN PER CHAR ARE MORE THAN 2
21840498	-	ALIGNMENT ISSUE ON MODIFY / RESOLVE PRICE ASSIGNMENT SCREEN
21814573	-	REJECTION REASON BOX IN APPROVE UI IS DISPLAYED BLACK
21814564	-	ALIGNMENT ISSUE IN EDIT PRODUCT SCREEN AND ADD PRODUCT SCREEN
21808877	-	APPROVE UI REJECTION REASON BOX IS DISPLAYED BLACK
21807009	-	END DATE CALANDER NOT WORKING FOR MANAGE EXCHANGE RATE SCREEN
21790274	-	ERROR WHILE SAVING CUSTOMER, WHEN CHILD PERSONS ARE MORE THAN 50
21776126	-	CHROME 2.4.0.1 CONTRACT BASE UI ALIGNMENT ISSUE.
21754933	-	ISSUES AFTER APPLYING BUG 21648930
21748643	-	EFFECTIVE PRICE ASSIGNMENT QUERY TIME OUT ISSUE

Bug Number (in 2.4.0.1.0)	Copy of	Description
21698254	-	DATES NOT ALIGNED FOR RECURRING BILLABLE CHARGE WITH LINE SEQUENCE
21688925	-	APPROVAL WORKFLOW TRANSACTION NOT DISPLAYED WHEN MAKER LANGUAGE IS DIFFERENT THA
21669236	-	RECURRING CHARGES PROCESSED ONLY BY REGULAR BILLING BATCH AND NOT C1-FABL
21627088	-	UNNECESSARY VALIDATION ON PRODUCT CONTRACT TYPE
21573512	-	PRICING APPROVAL SCREEN RIGHT HAND SIDE (BEFORE PART) IS DISPLAYED AS BLANK
21554765	21486760	APPLIED P 21486760 AND BASE VIEW STILL RUNS SLOW
21497606	21104527	AFTER BUG 21104527 SOME CONCERNS STILL REMAIN
21479808	-	OVERRIDE PRICING UI SHOWS THE SAME RC MAP DESCRIPTION FOR ALL RATE COMPONENTS
21479678	-	PRICING (CUSTOMER) UI ¿ THE NATIVE SORT SHOULD BE IS ASSIGNMENT LEVEL THEN CHARG
21460269	-	ACCOUNT ALERT NAVIGATION ISSUE
21454263	-	CONTRACT TYPE ¿ BILL SEG POST PROCESSING DON'T HAVE BILL SEG ID AS HARD PARAMETE
21454224	-	CREATE CUSTOMER CONTACT (C1-OE-CC) ALGO DOES NOT TRIGGER ACTION ALGOS CONFIGURED
21436623	-	CREATING PRODUCTS VIA DTO NOT GENERATING UOM CODE
21392947	-	NEED GUIDANCE ON USAGE OF TFM TABLE FIELDS IN RATE CALCULATIONS
21368547	-	ISSUE IN 2.4 APPROVAL LOGS SEARCH QUERY (FETCHES 3 SIMILAR ROWS INSTEAD OF ONE)
21306847	-	BILLABLE CHARGE CREATION WITH PRODUCT PARAMETERS
21298706	-	POSSIBLE INVALID TABLE METADATA
21298637	-	ID FIELD LENGTH ENHANCEMENT
21298438	-	BILLING JOB DOES NOT CALL PRE-BILL COMPLETION ALGORITHM SPOT
21270915	-	LIMITATION ON NUMBER OF ACCOUNTS THAT COULD BE DERIVED FROM A RULE IN THE RMBS
21270635	-	NO ENTRY DONE IN CI_BSEG_EXT FOR RECURRING BILLABLE CHARGES ALTHOUGH IT IS DONE

Bug Number (in 2.4.0.1.0)	Copy of	Description
21167880	21049906	BILL IS BEING GENERATED FOR A FROZEN PERIOD FOR THE STANDALONE ACCOUNT-FWD PORT
21104527	-	COMBINED UI ALIGNMENT ISSUES IN RMB V2.3.0.2 BASE UI MAPS
21046272	-	OVERRIDE PRICING UI IN 2.3.0.2 NOT ALIGNED CORRECTLY
21036002	-	ERROR WHILE INVOKING BILL CANCELATION BUSINESS SERVICE ON CILBBLLP BILL PAGE
20697584	-	APPROVAL WORKFLOW AND INVOICING GROUP MAINTENANCE PERFORMANCE ISSUE

## Known Issues

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This section lists the known issues in Oracle Revenue Management and Billing Version 2.5.0.1.0 along with workarounds available to handle these issues. The known issues are grouped into the following categories:

- [Banking](#)
- [Insurance](#)
- [Documentation](#)

### Banking

Issue	<b>TRANSACTION AGGREGATION: INCORRECT RESULTS WHEN BATCHES NOT EXECUTED IN SEQUENCE</b>
Description	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	None

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

Issue	<b>SEARCH RESULT FOR EXCHANGE RATE NOT DISPLAYED CORRECTLY</b>
Description	Searching for the lowest precision rate (0.000000000000000001 / 0.0000000000000000011 / 0.0000000000000000023) from the <b>Search Exchange Rate</b> zone results in displaying the rate in exponential format "1E -18".
Workaround	None

Issue	<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>
Description	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

Issue	<b>UNABLE TO CHANGE THE DIVISION STATUS FROM ACTIVE TO RETIRED</b>
Description	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

Issue	<b>LOCALIZATION ISSUE WHEN MAKER AND CHECKER CHOOSE DIFFERENT LANGUAGES</b>
Description	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.

Issue	<b>PRE-VALIDATION ERROR MSG FOR INVOICING GROUP EVEN IF PRE-VALIDATION IS OFF</b>
Description	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



Issue	<b>ACCOUNT IDENTIFIER MANDATORY SWITCH NOT WORKING</b>
Description	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

Issue	<b>BILLABLE CHARGE – PRICING INFO TAB, PRODUCT AND SUB-UOM DESCRIPTION IS NOT SHOWN</b>
Description	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

Issue	<b>CHARS GENERATED ON BILL SEGMENTS EVEN IF C1_EX_ROUND FEATURE CONFIG IS SET TO NO</b>
Description	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

Issue	<b>FOREIGN KEY AND FILE LOCATION CHARACTERISTIC TYPE NOT SUPPORTED IN UI MAPS</b>
Description	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

Issue	<b>GETTING SERVER ERROR WHILE DELETING A DIVISION (ASSOCIATED WITH A PRODUCT)</b>
Description	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.

Issue	<b>MESSAGE DOES NOT APPEAR ON CLICKING BUTTONS IN LIST OF PRICE ASSIGNMENTS ZONE</b>
Description	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

Issue	<b>VIEW RULE TYPE SCREEN - PERFORMANCE ISSUE</b>
Description	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

Issue	<b>C1-TXCNC BATCH GETS EXECUTED SUCCESSFULLY EVEN IF C1-TXNCU BATCH FAILS</b>
Description	<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 SQLs on the billable charges are not accurate.</p>
Workaround	None

Issue	<b>ERROR WHEN NUMBER OF RECORDS FOR PAGINATION IN ODB SCREENS SET TO 50 OR ABOVE</b>
Description	A warning message appears when you set the <b>Number of Records Per Page</b> field to 50 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> <ol style="list-style-type: none"> <li>1. HKEY_CURRENT_USER\Software\Microsoft\Internet Explorer\Styles</li> </ol> <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>

Issue	<b>INCORRECT RESULTS IF BUNDLE USED INSTEAD OF PRODUCT IN RATIO OR PHANTOM BUNDLE</b>
Description	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

Issue	<b>TIERED PRICING - 0 VALUE IN THE TO FIELD IS CONVERTED TO 9999999999999999.99</b>
Description	While defining a tiering range, if you specify zero (0) in the <b>To</b> field, the value is automatically getting converted to 9999999999999999.99.
Workaround	None

Issue	<b>ERRONEOUS RESULTS WHEN BILLABLE CHARGES ARE VOLUMINOUS &amp; SESSION TIMEOUT IS LOW</b>
Description	While billing, you may notice erroneous results when the default session timeout is low and the number of billable charges of an account are high.
Workaround	In such case, we recommend you to generate the bill through a batch process instead of generating the bill through the <b>Bill</b> screen.

Issue	<b>INAPPROPRIATE SEARCH RESULTS IF SEARCH CRITERIA CONTAINS SPECIAL CHARACTERS</b>
Description	If the search criteria contains a special character such as underscore (_), percentage (%), ampersand (&), or asterisk (*), the search results may not be appropriate.
Workaround	None

Issue	<b>CONDITIONAL APPROVAL WORKFLOW CANNOT BE USED WHILE COPYING A PRICE LIST</b>
Description	The system allows you to define conditional approval workflow for business objects. However, at present the conditional approval workflow cannot be used while copying a price list.
Workaround	None

Issue	<b>C1-PNDBL, C1-BLGEN, AND C1-BLPPR DOES NOT SUPPORT FREEZE AT BILL COMPLETION</b>
Description	If you have set the <b>Bill Segment Freeze Option</b> field in the <b>Billing</b> tab of the <b>Installation Options</b> screen to <b>Freeze At Bill Completion</b> , the newly designed billing batches named C1-PNDBL, C1-BLGEN, and C1-BLPPR will not work properly.
Workaround	None

Issue	<b>BILLS GENERATED FOR THE MEMBER ACCOUNT AND NOT FOR THE MASTER ACCOUNT</b>
Description	If you add a contract to a member account after the account is added to the master account, the system will not duplicate the newly added contract at the master level. Therefore, in such scenarios, billable charges related to the newly added contract will be billed to the member account and not to the master account.
Workaround	You need to ensure that no new contracts are added to the member account after the account is added to the master account.

Issue	<b>TRANSACTIONS WITH SAME TRANSACTION ID CAN BE PROCESSED ON TWO DIFFERENT DATES</b>
Description	Now, due to table partitioning, the system can process transactions with the same transaction ID on two different processing dates. If your data upload interface doesn't generate unique transaction IDs, this might result in erroneous results at a later stage.
Workaround	To avoid any such erroneous results, we recommend you to use the unique transaction ID generation sequence named RMB_CI_TXN_DETAIL_SEQ shipped with ORMB.

Issue	<b>SEARCH RESULT DISPLAYS TRANSACTION LEGS ON SEARCHING INPD &amp; COMP TRANSACTIONS</b>
Description	<p>In the <b>Transaction Details</b> screen, when you search for the <b>INPD</b> transactions, the <b>Search Results</b> section should display transactions which are in the <b>INPD</b> status. However, at present, all legs of the <b>INPD</b> transactions are displayed in the <b>Search Results</b> section.</p> <p>Similarly, when you search for the <b>COMP</b> transactions, the <b>Search Results</b> section should display transactions which are in the <b>COMP</b> status. However, at present, all legs of the <b>COMP</b> transactions are displayed in the <b>Search Results</b> section.</p>
Workaround	None

Issue	<b>MULTIPLE POST PROCESSING BILL SEGMENTS CREATED ON A BILL HAVE SAME CONTRACT ID</b>
Description	<p>There might be situations when two or more post processing bill segments are generated on a bill and each post processing bill segment is created for a different contract. In such case, the contract ID stamped on the post processing bill segments must be different. However, at present, the system stamps the same contract ID in all post processing bill segments on the bill.</p>
Workaround	None

Issue	<b>INCORRECT RESULTS IF DISAGGREGATION BATCHES NOT EXECUTED IN SEQUENCE</b>
Description	<p>During the transaction disaggregation process, you must execute the following batches in the specified order:</p> <ol style="list-style-type: none"><li>1. Identify Affected Transactions (C1-IAENT)</li><li>2. Process Non Aggregated Transactions (C1-PDTXN)</li><li>3. Clean Up (C1-TXNCU)</li><li>4. Update Disaggregation Request Status (C1-DARSU)</li></ol> <p>Otherwise, erroneous results might occur.</p>
Workaround	None

Issue	<b>PERFORMANCE ISSUE WHILE EXECUTING THE C1-DARSU BATCH WHEN REQUEST_TYPE_FLG=PERS</b>
Description	The system takes long time to change the disaggregation request status when the disaggregation request is created for a person.
Workaround	None

Issue	<b>AGGREGATION DOESN'T WORK IF DISAGG, ROLLBACK, &amp; CANCELLATION EXECUTED IN BETWEEN</b>
Description	If you execute the disaggregation, cancellation, and rollback process in between the aggregation process, the system will not allow you start the aggregation process once again.
Workaround	None

Issue	<b>POST PROCESSING SEGMENT NOT GENERATED IF THE PP MAX VALUE IS SET TO ZERO (0)</b>
Description	If the maximum value is set to zero (0) while defining pricing for a product have price assignment type as post processing, the system does not generate the post processing segments for such products.
Workaround	None

Issue	<b>TWO CONCURRENT RUNS WHICH DERIVE SAME DIVISION FOR TRANSACTIONS DOES NOT WORK</b>
Description	If you execute a batch concurrently with two different divisions (for example, D1 and D2), the erroneous results might occur when transactions in both the runs derive the same division, account, and/or product combination.
Workaround	None

Issue	<b>ERROR OCCURS WHEN YOU DISPLAY BILL FOR A PRODUCT THAT BELONGS TWO RELATIONSHIPS</b>
Description	If a product is added to two or more product to product relationships using the relationship type as Service, the system error occurs when you display bill for the product using Documaker. For example, if P3 is added in the P1 and P2 product relationship using the relationship type as Service, an error occurs when you display bill for P3 using Documaker.
Workaround	None

Issue	<b>C1-IAENT BATCH IN ERROR IF THERE ARE UNBILLED BILLABLE CHARGES</b>
Description	If there are any billable charges in the <b>Billable</b> status for accounts whose transactions are performed before the Disaggregate Transactions From Date, an error occurs while executing the <b>Identify Affected Transactions (C1-IAENT)</b> batch.
Workaround	None



Issue	<b>PAGINATION - UNABLE TO EXTRACT RECORDS OF ANY OTHER PAGE OTHER THAN FIRST PAGE</b>
Description	If you use the Export to Excel functionality on any screen where pagination is used, the system should extract the records of the page where you have navigated. However, the system always extracts the records on the first page in the Excel format. Therefore, at present, you cannot extract records of any other page other than first page in the Excel format.
Workaround	To resolve this issue, you need to apply the framework single fix which is available for BUG 20856028 - PAGINATION: DOES NOT EXPORT ENTIRE RECORDS RATHER EXPORTS PAGE RECORD ONLY.

Issue	<b>ERROR OCCURS IN CASE OF AN IGA SCENARIO WHILE EXECUTING THE C1-PNDBL BATCH</b>
Description	There might be situations when you add an account to an invoicing group after a bill is generated for the account using the new billing batches (i.e. C1-PNDBL, C1-BSGEN, and C1-BLPPR). In such scenario, an error occurs when you execute the C1-PNDBL batch once again to bill charges of the member account on the master account. Similarly, an error occurs when you generate the bill for the account which was earlier billed through the master account using these billing batches.
Workaround	None

Issue	<b>ACTIVE CONSTRUCTS DETERMINED ON CUT-OFF DATE INSTEAD OF CHARGES START &amp; END DATE</b>
Description	The system determines the active construct based on the cut-off date and bills the usage accounts' charges through an invoice account which is defined in the active construct. It does not determine the active construct based on the billable charge's start and end dates.
Workaround	None

Issue	<b>BILL SEGMENTS CREATED BUT FTS NOT CREATED WHEN ACCOUNTING CALENDAR NOT DEFINED</b>
Description	There might be situations when you generate bill segments for a pending bill which is created for a bill cycle whose accounting date either falls within the closed accounting calendar or does not fall within any accounting calendar. In such scenarios, the bill segments are generated, but the financial transactions are not created for the bill segments. An error occurs when you view such bills, whose financial transactions are not created, through the <b>Bill</b> screen.
Workaround	None

Issue	<b>UNABLE TO DEFINE ACCOUNT CATEGORY WHEN ACCOUNT IS CREATED USING PERSON SCREEN</b>
Description	The system allows you to create an account for a person by selecting the <b>Add Account and Start Service</b> check box in the <b>Person</b> screen. In such case, you cannot define category for the account because the <b>Account Category</b> field in the <b>Account</b> screen is disabled.
Workaround	None

Issue	<b>STATUS OF ALL LEGS CHANGED TO ERROR IF EXCHANGE RATE NOT AVAILABLE FOR ONE LEG</b>
Description	If a transaction has multiple legs and the system could not find exchange rate for one of the leg while executing the C1-TXNSQ batch, the status of the transaction and all its transaction legs is changed to <b>Error</b> .
Workaround	None

Issue	<b>INCORRECT RESULTS APPEAR WHEN UNDERSCORE CHARACTER IS USED IN SEARCH CRITERIA</b>
Description	If you use the underscore (_) character in the search criteria, the system does not search strings with the underscore character. Instead, the system interprets the underscore (_) character as a wildcard character.
Workaround	None

Issue	<b>MULTIPLE ISSUES ON SCREENS AND ZONES WHERE PAGINATION IS USED</b>
Description	There are various issues on the screens and zones where pagination is used. For example, the buttons and icons do not appear in the F1-DE-MULQRY zones, paging keys are trimmed, and so on.
Workaround	<p>To resolve these pagination related issues, you need to apply framework single fixes which are available for the following bugs:</p> <ul style="list-style-type: none"> <li>• 20302717 - PAGINATION PANEL SHOWING INCORRECT VALUE FOR TOTAL PAGES AND CUSTOM ICONS DO NOT</li> <li>• 20261532 - PAGINATION PANEL IS BEING DISPLAYED ON ORASEARCH OPERATION</li> <li>• 20113520 - BUTTON AND ICON DOESN'T APPEAR FOR PAGINATION IN F1-DE-MULQRY ZONES</li> <li>• 19941127 - PAGINATION FEATURE NOT WORKING FOR SUBQUERIES USED IN ZONE SQL</li> <li>• 19163528 - PAGINATION : PAGING KEY GETS TRIMMED AND RETURNS NO RESULTS</li> <li>• 18965501 - PAGINATION : ALL THE PAGES DISPLAY SAME SET RECORDS WHEN EQUAL OPERATOR IS USED</li> <li>• 18953690 - PAGINATION: ROW SERIAL NUMBERS RESET WHEN WE SORT COLUMN, AFTER "NEXT" CLICK</li> <li>• 18887503 - PAGINATION DOCUMENTATION NEEDS MORE DETAIL</li> <li>• 18639253 - PAGINATION - MISSING ICON, PAGE LABEL AND PAGE SIZE</li> <li>• 18491431 - DATA EXPLORER PAGINATION IS NOT CONSIDERING THE SQL COUNT LIMIT ZONE PARAMETER</li> <li>• 18399979 - PAGINATION - CRASHING IF PAGING COLUMN IS NOT DISPLAYED</li> <li>• 18399934 - PAGINATION - NOT WORKING FOR DESCENDING SORT</li> <li>• 20864137 - PAGINATION DOES NOT WORK PROPERLY WHEN PORTAL HAS MULTIPLE BROADCAST ZONES</li> </ul>

Issue	<b>CONTRACT TYPE IS HARDCODED IN PAYMENTS ZONE OF REMITTANCE SUMMARY SCREEN</b>
Description	The <b>Payments</b> zone in the <b>Remittance Summary</b> screen should lists the overpayments which are made against the contract types listed in the <b>C1_CMO</b> feature configuration. However, at present, the EXCSCRED contract type is hardcoded in the <b>Payments</b> zone. Therefore, irrespective of the contract types defined in the <b>C1_CMO</b> feature configuration, the system lists only those overpayments which are made against the contracts of the EXCSCRED contract type.
Workaround	None

Issue	<b>PAYMENT AMOUNT IS INCORRECT WHEN PAYMENTS HAVE FROZEN &amp; OVERPAYMENT PAY SEGMENTS</b>
Description	If the payments have both frozen and overpayment pay segments, the payment amount displayed corresponding to the overpayment and frozen payment in the <b>Payments</b> zone of the <b>Remittance Summary</b> screen is incorrect. The system displays the total payment amount instead of displaying the overpayment and frozen pay segment amount.
Workaround	None

Issue	<b>ERROR OCCURS WHEN BIND VARIABLES USED IN IN AND NOT IN CLAUSES WITHOUT BRACKETS</b>
Description	If a template is used in a construct for selecting usage accounts, billable charges, or adjustments where bind variables are used in the IN and NOT IN clauses without brackets, an error occurs when you bill an account through such construct.
Workaround	We recommend you to use bind variables within brackets in the IN and NOT IN clauses while defining a template.

Issue	<b>USAGE ACCOUNT'S ADHOC CHARGES BILLED ON USAGE ACCOUNT AND NOT ON INVOICE ACCOUNT</b>
Description	If there are any adhoc billable charges for a usage account which is billed through an invoice account, at present, you can bill these adhoc billable charges only on the usage account and not through the invoice account.
Workaround	None

Issue	<b>UNABLE TO CREATE BILLS FOR AN ACCOUNT USING A CONSTRUCT FROM THE BILL SCREEN</b>
Description	At present, the <b>Bill</b> screen does not allow you to create bills for an account using a construct. You can generate bills for an account using a construct only through the batch process.
Workaround	None

Issue	<b>C1-ADUP1 BATCH DOES NOT SUPPORT MULTI-CURRENCY ACCOUNTS FEATURE</b>
Description	An error occurs while executing the C1-ADUP1 batch when the adjustment currency is different from the account's invoice currency. This is because, at present, the C1-ADUP1 batch does not support the Multi-Currency Accounts feature.
Workaround	None

Issue	<b>ABLE TO CREATE BILLABLE CHARGES FOR AN INVOICE ACCOUNT</b>
Description	Ideally, the system should not allow you to create billable charges for an invoice account. At present, there is no restriction, and therefore you can create billable charges for an invoice account which are billed through the invoice account.
Workaround	None

Issue	<b>PARTIAL DATA UPLOADED WHEN USAGE RECORD HAS MORE THAN FIVE PASS THROUGH CHARGES</b>
Description	If you upload a usage record which has more than five pass through charges (for example, Bill Line 1, Bill Line 2, ..., Bill Line 8), at present, the system uploads the details of only five pass through charges (i.e. till Bill Line 5). The details of Bill Line 6, Bill Line 7, ..., and Bill Line 8 are not uploaded.
Workaround	None

Issue	<b>LENGTH OF UDF_CHAR_X IS 50 IN THE TFM ODI PACKAGE AND 60 IN THE DATABASE</b>
Description	In the ORMB database, the maximum size of the UDF_CHAR_1, UDF_CHAR_2, ..., UDF_CHAR_50 columns is set to 60 characters. However, while uploading the transaction data via ODI, you can specify maximum 50 and not 60 characters in the CSV file.
Workaround	None

Issue	<b>UNABLE TO EDIT A FILE GROUP FROM THE ON DEMAND BILLING SCREEN</b>
Description	On clicking the link in the <b>File Group</b> column, the <b>Add/Edit File Group</b> screen appears where you can edit the details of the file group. However, at present, the <b>Add/Edit File Group</b> screen does not appear. Therefore, you are not able to edit a file group.
Workaround	None

Issue	<b>UNABLE TO VIEW THE XAI UPLOAD STAGING DETAILS IN THE XAI DYNAMIC UPLOAD SCREEN</b>
Description	When you search and select an XAI upload staging record in the <b>XAI Upload Search</b> window, the details of the XAI upload staging record do not appear in the <b>XAI Dynamic Upload</b> screen. Instead, the home page appears.
Workaround	None

Issue	<b>ERROR OCCURS ON CLICKING SHOW CONTEXT MENU CORRESPONDING TO DOWNLOAD STAGING ID</b>
Description	An error (indicating invalid menu entry) occurs when you click the <b>Show Context Menu</b> icon corresponding to the <b>Download Staging ID</b> field in the <b>XAI Download Staging</b> screen.
Workaround	None

Issue	<b>GRAPH DOES NOT APPEAR IN THE MULTI-CANCEL/REBILL SCREEN</b>
Description	At times, the graph does not appear in the <b>Multi-Cancel/Rebill</b> screen when you access the application using Internet Explorer.
Workaround	None

Issue	<b>ADJUSTMENT CREATED WHEN CONTRACT ID IS VALID, BUT ACCOUNT IDENTIFIER IS INVALID</b>
Description	If you upload an adjustment data file with a record where the contract ID is valid, but the account ID or account identifier is invalid, the system creates the adjustment against the contract. Ideally, the system should not create the adjustment until and unless the contract ID, account ID, account identifier type, and account identifier are valid.
Workaround	None

Issue	<b>ABLE TO GENERATE A BILL FOR A SETTLEMENT ACCOUNT FROM THE BILL SCREEN</b>
Description	Ideally, the system should not allow you to generate a bill for a settlement account. However, at present, you can generate a bill for a settlement account from the <b>Bill</b> screen.
Workaround	None



Issue	<b>ADJUSTMENT CREATED AGAINST PREVIOUS BILL IS NOT CONSIDERED DURING TRIAL BILLING</b>
Description	If you create an adjustment against the previous completed bill, the adjustment is not presented on the next bill during trial billing. This open item accounting feature is not supported during trial billing.
Workaround	None

Issue	<b>POST PROCESSING BILL SEG AMT PRORATED IF BILLABLE CHARGE PERIOD EXCEEDS 2 YEARS</b>
Description	If a billable charge period is 2 years or above and post processing bill segment is generated based on the billable charge, the post processing bill segment amount is prorated during bill generation.
Workaround	None

Issue	<b>REOPEN BUTTON DISABLED WHEN C1-BILLSETT ALGORITHM ATTACHED ON CUSTOMER CLASS</b>
Description	If you attach an algorithm of the C1-BILLSETT algorithm type on the <b>Bill Completion</b> system event of the account's customer class, at present, you will not be able to reopen a bill.
Workaround	None

Issue	<b>TRANSFER ADJUSTMENT TYPE PROPERTY SUPERSEDE ORIGINAL ADJUSTMENT TYPE PROPERTY</b>
Description	If you create an adjustment on a usage account and bill it through an invoice account, the transfer adjustment is created on the invoice account. While creating a transfer adjustment, the system uses the open item accounting properties, such as Impact Next Bill Balance, defined on the transfer adjustment type. It does not uses the open item accounting properties defined on the original adjustment type.
Workaround	None

Issue	<b>WRONG ERROR MESSAGE APPEARS WHILE DOING PARTIAL NEGATIVE PAYMENT</b>
Description	If you do a partial payment against a negative (i.e. credit) bill from the <b>Payment Request</b> screen, the payment is created in the <b>Error</b> status. However, the error message shown against the payment is wrong. Ideally, the error message should be "For a Negative payment in case of a Credit bill, Payment amount must match Bill amount". However, at present, the following error message is displayed:  "Sum of Distributed Amounts does not equal the Payment Amount for Payment <Payment ID>"
Workaround	None

Issue	<b>THE PAYMENT REQUEST SCREEN DOES NOT SUPPORT MULTIPLE TENDERS</b>
Description	At present, the system does not support multiple tenders when you create a payment from the <b>Payment Request</b> screen.
Workaround	None

Issue	<b>ADJ NOT BILLED ON INVOICE ACCOUNT IF TRANSFER ADJ TYPE NOT ADDED IN ADJ PROFILE</b>
Description	If the adjustment must be billed through an invoice account and the transfer adjustment type is not added in the adjustment profile which is attached to the contract type, the system does not create the transfer adjustment on the invoice account. Instead, the system bills the adjustment on the usage account.
Workaround	None

Issue	<b>INCORRECT EXCHANGE RATE USED WHILE CREATING TRANSFER ADJUSTMENT ON INVOICE A/C</b>
Description	If the adjustment currency is different from the invoice account's currency, the system creates the transfer adjustment on the invoice account. However, at present, the exchange rate used during currency conversion is not picked up correctly.
Workaround	None

Issue	<b>PRICELIST ASSIGNMENT IN REJECTED STATUS APPEARS IN ASSIGNED PRICE LISTS ZONE</b>
Description	On rejecting a proposed price list assignment, the rejected price list assignment must not appear in the <b>Assigned Price Lists</b> zone of the <b>Price List Assignment (Account)</b> or <b>Price List Assignment (Customer)</b> screen. However, at present, the rejected price list assignment appears in the <b>Assigned Price Lists</b> zone.
Workaround	None

Issue	<b>ABLE TO ADD A RELATIONSHIP TYPE MULTIPLE TIMES IN THE C1_PER_REL FEATURE CONFIG</b>
Description	At present, the system does not prevent you to add a relationship type multiple times in the C1_PER_REL feature configuration. Ideally, there should be a system validation to handle this issue.
Workaround	None

Issue	<b>MULTIPLE PARENTS WITH SAME PERSON-PERSON RELATIONSHIP TYPE SHOULD NOT BE ALLOWED</b>
Description	At present, the system allows you to define multiple parents with the same relationship type for an overlapping date range. This can lead to erroneous results while searching for effective pricing at the parent customer level.
Workaround	We recommend you to define multiple parents with the same relationship type for a different date range.

Issue	<b>UNABLE TO SAVE MULTIPLE CHARACTERISTICS FOR A PRICE ASSIGNMENT</b>
Description	While defining characteristics for a price assignment, you can specify multiple characteristics in the screen, but only one characteristic is saved in the application.
Workaround	None

Issue	<b>UNABLE TO SCROLL LEFT TO VIEW TABS ON THE LEFT IN THE DIVISION SCREEN</b>
Description	The <b>Scroll Left</b> icon is not available in the <b>Division</b> screen. Therefore, you will not be able to scroll left if you are on the extreme right tab in the screen.
Workaround	None

Issue	<b>POP-UP WINDOW NOT DISPLAYED PROPERLY WHEN YOU MOUSE OVER DETAILED DESCRIPTION</b>
Description	In the <b>Batch Control</b> screen, a pop-up window appears when you move the mouse over the <b>Detailed Description</b> field. At present, the data is not properly displayed in the pop-up window.
Workaround	None

Issue	<b>QUERY ZONE - HORIZONTAL SCROLL BAR SCROLLS THE SEARCH CRITERIA FIELDS</b>
Description	The Query zone allows you to search for an object. At present, whenever you search in the Query zone and use the Horizontal Scroll Bar, the search criteria fields are also scrolled to the left along with the search results.
Workaround	None

Issue	<b>ICONS AND LINKS ARE SCROLLED TO THE LEFT ON SCROLLING HORIZONTALLY IN THE ZONE</b>
Description	When you scroll the data in the zone to the left using the Horizontal Scroll Bar, the icons (such as Filters, Explorer Zone Menu) and links (such as Add, Edit) that appear in the upper right corner of zone are also scrolled to the left.
Workaround	None

Issue	<b>COLUMN HEADER ROW IS NOT FREEZED OR LOCKED IN THE SEARCH RESULTS SECTION OR GRID</b>
Description	The column header row is not freezed or locked in the <b>Search Results</b> section or grid across the application. Therefore, the column header row is not visible whenever you scroll down to view the records.
Workaround	None

Issue	<b>ERROR OCCURS WHILE APPROVING AN ACCOUNT WHEN APPROVAL WORKFLOW IS ON</b>
Description	If the approval workflow is configured for the Account business object, the approval workflow request is created when you define or edit an account. At present, when the approver approves the approval workflow request, the following error occurs: “Unable to handle lists maintaining two child tables- list ACCT_PER”
Workaround	None

Issue	<b>PERFORMANCE ISSUE - SOME SCREENS TAKE LONG TIME TO LOAD</b>
Description	<p data-bbox="480 327 1435 394">In Oracle Revenue Management and Billing Version 2.5.0.1.0, the following screens take long time to load:</p> <ul data-bbox="529 420 935 1507" style="list-style-type: none"><li data-bbox="529 420 781 453">• Manage Products</li><li data-bbox="529 474 797 508">• Manage Price Lists</li><li data-bbox="529 529 813 562">• Add Product Pricing</li><li data-bbox="529 583 808 617">• Edit Product Pricing</li><li data-bbox="529 638 867 672">• Override Product Pricing</li><li data-bbox="529 693 776 726">• Pricing (Account)</li><li data-bbox="529 747 797 781">• Pricing (Customer)</li><li data-bbox="529 802 699 835">• Parameter</li><li data-bbox="529 856 935 890">• Feed Management Dashboard</li><li data-bbox="529 911 862 945">• View Billed Transactions</li><li data-bbox="529 966 802 999">• Transaction Details</li><li data-bbox="529 1020 675 1054">• Approve</li><li data-bbox="529 1075 667 1108">• Resolve</li><li data-bbox="529 1129 659 1163">• Modify</li><li data-bbox="529 1184 886 1218">• Approve Price Assignment</li><li data-bbox="529 1239 870 1272">• Modify Price Assignment</li><li data-bbox="529 1293 878 1327">• Resolve Price Assignment</li><li data-bbox="529 1348 841 1381">• Usage Data Processing</li><li data-bbox="529 1402 797 1436">• On Demand Billing</li><li data-bbox="529 1457 873 1491">• Payment Event Summary</li></ul>
Workaround	None

Issue	<b>UNABLE TO ADD COMMENTS ON CLICKING RETURN TO SUBMITTER OR REVERT TO ORIGINAL</b>
Description	While rejecting or cancelling the approval workflow request raised for a product (from the <b>Approve Product</b> screen), the background of the <b>Rejection/Cancellation Comment</b> field is black. Therefore, unable to view the comments (if any) added while rejecting or cancelling the approval workflow request.
Workaround	None

Issue	<b>PERFORMANCE ISSUE ON CHANGING THE SEARCH BY FILTER OPTION</b>
Description	If you change the filter option from the <b>Search By</b> list, the system takes long time to load the respective query zone. You may observe this issue in many screens where the multi-query zone is used.
Workaround	None

Issue	<b>PROPOSED PRICE LIST PRICING NOT AVAILABLE ON THE EFFECTIVE PRICING SCREENS</b>
Description	If you assign a proposed price list to a customer, the product pricing defined on the price list is not inherited from customer or parent customer. Therefore, such product pricing is not visible in the <b>Pricing (Account)</b> and <b>Pricing (Customer)</b> screens. In addition, such product pricing is not used during the billing process.
Workaround	None

Issue	<b>EFFECTIVE PRICING NOT VISIBLE IF C1_PER_REL HAS INVALID PERSON RELATIONSHIP TYPE</b>
Description	If you set the <b>Check on Feature Configuration</b> parameter in an algorithm which is created using the <b>C1-CUSRLALGT</b> algorithm type to <b>A</b> and add an invalid person relationship type in the <b>C1_PER_REL</b> feature configuration, the effective pricing is not inherited properly as expected.
Workaround	None



Issue	<b>UNABLE TO SEARCH EXCHANGE RATES USING THE END DATE FIELD</b>
Description	In the <b>Manage Exchange Rates</b> screen, the search results are not displayed when you search using the <b>End Date</b> field.
Workaround	None

Issue	<b>GRANDFATHERING NOT WORKING IN CASE OF GLOBAL AND DEFAULT PRICE LIST</b>
Description	When you define a product pricing in a global or default price list which is applicable only to the new customers, the product pricing is not used during the billing process. Instead, the incorrect product pricing is picked up during the billing process.
Workaround	None

Issue	<b>RECORDS IN THE ADJUSTMENT DATA FILE NOT UPLOADED IN THE SPECIFIED SEQUENCE</b>
Description	When you upload the records of an adjustment data file, the records are not uploaded in the sequence in which they are listed in the CSV file.
Workaround	None

Issue	<b>PAYMENT/TENDER SEARCH- COLUMN HEADERS INCORRECT WHEN SEARCH FILTER IS CHANGED</b>
Description	If you search using a particular filter option in the <b>Payment/Tender Search</b> screen, the search results are displayed accordingly. Then, if you change the search filter and criteria, the search results are displayed accordingly, but the column headers are not updated.
Workaround	None

Issue	<b>ERROR LOG FILES GENERATED ON EXECUTING BILLING AND C1-BLPPR BATCHES</b>
Description	In ORMB 2.5.0.1.0, the error log file is generated even when the following batches are executed successfully and bills are completed: <ul style="list-style-type: none"><li>• BILLING</li><li>• C1-BLPPR</li></ul>
Workaround	None

Issue	<b>FIELD ALIGNMENT ISSUE ON BUSINESS OBJECT BASED GENERATED UI MAPS</b>
Description	You may observe that the algorithm description is not properly aligned corresponding to the <b>Algorithm</b> field in the following screens: <ul style="list-style-type: none"><li>• Upload Request Type</li><li>• Upload Adjustment Data File</li></ul>
Workaround	None

Issue	<b>COLUMN WIDTH INCREASES ON SORTING THE COLUMN OR CLICKING THE BROADCAST ICON</b>
Description	In the <b>Search Results</b> section, the width of the column increases when you either: <ul style="list-style-type: none"><li>• Sort the column in the ascending or descending order</li><li>• Click the <b>Broadcast</b> icon corresponding to a record</li></ul>
Workaround	None

Issue	<b>MANUAL DISTRIBUTION NOT WORKING IN THE PAYMENT SCREEN</b>
Description	On saving, the distributed amount is reset to zero when you manually distribute the tender amount among the unpaid bills in the <b>Payment</b> screen.
Workaround	None

Issue	<b>ERROR OCCURS ON EXECUTING BILLOPEN IF IN CLAUSE CONTAINS MULTIPLE BIND VARIABLES</b>
Description	If you have used template in a construct where IN clause has multiple bind variables, an error occurs while executing the <b>Construct Based - Pending Bill Generation (BILLOPEN)</b> batch.
Workaround	None

Issue	<b>CHANGE OBJECT DESCRIPTION</b>
Description	At present, the descriptions of various objects (such as algorithm type, algorithm, maintenance object, business object, script, business service, foreign key reference, portal, zone, UI Map, and so on) released in 2.5.0.1.0 are not clear and precise. To resolve this issue, we recommend you to download and install the 22489459 patch which is available on <a href="#">My Oracle Support</a> .
Workaround	None

Issue	<b>APPROVAL TRANSACTION LOGS DO NOT SHOW RECORDS CREATED BY A USER WITH A DIFF LANG</b>
Description	<p>If the submitter and approver are using different language, the submitter cannot see the log created for approver and vice-versa. This issue occurs in the Log zone of the following screens:</p> <ul style="list-style-type: none"><li>• Approve</li><li>• Resolve</li><li>• Modify</li><li>• Logs</li></ul> <p>To resolve this issue, we recommend you to download and install the 22503525 patch which is available on <a href="#">My Oracle Support</a>.</p>
Workaround	None

Issue	<b>CHARACTERISTIC TYPE CODE APPEARS INSTEAD OF DESCRIPTION WHILE APPROVING PRODUCT</b>
Description	While approving, rejecting, or cancelling an approval workflow request created for a product, the characteristic type code appears instead of description in the respective UI map. To resolve this issue, we recommend you to download and install the 22509146 patch which is available on <a href="#">My Oracle Support</a> .
Workaround	None

Issue	<b>VALIDATION MISSING FOR OPEN TENDER CONTROL WHILE PROCESSING PAYMENT REQUEST</b>
Description	A system error occurs when an open tender control is not available for a user, currency, and tender type combination. Ideally, an appropriate error message should appear in such case. To resolve this issue, we recommend you to download and install the 22516383 patch which is available on <a href="#">My Oracle Support</a> .
Workaround	None

Issue	<b>THREADS NOT COMPLETED WHEN THE C1-BLGEN BATCH EXECUTED MULTITHREADED</b>
Description	When you execute the C1-BLGEN batch multithreaded, batch threads are not completed and remains in the <b>In Progress</b> status even when the batch is executed successfully. To resolve this issue, we recommend you to download and install the 22525455 patch which is available on <a href="#">My Oracle Support</a> .
Workaround	None

## Insurance

Issue	<b>OLD INSURANCE FEATURES ARE NOT TESTED AND VERIFIED IN ORMB VERSION 2.5.0.1.0</b>
Description	In this release, the new policy data model is introduced. The old policy data model which is accessible to the INADMIN user group is no longer operational. The old insurance features, such as Insurance Control Central, Deferred Revenue Recognition, Account Current, Pay Plan, Group Billing, and List Bill Reconciliation are not tested and verified with the new policy data model.
Workaround	None

Issue	<b>PERFORMANCE ISSUE WHILE CREATING DEFERRED REVENUE RECOGNITION SCHEDULE</b>
Description	If there are large number of bill segments and adjustments for which deferred revenue recognition schedule must be generated, the system takes long time to generate deferred revenue recognition schedules.
Workaround	None

Issue	<b>VALIDATION FOR FIDUCIARY CONTRACT MISSING DURING RECONCILIATION</b>
Description	While changing the status of the reconciliation object to Ready To Pay, the system does not validate whether fiduciary contract exists for the group account.
Workaround	You need to ensure that group customer has fiduciary contract associated with the account through which payments can be made for the list bills.

Issue	<b>TWO BILL SEGMENTS GENERATED WHEN REASON CODE EFFECTIVE DATE IS SAME AS BILL SEGMENT START DATE</b>
Description	When you select the Update option from the Reason Code list and specify the reason code effective date same as the bill segment start date, the system creates two bill segments – one with prorated billed amount and another with prorated reported amount. Ideally, the system should only create one bill segment with prorated reported amount.
Workaround	None

Issue	<b>UNABLE TO DISTRIBUTE THE REMAINING PAYMENT MANUALLY</b>
Description	If you have distributed partial payment automatically through the <b>Payment by Transaction</b> screen, the system does not allow you to distribute the remaining payment manually.
Workaround	None

Issue	<b>FOREIGN KEY AND FILE LOCATION CHARACTERISTIC TYPE NOT SUPPORTED IN UI MAPS</b>
Description	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

Issue	<b>CHARACTERISTIC TYPES ARE NOT FILTERED BASED ON THE REASON CODE</b>
Description	While editing the reconciliation object line, the characteristic types are not filtered based on the reason code that you have selected. Currently, it lists all characteristic types where the characteristic entity is set to <b>Reason Code</b> .
Workaround	None

Issue	<b>RECONCILIATION DOESN'T WORK PROPERLY FOR PASS THROUGH BILLABLE CHARGES</b>
Description	In the sample case workflow, the system checks whether the difference between the reported and billed amounts is within the tolerance limit. If so, the system must change the status of the reconciliation object line to <b>WD-Match</b> . However, at present, in case of pass through billable charges, the system changes the status of the reconciliation object line to <b>Manual</b> instead of <b>WD-Match</b> .
Workaround	None

Issue	<b>ERROR OCCURS WHEN YOU RESOLVE A RECONCILIATION OBJECT LINE FROM THE CASE SCREEN</b>
Description	The system allows you to manually resolve a reconciliation object line from the <b>Case</b> screen and change the status of the reconciliation object line to <b>Manual Match</b> . At present, an error occurs when you click the <b>Manual Match</b> button in the <b>Case</b> screen.
Workaround	None

## Documentation

Issue	<b>"ERROR 500--INTERNAL SERVER ERROR" - ONLINE HELP IS NOT WORKING</b>
Description	<p>At present, an error occurs when you access online help for the following screens:</p> <ul style="list-style-type: none"> <li>• FK Validation Summary</li> <li>• Unit of Measure</li> <li>• Promise To Pay</li> <li>• Promise To Pay Cancel Reason</li> <li>• Account Current</li> <li>• External Statement</li> <li>• Policy (P&amp;C)</li> <li>• Policy</li> <li>• Membership</li> <li>• Deferred Revenue Recognition Schedule</li> </ul>

	<ul style="list-style-type: none"><li>• Reconciliation Object</li><li>• Collection Control Central</li><li>• Charge Type</li><li>• Contract Type - Charge Type Mapping</li><li>• Contract Type - Pay Plan Template Mapping</li><li>• Pay Plan Template</li><li>• Policy Cancellation Reason</li><li>• Policy Person Role</li><li>• Reconciliation Object Line Status</li><li>• Payment Event Summary</li><li>• Payment Request</li><li>• Account Collection Summary</li><li>• Billing and Settlement Hierarchy</li><li>• COBOL Program</li><li>• Contract Relationship Type</li><li>• Extendable Lookup</li><li>• Invoice Frequency</li><li>• Payment Request Type</li><li>• Reason Code</li><li>• Web Service Adapter</li><li>• Policy Type</li></ul>
Workaround	None



Issue	<b>ONLINE HELP NOT AVAILABLE FOR SOME SCREENS OR TABS</b>
Description	<p>At present, the online help is not available for the following screens:</p> <ul style="list-style-type: none"><li>• Bucket Configuration</li><li>• Loan</li><li>• Collection Type</li><li>• Request Type (where Owner is Base)</li><li>• Request</li></ul> <p>In addition, the online help is not available for the following tabs:</p> <ul style="list-style-type: none"><li>• Workflow Process Template – Main Tab</li><li>• Rate Schedule – SQ Rule Tab</li></ul>
Workaround	None

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

Issue	<b>DOCUMENTATION IS NOT AVAILABLE FOR THE POLICY FEATURE INTRODUCED IN 2.4.0.0.0</b>
Description	At present, documentation is not available for the Policy feature which is newly introduced in 2.4.0.0.0.
Workaround	For assistance, please contact Oracle Support.

Issue	<b>BULLETED POINTS DO NOT APPEAR WHEREVER BULLETED LIST IS USED IN SPLHelp</b>
Description	At present, in the SPLHelp, the bulleted points do not appear wherever the content is presented in the bulleted list format.

Workaround	Use the alternate documentation available in the PDF format.
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Issue	<b>ORACLE UTILITIES APPLICATION FRAMEWORK BOOK APPEARS IN SPLHELP</b>
Description	At present, the Oracle Utilities Application Framework book appears in the left pane when you launch the SPLHelp. The framework content is already included in the Oracle Revenue Management and Billing book. However, when you access the online help for any framework screen, the topic from the Oracle Utilities Application Framework book is opened. Ideally, it should open the topic from the Oracle Revenue Management and Billing book.
Workaround	None

Issue	<b>TOPIC NOT DRILLED DOWN IN LEFT PANE WHEN ONLINE HELP IS LAUNCHED FOR ANY SCREEN</b>
Description	When you launch the online help (from AIX environment) for any screen, the content appears in the right pane. But, the topic is not drilled down in the left pane.
Workaround	None

Issue	<b>2.4.0.1.0 BILL TOLERANCE AND CONSTRUCT RELATED CHANGES NOT REFLECTED IN BANKING USER GUIDE</b>
Description	At present, the Bill Tolerance and Construct related changes which were incorporated in 2.4.0.1.0 are not yet reflected in the 2.5.0.1.0 Banking User Guide which is available on OTN.
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.