

**Oracle Financial Services Revenue
Management and Billing**

OR

**Oracle Insurance Revenue
Management and Billing**

Version 8.1.0.0.0

Upgrade Guide

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Oracle Financial Services Revenue Management and Billing/Oracle Insurance Revenue Management and Billing Version 8.1.0.0.0 Upgrade Guide

Note: To improve the content readability, the above two products are collectively referred to as Oracle Revenue Management and Billing throughout this document.

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Preface

About This Document

This document will help you to understand how to upgrade the Oracle Revenue Management and Billing application and its database. It also explains how to upgrade the application framework.

Intended Audience

This document is intended for the following audience:

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

Organization of the Document

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

Section No.	Section Name	Description
Section 1	Preparing for Upgrade	Provides an overview of the upgrade process. It also lists the prerequisites for upgrading the application.
Section 2	Upgrading from ORMB Version 8.0.0.0.0 to 8.1.0.0.0	Explains how to upgrade from Oracle Revenue Management and Billing Version 8.0.0.0.0 to 8.1.0.0.0.
Section 3	Additional Tasks	Lists and describes the additional tasks that you need to perform after upgrading the application.
Appendix A	Known Issues	Lists the known issues in Oracle Revenue Management and Billing Version 8.1.0.0.0.
Appendix B	Third-Party Software Upgrade	Provides a list of third-party software that you need to upgrade before upgrading the application.
Appendix C	New Tables Added in ORMB Version 8.1.0.0.0	Lists and describes the tables that are newly added in Oracle Revenue Management and Billing Version 8.1.0.0.0.
Appendix D	Existing Tables Modified in ORMB Version 8.1.0.0.0	Lists the existing tables and their columns that are modified in Oracle Revenue Management and Billing Version 8.1.0.0.0.

Section No.	Section Name	Description
Appendix E	Algorithms and Algorithm Types Dropped in ORMB Version 8.1.0.0.0	Lists the algorithms and algorithm types which are dropped in Oracle Revenue Management and Billing Version 8.1.0.0.0.
Appendix F	Parameters Added or Removed from Algorithm Types in ORMB Version 8.1.0.0.0	Lists the parameters which are added or removed from the algorithm types in Oracle Revenue Management and Billing Version 8.1.0.0.0.
Appendix G	Option Types Added or Removed from Feature Configurations in ORMB Version 8.1.0.0.0	Lists the option types which are added or removed from the feature configurations in Oracle Revenue Management and Billing Version 8.1.0.0.0.
Appendix H	Characteristic Types Dropped in ORMB Version 8.1.0.0.0	Lists the characteristic types which are dropped in Oracle Revenue Management and Billing Version 8.1.0.0.0.
Appendix I	Batch Controls Dropped in ORMB Version 8.1.0.0.0	Lists the batch controls which are dropped in Oracle Revenue Management and Billing Version 8.1.0.0.0.
Appendix J	Parameters Added or Removed from Batch Controls in ORMB Version 8.1.0.0.0	Lists the parameters which are added or removed from the batch controls in Oracle Revenue Management and Billing Version 8.1.0.0.0.
Appendix K	Changing the DB User Password	Explains how to change the database user password.
Appendix L	ORMB V8.1.0.0.0 Rollup Packs	Lists the rollup packs available for Oracle Revenue Management and Billing Version 8.1.0.0.0. It also explains how to apply a rollup pack on the application environment and database.
Appendix M	New Tables Added in OUAF Version 25.4	Lists and describes the tables that are newly added in Oracle Utilities Application Framework Version 25.4.
Appendix N	Existing Tables Modified in OUAF Version 25.4	Lists the existing tables and their columns that are modified in Oracle Utilities Application Framework Version 25.4.
Appendix O	Algorithms and Algorithm Types Dropped in OUAF Version 25.4	Lists the algorithms and algorithm types which are dropped in Oracle Utilities Application Framework Version 25.4.
Appendix P	Parameters Added or Removed from Batch Controls in OUAF Version 25.4	Lists the parameters which are added or removed from the batch controls in Oracle Utilities Application Framework Version 25.4.

Conventions

The following conventions are used across the document:

Convention	Meaning
boldface	Boldface indicates graphical user interface elements associated with an action, or terms defined in the text.
<i>italic</i>	Italic indicates a document or book title.
<code>monospace</code>	Monospace indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or information that an end-user needs to enter in the application.

Acronyms

The following acronyms are used in this document:

Acronym	Meaning
ORMB	Oracle Revenue Management and Billing
OUAF	Oracle Utilities Application Framework
FW	Framework
INPD	Initial Product Determined
UPLD	Uploaded
INVL	Invalid
EROR	Error
COMP	Completed
CNCL	Cancelled
FTP	File Transfer Protocol

Related Documents

You can see the following documents for more information:

Document Name	Description
<i>Oracle Revenue Management and Billing Version 8.1.0.0.0 Release Notes</i>	Lists the new features and enhancements made in this release. It contains high-level information about the supported platforms, framework upgrade, supported upgrades, unsupported integrations, and media pack downloads. It also lists the discontinued features, bug fixes, and known issues in this release.

Document Name	Description
<i>Oracle Revenue Management and Billing Version 8.1.0.0.0 Release Overview Guide</i>	Describes the new features, enhancements, user interface level changes, and database level changes made in this release. The new features and enhancements are classified under three categories – Generic (which is intended for both domains), Financial Services, and Insurance. It lists and describes enhancements made in the framework. It also encloses the ORMB and OUAF deprecation notices and enables you to access the product documentation.
<i>Oracle Revenue Management and Billing Upgrade Path Guide</i>	Explains the path and pre-requisites for upgrading Oracle Revenue Management and Billing from one version to another.
<i>Oracle Revenue Management and Billing Direct Database Upgrade Guide</i>	Explains how to directly upgrade the ORMB database from 2.5.0.1.0 or any later version to the current release. It also highlights any known issues during direct database upgrade and how to handle these issues in the database.

Access to Oracle Support

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1. Preparing for Upgrade

This section provides an overview of the upgrade process. It also lists the pre-requisites for upgrading Oracle Revenue Management and Billing from one version to another.

1.1 Upgrade Overview

The following figure provides an overview of the steps that need to be taken for upgrading Oracle Revenue Management and Billing.

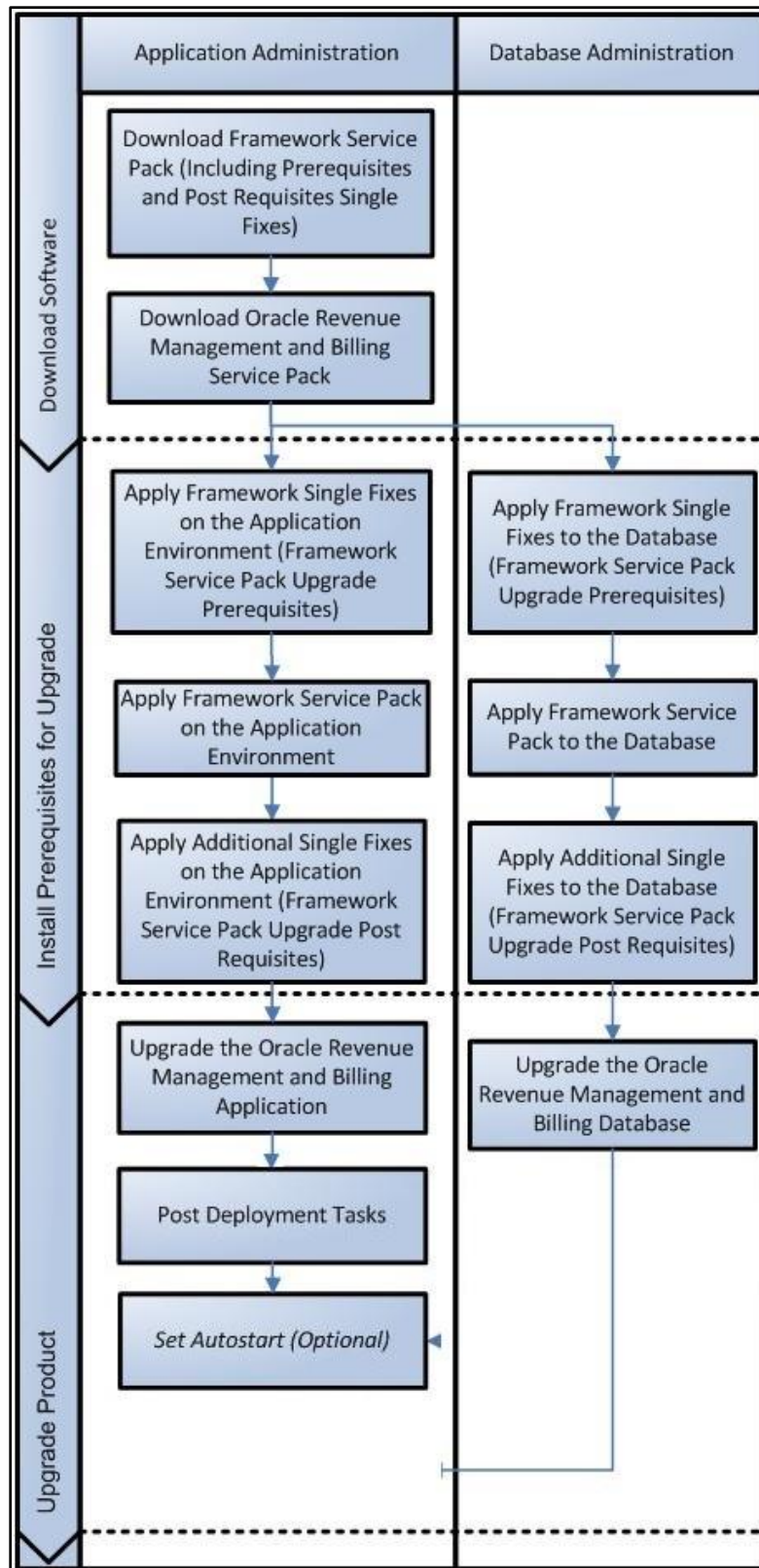


Figure 1: Upgrade Process

1.2 Upgrade Pre-requisites

Before you upgrade Oracle Revenue Management and Billing, you need to upgrade the application framework as mentioned in the *Oracle Revenue Management and Billing Upgrade Path Guide*. While upgrading the application framework, you might have to apply some patches (additional single fixes) as pre-requisites or post-requisites.

Also, before you upgrade the application framework, you might have to upgrade some of the third-party software. For more information, see the **Upgrade Prerequisites** section in the *Oracle Revenue Management and Billing Upgrade Path Guide*.

1.3 Supported Upgrades

In this release, we support the following upgrades:

- Upgrade from Oracle Revenue Management and Billing Version 8.0.0.0.0 to 8.1.0.0.0

2. Upgrading from ORMB Version 8.0.0.0.0 to 8.1.0.0.0

This section explains how to upgrade from Oracle Revenue Management and Billing Version 8.0.0.0.0 to 8.1.0.0.0. The high-level steps include:

1. [Downloading the OUAF and ORMB Packages](#)
2. [Upgrading Framework on the Database](#)
3. [Installing Framework on the Application Environment](#)
4. [Installing the ORMB Application](#)
5. [Upgrading the ORMB Database](#)
6. [Migrating Data](#)

Note: Before you upgrade the application, you must take a backup of the application and the database.

2.1 Prerequisites

If you are already using the Transaction Feed Management feature and want to upgrade to Oracle Revenue Management and Billing Version 8.1.0.0.0, then you need 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 any previous version will not happen successfully.
- Transactions which are uploaded using any previous version 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 price item parameter code or value. Otherwise, erroneous results might occur.

Also, ensure that no data exists in the **CI_BCHG_TEMP** table before you start the upgrade process. If there is data in the **CI_BCHG_TEMP** table, it means all billing batches are not yet executed for a set of bills. We recommend you to either complete the billing process for such bills by executing all the billing batches or delete the data from the **CI_BCHG_TEMP** table. Otherwise, erroneous results might occur when you execute the billing batches after the upgrade.

Note:

A non-schema owner can also upgrade the database without using the schema owner credentials. To enable a non-schema owner to upgrade the database, you need to provide the non-schema owner with the following privileges:

```
GRANT CONNECT, CREATE SESSION TO <NON-SCHEMA OWNER>;  
GRANT SELECT ON <SCHEMA OWNER>.CI_WFM TO <NON-SCHEMA OWNER>;  
GRANT SELECT ON <SCHEMA OWNER>.CI_WFM_OPT TO <NON-SCHEMA OWNER>;
```

2.2 Downloading the OUAF and ORMB Packages

For upgrading from Oracle Revenue Management and Billing Version 8.0.0.0.0 to 8.1.0.0.0, you must download the following packages from the **Oracle Financial Services Revenue Management and Billing 8.1.0.0.0** or **Oracle Insurance Revenue Management and Billing 8.1.0.0.0** media pack which is available on [Oracle Software Delivery Cloud](#):

- Oracle Financial Services Revenue Management and Billing 8.1.0.0.0 - Oracle Utilities Application Framework (25.4) Single Fix Prerequisite Rollup
- Oracle Financial Services Revenue Management and Billing 8.1.0.0.0 - Multiplatform
- Oracle Financial Services Revenue Management and Billing 8.1.0.0.0 - Oracle Database

You must also download the following packages from the **Oracle Utilities Application Framework 25.4** media pack which is available on [Oracle Software Delivery Cloud](#):

- Oracle Utilities Application Framework 25.4 - Application Installation Media
- Oracle Utilities Application Framework 25.4 - Database Installation Media

The downloaded files will be in the ZIP format.

2.2.1 Downloading the OUAF Packages

Oracle Utilities Application Framework 25.4 media pack can be installed on the following supported platforms:

- Linux (64-bit)
- Microsoft Windows (64-bit)

The media pack includes the following packages - **Oracle Utilities Application Framework 25.4 - Database Installation Media** and **Oracle Utilities Application Framework 25.4 - Application Installation Media**.

To download the OUAF packages:

1. Login to [Oracle Software Delivery Cloud](#).
2. Select the **Release** option from the **All Categories** list.
3. Type **Oracle Utilities Application Framework** in the corresponding text box.
4. Click **Search**. A list of media packs appears in the search results.
5. Click the **Select** () icon corresponding to the **Oracle Utilities Application Framework 25.4** media pack.
6. If required, you can verify the media pack which is selected by clicking the **View Items** link.
7. Click the **Continue** link. A page appears.
8. Select the required platform from the **Platforms/Languages** list.
9. Click **Continue**. A page appears with the license agreement.
10. Scroll and read the entire license agreement and then click the **I reviewed and accept the Oracle License Agreement** option.
11. Click **Continue**. The **File Download** page appears.

12. Select the **Oracle Utilities Application Framework 25.4 - Application Installation Media** package from the media pack.
13. Click **Download**. An executable file is downloaded on your local machine.
14. Run the executable file. The **Oracle Download Manager** window appears.
15. Browse to the location where you want to download the packages and then click **Next**. The packages are downloaded on your local machine.

2.2.2 Downloading the ORMB Packages

Oracle Financial Services Revenue Management and Billing 8.1.0.0.0 and Oracle Insurance Revenue Management and Billing 8.1.0.0.0 media packs can be installed on the following supported platforms:

- Linux (64-bit)
- Microsoft Windows (64-bit)

The media pack includes multiple packages. For more information, see the **Media Pack Contents** section in the *Oracle Revenue Management and Billing Version 8.1.0.0.0 Quick Installation Guide*.

To download the ORMB packages:

1. Login to [Oracle Software Delivery Cloud](#).
2. Select the **Release** option from the **All Categories** list.
3. Type **Oracle Financial Services Revenue Management and Billing** or **Oracle Insurance Revenue Management and Billing** in the corresponding text box.
4. Click **Search**. A list of media packs appears in the search results.
5. Click the **Select** () icon corresponding to the **Oracle Financial Services Revenue Management and Billing 8.1.0.0.0** or **Oracle Insurance Revenue Management and Billing 8.1.0.0.0** media pack.
6. If required, you can verify the media pack which is selected by clicking the **View Items** link.
7. Click the **Continue** link. A page appears.
8. Select the required platform from the **Platforms/Languages** list.
9. Click **Continue**. A page appears with the license agreement.
10. Scroll and read the entire license agreement and then click the **I reviewed and accept the Oracle License Agreement** option.
11. Click **Continue**. The **File Download** page appears.
12. Select the following packages from the media pack:
 - Oracle Financial Services Revenue Management and Billing 8.1.0.0.0 - Oracle Utilities Application Framework (25.4) Single Fix Prerequisite Rollup
 - Oracle Financial Services Revenue Management and Billing 8.1.0.0.0 - Multiplatform
 - Oracle Financial Services Revenue Management and Billing 8.1.0.0.0 - Oracle Database
13. Click **Download**. An executable file is downloaded on your local machine.
14. Run the executable file. The **Oracle Download Manager** window appears.
15. Browse to the location where you want to download the packages and then click **Next**. The packages are downloaded on your local machine.

2.3 Upgrading Framework on the Database

While upgrading from Oracle Revenue Management and Billing Version 8.0.0.0.0 to 8.1.0.0.0, you need to install the following on the database:

1. [Rollup Pack for Oracle Utilities Application Framework \(OUAF\) Version 25.4](#)

To install the framework service pack on the database, you must have ability to connect to the database.

2.3.1 Pre-requisites

Before installing Oracle Utilities Application Framework Version 25.4, you need to do the following:

- Set the **MAX_STRING_SIZE** parameter to **EXTENDED** – For more information, see the **Setting the MAX_STRING_SIZE Parameter to EXTENDED** topic of the **Initial Install or Installing Version 8.1.0.0.0 for the First Time** section in the *Oracle Revenue Management and Billing Database Administrator's Guide*.
- Assign the **Execute** privilege for the **DBMS_CRYPTO** package to the **CISADM** user - For more information, see the **Enabling the DBMS_CRYPTO Package** topic of the **Initial Install or Installing Version 8.1.0.0.0 for the First Time** section in the *Oracle Revenue Management and Billing Database Administrator's Guide*.
- Set the interval partitioning for the **F1_MO_UPD** and **F1_MO_UPD_BACKLOG** tables – For more information, see the **Partitioning F1_MO_UPD and F1_MO_UPD_BACKLOG Tables** section of the *Oracle Revenue Management and Billing Database Administrator's Guide*.

2.3.2 Installing Rollup Pack for OUAF Version 25.4

You can install the rollup pack for Oracle Utilities Application Framework Version 25.4 from a Windows machine or UNIX Standalone server. To install the rollup pack for Oracle Utilities Application Framework (OUAF) Version 25.4 on the database:

1. Login to the database server using the administrator's credentials.
2. Copy the **Oracle Financial Services Revenue Management and Billing 8.1.0.0.0 - Oracle Utilities Application Framework (25.4) Single Fix Prerequisite Rollup** package to the **TEMPDIR** folder using the following command:

Linux:

```
cp <PATH>/<filename>.zip <PATH>/TEMPDIR
```

Windows:

```
copy <PATH>\<filename>.zip <PATH>\TEMPDIR
```

Note: You can also use File Transfer Protocol (FTP) to transfer the downloaded file from one host to another. You must use the binary mode while copying files through FTP.

3. Change to the `TEMPDIR` folder using the following command:

Linux:

```
cd <PATH>/TEMPDIR
```

Windows:

```
cd <PATH>\TEMPDIR
```

4. Unzip the **Oracle Financial Services Revenue Management and Billing 8.1.0.0.0 - Oracle Utilities Application Framework (25.4) Single Fix Prerequisite Rollup** package using the following command:

Linux:

```
unzip <filename>.zip -d <PATH>/<DESTINATION_FOLDER_1>
```

Windows:

```
unzip <filename>.zip -d <PATH>\<DESTINATION_FOLDER_1>
```

The contents of the zip file are extracted in the `<DESTINATION_FOLDER_1>` folder. The contents include the `ORMB-V81000-FW-PREREQ-MultiPlatform.jar` file.

5. Change to the `<DESTINATION_FOLDER_1>` folder using the following command:

Linux:

```
cd <PATH>/<DESTINATION_FOLDER_1>
```

Windows:

```
cd <PATH>\<DESTINATION_FOLDER_1>
```

6. Decompress the JAR file using the following command:

```
jar -xvf ORMB-V81000-FW-PREREQ-MultiPlatform.jar
```

A sub-folder named `FW-V25.4-Rollup` is extracted. It contains the following two sub-folders:

- `Application`
- `Database`

7. Change to the `TEMPDIR` folder using the following command:

Linux:

```
cd <PATH>/TEMPDIR
```

Windows:

```
cd <PATH>\TEMPDIR
```

8. Create a folder named `dbpatch_tools` using the following command:

```
mkdir dbpatch_tools
```

9. Create the `db_patch_standalone.jar` file on the application server. For more information, see the **Database Patching Process** section in the *Oracle Revenue Management and Billing Installation Guide*.

10. Copy the `db_patch_standalone.jar` file from the `$SPLEBASE/tools/dbstandalone` or `%SPLEBASE%\tools\dbstandalone` folder to the `dbpatch_tools` folder.

11. Change to the `dbpatch_tools` folder using the following command:

Linux:

```
cd <PATH>/TEMPDIR/dbpatch_tools
```

Windows:

```
cd <PATH>\TEMPDIR\dbpatch_tools
```

12. Decompress the JAR file using the following command:

```
jar -xvf db_patch_standalone.jar
```

The contents are extracted in the `dbpatch_tools` folder. The contents include the following three sub-folders:

- `bin`
- `config`
- `lib`

13. Set the `TOOLSBIN` environment variable using the following command:

Linux:

```
export TOOLSBIN=TEMPDIR/dbpatch_tools/bin
```

Windows:

```
SET TOOLSBIN=TEMPDIR\dbpatch_tools\bin
```

14. Change to the `Database` folder using the following command:

Linux:

```
cd <DESTINATION_FOLDER_1>/FW-V25.4-Rollup/Database
```

Windows:

```
cd <DESTINATION_FOLDER_1>\FW-V25.4-Rollup\Database
```

Note: The `<DESTINATION_FOLDER_1>` folder is the location where you have extracted the contents of the `ORMB-V81000-FW-PREREQ-MultiPlatform.jar` file.

15. Execute the `ouafDatabasePatch` utility using the following command:

Windows:

```
TEMPDIR\dbpatch_tools\bin\ouafDatabasePatch.cmd
```

OR

```
%SPLEBASE%\tools\bin\db\bin\ouafDatabasePatch.cmd
```

Linux:

```
TEMPDIR/dbpatch_tools/bin/ouafDatabasePatch.sh
```

OR

```
$SPLEBASE/tools/bin/db/bin/ouafDatabasePatch.sh
```

Note: On the Linux platform, ensure that you grant the execute permission for the `ouafDatabasePatch.sh` utility using the following command:

```
chmod 755 ouafDatabasePatch.sh
```

This utility prompts you to enter values for the following parameters:

Parameter	Value
Enter the target database type (O/M/D) [O]	O (if you have Oracle database) OR M (if you have MySQL database)
Enter the username that owns the schema	<DB_USER> Example: CISADM
Enter the password for the <DB_USER> user	<DB_USER_PASSWORD>
Enter the name of the Oracle Database Connection String	<DB_SERVER:DB_PORT:DB_SID> OR <DB_SERVER:DB_PORT/SERVICE_NAME>

16. Enter the required parameter value. The following message appears in the command line:

```
Ready to process patches, Do you want to continue? (Y/N)
```

17. Type **Y** and then press **Enter**. A message appears indicating that the patches are applied successfully.

2.4 Installing Framework on the Application Environment

Once you install the framework and its rollup pack on the database, you need to install the following on the application environment:

1. [Oracle Utilities Application Framework \(OUAF\) Version 25.4](#)
2. [Rollup Pack for Oracle Utilities Application Framework \(OUAF\) Version 25.4](#)

You must not perform these steps on the existing environments. Instead, you must create new development and production/UAT environments on the application server and then perform the steps listed in this section.

2.4.1 Installing OUAF Version 25.4

To install Oracle Utilities Application Framework (OUAF) Version 25.4 on the application environment:

1. Login to the application server using the administrator's credentials.
2. Create a temporary folder (for example, `TEMPDIR`) on the application server using the following command:

```
mkdir TEMPDIR
```

3. Copy the **Oracle Utilities Application Framework 25.4 - Application Installation Media** package to the `TEMPDIR` folder using the following command:

Linux:

```
cp <PATH>/<filename>.zip <PATH>/TEMPDIR
```

Windows:

```
copy <PATH>\<filename>.zip <PATH>\TEMPDIR
```

Note: You can also use File Transfer Protocol (FTP) to transfer the downloaded file from one host to another. You must use the binary mode while copying files through FTP.

4. Change to the `TEMPDIR` folder using the following command:

Linux:

```
cd <PATH>/TEMPDIR
```

Windows:

```
cd <PATH>\TEMPDIR
```

5. Unzip the **Oracle Utilities Application Framework 25.4 - Application Installation Media** package using the following command:

Linux:

```
unzip <filename>.zip -d <PATH>/<DESTINATION_FOLDER_1>
```

Windows:

```
unzip <filename>.zip -d <PATH>\<DESTINATION_FOLDER_1>
```

The contents of the zip file are extracted in the `<DESTINATION_FOLDER_1>` folder. The contents include a directory named `FW-V25.4`. The contents of the installation package are identical for all supported platforms. The `FW-V25.4` folder contains the OUAF installation software.

6. Install and configure the required third-party software for the application server.

Note: You must install the prerequisite third-party software depending on the platform on which you want to install Oracle Utilities Application Framework. For more details, see the **Installing Application Server Prerequisite Software** section in the *Oracle Revenue Management and Billing Installation Guide*.

7. Set the `Java_Home` path using the following command:

```
export PATH=/<Java_Home>/bin:$PATH
```

Points to Note:

The `<Java_Home>` is the location where you have installed Java 17.0.

The above command is applicable only for Linux platform.

8. Change to the `FW-V25.4` folder using the following command:

Linux:

```
cd <DESTINATION_FOLDER_1>/FW-V25.4
```

Windows:

```
cd <DESTINATION_FOLDER_1>\FW-V25.4
```

Note: The `<DESTINATION_FOLDER_1>` folder is the location where you have extracted the contents of the **Oracle Utilities Application Framework 25.4 - Application Installation Media** package.

9. Execute the `install` utility using the following command:

Linux:

```
ksh ./install.sh
```

Windows:

```
install.cmd
```

The following message appears in the command line:

```
Enter Oracle Client Home Folder (<Enter> quit):
```

Note: In Microsoft Windows platform, the installation must be on a New Technology File System (NTFS). The script will error out if the filesystem is not NTFS.

10. Type `<ORACLE_CLIENT_HOME>`, and then press **Enter**. The following environment installation menus appear in the command line:

- 1. Environment ID, Roles, Third Party Software Configuration
- 2. Keystore Options
- 50. Environment Installation Options

Points to Note:

The `<ORACLE_CLIENT_HOME>` is the location where Oracle Database Client is installed. This is required to execute the Perl installation utilities.

If the `ORACLE_CLIENT_HOME` environment variable is set, the installation utility will not request you to provide this information.

11. Type **1** to define values for the third-party software configuration, and then press **Enter**. The utility prompts you to enter values for a list of menu options.
12. Specify the required value for menu options, and then press **Enter**. The specified values are stored in the `$SPLEBASE/etc/ENVIRON.INI` file.

Note: For more details about these menu options, see the **Environment ID, Roles, Third Party Software Configuration** section in the *Oracle Revenue Management and Billing Installation Guide*.

13. Type **2** to define values for the keystore options, and then press **Enter**. The utility prompts you to enter values for a list of menu options.
14. Specify the required value for menu options, and then press **Enter**. The specified values are stored in the `$SPLEBASE/etc/ENVIRON.INI` file.

Note: For more details about these menu options, see the **Keystore Options** section in the *Oracle Revenue Management and Billing Installation Guide*.

15. Type **50** to define values for the environment installation options, and then press **Enter**. The utility prompts you to enter values for a list of menu options.
16. Specify the required value for menu options, and then press **Enter**. The specified values are stored in the `$SPLEBASE/etc/ENVIRON.INI` file.

Points to Note:

`$SPLEBASE` or `%SPLEBASE%` is the path where the application environment is installed.

Before you specify the environment installation options, ensure that you have created an output folder named Log File Mount Point. If this output folder does not exist, the installation will not be successfully executed.

For more details about these menu options, see the **Environment Installation Options** section in the *Oracle Revenue Management and Billing Installation Guide*.

17. Type **P** to proceed with the installation. The following environment configuration menus appear in the command line:
 - 1. Environment Description
 - 2. Business Application Server Configuration
 - 3. Web Application Server Configuration
 - 4. Database Configuration
 - 5. General Configuration Options
 - 6. OUAF TrustStore Options
18. Type **1**, and then press **Enter**. The utility prompts you to enter the environment description.
19. Specify the environment description, and then press **Enter**. The specified values are stored in the `$SPLEBASE/etc/ENVIRON.INI` file.

Note: For more details, see the **Environment Description** section in the *Oracle Revenue Management and Billing Installation Guide*.

20. Type **2** to define values for the business application server configuration, and then press **Enter**. The utility prompts you to enter values for a list of menu options.
21. Specify the required value for menu options, and then press **Enter**. The specified values are stored in the `$SPLEBASE/etc/ENVIRON.INI` file.

Note: For more details, see the **Business Application Server Configuration** section in the *Oracle Revenue Management and Billing Installation Guide*.

22. Type **3** to define values for the web application server configuration, and then press **Enter**. The utility prompts you to enter values for a list of menu options.
23. Specify the required value for menu options, and then press **Enter**. The specified values are stored in the `$SPLEBASE/etc/ENVIRON.INI` file.

Note: For more details, see the **Web Application Server Configuration** section in the *Oracle Revenue Management and Billing Installation Guide*.

24. Type **4** to define values for the database configuration, and then press **Enter**. The utility prompts you to enter values for a list of menu options.

25. Specify the required value for menu options, and then press **Enter**. The specified values are stored in the `$SPLEBASE/etc/ENVIRON.INI` file.

Note: For more details about these menu options, see the **Database Configuration** section in the *Oracle Revenue Management and Billing Installation Guide*.

26. Type **5** to define values for the general configuration options, and then press **Enter**. The utility prompts you to enter values for a list of menu options.

27. Specify the required value for menu options, and then press **Enter**. The specified values are stored in the `$SPLEBASE/etc/ENVIRON.INI` file.

Note: For more details about these menu options, see the **General Configuration Options** section in the *Oracle Revenue Management and Billing Installation Guide*.

28. Type **6** to define values for the OUAF TrustStore Options, and then press **Enter**. The utility prompts you to enter values for a list of menu options.

29. Specify the required value for menu options, and then press **Enter**. The specified values are stored in the `$SPLEBASE/etc/ENVIRON.INI` file.

Note: For more details about these menu options, see the **OUAF TrustStore Options** section in the *Oracle Revenue Management and Billing Installation Guide*.

30. Type **P** to proceed with the installation. The Oracle Utilities Application Framework Version 25.4 is installed on the application server.

Points to Note:

The utility contains default values for some of the menu options. If required, you can change their values. While executing the `install` utility, you must set the value for the required menu options. Otherwise, the installation process will not be completed successfully.

You will be warned if you did not edit a section. You may proceed if you want to keep the default settings.

Once the installation process is completed, the following utilities are automatically executed in the specified order:

1. `initialSetup` - The `initialSetup` utility updates the configuration files including the WAR files on the system. On the UNIX machine, this utility is available in the `$SPLEBASE/bin` folder. And, on the Windows machine, this utility is available in the `%SPLEBASE%\bin` folder.

2. `splenviron` - The `splenviron` utility sets the environment variables using the `ENVIRON.INI` file. On the UNIX machine, this utility is available in the `$SPLEBASE/bin` folder. And, on the Windows machine, this utility is available in the `%SPLEBASE%\bin` folder. The following are some of the key environment variables that are set using the `splenviron` utility:

- `$PATH` - Updated to include all the required environment scripts and objects.
- `$SPLEBASE (%SPLEBASE%)` - Indicates the `<SPLDIR>/<SPLENVIRON>` folder
- `$SPLOUTPUT (%SPLOUTPUT%)` - Indicates the `<SPLDIROUT>/<SPLENVIRON>` folder
- `$SPLENVIRON (%SPLENVIRON%)` - Indicates the environment name

Points to Note:

For future operations or any post installation steps, you need to first execute the following command to connect your session to the new environment:

Linux:

```
$SPLEBASE/bin/splenviron.sh -e $SPLENVIRON
```

Windows:

```
%SPLEBASE%\bin\splenviron.cmd -e %SPLENVIRON%
```

You need to execute this script each time you want to be connected to the specific environment before performing manual operations such as shutdown, start-up or performing an additional application product installation.

When you have finished the install process, your current online session will be connected to the new environment.

2.4.2 Installing Rollup Pack for OUAF Version 25.4

To install the rollup pack for Oracle Utilities Application Framework Version 25.4 on the application environment:

1. Copy the **Oracle Financial Services Revenue Management and Billing 8.1.0.0.0 - Oracle Utilities Application Framework (25.4) Single Fix Prerequisite Rollup** package to the `TEMPDIR` folder using the following command:

Linux:

```
cp <PATH>/<filename>.zip <PATH>/TEMPDIR
```

Windows:

```
copy <PATH>\<filename>.zip <PATH>\TEMPDIR
```

Note: You can also use File Transfer Protocol (FTP) to transfer the downloaded file from one host to another. You must use the binary mode while copying files through FTP.

2. Change to the `TEMPDIR` folder using the following command:

Linux:

```
cd <PATH>/TEMPDIR
```

Windows:

```
cd <PATH>\TEMPDIR
```

3. Unzip the **Oracle Financial Services Revenue Management and Billing 8.1.0.0.0 - Oracle Utilities Application Framework (25.4) Single Fix Prerequisite Rollup** package using the following command:

Linux:

```
unzip <filename>.zip -d <PATH>/<DESTINATION_FOLDER_2>
```

Windows:

```
unzip <filename>.zip -d <PATH>\<DESTINATION_FOLDER_2>
```

The contents of the zip file are extracted in the <DESTINATION_FOLDER_2> folder. The contents include the ORMB-V81000-FW-PREREQ-MultiPlatform.jar file.

4. Decompress the JAR file using the following command:

```
jar -xvf ORMB-V81000-FW-PREREQ-MultiPlatform.jar
```

A sub-folder named FW-V25.4-Rollup is extracted. It contains the following two sub-folders:

- Application
- Database

5. Initialize the application environment where you want to install the rollup pack using the following command:

Linux:

```
$SPLBASE/bin/splenvron.sh -e $SPLENVIRON
```

Windows:

```
%SPLBASE%\bin\splenvron.cmd -e %SPLENVIRON%
```

6. Change to the Application folder using the following command:

Linux:

```
cd <DESTINATION_FOLDER_2>/FW-V25.4-Rollup/Application
```

Windows:

```
cd <DESTINATION_FOLDER_2>\FW-V25.4-Rollup\Application
```

Note: The <DESTINATION_FOLDER_2> folder is the location where you have extracted the contents of the ORMB-V81000-FW-PREREQ-MultiPlatform.jar file.

7. Execute the installSFgroup utility using the following command:

Linux:

```
chmod a+x installSFgroup.sh
```

```
chmod a+x FW*/*.sh
```

```
./installSFgroup.sh
```

Windows:

```
installSFgroup.cmd
```

The following message appears in the command line:

```
Ready to process patches, Do you want to continue? (Y/N)
```

8. Type **Y** in the command line, and then press **Enter**. A message appears indicating that the process has been completed successfully.

2.5 Installing the ORMB Application

This section explains how to install the application. You need to install the following on the application environment:

1. [Oracle Revenue Management and Billing \(ORMB\) Version 8.1.0.0.0](#)
2. [Oracle Revenue Management and Billing \(ORMB\) Version 8.1.0.0.0 Post Requisite Patches](#)

Note: If you have updated the template files in the `$SPLEBASE/etc` folder, you must also take a backup of these files. Once the application is installed on the new application environment, you need to copy the latest template files in the `$SPLEBASE/etc` folder.

Once you install the application, you can access the application. For more information on how to access the application, see the [Accessing the ORMB Application](#) section. After accessing the application, you need to set the [C1-CFS](#) feature configuration.

2.5.1 Installing ORMB Version 8.1.0.0.0

To install Oracle Revenue Management and Billing (ORMB) Version 8.1.0.0.0 on the application environment:

1. Login to the application server using the administrator's credentials.
2. Copy the **Oracle Financial Services Revenue Management and Billing 8.1.0.0.0 - Multiplatform** package to the `TEMPDIR` folder using the following command:

Linux:

```
cp <PATH>/<filename>.zip <PATH>/TEMPDIR
```

Windows:

```
copy <PATH>\<filename>.zip <PATH>\TEMPDIR
```

Note: You can also use File Transfer Protocol (FTP) to transfer the downloaded file from one host to another. You must use the binary mode while copying files through FTP.

3. Change to the `TEMPDIR` folder using the following command:

Linux:

```
cd <PATH>/TEMPDIR
```

Windows:

```
cd <PATH>\TEMPDIR
```

4. Unzip the **Oracle Financial Services Revenue Management and Billing 8.1.0.0.0 - Multiplatform** package using the following command:

Linux:

```
unzip <filename>.zip -d <PATH>/<DESTINATION_FOLDER_3>
```

Windows:

```
unzip <filename>.zip -d <PATH>\<DESTINATION_FOLDER_3>
```

The contents of the zip file are extracted in the <DESTINATION_FOLDER_3> folder. The contents include ORMB.V8.1.0.0.0 folder.

5. Initialize the application environment (on which you want to install the application) using the following command:

Linux:

```
$SPLEBASE/bin/splenviron.sh -e $SPLENVIRON
```

Windows:

```
%SPLEBASE%\bin\splenviron.cmd -e %SPLENVIRON%
```

6. Stop the managed server where the application is hosted using the Oracle WebLogic Console.
7. Change to the ORMB.V8.1.0.0.0 folder using the following command:

Linux:

```
cd <DESTINATION_FOLDER_3>/ORMB.V8.1.0.0.0
```

Windows:

```
cd <DESTINATION_FOLDER_3>\ORMB.V8.1.0.0.0
```

8. Execute the `install` utility using the following command:

Linux:

```
./install.sh
```

Windows:

```
install.cmd
```

The following message appears in the command line:

```
Do you wish to proceed with the installation? Y/N:
```

9. Type **Y** and then press **Enter**. A message appears informing you to type P if you want to proceed with the installation.
10. Type **P**, and then press **Enter**.

Points to Note:

If you want to set the advanced menu options, execute the `configureEnv` utility using the following command:

Linux:

```
$SPLEBASE/bin/configureEnv.sh -a
```

Windows:

```
%SPLEBASE%\bin\configureEnv.cmd -a
```

You cannot set the advanced menu options during the installation process. These options can be set only after the application is installed. For more information, see the **Advanced Menu Options** section in the *Oracle Revenue Management and Billing Installation Guide*.

2.5.2 Applying the Release-Specific Patches

Once you install Oracle Revenue Management and Billing (ORMB) Version 8.1.0.0.0, you need to apply the release-specific patches on the application environment. To view the list of patches that you need to apply on the application environment, see the [ORMB V8.1.0.0.0 Patch Guide](#) (Document ID: 3110234.1) on [My Oracle Support](#).

Alternatively, instead of individually applying the patches, you can download and install the rollup packs, if available, to apply a set of patches at once. For more information about the rollup packs, see [Appendix L: ORMB V8.1.0.0.0 Rollup Packs](#).

To apply a patch:

1. Download the patch from [My Oracle Support](#). A zip file is downloaded.
2. Unzip the downloaded file using the following command:

Linux:

```
unzip <filename>.zip -d <PATH>/<DESTINATION_FOLDER_4>
```

Windows:

```
unzip <filename>.zip -d <PATH>\<DESTINATION_FOLDER_4>
```

The contents of the zip file are extracted in the <DESTINATION_FOLDER_4> folder. The contents include three files - README.txt, MultiPlatform.zip, and Bug_<PATCH_NUMBER>_Product_Fix_Design.pdf.

3. Unzip the MultiPlatform.zip file using the following command:

Linux:

```
unzip <DESTINATION_FOLDER_4>/MultiPlatform.zip -d  
<PATH>/<DESTINATION_FOLDER_5>
```

Windows:

```
unzip <DESTINATION_FOLDER_4>\MultiPlatform.zip -d  
<PATH>\<DESTINATION_FOLDER_5>
```

The contents of the zip file are extracted in the <DESTINATION_FOLDER_5> folder. The contents include the V8.1.0.0.0-<PATCH_NUMBER>_MultiPlatform folder.

4. Change to the V8.1.0.0.0-<PATCH_NUMBER>_MultiPlatform folder using the following command:

Linux:

```
cd <DESTINATION_FOLDER_5>/V8.1.0.0.0-<PATCH_NUMBER>_MultiPlatform
```

Windows:

```
cd <DESTINATION_FOLDER_5>\V8.1.0.0.0-<PATCH_NUMBER>_MultiPlatform
```

Note: The <DESTINATION_FOLDER_5> folder is the location where you have extracted the contents of the MultiPlatform.zip file.

The contents include a file named CCB.V8.1.0.0.0-<PATCH_NUMBER>.jar and a directory named database.

- Decompress the `CCB.V8.1.0.0.0-<PATCH_NUMBER>.jar` file using the following command:

```
jar -xvf CCB.V8.1.0.0.0-<PATCH_NUMBER>.jar
```

The contents include two sub-folders - `META-INF` and `CCB.V8.1.0.0.0-<PATCH_NUMBER>`.

- Initialize the application environment (on which you want to install the patch) using the following command:

Linux:

```
$SPLEBASE/bin/splenviron.sh -e $SPLENVIRON
```

Windows:

```
%SPLEBASE%\bin\splenviron.cmd -e %SPLENVIRON%
```

Where,

`$SPLEBASE` or `%SPLEBASE%` is the path where the application environment is installed and
`$SPLENVIRON` or `%SPLENVIRON%` is the name of the application environment.

- Change to the `CCB.V8.1.0.0.0-<PATCH_NUMBER>` folder using the following command:

Linux:

```
cd <DESTINATION_FOLDER_5>/V8.1.0.0.0-  
<PATCH_NUMBER>_MultiPlatform/CCB.V8.1.0.0.0-<PATCH_NUMBER>
```

Windows:

```
cd <DESTINATION_FOLDER_5>\V8.1.0.0.0-  
<PATCH_NUMBER>_MultiPlatform\CCB.V8.1.0.0.0-<PATCH_NUMBER>
```

- Install the patch using the following command:

Linux:

```
./installSF.sh
```

Windows:

```
installSF.cmd
```

- Start the managed server using the Oracle WebLogic Console.

2.5.3 Accessing the ORMB Application

The following table lists the URLs that you can use to access the application on various application servers:

Application Server	URL
Oracle WebLogic	<code>https://<hostname>:<WebLogic_Port_Number>/ouaf/loginPage.jsp</code>

2.5.4 Setting the C1-CFS Feature Configuration

The **C1-CFS** feature configuration enables you to indicate whether the application environment should use the file object storage service of Oracle Cloud Infrastructure (OCI). If the file object storage service of OCI is used, you need to specify the buckets or containers within the Object Storage namespace from where you need to read files for the On Demand Billing and Payment Upload features. Before specifying the buckets to read files from the external location for the On Demand Billing and Payment Upload features, you need to define a file storage extendable lookup value using the **File Storage Configuration (F1-FileStorage)** extendable lookup where the file adapter is set to **Oracle Cloud Object Storage**. For more information on how to define a file storage extendable lookup value, see the **Oracle Utilities Application Framework Administrative Processes → Configuration Tools → Miscellaneous Topics → Referencing URIs → External File Storage** in *Oracle Revenue Management and Billing Online Help*.

To set the **C1-CFS** feature configuration:

1. Login to Oracle Revenue Management and Billing Version 8.1.0.0.0.
2. Click the **Admin** link in the **Application** toolbar. A list appears.
3. From the **Admin** menu, select **F** and then click **Feature Configuration**. A sub-menu appears.
4. Click the **Search** option from the **Feature Configuration** sub-menu. The **Feature Configuration Query** screen appears.
5. In the **Feature Configuration Search** zone, enter **C1-CFS** in the **Feature Name** field.
6. Click **Search**. A list of feature configurations that meet the search criteria appears in the search results.
7. In the **Search Results** section, click the link in the **Description** column corresponding to the feature configuration whose details you want to edit. The **Feature Configuration** screen appears. It contains the following option types:

Option Type	Description	Mandatory (Yes or No)
File Object Storage Usage	Used to indicate whether the application environment should use the file object storage service of Oracle Cloud Infrastructure (OCI). The valid values are: • Y • N Points to Note: By default, the value is set to N. You must ensure that the value of this option type is set to N in the On Premise and Cloud Service environments. If the value of this option type is set to Y, you need to accordingly specify the directory paths while executing the DWLDBILC, C1-PUPSG, C1-APACK, and C1-RECUP batches. For more information,	Yes

Option Type	Description	Mandatory (Yes or No)
	see the <i>Oracle Revenue Management and Billing Batch Guide</i> .	
ODB Extendable Lookup and Bucket	Used to specify the following information in the <File Storage Extendable Lookup Value>/<Object Storage Bucket> format: - The file storage extendable lookup value from where the cloud storage compartment and connection details are retrieved while uploading the files through the On Demand Billing feature. - The bucket or container from where you want to upload the file using the On Demand Billing feature.	Yes (Conditional) Note: This option type is required only when the File Object Storage Usage option type is set to Y and you want to use the On Demand Billing feature.
Payment Upld Extendable Lookup and Bucket	Used to specify the following information in the <File Storage Extendable Lookup Value>/<Object Storage Bucket> format: - The file storage extendable lookup value from where the cloud storage compartment and connection details are retrieved while uploading the files through the Payment Upload feature. - The bucket or container from where you want to upload the file using the Payment Upload feature.	Yes (Conditional) Note: This option type is required only when the File Object Storage Usage option type is set to Y and you want to use the Payment Upload feature.

- Set the **File Object Storage Usage** option type to **N**.
- Click the **Save** button in the **Page Title** area. The changes made to the feature configuration are saved.

2.6 Upgrading the ORMB Database

This section explains how to upgrade the database. When you upgrade the database, the system overwrites the database schema and the metadata present in the database. However, the transactional data is not affected.

While upgrading from Oracle Revenue Management and Billing Version 8.0.0.0.0 to 8.1.0.0.0, you need to install the following on the database:

1. [Oracle Revenue Management and Billing \(ORMB\) Version 8.1.0.0.0](#)
2. [Oracle Revenue Management and Billing \(ORMB\) Version 8.1.0.0.0 Post Requisite Patches](#)

Points to Note:

To view the list of patches that you need to apply on the database, see the [ORMB V8.1.0.0.0 Patch Guide](#) (Document ID: 3110234.1) on [My Oracle Support](#).

Alternatively, instead of individually applying the patches, you can download and install the rollup packs, if available, to apply a set of patches at once. For more information about the rollup packs, see [Appendix L: ORMB V8.1.0.0.0 Rollup Packs](#).

Before you upgrade the database, you must take a backup of the existing database.

When you upgrade the database, any metadata with the Owner flag set to CM is not overridden during the upgrade process.

2.6.1 Installing ORMB Version 8.1.0.0.0

To install Oracle Revenue Management and Billing (ORMB) Version 8.1.0.0.0:

1. Login to the database server using the administrator's credentials.
2. Copy the **Oracle Financial Services Revenue Management and Billing 8.1.0.0.0 - Oracle Database** package to the `TEMPDIR` folder using the following command:

Linux:

```
cp <PATH>/<filename>.zip <PATH>/TEMPDIR
```

Windows:

```
copy <PATH>\<filename>.zip <PATH>\TEMPDIR
```

Note: You can also use File Transfer Protocol (FTP) to transfer the downloaded file from one host to another. You must use the binary mode while copying files through FTP.

3. Change to the `TEMPDIR` folder using the following command:

Linux:

```
cd <PATH>/TEMPDIR
```

Windows:

```
cd <PATH>\TEMPDIR
```

4. Unzip the **Oracle Financial Services Revenue Management and Billing 8.1.0.0.0 - Oracle Database** package using the following command:

Linux:

```
unzip <filename>.zip -d <PATH>/<DESTINATION_FOLDER_2>
```

Windows:

```
unzip <filename>.zip -d <PATH>\<DESTINATION_FOLDER_2>
```

The contents of the zip file are extracted in the <DESTINATION_FOLDER_2> folder. The contents include the following sub-folder:

- RMB

Note:

There might be situations when you do not want to recreate one or more tables or indexes. You can skip the recreation process of one or more tables or indexes by adding the following line in the <DESTINATION_FOLDER_2>/RMB/Upgrade/Oracle/Install-Upgrade/OraSchUpg.inp file:

```
-INDEX: 'INDEX1', 'INDEX2', 'INDEX3'
```

```
-TABLE: 'TBAL1_NAME', 'TABLE2_NAME'
```

For example,

```
-INDEX: 'XXT033P0', 'XXT034P0', 'XXT035P0'
```

```
-TABLE: 'F1_WEB_SVC'
```

5. Set the `JAVA_HOME` environment variable using the following command:

Linux:

```
export JAVA_HOME=<JAVA_HOME_PATH>
```

Windows:

```
SET JAVA_HOME=<JAVA_HOME_PATH>
```

Note: The <JAVA_HOME_PATH> is the location where Java Development Kit Version 17.0 is installed.

6. Set the `JAR_PATH` environment variable using the following command:

Linux:

```
export JAR_PATH=<DESTINATION_FOLDER_2>/RMB/jarfiles
```

Note: The above command is applicable only for the Linux platform.

7. Set the `CLASS_PATH` environment variable using the following command:

Linux:

```
export CLASS_PATH=$JAR_PATH/commons-cli-1.9.0.jar:$JAR_PATH/commons-codec-1.17.1.jar:$JAR_PATH/jackson-annotations-2.17.0.jar:$JAR_PATH/jackson-core-2.17.0.jar:$JAR_PATH/jackson-databind-2.17.0.jar:$JAR_PATH/log4j-api-2.21.0.jar:$JAR_PATH/log4j-core-2.21.0.jar:$JAR_PATH/ojdbc17-23.6.0.24.10.jar:$JAR_PATH/spl-oradbi-25.4.jar:$JAR_PATH/spl-shared-25.4.jar
```

Windows:

```
SET CLASS_PATH=<DESTINATION_FOLDER_2>\RMB\jarfiles\*
```

8. Change to the `Install-Upgrade` folder using the following command:

Linux:

```
cd <DESTINATION_FOLDER_2>/RMB/Upgrade/Oracle/Install-Upgrade
```

Windows:

```
cd <DESTINATION_FOLDER_2>\RMB\Upgrade\Oracle\Install-Upgrade
```

9. Execute the `OraDBI (Java)` utility using the following command:

Windows:

```
%JAVA_HOME%\bin\java -Xmx1500M -cp %CLASS_PATH%com.oracle.ouaf.oem.install.OraDBI -d jdbc:oracle:thin:@<DB_SERVER_NAME>:<DB_PORT>:<DB_NAME>, <SCHEMA_NAME>, <SCHEMA_PASSWORD>, <READWRITE_USER>, <READONLY_USER>, <READWRITE_ROLE>, <READONLY_ROLE>, <SCHEMA NAME> -p <READWRITE_USER_PASSWORD>, <READONLY_USER_PASSWORD> -l 1,2 -q true
```

Linux:

```
$JAVA_HOME/bin/java -Xmx1500M -cp $CLASS_PATHcom.oracle.ouaf.oem.install.OraDBI -d jdbc:oracle:thin:@<DB_SERVER_NAME>:<DB_PORT>:<DB_NAME>, <SCHEMA_NAME>, <SCHEMA_PASSWORD>, <READWRITE_USER>, <READONLY_USER>, <READWRITE_ROLE>, <READONLY_ROLE>, <SCHEMA NAME> -p <READWRITE_USER_PASSWORD>, <READONLY_USER_PASSWORD> -l 1,2 -q true
```

The following message appears in the command line:

```
Ready to upgrade the target database from V8.0.0.0.0 to V8.1.0.0.0, do you want to continue (Y/N)?
```

10. Type **Y** and then press **Enter**. A message appears indicating that the process is completed successfully.

2.6.2 Applying the Release-Specific Patches

Once you install Oracle Revenue Management and Billing Version 8.1.0.0.0, you need to apply all patches listed in the [ORMB V8.1.0.0.0 Patch Guide](#) (Document ID: 3110234.1). You can apply a patch from a Windows machine or UNIX Standalone server.

To apply a patch:

1. Download the patch from [My Oracle Support](#). A zip file is downloaded.
2. Unzip the downloaded file using the following command:

Linux:

```
unzip <filename>.zip -d <PATH>/<DESTINATION_FOLDER_3>
```

Windows:

```
unzip <filename>.zip -d <PATH>\<DESTINATION_FOLDER_3>
```

The contents of the zip file are extracted in the <DESTINATION_FOLDER_3> folder. The contents include three files - README.txt, MultiPlatform.zip, and Bug_<PATCH_NUMBER>_Product_Fix_Design.pdf.

3. Unzip the MultiPlatform.zip file using the following command:

Linux:

```
unzip <DESTINATION_FOLDER_3>/MultiPlatform.zip -d  
<PATH>/<DESTINATION_FOLDER_4>
```

Windows:

```
unzip <DESTINATION_FOLDER_3>\MultiPlatform.zip -d  
<PATH>\<DESTINATION_FOLDER_4>
```

The contents of the zip file are extracted in the <DESTINATION_FOLDER_4> folder. The contents include the V8.1.0.0.0-<PATCH_NUMBER>_MultiPlatform folder.

4. Change to the V8.1.0.0.0-<PATCH_NUMBER>_MultiPlatform folder using the following command:

Linux:

```
cd <DESTINATION_FOLDER_4>/V8.1.0.0.0-<PATCH_NUMBER>_MultiPlatform
```

Windows:

```
cd <DESTINATION_FOLDER_4>\V8.1.0.0.0-<PATCH_NUMBER>_MultiPlatform
```

Note: The <DESTINATION_FOLDER_4> folder is the location where you have extracted the contents of the MultiPlatform.zip file.

The contents include a file named CCB.V8.1.0.0.0-<PATCH_NUMBER>.jar and a folder named database.

- Change to the `ORACLE` folder using the following command:

Linux:

```
cd database/ORACLE
```

Windows:

```
cd database\ORACLE
```

The contents include a zip file named `CDXPatch`.

- Unzip the `CDXPatch.zip` file using the following command:

Linux:

```
unzip CDXPatch.zip -d <PATH>/<DESTINATION_FOLDER_5>
```

Windows:

```
unzip CDXPatch.zip -d <PATH>\<DESTINATION_FOLDER_5>
```

The contents of the zip file are extracted in the `<DESTINATION_FOLDER_5>` folder. The contents include utility files and a folder named `<PATCH_NUMBER>`.

- Execute the `ouafDatabasePatch` utility using the following command:

Windows:

```
ouafDatabasePatch.cmd
```

Linux:

```
ouafDatabasePatch.sh
```

Note: On the Linux platform, ensure that you grant the execute permission for the `ouafDatabasePatch.sh` utility using the following command:

```
chmod 755 ouafDatabasePatch.sh
```

This utility prompts you to enter values for the following parameters:

Parameter	Value
Enter the target database type (O/M/D) [O]	O (if you have Oracle database) OR M (if you have MySQL database)
Enter the username that owns the schema	<DB_USER> Example: CISADM
Enter the password for the <DB_USER> user	<DB_USER_PASSWORD>
Enter the name of the Oracle Database Connection String	<DB_SERVER:DB_PORT:DB_SID> OR <DB_SERVER:DB_PORT/SERVICE_NAME>

- Enter the required parameter value. The following message appears in the command line:

```
Ready to process patches, Do you want to continue? (Y/N)
```

9. Type **Y** and then press **Enter**. A message appears indicating that the patches are applied successfully.

2.7 Migrating Data

No data migration is required while upgrading from Oracle Revenue Management and Billing Version 8.0.0.0.0 to 8.1.0.0.0.

3. Additional Tasks

This section describes the following tasks that you need to perform after upgrading the application:

1. [Starting the Thread Pool Worker](#)
2. [Building Javadoc Index](#)
3. [Table Partitioning](#)

3.1 Starting the Thread Pool Worker

Once you upgrade the application, you need to start the thread pool worker. The thread pool worker is required when you execute batches either online or through batch scheduler.

You can use the **Distributed Thread Pool** property of the thread pool worker to set the number of threads that can run concurrently. By default, 5 threads run concurrently. You can change the default value by editing the following line in the `threadpoolworker.properties` file:

```
com.splwg.grid.distThreadPool.threads.DEFAULT=5
```

To start the thread pool worker, use the following command once you initialize the application environment:

Linux:

```
$SPLEBASE/bin/threadpoolworker.sh
```

Windows:

```
%SPLEBASE%\bin\threadpoolworker.cmd
```

Where, `$SPLEBASE` or `%SPLEBASE%` is the path where the application environment is installed.

3.2 Building Javadoc Index

Once you upgrade the application, you may want to regenerate the index file of Javadoc documentation. You must regenerate the Javadoc index file only when some modifications are made to the Java code.

To regenerate the Javadoc index file, use the following command:

Linux:

```
$SPLEBASE/bin/buildJavadocsIndex.sh
```

Windows:

```
%SPLEBASE%\bin\buildJavadocsIndex.cmd
```

Where, `$SPLEBASE` or `%SPLEBASE%` is the path where the application environment is installed.

3.3 Table Partitioning

Once the database is upgraded, we recommend you partition the tables which has considerable amount of data. This will help you to manage data and ensure consistent system performance with the increasing data. For more information about the table partitioning, see the **Table Partitioning Strategy** section in the *Oracle Revenue Management and Billing Database Administrator's Guide*.

Note: An out of box sample release-specific table partitioning scripts are provided by Oracle Revenue Management and Billing on [My Oracle Support](#). You can partition the tables using these sample scripts. For more information, see *Oracle Revenue Management and Billing ILM Implementation Guide*.

Appendix A : Known Issues

To view a list of known issues in the current release, see [Known Issues](#).

Appendix B : Third-Party Software Upgrade

To view a list of third-party software that you need to upgrade before upgrading the application, see the **Upgrade Prerequisites** section in the *Oracle Revenue Management and Billing Upgrade Path Guide*.

Appendix C : New Tables Added in ORMB Version 8.1.0.0.0

This section lists and describes the tables that are newly added in Oracle Revenue Management and Billing Version 8.1.0.0.0.

C.1 C1_ADJ_DTLS_INTG

Purpose:	Used to store information and measures related to the adjustment that are consolidated from the adjustment tables.
Total Number of Columns:	51

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
ACCT_ID	CHAR(10)	Yes	-
ADJ_AMT	NUMBER(22,15)	Yes	-
ADJ_CURRENCY_CD	CHAR(3)	Yes	-
ADJ_ID	CHAR(12)	Yes	-
ADJ_STATUS_FLG	CHAR(2)	Yes	-
ADJ_TYPE_CD	CHAR(8)	Yes	-
BASE_AMT	NUMBER(22,36)	Yes	-
BILL_ID	CHAR(12)	Yes	-
BILL_SEQ	NUMBER(22,36)	Yes	-
BSEG_ID	CHAR(12)	Yes	-
CALC_AMT	NUMBER(22,36)	Yes	-
CAN_RSN_CD	CHAR(4)	Yes	-
CAN_RSN_DESCR	VARCHAR2(60)	Yes	-
CHAR_TYPE_CD_1	CHAR(8)	Yes	-
CHAR_TYPE_CD_10	CHAR(8)	Yes	-
CHAR_TYPE_CD_2	CHAR(8)	Yes	-
CHAR_TYPE_CD_3	CHAR(8)	Yes	-
CHAR_TYPE_CD_4	CHAR(8)	Yes	-
CHAR_TYPE_CD_5	CHAR(8)	Yes	-

Column Name	Data Type	Nullable (Yes or No)	Default Value
CHAR_TYPE_CD_6	CHAR(8)	Yes	-
CHAR_TYPE_CD_7	CHAR(8)	Yes	-
CHAR_TYPE_CD_8	CHAR(8)	Yes	-
CHAR_TYPE_CD_9	CHAR(8)	Yes	-
CHAR_VAL_1	VARCHAR2(254)	Yes	-
CHAR_VAL_10	VARCHAR2(254)	Yes	-
CHAR_VAL_2	VARCHAR2(254)	Yes	-
CHAR_VAL_3	VARCHAR2(254)	Yes	-
CHAR_VAL_4	VARCHAR2(254)	Yes	-
CHAR_VAL_5	VARCHAR2(254)	Yes	-
CHAR_VAL_6	VARCHAR2(254)	Yes	-
CHAR_VAL_7	VARCHAR2(254)	Yes	-
CHAR_VAL_8	VARCHAR2(254)	Yes	-
CHAR_VAL_9	VARCHAR2(254)	Yes	-
CRE_DT	DATE	Yes	-
DESCR	VARCHAR2(60)	Yes	-
DESCR_ON_BILL	VARCHAR2(80)	Yes	-
DST_ID	CHAR(10)	Yes	-
EFFDT	DATE	Yes	-
EXCHRATE	NUMBER(22,36)	Yes	-
EXCHRATE_ID	CHAR(10)	Yes	-
EXEMPT_AMT	NUMBER(22,36)	Yes	-
ORIG_ADJ_AMT	NUMBER(22,15)	Yes	-
ORIG_ADJ_CCY_CD	CHAR(3)	Yes	-
RC_SEQ	NUMBER(22)	Yes	-
RS_CD	CHAR(8)	Yes	-
SA_ID	CHAR(10)	Yes	-
SEQ_NUM	NUMBER(22)	Yes	-
SETTLEMENT_ACCT_ID	CHAR(10)	Yes	-
SETTLEMENT_ID_NBR	VARCHAR2(20)	Yes	-
SQI_CD	CHAR(8)	Yes	-

Column Name	Data Type	Nullable (Yes or No)	Default Value
XFER_ADJ_ID	CHAR(12)	Yes	-

Primary Key:

None

Indexes:

None

C.2 C1_AIML_CONFIG

Purpose:	Used to store the AIML feature configuration details.
Total Number of Columns:	5

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
FEATURE_TYPE	VARCHAR2(50)	Yes	-
JOB_TYPE	VARCHAR2(4)	No	-
PARAM_NAME	VARCHAR2(1000)	No	-
PARAM_VALUE	VARCHAR2(1000)	Yes	-
USECASE_NAME	VARCHAR2(1000)	No	-

Primary Key:

Key Type	Column Name
Composite	JOB_TYPE
	PARAM_NAME
	USECASE_NAME

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM821P0	Unique	JOB_TYPE
			PARAM_NAME
			USECASE_NAME

C.3 C1_AIML_HYPERPARAMS

Purpose:	Used to store the AIML hyper parameter details.
Total Number of Columns:	6

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
ALGORITHM_NAME	VARCHAR2(50)	No	-
EXT_OPT_TYPE	VARCHAR2(4)	No	-
FEATURE_TYPE	VARCHAR2(50)	No	-
HYPERPARAMETER_NAME	VARCHAR2(100)	No	-
HYPERPARAMETER_VALUES	VARCHAR2(500)	No	-
MODEL_USECASE	VARCHAR2(50)	No	-

Primary Key:

Key Type	Column Name
Simple	EXT_OPT_TYPE

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM965P0	Unique	EXT_OPT_TYPE

C.4 C1_AIML_INSTALL_OPTIONS

Purpose:	Used to store the AIML installation option details.
Total Number of Columns:	5

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
CONFIG_NAME	VARCHAR2(50)	Yes	-
CONFIG_VALUE	VARCHAR2(500)	Yes	-
DESCRIPTION	VARCHAR2(4000)	Yes	-
FEATURE_TYPE	VARCHAR2(50)	Yes	-
INSTALL_ID	NUMBER(10)	No	-

Primary Key:

Key Type	Column Name
Simple	INSTALL_ID

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM943P0	Unique	INSTALL_ID

C.5 C1_AIML_JOB_PARAMS

Purpose:	Used to store the AIML job parameter details.
Total Number of Columns:	5

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
AIML_JOB_ID	NUMBER(15)	No	-
FEATURE_TYPE	VARCHAR2(50)	Yes	-
PARAM_NAME	VARCHAR2(1000)	No	-
PARAM_TYPE	VARCHAR2(100)	Yes	-
PARAM_VALUE	VARCHAR2(4000)	Yes	-

Primary Key:

Key Type	Column Name
Composite	AIML_JOB_ID
	PARAM_NAME

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM945P0	Unique	AIML_JOB_ID
			PARAM_NAME

C.6 C1_AIML_JOBS

Purpose:	Used to store the AIML job details.
Total Number of Columns:	18

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
AIML_ENTITY_TYPE	CHAR(4)	No	-
AIML_JOB_ID	NUMBER(15)	No	-
AIML_JOB_STATUS	CHAR(4)	No	-
AIML_JOB_TYPE	CHAR(4)	No	-
BATCH_CODE	CHAR(8)	No	-
BATCH_NBR	NUMBER(10)	No	-
BATCH_RERUN_NBR	NUMBER(10)	No	-
CRE_DTTM	DATE	No	-
END_DTTM	DATE	Yes	-
FEATURE_TYPE	VARCHAR2(50)	Yes	-
P_BATCH_CODE	CHAR(8)	Yes	-
P_BATCH_JOB_STAT_FLG	CHAR(2)	Yes	-
P_BATCH_NBR	NUMBER(10)	Yes	-
P_BATCH_PROCESS_DT	DATE	Yes	-
P_BATCH_RERUN_NBR	NUMBER(10)	Yes	-
START_DTTM	DATE	Yes	-
USER_ID	CHAR(8)	No	-
VERSION	NUMBER(5)	No	1

Primary Key:

Key Type	Column Name
Simple	AIML_JOB_ID

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM944P0	Unique	AIML_JOB_ID

C.7 C1_AIML_LOG

Purpose:	Used to store the log details of an AIML job.
Total Number of Columns:	8

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
AIML_JOB_ID	NUMBER(15)	Yes	-
CRE_DTTM	DATE	Yes	-
FEATURE_TYPE	VARCHAR2(50)	Yes	-
LOG_ID	NUMBER(15)	No	-
LOG_MESSAGE	VARCHAR2(4000)	Yes	-
LOG_MODE	VARCHAR2(10)	Yes	-
METHOD_NAME	VARCHAR2(100)	Yes	-
USER_ID	VARCHAR2(50)	Yes	-

Primary Key:

Key Type	Column Name
Simple	LOG_ID

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM946P0	Unique	LOG_ID

C.8 C1_BR_ASO_BSEG_DETAILS

Purpose:	Used to store the bill readiness ASO bill segment level historical data preparation details.
Total Number of Columns:	44

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
BILL_ID	CHAR(12)	No	-
BSEG_AMT	NUMBER(22)	Yes	-
BSEG_ID	CHAR(12)	No	-

Column Name	Data Type	Nullable (Yes or No)	Default Value
ILM_DT	DATE	Yes	-
INVOICE_ACCT	CHAR(10)	No	-
LNIT_VAL1	NUMBER(22)	Yes	-
LNIT_VAL10	NUMBER(22)	Yes	-
LNIT_VAL11	NUMBER(22)	Yes	-
LNIT_VAL12	NUMBER(22)	Yes	-
LNIT_VAL13	NUMBER(22)	Yes	-
LNIT_VAL14	NUMBER(22)	Yes	-
LNIT_VAL15	NUMBER(22)	Yes	-
LNIT_VAL2	NUMBER(22)	Yes	-
LNIT_VAL3	NUMBER(22)	Yes	-
LNIT_VAL4	NUMBER(22)	Yes	-
LNIT_VAL5	NUMBER(22)	Yes	-
LNIT_VAL6	NUMBER(22)	Yes	-
LNIT_VAL7	NUMBER(22)	Yes	-
LNIT_VAL8	NUMBER(22)	Yes	-
LNIT_VAL9	NUMBER(22)	Yes	-
PRIC_PARAM1	VARCHAR2(60)	Yes	-
PRIC_PARAM10	VARCHAR2(60)	Yes	-
PRIC_PARAM11	VARCHAR2(60)	Yes	-
PRIC_PARAM12	VARCHAR2(60)	Yes	-
PRIC_PARAM13	VARCHAR2(60)	Yes	-
PRIC_PARAM14	VARCHAR2(60)	Yes	-
PRIC_PARAM15	VARCHAR2(60)	Yes	-
PRIC_PARAM16	VARCHAR2(60)	Yes	-
PRIC_PARAM17	VARCHAR2(60)	Yes	-
PRIC_PARAM18	VARCHAR2(60)	Yes	-
PRIC_PARAM19	VARCHAR2(60)	Yes	-
PRIC_PARAM2	VARCHAR2(60)	Yes	-
PRIC_PARAM20	VARCHAR2(60)	Yes	-
PRIC_PARAM3	VARCHAR2(60)	Yes	-

Column Name	Data Type	Nullable (Yes or No)	Default Value
PRIC_PARAM4	VARCHAR2(60)	Yes	-
PRIC_PARAM5	VARCHAR2(60)	Yes	-
PRIC_PARAM6	VARCHAR2(60)	Yes	-
PRIC_PARAM7	VARCHAR2(60)	Yes	-
PRIC_PARAM8	VARCHAR2(60)	Yes	-
PRIC_PARAM9	VARCHAR2(60)	Yes	-
PRICE_ASGN_ID	VARCHAR2(40)	Yes	-
PRICEITEM_CD	CHAR(30)	Yes	-
USAGE_ACCT_ID	CHAR(10)	No	-
WIN_START_DT	DATE	Yes	-

Primary Key:

Key Type	Column Name
Composite	BILL_ID
	BSEG_ID
	INVOICE_ACCT
	USAGE_ACCT_ID

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM834P0	Unique	BILL_ID
			BSEG_ID
			INVOICE_ACCT
			USAGE_ACCT_ID

C.9 C1_BR_ASO_BSEG_DETAILS_DYN

Purpose:	Used to store the bill readiness ASO bill segment level prediction details.
Total Number of Columns:	44

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
BILL_ID	CHAR(12)	No	-
BSEG_AMT	NUMBER(22)	Yes	-
BSEG_ID	CHAR(12)	No	-
INVOICE_ACCT	CHAR(10)	No	-
LNIT_VAL1	NUMBER(22)	Yes	-
LNIT_VAL10	NUMBER(22)	Yes	-
LNIT_VAL11	NUMBER(22)	Yes	-
LNIT_VAL12	NUMBER(22)	Yes	-
LNIT_VAL13	NUMBER(22)	Yes	-
LNIT_VAL14	NUMBER(22)	Yes	-
LNIT_VAL15	NUMBER(22)	Yes	-
LNIT_VAL2	NUMBER(22)	Yes	-
LNIT_VAL3	NUMBER(22)	Yes	-
LNIT_VAL4	NUMBER(22)	Yes	-
LNIT_VAL5	NUMBER(22)	Yes	-
LNIT_VAL6	NUMBER(22)	Yes	-
LNIT_VAL7	NUMBER(22)	Yes	-
LNIT_VAL8	NUMBER(22)	Yes	-
LNIT_VAL9	NUMBER(22)	Yes	-
PRIC_PARAM1	VARCHAR2(60)	Yes	-
PRIC_PARAM10	VARCHAR2(60)	Yes	-
PRIC_PARAM11	VARCHAR2(60)	Yes	-
PRIC_PARAM12	VARCHAR2(60)	Yes	-
PRIC_PARAM13	VARCHAR2(60)	Yes	-

Column Name	Data Type	Nullable (Yes or No)	Default Value
PRIC_PARAM14	VARCHAR2(60)	Yes	-
PRIC_PARAM15	VARCHAR2(60)	Yes	-
PRIC_PARAM16	VARCHAR2(60)	Yes	-
PRIC_PARAM17	VARCHAR2(60)	Yes	-
PRIC_PARAM18	VARCHAR2(60)	Yes	-
PRIC_PARAM19	VARCHAR2(60)	Yes	-
PRIC_PARAM2	VARCHAR2(60)	Yes	-
PRIC_PARAM20	VARCHAR2(60)	Yes	-
PRIC_PARAM3	VARCHAR2(60)	Yes	-
PRIC_PARAM4	VARCHAR2(60)	Yes	-
PRIC_PARAM5	VARCHAR2(60)	Yes	-
PRIC_PARAM6	VARCHAR2(60)	Yes	-
PRIC_PARAM7	VARCHAR2(60)	Yes	-
PRIC_PARAM8	VARCHAR2(60)	Yes	-
PRIC_PARAM9	VARCHAR2(60)	Yes	-
PRICE_ASGN_ID	VARCHAR2(40)	Yes	-
PRICEITEM_CD	CHAR(30)	Yes	-
PRICING_TYPE	VARCHAR2(3)	Yes	-
USAGE_ACCT_ID	CHAR(10)	No	-
WIN_START_DT	DATE	Yes	-

Primary Key:

Key Type	Column Name
Composite	BILL_ID
	BSEG_ID
	INVOICE_ACCT
	USAGE_ACCT_ID

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM836P0	Unique	BILL_ID
			BSEG_ID

Sr. No.	Index Name	Index Type	Column Name
			INVOICE_ACCT
			USAGE_ACCT_ID

C.10 C1_BR_ASO_BSEG_SEALINC_MODEL

Purpose:	Used to store the bill readiness ASO bill segment level sealinc model details.
Total Number of Columns:	30

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
B0	NUMBER(22)	Yes	-
B1	NUMBER(22)	Yes	-
DAY0	DATE	Yes	-
INVOICE_ACCT	CHAR(10)	No	-
MARGIN	NUMBER(22)	Yes	-
MONTH	NUMBER(22)	No	-
NUM_COL_TYPE	VARCHAR2(9)	No	-
PRIC_PARAM1	VARCHAR2(60)	Yes	-
PRIC_PARAM10	VARCHAR2(60)	Yes	-
PRIC_PARAM11	VARCHAR2(60)	Yes	-
PRIC_PARAM12	VARCHAR2(60)	Yes	-
PRIC_PARAM13	VARCHAR2(60)	Yes	-
PRIC_PARAM14	VARCHAR2(60)	Yes	-
PRIC_PARAM15	VARCHAR2(60)	Yes	-
PRIC_PARAM16	VARCHAR2(60)	Yes	-
PRIC_PARAM17	VARCHAR2(60)	Yes	-
PRIC_PARAM18	VARCHAR2(60)	Yes	-
PRIC_PARAM19	VARCHAR2(60)	Yes	-
PRIC_PARAM2	VARCHAR2(60)	Yes	-
PRIC_PARAM20	VARCHAR2(60)	Yes	-
PRIC_PARAM3	VARCHAR2(60)	Yes	-
PRIC_PARAM4	VARCHAR2(60)	Yes	-

Column Name	Data Type	Nullable (Yes or No)	Default Value
PRIC_PARAM5	VARCHAR2(60)	Yes	-
PRIC_PARAM6	VARCHAR2(60)	Yes	-
PRIC_PARAM7	VARCHAR2(60)	Yes	-
PRIC_PARAM8	VARCHAR2(60)	Yes	-
PRIC_PARAM9	VARCHAR2(60)	Yes	-
PRICEITEM_CD	VARCHAR2(30)	No	-
SEASONAL	NUMBER(22)	Yes	-
USAGE_ACCT_ID	VARCHAR2(30)	No	-

Primary Key:

Key Type	Column Name
Composite	INVOICE_ACCT
	MONTH
	NUM_COL_TYPE
	PRICEITEM_CD
	USAGE_ACCT_ID

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM838P0	Unique	INVOICE_ACCT
			MONTH
			NUM_COL_TYPE
			PRICEITEM_CD
			USAGE_ACCT_ID

C.11 C1_BR_BILL_CATEGORICAL_PRED

Purpose:	Used to store the bill readiness and bill level categorical prediction details.
Total Number of Columns:	11

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
BILL_CYC_CD	CHAR(4)	No	-

Column Name	Data Type	Nullable (Yes or No)	Default Value
BILL_CYC_CD_CHANGE_STATUS	VARCHAR2(1)	Yes	-
BILL_ID	CHAR(12)	No	-
CATEGORICAL_ANOMALY_REASON	VARCHAR2(64)	Yes	-
CATEGORICAL_ANOMALY_STATUS	NUMBER(22)	Yes	-
CURRENCY_CD	CHAR(3)	No	-
CURRENCY_CD_CHANGE_STATUS	VARCHAR2(1)	Yes	-
INVOICE_ACCT	CHAR(10)	No	-
PRE_BILL_CYC_CD	VARCHAR2(4)	Yes	-
PRE_CURRENCY_CD	VARCHAR2(3)	Yes	-
WIN_START_DT	DATE	Yes	-

Primary Key:

Key Type	Column Name
Composite	BILL_ID
	INVOICE_ACCT

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM833P0	Unique	BILL_ID
			INVOICE_ACCT

C.12 C1_BR_BILL_DETAILS

Purpose:	Used to store the bill readiness and bill level historical data preparation details.
Total Number of Columns:	8

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
BILL_AMT	NUMBER(22)	Yes	-
BILL_CYC_CD	CHAR(4)	No	-
BILL_ID	CHAR(12)	No	-
CURRENCY_CD	CHAR(3)	No	-
ILM_DT	DATE	Yes	-

Column Name	Data Type	Nullable (Yes or No)	Default Value
INVOICE_ACCT	CHAR(10)	No	-
PRICEITEM_VECTOR	VARCHAR2(32767)	Yes	-
WIN_START_DT	DATE	Yes	-

Primary Key:

Key Type	Column Name
Composite	BILL_ID
	INVOICE_ACCT

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM827P0	Unique	BILL_ID
			INVOICE_ACCT

C.13 C1_BR_BILL_DETAILS_DYN

Purpose:	Used to store the bill readiness and bill level prediction details.
Total Number of Columns:	8

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
BILL_AMT	NUMBER(22)	Yes	-
BILL_CYC_CD	CHAR(4)	No	-
BILL_ID	CHAR(12)	No	-
CURRENCY_CD	CHAR(3)	No	-
ILM_DT	DATE	Yes	-
INVOICE_ACCT	CHAR(10)	No	-
PRICEITEM_VECTOR	VARCHAR2(32767)	Yes	-
WIN_START_DT	DATE	Yes	-

Primary Key:

Key Type	Column Name
Composite	BILL_ID
	INVOICE_ACCT

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM828P0	Unique	BILL_ID
			INVOICE_ACCT

C.14 C1_BR_BILL_PIVEC_HIST

Purpose:	Used to store the bill readiness and bill level PIVEC historical data details.
Total Number of Columns:	10

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
BILL_AMT	NUMBER(22)	Yes	-
BILL_CYC_CD	CHAR(4)	Yes	-
BILL_ID	CHAR(12)	No	-
CURRENCY_CD	CHAR(3)	Yes	-
CUST_ID	CHAR(10)	Yes	-
DIVISION	CHAR(5)	Yes	-
ILM_DT	DATE	Yes	-
INVOICE_ACCT	CHAR(10)	No	-
PRICEITEM_VECTOR	VARCHAR2(32767)	Yes	-
WIN_START_DT	DATE	Yes	-

Primary Key:

Key Type	Column Name
Composite	BILL_ID
	INVOICE_ACCT

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM829P0	Unique	BILL_ID
			INVOICE_ACCT

C.15 C1_BR_BILL_PIVEC_PRED

Purpose:	Used to store the bill readiness and bill level PIVEC prediction data details.
Total Number of Columns:	4

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
ADDED_POSITIONS	VARCHAR2(4000)	Yes	-
BILL_ID	CHAR(12)	No	-
IS_ANOMALY	VARCHAR2(4000)	Yes	-
REMOVED_POSITIONS	VARCHAR2(4000)	Yes	-

Primary Key:

Key Type	Column Name
Simple	BILL_ID

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM830P0	Unique	BILL_ID

C.16 C1_BR_BILL_SEALINC_MODEL

Purpose:	Used to store the bill readiness and bill level sealinc model details.
Total Number of Columns:	8

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
B0	NUMBER(22)	Yes	-
B1	NUMBER(22)	Yes	-
DAY0	DATE	Yes	-
INVOICE_ACCT	CHAR(10)	No	-
MARGIN	NUMBER(22)	Yes	-
MONTH	NUMBER(22)	No	-
NUM_COL_TYPE	CHAR(8)	No	-

Column Name	Data Type	Nullable (Yes or No)	Default Value
SEASONAL	NUMBER(22)	Yes	-

Primary Key:

Key Type	Column Name
Composite	INVOICE_ACCT
	MONTH
	NUM_COL_TYPE

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM831P0	Unique	INVOICE_ACCT
			MONTH
			NUM_COL_TYPE

C.17 C1_BR_BILL_SEALINC_PRED

Purpose:	Used to store the bill readiness and bill level sealinc prediction details.
Total Number of Columns:	3

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
ANOMALY	NUMBER(22)	Yes	-
BILL_ID	CHAR(12)	No	-
REASONS	VARCHAR2(100)	Yes	-

Primary Key:

Key Type	Column Name
Simple	BILL_ID

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM832P0	Unique	BILL_ID

C.18 C1_BR_BK_BSEG_DETAILS

Purpose:	Used to store the bill readiness and banking bill segment level historical data preparation details.
Total Number of Columns:	34

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
BILL_ID	CHAR(12)	No	-
BSEG_AMT	NUMBER(22)	Yes	-
BSEG_ID	CHAR(12)	No	-
ILM_DT	DATE	Yes	-
INVOICE_ACCT	CHAR(10)	No	-
PRICE_ASGN_ID	VARCHAR2(40)	Yes	-
PRICEITEM_CD	CHAR(30)	Yes	-
SQI_VAL1	NUMBER(22)	Yes	-
SQI_VAL10	NUMBER(22)	Yes	-
SQI_VAL11	NUMBER(22)	Yes	-
SQI_VAL12	NUMBER(22)	Yes	-
SQI_VAL13	NUMBER(22)	Yes	-
SQI_VAL14	NUMBER(22)	Yes	-
SQI_VAL15	NUMBER(22)	Yes	-
SQI_VAL16	NUMBER(22)	Yes	-
SQI_VAL17	NUMBER(22)	Yes	-
SQI_VAL18	NUMBER(22)	Yes	-
SQI_VAL19	NUMBER(22)	Yes	-
SQI_VAL2	NUMBER(22)	Yes	-
SQI_VAL20	NUMBER(22)	Yes	-
SQI_VAL21	NUMBER(22)	Yes	-
SQI_VAL22	NUMBER(22)	Yes	-
SQI_VAL23	NUMBER(22)	Yes	-
SQI_VAL24	NUMBER(22)	Yes	-

Column Name	Data Type	Nullable (Yes or No)	Default Value
SQI_VAL25	NUMBER(22)	Yes	-
SQI_VAL3	NUMBER(22)	Yes	-
SQI_VAL4	NUMBER(22)	Yes	-
SQI_VAL5	NUMBER(22)	Yes	-
SQI_VAL6	NUMBER(22)	Yes	-
SQI_VAL7	NUMBER(22)	Yes	-
SQI_VAL8	NUMBER(22)	Yes	-
SQI_VAL9	NUMBER(22)	Yes	-
USAGE_ACCT_ID	CHAR(10)	No	-
WIN_START_DT	DATE	Yes	-

Primary Key:

Key Type	Column Name
Composite	BILL_ID
	BSEG_ID
	INVOICE_ACCT
	USAGE_ACCT_ID

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM835P0	Unique	BILL_ID
			BSEG_ID
			INVOICE_ACCT
			USAGE_ACCT_ID

C.19 C1_BR_BK_BSEG_DETAILS_DYN

Purpose:	Used to store the bill readiness and banking bill segment level prediction details.
Total Number of Columns:	34

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
BILL_ID	CHAR(12)	N	-

Column Name	Data Type	Nullable (Yes or No)	Default Value
BSEG_AMT	NUMBER(22)	Y	-
BSEG_ID	CHAR(12)	N	-
INVOICE_ACCT	CHAR(10)	N	-
PRICE_ASGN_ID	VARCHAR2(40)	Y	-
PRICEITEM_CD	CHAR(30)	Y	-
PRICING_TYPE	VARCHAR2(3)	Y	-
SQI_VAL1	NUMBER(22)	Y	-
SQI_VAL10	NUMBER(22)	Y	-
SQI_VAL11	NUMBER(22)	Y	-
SQI_VAL12	NUMBER(22)	Y	-
SQI_VAL13	NUMBER(22)	Y	-
SQI_VAL14	NUMBER(22)	Y	-
SQI_VAL15	NUMBER(22)	Y	-
SQI_VAL16	NUMBER(22)	Y	-
SQI_VAL17	NUMBER(22)	Y	-
SQI_VAL18	NUMBER(22)	Y	-
SQI_VAL19	NUMBER(22)	Y	-
SQI_VAL2	NUMBER(22)	Y	-
SQI_VAL20	NUMBER(22)	Y	-
SQI_VAL21	NUMBER(22)	Y	-
SQI_VAL22	NUMBER(22)	Y	-
SQI_VAL23	NUMBER(22)	Y	-
SQI_VAL24	NUMBER(22)	Y	-
SQI_VAL25	NUMBER(22)	Y	-
SQI_VAL3	NUMBER(22)	Y	-
SQI_VAL4	NUMBER(22)	Y	-
SQI_VAL5	NUMBER(22)	Y	-
SQI_VAL6	NUMBER(22)	Y	-
SQI_VAL7	NUMBER(22)	Y	-
SQI_VAL8	NUMBER(22)	Y	-
SQI_VAL9	NUMBER(22)	Y	-

Column Name	Data Type	Nullable (Yes or No)	Default Value
USAGE_ACCT_ID	CHAR(10)	N	-
WIN_START_DT	DATE	Y	-

Primary Key:

Key Type	Column Name
Composite	BILL_ID
	BSEG_ID
	INVOICE_ACCT
	USAGE_ACCT_ID

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM837P0	Unique	BILL_ID
			BSEG_ID
			INVOICE_ACCT
			USAGE_ACCT_ID

C.20 C1_BR_BK_BSEG_SEALINC_MODEL

Purpose:	Used to store the bill readiness and banking bill segment level sealinc model details.
Total Number of Columns:	10

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
B0	NUMBER(22)	Yes	-
B1	NUMBER(22)	Yes	-
DAY0	DATE	Yes	-
INVOICE_ACCT	CHAR(10)	No	-
MARGIN	NUMBER(22)	Yes	-
MONTH	NUMBER(22)	No	-
NUM_COL_TYPE	VARCHAR2(9)	No	-
PRICEITEM_CD	VARCHAR2(30)	No	-
SEASONAL	NUMBER(22)	Yes	-

Column Name	Data Type	Nullable (Yes or No)	Default Value
USAGE_ACCT_ID	VARCHAR2(30)	No	-

Primary Key:

Key Type	Column Name
Composite	INVOICE_ACCT
	MONTH
	NUM_COL_TYPE
	PRICEITEM_CD
	USAGE_ACCT_ID

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM839P0	Unique	INVOICE_ACCT
			MONTH
			NUM_COL_TYPE
			PRICEITEM_CD
			USAGE_ACCT_ID

C.21 C1_BR_BSEG_CATEGORICAL_PRED

Purpose:	Used to store the bill readiness and bill segment level categorical prediction details.
Total Number of Columns:	11

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
BILL_ID	CHAR(12)	No	-
BSEG_ID	CHAR(12)	No	-
CATEGORICAL_ANOMALY_REASON	VARCHAR2(59)	Yes	-
CATEGORICAL_ANOMALY_STATUS	NUMBER(22)	Yes	-
INVOICE_ACCT	CHAR(10)	No	-
PRE_PRICE_ASGN_ID	VARCHAR2(10)	Yes	-
PRICE_ASGN_CHANGE_STATUS	VARCHAR2(1)	Yes	-
PRICE_ASGN_ID	VARCHAR2(40)	Yes	-

Column Name	Data Type	Nullable (Yes or No)	Default Value
PRICEITEM_CD	CHAR(30)	Yes	-
USAGE_ACCT_ID	CHAR(10)	No	-
WIN_START_DT	DATE	Yes	-

Primary Key:

Key Type	Column Name
Composite	BILL_ID
	BSEG_ID
	INVOICE_ACCT
	USAGE_ACCT_ID

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM841P0	Unique	BILL_ID
			BSEG_ID
			INVOICE_ACCT
			USAGE_ACCT_ID

C.22 C1_BR_BSEG_SEALINC_PRED

Purpose:	Used to store the bill readiness and bill segment level sealinc prediction details.
Total Number of Columns:	3

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
ANOMALY	NUMBER(22)	Yes	-
BSEG_ID	CHAR(12)	No	-
REASONS	VARCHAR2(32767)	Yes	-

Primary Key:

Key Type	Column Name
Simple	BSEG_ID

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM840P0	Unique	BSEG_ID

C.23 C1_BR_CUST_ACCT

Purpose:	Used to store the Bill Readiness Customer Account details.
Total Number of Columns:	4

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
ACCT_ID	CHAR(10)	No	-
BILL_CYC_CD	CHAR(4)	Yes	-
DIVISION	CHAR(5)	Yes	-
PER_ID	CHAR(10)	No	-

Primary Key:

Key Type	Column Name
Composite	ACCT_ID
	PER_ID

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM824P0	Unique	ACCT_ID
			PER_ID

C.24 C1_BR_INV_VECTOR

Purpose:	Used to store the bill readiness vector details.
Total Number of Columns:	2

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
BILL_ID	CHAR(12)	No	-
VECTOR	VARCHAR2(32767)	Yes	-

Primary Key:

Key Type	Column Name
Simple	BILL_ID

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM825P0	Unique	BILL_ID

C.25 C1_BR_LNIT_MAPPING

Purpose:	Used to store the bill readiness line item mapping details.
Total Number of Columns:	2

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
LN_ITEM	CHAR(10)	No	-
USER_FIELD	VARCHAR2(3000)	No	-

Primary Key:

Key Type	Column Name
Composite	LN_ITEM
	USER_FIELD

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM822P0	Unique	LN_ITEM
			USER_FIELD

C.26 C1_BR_PRIC_PARM_MAP

Purpose:	Used to store the mapping details of bill readiness and pricing parameters with the UDF field.
Total Number of Columns:	5

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
LN_ITEM	CHAR(10)	Yes	-

Column Name	Data Type	Nullable (Yes or No)	Default Value
PRICE_PARM_CD	VARCHAR2(30)	No	-
PRICING_RULE_TYPE_CD	CHAR(30)	Yes	-
TRANSACTION_FIELD	CHAR(30)	Yes	-
USER_FIELD	VARCHAR2(3000)	No	-

Primary Key:

Key Type	Column Name
Composite	PRICE_PARM_CD
	USER_FIELD

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM823P0	Unique	PRICE_PARM_CD
			USER_FIELD

C.27 C1_BR_PRICEITEM_POS

Purpose:	Used to store the bill readiness and price item position details.
Total Number of Columns:	2

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
PRICEITEM_CD	CHAR(30)	No	-
SR_NO	NUMBER(22)	Yes	-

Primary Key:

Key Type	Column Name
Simple	PRICEITEM_CD

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM826P0	Unique	PRICEITEM_CD

C.28 C1_BR_SQL_MAPPING

Purpose:	Used to the bill readiness SQL code mapping details.
Total Number of Columns:	2

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
SQL_CD	CHAR(8)	No	-
USER_FIELD	VARCHAR2(3000)	No	-

Primary Key:

Key Type	Column Name
Composite	SQL_CD
	USER_FIELD

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM842P0	Unique	SQL_CD
			USER_FIELD

C.29 C1_BSEG_DTLS_INTG

Purpose:	Used to store information related to bill segment, bill segment calculation, and bill segment calculation lines. It also stores mapping information between the foreign key and bill ID.
Total Number of Columns:	43

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
BILL_CYC_CD	CHAR(4)	Yes	-
BILL_ID	CHAR(12)	Yes	-
BILL_SQ	NUMBER(22,36)	Yes	-
BILLABLE_CHG_ID	CHAR(12)	Yes	-
BSEG_CALC_DESCR	VARCHAR2(80)	Yes	-
BSEG_CALC_LN_DESCR	VARCHAR2(80)	Yes	-

Column Name	Data Type	Nullable (Yes or No)	Default Value
BSEG_CRE_DTTM	DATE	Yes	-
BSEG_END_DT	DATE	Yes	-
BSEG_ID	CHAR(12)	No	-
BSEG_START_DT	DATE	Yes	-
BSEG_STAT_FLG	CHAR(2)	Yes	-
BSEG_TYPE_FLG	CHAR(4)	Yes	-
CALC_AMT	NUMBER(22,15)	Yes	-
CALC_LN_AMT	NUMBER(22,36)	Yes	-
CAN_BSEG_ID	CHAR(12)	Yes	-
CAN_RSN_CD	CHAR(4)	Yes	-
CAN_RSN_DESCR	VARCHAR2(60)	Yes	-
CURRENCY_CD	CHAR(3)	Yes	-
DATA_LOAD_DTTM	DATE	Yes	-
DATA_UPD_DTTM	DATE	Yes	-
DST_ID	CHAR(10)	Yes	-
EFFDT	DATE	Yes	-
EXCHRATE	NUMBER(22,36)	Yes	-
EXCHRATE_ID	CHAR(10)	Yes	-
HEADER_SEQ	NUMBER(22,3)	No	-
ILM_ARCH_SW	VARCHAR2(2)	Yes	-
ILM_DTTM	DATE	Yes	-
MASTER_BSEG_ID	CHAR(12)	Yes	-
PRICE_ASGN_ID	CHAR(10)	Yes	-
PRICECOMP_ID	CHAR(10)	Yes	-
PRICEITEM_CD	CHAR(30)	Yes	-
PRICEITEM_PARM_GRP_ID	NUMBER(22,22)	Yes	-
RC_SEQ	NUMBER(22,3)	Yes	-
REBILL_SEG_ID	CHAR(12)	Yes	-
SA_ID	CHAR(10)	Yes	-
SEQNO	NUMBER(22,5)	No	-
SETTLEMENT_ACCT_ID	CHAR(10)	Yes	-

Column Name	Data Type	Nullable (Yes or No)	Default Value
SETTLEMENT_ID_NBR	VARCHAR2(20)	Yes	-
SQI_CD	CHAR(8)	Yes	-
STAT_CHG_DTTM	DATE	Yes	-
USAGE_ACCT_ID	CHAR(10)	Yes	-
VALUE_AMT	NUMBER(22,36)	Yes	-
WIN_START_DT	DATE	Yes	-

Primary Key:

Key Type	Column Name
Composite	BSEG_ID
	HEADER_SEQ
	SEQNO

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM967P0	Unique	BSEG_ID
			HEADER_SEQ
			SEQNO

C.30 C1_CAG_REF_DATA

Purpose:	Used to store the details required to setup a customer.
Total Number of Columns:	86

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
BG_L1_IDENTIFIER	CHAR(60)	No	-
BG_L1_IDENTIFIER_DESCR	VARCHAR2(254)	Yes	-
BG_L1_UDF_CHAR1	VARCHAR2(254)	Yes	-
BG_L1_UDF_CHAR2	VARCHAR2(254)	Yes	-
BG_L1_UDF_CHAR3	VARCHAR2(254)	Yes	-
BG_L1_UDF_CHAR4	VARCHAR2(254)	Yes	-
BG_L1_UDF_CHAR5	VARCHAR2(254)	Yes	-
BG_L1_UDF_CHAR6	VARCHAR2(254)	Yes	-

Column Name	Data Type	Nullable (Yes or No)	Default Value
BG_L1_UDF_CHAR7	VARCHAR2(254)	Yes	-
BG_L1_UDF_CHAR8	VARCHAR2(254)	Yes	-
BG_L1_UDF_CHAR9	VARCHAR2(254)	Yes	-
BG_L1_UDF_DTTM1	DATE	Yes	-
BG_L1_UDF_DTTM2	DATE	Yes	-
BG_L1_UDF_NBR1	NUMBER(36,18)	Yes	-
BG_L1_UDF_NBR2	NUMBER(36,18)	Yes	-
BG_L1_UDF_NBR3	NUMBER(36,18)	Yes	-
BG_L2_IDENTIFIER	CHAR(60)	No	-
BG_L2_IDENTIFIER_DESCR	VARCHAR2(254)	Yes	-
BG_L2_UDF_CHAR1	VARCHAR2(254)	Yes	-
BG_L2_UDF_CHAR2	VARCHAR2(254)	Yes	-
BG_L2_UDF_CHAR3	VARCHAR2(254)	Yes	-
BG_L2_UDF_CHAR4	VARCHAR2(254)	Yes	-
BG_L2_UDF_CHAR5	VARCHAR2(254)	Yes	-
BG_L2_UDF_CHAR6	VARCHAR2(254)	Yes	-
BG_L2_UDF_CHAR7	VARCHAR2(254)	Yes	-
BG_L2_UDF_CHAR8	VARCHAR2(254)	Yes	-
BG_L2_UDF_CHAR9	VARCHAR2(254)	Yes	-
BG_L2_UDF_DTTM1	DATE	Yes	-
BG_L2_UDF_DTTM2	DATE	Yes	-
BG_L2_UDF_NBR1	NUMBER(36,18)	Yes	-
BG_L2_UDF_NBR2	NUMBER(36,18)	Yes	-
BG_L2_UDF_NBR3	NUMBER(36,18)	Yes	-
BG_L3_IDENTIFIER	CHAR(60)	No	-
BG_L3_IDENTIFIER_DESCR	VARCHAR2(254)	Yes	-
BG_L3_UDF_CHAR1	VARCHAR2(254)	Yes	-
BG_L3_UDF_CHAR2	VARCHAR2(254)	Yes	-
BG_L3_UDF_CHAR3	VARCHAR2(254)	Yes	-
BG_L3_UDF_CHAR4	VARCHAR2(254)	Yes	-
BG_L3_UDF_CHAR5	VARCHAR2(254)	Yes	-

Column Name	Data Type	Nullable (Yes or No)	Default Value
BG_L3_UDF_CHAR6	VARCHAR2(254)	Yes	-
BG_L3_UDF_CHAR7	VARCHAR2(254)	Yes	-
BG_L3_UDF_CHAR8	VARCHAR2(254)	Yes	-
BG_L3_UDF_CHAR9	VARCHAR2(254)	Yes	-
BG_L3_UDF_DTTM1	DATE	Yes	-
BG_L3_UDF_DTTM2	DATE	Yes	-
BG_L3_UDF_NBR1	NUMBER(36,18)	Yes	-
BG_L3_UDF_NBR2	NUMBER(36,18)	Yes	-
BG_L3_UDF_NBR3	NUMBER(36,18)	Yes	-
BUS_OBJ_CD	VARCHAR2(30)	No	' '
CRE_DTTM	DATE	Yes	-
CRE_USERID	VARCHAR2(9)	Yes	-
END_DT	DATE	Yes	-
ILM_DT	DATE	Yes	-
ILM_SW	CHAR(1)	Yes	-
START_DT	DATE	No	-
UDF_CHAR_1	VARCHAR2(254)	Yes	-
UDF_CHAR_10	VARCHAR2(254)	Yes	-
UDF_CHAR_11	VARCHAR2(254)	Yes	-
UDF_CHAR_12	VARCHAR2(254)	Yes	-
UDF_CHAR_13	VARCHAR2(254)	Yes	-
UDF_CHAR_14	VARCHAR2(254)	Yes	-
UDF_CHAR_15	VARCHAR2(254)	Yes	-
UDF_CHAR_2	VARCHAR2(254)	Yes	-
UDF_CHAR_3	VARCHAR2(254)	Yes	-
UDF_CHAR_4	VARCHAR2(254)	Yes	-
UDF_CHAR_5	VARCHAR2(254)	Yes	-
UDF_CHAR_6	VARCHAR2(254)	Yes	-
UDF_CHAR_7	VARCHAR2(254)	Yes	-
UDF_CHAR_8	VARCHAR2(254)	Yes	-
UDF_CHAR_9	VARCHAR2(254)	Yes	-

Column Name	Data Type	Nullable (Yes or No)	Default Value
UDF_DTTM_1	DATE	Yes	-
UDF_DTTM_2	DATE	Yes	-
UDF_DTTM_3	DATE	Yes	-
UDF_DTTM_4	DATE	Yes	-
UDF_DTTM_5	DATE	Yes	-
UDF_NBR_1	NUMBER(36,18)	Yes	-
UDF_NBR_2	NUMBER(36,18)	Yes	-
UDF_NBR_3	NUMBER(36,18)	Yes	-
UDF_NBR_4	NUMBER(36,18)	Yes	-
UDF_NBR_5	NUMBER(36,18)	Yes	-
UDF_NBR_6	NUMBER(36,18)	Yes	-
UDF_NBR_7	NUMBER(36,18)	Yes	-
UDF_NBR_8	NUMBER(36,18)	Yes	-
UPD_DTTM	DATE	Yes	-
UPD_USERID	VARCHAR2(9)	Yes	-
VERSION	NUMBER(5,0)	Yes	1

Primary Key:

Key Type	Column Name
Composite	BG_L1_IDENTIFIER
	BG_L2_IDENTIFIER
	BG_L3_IDENTIFIER

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM923P1	Unique	BG_L1_IDENTIFIER
			BG_L2_IDENTIFIER
			BG_L3_IDENTIFIER

C.31 C1_DELIN_DTLS_INTG

Purpose:	Used to store all the important attributes related to delinquency.
Total Number of Columns:	49

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
BO_STATUS_CD	CHAR(12)	Yes	-
COLL_CL_CD	CHAR(10)	Yes	-
COLL_CL_DESCR	VARCHAR2(60)	Yes	-
DAY_OF_MONTH	NUMBER(2,0)	Yes	-
DEFER_NEXT_CYC_SW	CHAR(1)	Yes	-
DELIN_CATEGORY	VARCHAR2(60)	Yes	-
DELIN_CAT_FLG	CHAR(4)	Yes	-
DELIN_DUE_DT	DATE	Yes	-
DELIN_ENTITY_ID	CHAR(30)	Yes	-
DELIN_ENTITY_TYPE_FLG	CHAR(4)	Yes	-
DELIN_EVT_STAT_FLG	CHAR(4)	Yes	-
DELIN_EVT_TYPE	VARCHAR2(60)	Yes	-
DELIN_EVT_TYPE_CD	CHAR(12)	Yes	-
DELIN_PROC_EVT_ID	CHAR(12)	Yes	-
DELIN_PROC_ID	CHAR(12)	Yes	-
DELIN_PROC_TYPE	VARCHAR2(60)	Yes	-
DELIN_PROC_TYPE_CD	CHAR(30)	Yes	-
DEL_PROC_HOLD_STATUS_FLG	CHAR(4)	Yes	-
ENTITY_ID	VARCHAR2(50)	Yes	-
EOG_DT	DATE	Yes	-
GRACE_PERIOD	NUMBER(3,0)	Yes	-
HOLD_END_DT	DATE	Yes	-
HOLD_END_DT_BY_USER	DATE	Yes	-
HOLD_MODE_FLG	CHAR(4)	Yes	-
HOLD_REASON	CHAR(30)	Yes	-

Column Name	Data Type	Nullable (Yes or No)	Default Value
HOLD_REASON_BY_USER	CHAR(30)	Yes	-
HOLD_ST_DT	DATE	Yes	-
MOVE_PAST_EVT_SW	CHAR(1)	Yes	-
ORIG_UNPAID_AMT	NUMBER(15,2)	Yes	-
PREVIEW_DAYS	NUMBER(5,0)	Yes	-
PREVIEW_DT	DATE	Yes	-
PREVIEW_REQ_SW	CHAR(1)	Yes	-
SEND_MBR_NOTIF	VARCHAR2(60)	Yes	-
SEND_MBR_NOTIF_FLG	CHAR(4)	Yes	-
SEND_MBR_NOTIF_SRC	VARCHAR2(60)	Yes	-
SEND_MBR_NOTIF_SRC_FLG	CHAR(4)	Yes	-
SKIP_PAST_EVT_SW	CHAR(1)	Yes	-
SOG_DT	DATE	Yes	-
TERM_DATE	DATE	Yes	-
TERM_DATE_RULE_FLG	CHAR(4)	Yes	-
TERM_RSN	VARCHAR2(30)	Yes	-
TERM_TRIGGER_DT	DATE	Yes	-
TRIGGER_DT	DATE	Yes	-
TRIGGER_PERIOD	VARCHAR2(60)	Yes	-
TRIGGER_PERIOD_FLG	CHAR(4)	Yes	-
WAIT_DAYS	NUMBER(5,0)	Yes	-
WAIT_DAYS_SRC	VARCHAR2(60)	Yes	-
WAIT_DAYS_SRC_FLG	CHAR(4)	Yes	-
WAIT_MONTHS	NUMBER(2,0)	Yes	-

Primary Key:

None

Indexes:

None

C.32 C1_DELIN_PROC_REL_OBJ_DTL

Purpose:	Used to store the bill segments which are linked to a delinquency bill considered for delinquency processing.
Total Number of Columns:	3

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
BILL_ID	CHAR(12)	No	-
BSEG_ID	CHAR(12)	No	-
DELIN_PROC_ID	CHAR(12)	No	-

Primary Key:

Key Type	Column Name
Composite	BILL_ID
	BSEG_ID
	DELIN_PROC_ID

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM987P0	Unique	BILL_ID
			BSEG_ID
			DELIN_PROC_ID

C.33 C1_DELIN_PROC_TYPE_GRC_PRD_DF

Purpose:	Used to store the configuration details to defer the grace period that is either based on late billing or payment return conditions.
Total Number of Columns:	5

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
DELIN_PROC_TYPE_CD	CHAR(30)	No	-
GRCE_PRD_DEFER_TYPE_FLG	CHAR(4)	No	-
GRCE_PRD_UPD_MODE_DEFR_TYP_FLG	CHAR(4)	Yes	-

Column Name	Data Type	Nullable (Yes or No)	Default Value
GRCE_PRD_UPD_MODE_PAST_EVT_FLG	CHAR(4)	Yes	-
MIN_DAYS_FOR_ELIGIBILITY	NUMBER(22,3)	Yes	-

Primary Key:

Key Type	Column Name
Composite	DELIN_PROC_TYPE_CD
	GRCE_PRD_DEFER_TYPE_FLG

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM966P0	Unique	DELIN_PROC_TYPE_CD
			GRCE_PRD_DEFER_TYPE_FLG

C.34 C1_DELIN_PROC_TYPE_THRESHOLD

Purpose:	Used to store the threshold configurations which define the unpaid percentage and amount based grace month criteria.
Total Number of Columns:	10

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
DELIN_ENTR_EXIT_FLG	CHAR(4)	No	-
DELIN_PROC_TYPE_CD	CHAR(30)	No	-
GRCE_MONTH_1	NUMBER(22,15)	Yes	-
GRCE_MONTH_2	NUMBER(22,15)	Yes	-
GRCE_MONTH_3	NUMBER(22,15)	Yes	-
GRCE_MONTH_4	NUMBER(22,15)	Yes	-
GRCE_MONTH_5	NUMBER(22,15)	Yes	-
PAST_MONTH	NUMBER(22,15)	Yes	-
THRSHLD_TYPE_FLG	CHAR(4)	No	-
VERSION	NUMBER(22,5)	No	1

Primary Key:

Key Type	Column Name
Composite	DELIN_ENTR_EXIT_FLG

Key Type	Column Name
	DELIN_PROC_TYPE_CD
	THRSHLD_TYPE_FLG

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM982P0	Unique	DELIN_ENTR_EXIT_FLG
			DELIN_PROC_TYPE_CD
			THRSHLD_TYPE_FLG

C.35 C1_DWP_DEAL_PRED

Purpose:	Used to store the DWP deal level prediction details.
Total Number of Columns:	12

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
CRE_DTTM	DATE	Y	SYSDATE
DEAL_ID	CHAR(10)	N	-
DEAL_WIN_BUCKET	CHAR(10)	Y	-
DEAL_WIN_PRED_CONF	NUMBER(22,5)	Y	-
DEAL_WIN_PROB	NUMBER(22,5)	Y	-
ILM_ARCH_SW	CHAR(1)	Y	'N'
ILM_DT	DATE	Y	SYSDATE
MODEL_ID	CHAR(10)	N	-
SQI_TYPE_FLG	CHAR(4)	N	'PRPD'
TOP_N_ATTRIBUTES	VARCHAR2(4000)	Y	' '
UPDATE_DTTM	DATE	Y	-
VERSION	NUMBER(22,5)	Y	SYSDATE

Primary Key:

Key Type	Column Name
Composite	DEAL_ID
	MODEL_ID
	SQI_TYPE_FLG

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM962P0	Unique	DEAL_ID
			MODEL_ID
			SQI_TYPE_FLG

C.36 C1_DWP_ENTITY_PRED

Purpose:	Used to store the DWP entity level prediction details.
Total Number of Columns:	10

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
CRE_DTTM	DATE	Yes	SYSDATE
DEAL_ENTITY_ID	CHAR(10)	No	-
DEAL_ENTITY_TYPE_FLG	CHAR(4)	No	-
DEAL_ID	CHAR(10)	No	-
ENTITY_WIN_PRED_CONF	NUMBER(22,5)	Yes	-
ILM_ARCH_SW	CHAR(1)	Yes	'N'
ILM_DT	DATE	Yes	SYSDATE
MODEL_ID	CHAR(10)	No	-
UPDATE_DTTM	DATE	Yes	SYSDATE
VERSION	NUMBER(22,5)	Yes	1

Primary Key:

Key Type	Column Name
Composite	DEAL_ENTITY_ID
	DEAL_ID
	MODEL_ID

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM961P0	Unique	DEAL_ENTITY_ID
			DEAL_ID
			MODEL_ID

C.37 C1_DWP_MODEL_PARTITION_INFO

Purpose:	Used to store all the division price Item combinations on which the model is trained.
Total Number of Columns:	5

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
AIML_JOB_ID	NUMBER(15)	Yes	-
CIS_DIVISION	CHAR(5)	Yes	-
MODEL_NAME	VARCHAR2(50)	Yes	-
PARTITION_NAME	VARCHAR2(50)	Yes	-
PRICEITEM_CD	CHAR(30)	Yes	-

Primary Key:

None

Indexes:

None

C.38 C1_DWP_PREDICTION

Purpose:	Used to store the DWP prediction details.
Total Number of Columns:	30

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
ACTUAL_PRICE	NUMBER	Yes	-
CIS_DIVISION	CHAR(5)	No	-
CREATE_DT	DATE	No	-
CURRENCY_CD	CHAR(3)	No	-
CUST_SEG_FLG	CHAR(4)	Yes	-
CUST_TIER_FLG	CHAR(4)	Yes	-
DEAL_ENTITY_ID	CHAR(10)	Yes	-
DEAL_ENTITY_TYPE_FLG	CHAR(4)	Yes	-
DEAL_ID	CHAR(10)	No	-

Column Name	Data Type	Nullable (Yes or No)	Default Value
DEAL_PRED_CONF	NUMBER(5,2)	Yes	-
DEAL_STATUS	CHAR(12)	No	-
DEAL_WIN_BUCKET	CHAR(10)	Yes	-
DEAL_WIN_PROB	NUMBER(5,2)	Yes	-
ENTITY_FLG	CHAR(4)	Yes	-
ENTITY_ID	CHAR(10)	Yes	-
FREQUENCY_FLG	CHAR(4)	Yes	-
MODEL_ID	CHAR(10)	No	-
MODEL_STATUS	CHAR(12)	No	-
PI_WIN_BUCKET	CHAR(10)	Yes	-
PI_WIN_PROB	NUMBER(5,2)	Yes	-
PRICEITEM_CD	CHAR(30)	Yes	-
PRICEITEM_PARAMETER	VARCHAR2(4000)	Yes	-
PRICEITEM_PARM_GRP_ID	NUMBER(22,0)	Yes	-
PROPOSED_PRICE	NUMBER	Yes	-
REVENUE	NUMBER(15,2)	Yes	-
SIMULATION_ID	CHAR(10)	No	-
SQI_CD	CHAR(8)	No	-
SQI_TYPE_FLG	CHAR(4)	Yes	-
STANDARD_PRICE	NUMBER	Yes	-
SVC_QTY	NUMBER(36,18)	No	-

Primary Key:

None

Indexes:

None

C.39 C1_DWP_PREDICTION_RAW

Purpose:	Used to store the DWP raw prediction details.
Total Number of Columns:	30

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
ACTUAL_PRICE	NUMBER	Yes	-
CREATE_DT	DATE	No	-
CURRENCY_CD	CHAR(3)	No	-
CUST_SEG_FLG	CHAR(4)	Yes	-
CUST_TIER_FLG	CHAR(4)	Yes	-
DEAL_DIVISION	CHAR(5)	No	-
DEAL_ENTITY_ID	CHAR(10)	Yes	-
DEAL_ENTITY_TYPE_FLG	CHAR(4)	Yes	-
DEAL_ID	CHAR(10)	No	-
DEAL_STATUS	CHAR(12)	No	-
DEAL_WIN_BUCKET	CHAR(10)	Yes	-
DEAL_WIN_PROB	NUMBER(5,2)	Yes	-
ENTITY_DIVISION	CHAR(5)	No	-
ENTITY_FLG	CHAR(4)	Yes	-
ENTITY_ID	CHAR(10)	Yes	-
FREQUENCY_FLG	CHAR(4)	Yes	-
MODEL_ID	CHAR(10)	No	-
MODEL_STATUS	CHAR(12)	No	-
PI_WIN_BUCKET	CHAR(10)	Yes	-
PI_WIN_PROB	NUMBER(5,2)	Yes	-
PRICEITEM_CD	CHAR(30)	Yes	-
PRICEITEM_PARAMETER	VARCHAR2(4000)	Yes	-
PRICEITEM_PARM_GRP_ID	NUMBER(22,0)	Yes	-
PROPOSED_PRICE	NUMBER	Yes	-
REVENUE	NUMBER(15,2)	Yes	-

Column Name	Data Type	Nullable (Yes or No)	Default Value
SIMULATION_ID	CHAR(10)	No	-
SQI_CD	CHAR(8)	No	-
SQI_TYPE_FLG	CHAR(4)	Yes	-
STANDARD_PRICE	NUMBER	Yes	-
SVC_QTY	NUMBER(36,18)	No	-

Primary Key:

None

Indexes:

None

C.40 C1_DWP_PRICEITEM_PRED

Purpose:	Used to store the DWP price item level prediction details.
Total Number of Columns:	16

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
CRE_DTTM	DATE	Yes	SYSDATE
DEAL_ENTITY_ID	CHAR(10)	No	-
DEAL_ID	CHAR(10)	No	-
ILM_ARCH_SW	CHAR(1)	Yes	'N'
ILM_DT	DATE	Yes	SYSDATE
MODEL_ID	CHAR(10)	No	-
PI_WIN_BUCKET	CHAR(10)	Yes	-
PI_WIN_PROB	NUMBER(22,5)	Yes	-
PRICE_ASGN_ID	CHAR(10)	No	' '
PRICEITEM_CD	CHAR(30)	No	-
PRICEITEM_PARM_GRP_ID	NUMBER(22,22)	No	-
SIMULATION_ID	CHAR(10)	Yes	-
SQI_TYPE_FLG	CHAR(4)	No	'PRPD'
TOP_N_ATTRIBUTES	VARCHAR2(4000)	Yes	' '
UPDATE_DTTM	DATE	Yes	SYSDATE
VERSION	NUMBER(22,5)	Yes	1

Primary Key:

Key Type	Column Name
Composite	DEAL_ENTITY_ID
	DEAL_ID
	MODEL_ID
	PRICE_ASGN_ID
	PRICEITEM_CD
	PRICEITEM_PARM_GRP_ID
	SQI_TYPE_FLG

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM960P0	Unique	DEAL_ENTITY_ID
			DEAL_ID
			MODEL_ID
			PRICE_ASGN_ID
			PRICEITEM_CD
			PRICEITEM_PARM_GRP_ID
			SQI_TYPE_FLG

C.41 C1_DWP_PRICEITEM_RAW

Purpose:	Used to store the price item data extracted from the tables related to deal management.
Total Number of Columns:	27

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
ACTUAL_PRICE	NUMBER	Yes	-
CREATE_DT	DATE	No	-
CURRENCY_CD	CHAR(3)	No	-
CUST_SEG_FLG	CHAR(4)	Yes	-
CUST_TIER_FLG	CHAR(4)	Yes	-
DEAL_DIVISION	CHAR(5)	No	-
DEAL_ENTITY_ID	CHAR(10)	Yes	-

Column Name	Data Type	Nullable (Yes or No)	Default Value
DEAL_ENTITY_TYPE_FLG	CHAR(4)	Yes	-
DEAL_ID	CHAR(10)	No	-
DEAL_STATUS	CHAR(12)	No	-
ENTITY_DIVISION	CHAR(5)	Yes	-
ENTITY_FLG	CHAR(4)	Yes	-
ENTITY_ID	CHAR(10)	Yes	-
FREQUENCY_FLG	CHAR(4)	Yes	-
MODEL_ID	CHAR(10)	No	-
MODEL_STATUS	CHAR(12)	No	-
PRICEITEM_CD	CHAR(30)	Yes	-
PRICEITEM_PARAMETER	VARCHAR2(4000)	Yes	-
PRICEITEM_PARM_GRP_ID	NUMBER(22,0)	Yes	-
PROPOSED_PRICE	NUMBER	Yes	-
REVENUE	NUMBER(15,2)	Yes	-
SIMULATION_ID	CHAR(10)	Yes	-
SQI_CD	CHAR(8)	Yes	-
SQI_TYPE_FLG	CHAR(4)	Yes	-
STANDARD_PRICE	NUMBER	Yes	-
SVC_QTY	NUMBER(36,18)	Yes	-
TARGET_COL	NUMBER(1,0)	Yes	-

Primary Key:

None

Indexes:

None

C.42 C1_DWP_PRICEITEM_TRAIN

Purpose:	Used to store the price item data extracted from the tables related to deal management for model training purposes.
Total Number of Columns:	22

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
ACCTCNT	NUMBER	Yes	-
AMT2	NUMBER	Yes	-
BK-NBR	NUMBER	Yes	-
BK-VAL	NUMBER	Yes	-
BKSQIFT	NUMBER	Yes	-
CASE_ID	VARCHAR2(50)	Yes	-
COUNTRY	VARCHAR2(4000)	Yes	-
CUST_SEG_FLG	CHAR(4)	Yes	-
CUST_TIER_FLG	CHAR(4)	Yes	-
DEAL_ENTITY_ID	VARCHAR2(4000)	Yes	-
DEAL_ENTITY_TYPE_FLG	CHAR(4)	Yes	-
DEAL_ID	CHAR(10)	Yes	-
DEVIATION_FROM_CURRENT	NUMBER	Yes	-
ENTITY_DIVISION	VARCHAR2(4000)	Yes	-
ENTITY_FLG	CHAR(4)	Yes	-
ENTITY_ID	CHAR(10)	Yes	-
FREQUENCY_FLG	CHAR(4)	Yes	-
MODEL_ID	CHAR(10)	Yes	-
NBR	NUMBER	Yes	-
PRICEITEM_PARM_GRP_ID	NUMBER	Yes	-
SCALED_AVERAGE_PROPOSED_AMT	NUMBER	Yes	-
TARGET_COL	NUMBER(1,0)	Yes	-

Primary Key:

None

Indexes:

None

C.43 C1_FT_GL_DTLS_INTG

Purpose:	Used to store all the FT and GL related information pertaining to all the FT types such as bills, payments, and adjustments.
Total Number of Columns:	55

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
ACCOUNTING_DT	DATE	Yes	-
ACCT_APAY_ID	CHAR(10)	Yes	-
ARS_DT	DATE	Yes	-
BILL_ID	CHAR(12)	Yes	-
CHAR_TYPE_CD	CHAR(8)	Yes	-
CHAR_VAL	CHAR(16)	Yes	-
CIS_DIVISION	CHAR(5)	Yes	-
CIS_DIVISION_DESCR	VARCHAR2(60)	Yes	-
CORRECTION_SW	CHAR(1)	Yes	-
CRE_DTTM	DATE	Yes	-
CUR_AMT	NUMBER(22,15)	Yes	-
CURRENCY_CD	CHAR(3)	Yes	-
DATA_LOAD_DTTM	DATE	Yes	-
DATD_UPD_DTTM	DATE	Yes	-
DIVISION_AMT	NUMBER(22,15)	Yes	-
DIVISION_CURCY_CD	CHAR(3)	Yes	-
DIVISION_CURRENCY_EXCHRATE_ID	CHAR(10)	Yes	-
DST_ID	CHAR(10)	Yes	-
EFF_START_DATE	DATE	Yes	-
END_DT	DATE	Yes	-
EXCHRATE	NUMBER(22,36)	Yes	-

Column Name	Data Type	Nullable (Yes or No)	Default Value
FREEZE_DTTM	DATE	Yes	-
FREEZE_SW	CHAR(1)	Yes	-
FREEZE_USER_ID	CHAR(8)	Yes	-
FT_ID	CHAR(12)	No	-
FT_TYPE_FLG	CHAR(2)	Yes	-
GL_ACCT	VARCHAR2(254)	Yes	-
GL_AMOUNT	NUMBER(22,15)	Yes	-
GL_DIVISION	CHAR(5)	Yes	-
GL_DIVISION_DESCR	VARCHAR2(60)	Yes	-
GL_SEQ_NBR	NUMBER(22,3)	No	-
HEALTH_PLAN_CD	CHAR(30)	Yes	-
LOCAL_CURRENCY_AMT	NUMBER(22,15)	Yes	-
LOCAL_CURRENCY_CD	CHAR(3)	Yes	-
LOCAL_CURRENCY_EXCHRATE	NUMBER(22,36)	Yes	-
LOCAL_CURRENCY_EXCHRATE_ID	CHAR(10)	Yes	-
MATCH_EVT_ID	CHAR(12)	Yes	-
MEMBERSHIP_ID	CHAR(15)	Yes	-
NEW_DEBIT_SW	CHAR(1)	Yes	-
NOT_IN_ARS_SW	CHAR(1)	Yes	-
ORIG_PAY_AMT	NUMBER(22,15)	Yes	-
PARENT_ID	CHAR(12)	Yes	-
PLAN_ID	CHAR(15)	Yes	-
POLICY_ID	CHAR(14)	Yes	-
PRICEITEM_CD	CHAR(30)	Yes	-
PRSN_BILL_ID	CHAR(12)	Yes	-
REDUNDANT_SW	CHAR(1)	Yes	-
SA_ID	CHAR(10)	Yes	-
SEQNO	NUMBER(22,5)	Yes	-
SETTLEMENT_ID_NBR	VARCHAR2(20)	Yes	-
SHOW_ON_BILL_SW	CHAR(1)	Yes	-
SIBLING_ID	CHAR(12)	Yes	-

Column Name	Data Type	Nullable (Yes or No)	Default Value
START_DT	DATE	Yes	-
TOT_AMT	NUMBER(22,15)	Yes	-
TOT_AMT_SW	CHAR(1)	Yes	-

Primary Key:

Key Type	Column Name
Composite	FT_ID
	GL_SEQ_NBR

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM968P0	Unique	FT_ID
			GL_SEQ_NBR

C.44 C1_PAY_BILL_ADJ_LOOKUP_INTG

Purpose:	Used to store the details of bills, payments, and adjustments that are linked together by a match event.
Total Number of Columns:	7

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
ACCT_ID	CHAR(10)	No	-
ADJ_ID	CHAR(12)	No	-
BILL_ID	CHAR(12)	No	-
BSEG_ID	CHAR(12)	No	-
MATCH_EVT_ID	CHAR(12)	No	-
PAY_ID	CHAR(12)	No	-
PAY_SEG_ID	CHAR(12)	No	-

Primary Key:

Key Type	Column Name
Composite	ADJ_ID
	BILL_ID
	BSEG_ID

Key Type	Column Name
	MATCH_EVT_ID
	PAY_ID
	PAY_SEG_ID

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM971P0	Unique	ADJ_ID
			BILL_ID
			BSEG_ID
			MATCH_EVT_ID
			PAY_ID
			PAY_SEG_ID

C.45 C1_PAY_BUS_RULE

Purpose:	Used to store the business rules for payment and hold request.
Total Number of Columns:	28

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
BUS_OBJ_CD	CHAR(30)	No	-
C1_PAYBUS_SUB_RULE_ID	CHAR(12)	No	-
COMMENTS	VARCHAR2(254)	Yes	''
CRE_DTTM	DATE	No	-
END_DT	DATE	Yes	-
HOLD_RSN_FLG	CHAR(4)	Yes	-
ILM_ARCH_SW	CHAR(1)	Yes	-
ILM_DT	DATE	Yes	'N'
PARAM1	VARCHAR2(254)	No	-
PARAM10	VARCHAR2(254)	No	-
PARAM11	VARCHAR2(254)	No	-
PARAM12	VARCHAR2(254)	No	-
PARAM13	VARCHAR2(254)	No	-

Column Name	Data Type	Nullable (Yes or No)	Default Value
PARAM14	VARCHAR2(254)	No	-
PARAM15	VARCHAR2(254)	No	-
PARAM2	VARCHAR2(254)	No	-
PARAM3	VARCHAR2(254)	No	-
PARAM4	VARCHAR2(254)	No	-
PARAM5	VARCHAR2(254)	No	-
PARAM6	VARCHAR2(254)	No	-
PARAM7	VARCHAR2(254)	No	-
PARAM8	VARCHAR2(254)	No	-
PARAM9	VARCHAR2(254)	No	-
RULE_TYPE_FLG	CHAR(4)	Yes	-
START_DT	DATE	No	-
UPD_DTTM	DATE	Yes	-
USER_ID	CHAR(8)	No	-
VERSION	NUMBER(5,0)	No	-

Primary Key:

Key Type	Column Name
Simple	C1_PAYBUS_SUB_RULE_ID

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM924P1	Unique	C1_PAYBUS_SUB_RULE_ID

C.46 C1_PAY_DTLS_INTG

Purpose:	Used to store the details of all the payments and their corresponding details.
Total Number of Columns:	43

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
ACCT_ID	CHAR(10)	Yes	-
BILL_ID	CHAR(12)	Yes	-

Column Name	Data Type	Nullable (Yes or No)	Default Value
CAN_RSN_CD	CHAR(4)	Yes	-
CAN_RSN_DESCR	VARCHAR2(60)	Yes	-
CHECK_NBR	CHAR(30)	Yes	-
CURRENCY_CD	CHAR(3)	Yes	-
CUST_ID	CHAR(15)	Yes	-
DATA_LOAD_DTTM	DATE	Yes	-
EXCHRATE	NUMBER(36,18)	Yes	-
EXT_REFERENCE_ID	CHAR(36)	Yes	-
EXT_SOURCE_ID	CHAR(30)	Yes	-
EXT_TRANSMIT_ID	CHAR(30)	Yes	-
MATCH_EVT_ID	CHAR(12)	Yes	-
MATCH_TYPE_CD	CHAR(8)	Yes	-
MATCH_TYPE_DESCR	VARCHAR2(60)	Yes	-
MATCH_TYPE_ENTITY_FLG	CHAR(4)	Yes	-
MATCH_TYPE_ENTITY_TYPE	CHAR(4)	Yes	-
MATCH_VAL	VARCHAR2(30)	Yes	-
MEVT_CREATE_DT	DATE	Yes	-
MEVT_DISPUTE_SW	CHAR(1)	Yes	-
MEVT_STATUS_DESCR	VARCHAR2(60)	Yes	-
MEVT_STATUS_FLG	CHAR(2)	Yes	-
ORIG_TNDR_AMT	NUMBER(15,2)	Yes	-
PAYOR_ACCT_ID	CHAR(10)	Yes	-
PAY_AMT	NUMBER(15,2)	Yes	-
PAY_DT	DATE	Yes	-
PAY_EVENT_ID	CHAR(12)	Yes	-
PAY_EVENT_MODE	CHAR(1)	Yes	-
PAY_ID	CHAR(12)	Yes	-
PAY_SEG_ADJ_ID	CHAR(12)	Yes	-
PAY_SEG_AMT	NUMBER(15,2)	Yes	-
PAY_SEG_ID	CHAR(12)	Yes	-
PAY_STATUS_DESCR	VARCHAR2(60)	Yes	-

Column Name	Data Type	Nullable (Yes or No)	Default Value
PAY_STATUS_FLG	CHAR(2)	Yes	-
PAY_TENDER_ID	CHAR(12)	Yes	-
PAY_TNDR_ADJ_ID	CHAR(12)	Yes	-
SA_ID	CHAR(10)	Yes	-
TENDER_AMT	NUMBER(15,2)	Yes	-
TENDER_CURRENCY_CD	CHAR(3)	Yes	-
TENDER_TYPE_CD	CHAR(4)	Yes	-
TENDER_TYPE_DESCR	VARCHAR2(60)	Yes	-
TNDR_CAN_RSN_CD	CHAR(4)	Yes	-
TNDR_STATUS_FLG	CHAR(2)	Yes	-

Primary Key:

None

Indexes:

None

C.47 C1_TAD_DAY_PRED

Purpose:	Used to store the aggregate anomaly detection for transaction on daily basis.
Total Number of Columns:	5

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
AGG_VALUES	VARCHAR2(500)	Yes	-
GROUP_KEY	VARCHAR2(4000)	No	-
IS_ANOMALY	CHAR(1)	Yes	-
REASON_CODES	VARCHAR2(4000)	Yes	-
SPAN_DATE	DATE	No	-

Primary Key:

Key Type	Column Name
Composite	GROUP_KEY
	SPAN_DATE

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM991P0	Unique	GROUP_KEY
			SPAN_DATE

C.48 C1_TAD_PRED

Purpose:	Used to store the generic anomaly detection for transaction purposes.
Total Number of Columns:	6

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
GROUP_KEY	VARCHAR2(4000)	Yes	-
IS_ANOMALY	CHAR(1)	Yes	-
REASON_CODES	VARCHAR2(4000)	Yes	-
TXN_DETAIL_ID	NUMBER(22,15)	No	-
TXN_DTTM	DATE	No	-
TXN_HEADER_ID	CHAR(14)	No	-

Primary Key:

Key Type	Column Name
Simple	TXN_DETAIL_ID

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM990P0	Unique	TXN_DETAIL_ID

Appendix D : Existing Tables Modified in ORMB Version 8.1.0.0.0

This section lists the existing tables which are modified in Oracle Revenue Management and Billing Version 8.1.0.0.0. It indicates the columns that are newly added, dropped, or modified in these tables.

D.1 C1_ADJ_DTLS_INTG

The following table lists the columns that are newly added, modified, or dropped from the C1_ADJ_DTLS_INTG table:

Sr. No.	Column Name	Modification Type	Data Type in V8.0.0.0.0	Data Type in V8.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	ACCT_ID	Newly Added	-	CHAR(10)	No	-
2.	ADJ_AMT	Newly Added	-	NUMBER(22,15)	No	-

D.2 C1_BUS_RULE_DELIN

The following table lists the columns that are newly added, modified, or dropped from the C1_BUS_RULE_DELIN table:

Sr. No.	Column Name	Modification Type	Data Type in V8.0.0.0.0	Data Type in V8.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	GRACE_PERIOD_TYPE_FLG	Newly Added	-	CHAR(4)	No	-

D.3 C1_DELIN_PROC_APPR_DTL

The following table lists the columns that are newly added, modified, or dropped from the C1_DELIN_PROC_APPR_DTL table:

Sr. No.	Column Name	Modification Type	Data Type in V8.0.0.0.0	Data Type in V8.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	EOG_DT	Newly Added	-	DATE	No	-
2.	SOG_DT	Newly Added	-	DATE	No	-

D.4 C1_DELIN_PROC_REL_OBJ_DTL

The following table lists the columns that are newly added, modified, or dropped from the C1_DELIN_PROC_REL_OBJ_DTL table:

Sr. No.	Column Name	Modification Type	Data Type in V8.0.0.0.0	Data Type in V8.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	BILL_ID	Newly Added	-	CHAR(12)	No	-
2.	BSEG_ID	Newly Added	-	CHAR(12)	No	-

D.5 C1_DELIN_PROC_TYPE

The following table lists the columns that are newly added, modified, or dropped from the C1_DELIN_PROC_TYPE table:

Sr. No.	Column Name	Modification Type	Data Type in V8.0.0.0.0	Data Type in V8.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	THRSHLD_SW	Newly Added	-	CHAR(1)	No	-

D.6 C1_DELIN_PROC_TYPE_GRC_PRD_DF

The following table lists the columns that are newly added, modified, or dropped from the C1_DELIN_PROC_TYPE_GRC_PRD_DF table:

Sr. No.	Column Name	Modification Type	Data Type in V8.0.0.0.0	Data Type in V8.1.0.0.0	Data Migration Required (Yes or No)	Column After Migration	Value Data
1.	DELIN_PROC_TYPE_CD	Newly Added	-	CHAR(30)	No	-	-
2.	GRCE_PRD_DEFER_TYPE_FLG	Newly Added	-	CHAR(4)	No	-	-

D.7 C1_DWP_PRICEITEM_RAW

The following table lists the columns that are newly added, modified, or dropped from the C1_DWP_PRICEITEM_RAW table:

Sr. No.	Column Name	Modification Type	Data Type in V8.0.0.0.0	Data Type in V8.1.0.0.0	Data Migration Required (Yes or No)	Column After Migration	Value Data
1.	CIS_DIVISION	Dropped	-	CHAR(5)	No	-	-

D.8 C1_FT_EXT

The following table lists the columns that are newly added, modified, or dropped from the C1_FT_EXT table:

Sr. No.	Column Name	Modification Type	Data Type in V8.0.0.0.0	Data Type in V8.1.0.0.0	Data Migration Required (Yes or No)	Column After Migration	Value Data
1.	ACCT_DIV_CURCY_CD	Newly Added	-	CHAR(3)	No	-	-
2.	ACCT_DIV_EXCHRATE	Newly Added	-	NUMBER(22,36)	No	-	-

Sr. No.	Column Name	Modification Type	Data Type in V8.0.0.0.0	Data Type in V8.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Migration
3.	BILL_CYC_CD	Newly Added	-	CHAR(4)	No	-
4.	IMPL_CURCY_CD	Newly Added	-	CHAR(3)	No	-
5.	IMPL_CURRENCY_AMT	Newly Added	-	NUMBER(22,36)	No	-
6.	IMPL_CURRENCY_EXCHRATE	Newly Added	-	NUMBER(22,36)	No	-
7.	IMPL_CURRENCY_EXCHRATE_ID	Newly Added	-	CHAR(10)	No	-
8.	PER_DIV_CUR_EXCHRATE_ID	Newly Added	-	CHAR(10)	No	-
9.	PER_DIV_CURCY_AMT	Newly Added	-	NUMBER(22,36)	No	-
10.	PER_DIV_CURCY_CD	Newly Added	-	CHAR(3)	No	-
11.	PER_DIV_EXCHRATE	Newly Added	-	NUMBER(22,36)	No	-

D.9 C1_FT_GL_DTLS_INTG

The following table lists the columns that are newly added, modified, or dropped from the C1_FT_GL_DTLS_INTG table:

Sr. No.	Column Name	Modification Type	Data Type in V8.0.0.0.0	Data Type in V8.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Migration
1.	ACCOUNTING_DT	Newly Added	-	DATE	No	-
2.	ACCT_APAY_ID	Newly Added	-	CHAR(10)	No	-

D.10 C1_INVOICE_REQ_DTLS

The following table lists the columns that are newly added, modified, or dropped from the C1_INVOICE_REQ_DTLS table:

Sr. No.	Column Name	Modification Type	Data Type in V8.0.0.0.0	Data Type in V8.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	CUTOFF_DT	Newly Added	-	DATE	No	-

D.11 C1_PAY_BILL_ADJ_LOOKUP_INTG

The following table lists the columns that are newly added, modified, or dropped from the C1_PAY_BILL_ADJ_LOOKUP_INTG table:

Sr. No.	Column Name	Modification Type	Data Type in V8.0.0.0.0	Data Type in V8.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	ACCT_ID	Newly Added	-	CHAR(10)	No	-
2.	ADJ_ID	Newly Added	-	CHAR(12)	No	-

D.12 C1_TAD_DAY_PRED

The following table lists the columns that are newly added, modified, or dropped from the C1_TAD_DAY_PRED table:

Sr. No.	Column Name	Modification Type	Data Type in V8.0.0.0.0	Data Type in V8.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	GROUP_KEY	Newly Added	-	VARCHAR2(4000)	No	-

D.13 EXT_C1_IND_MEM

The following table lists the columns that are newly added, modified, or dropped from the EXT_C1_IND_MEM table:

Sr. No.	Column Name	Modification Type	Data Type in V8.0.0.0.0	Data Type in V8.1.0.0.0	Data Migration Required (Yes or No)	Column After Migration	Value Data
1.	CHAR_TYPE_CD_1	Newly Added	-	CHAR(8)	No	-	-
2.	CHAR_TYPE_CD_10	Newly Added	-	CHAR(8)	No	-	-
3.	CHAR_TYPE_CD_2	Newly Added	-	CHAR(8)	No	-	-
4.	CHAR_TYPE_CD_3	Newly Added	-	CHAR(8)	No	-	-
5.	CHAR_TYPE_CD_4	Newly Added	-	CHAR(8)	No	-	-
6.	CHAR_TYPE_CD_5	Newly Added	-	CHAR(8)	No	-	-
7.	CHAR_TYPE_CD_6	Newly Added	-	CHAR(8)	No	-	-
8.	CHAR_TYPE_CD_7	Newly Added	-	CHAR(8)	No	-	-
9.	CHAR_TYPE_CD_8	Newly Added	-	CHAR(8)	No	-	-
10.	CHAR_TYPE_CD_9	Newly Added	-	CHAR(8)	No	-	-
11.	CHAR_VAL_1	Newly Added	-	VARCHAR2(254)	No	-	-
12.	CHAR_VAL_10	Newly Added	-	VARCHAR2(254)	No	-	-
13.	CHAR_VAL_2	Newly Added	-	VARCHAR2(254)	No	-	-
14.	CHAR_VAL_3	Newly Added	-	VARCHAR2(254)	No	-	-
15.	CHAR_VAL_4	Newly Added	-	VARCHAR2(254)	No	-	-

Sr. No.	Column Name	Modification Type	Data Type in V8.0.0.0.0	Data Type in V8.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Migration
16.	CHAR_VAL_5	Newly Added	-	VARCHAR2(254)	No	-
17.	CHAR_VAL_6	Newly Added	-	VARCHAR2(254)	No	-
18.	CHAR_VAL_7	Newly Added	-	VARCHAR2(254)	No	-
19.	CHAR_VAL_8	Newly Added	-	VARCHAR2(254)	No	-
20.	CHAR_VAL_9	Newly Added	-	VARCHAR2(254)	No	-
21.	DIVISION_DESCRIPTION	Newly Added	-	VARCHAR2(60)	No	-
22.	HEALTH_PLAN_CD	Newly Added	-	CHAR(30)	No	-
23.	MEMBER_AUTO_RENEWAL	Newly Added	-	CHAR(1)	No	-
24.	MEMBERSHIP_CAT_FLG	Newly Added	-	CHAR(4)	No	-
25.	MEMBERSHIP_END_DT	Newly Added	-	DATE	No	-
26.	MEMBERSHIP_ID	Newly Added	-	CHAR(15)	No	-
27.	MEMBERSHIP_START_DT	Newly Added	-	DATE	No	-
28.	MEMBERSHIP_STATUS	Newly Added	-	CHAR(12)	No	-
29.	PER_ID	Newly Added	-	CHAR(10)	No	-
30.	PERSON_NAME	Newly Added	-	VARCHAR2(254)	No	-
31.	PRICEITEM_CD	Newly Added	-	CHAR(30)	No	-
32.	PRICING_END_DT	Newly Added	-	DATE	No	-
33.	PRICING_RULE_ID	Newly Added	-	CHAR(15)	No	-
34.	PRICING_RULE_TYPE	Newly Added	-	VARCHAR2(60)	No	-

Sr. No.	Column Name	Modification Type	Data Type in V8.0.0.0.0	Data Type in V8.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
35.	PRICING_RULE_TYPE_CD	Newly Added	-	CHAR(30)	No	-
36.	PRICING_START_DT	Newly Added	-	DATE	No	-
37.	PRIMARY_IDENTIFIERTYPE	Newly Added	-	CHAR(8)	No	-
38.	PRIMARY_IDENTIFIERVERVALUE	Newly Added	-	VARCHAR2(90)	No	-
39.	PRODUCT	Newly Added	-	VARCHAR2(60)	No	-
40.	PRODUCT_CD	Newly Added	-	CHAR(30)	No	-
41.	PRODUCT_HC_CATEGORY	Newly Added	-	CHAR(4)	No	-
42.	RATE_GUARANTEE_END_DT	Newly Added	-	DATE	No	-
43.	RATE_GUARANTEE_START_DT	Newly Added	-	DATE	No	-
44.	RATE_GUARANTEE_STATUS	Newly Added	-	CHAR(4)	No	-
45.	RELATIONSHIP_TYPE	Newly Added	-	VARCHAR2(60)	No	-
46.	RENEWAL_DATE	Newly Added	-	DATE	No	-
47.	SA_REL_TYPE_CD	Newly Added	-	CHAR(8)	No	-

Appendix E : Algorithms and Algorithm Types Dropped in ORMB Version 8.1.0.0.0

This section lists the algorithms and algorithm types which are dropped in Oracle Revenue Management and Billing Version 8.1.0.0.0.

E.1 Algorithm Types

No algorithm types are dropped in Oracle Revenue Management and Billing Version 8.1.0.0.0.

E.2 Algorithms

The following table lists the algorithms which are dropped in Oracle Revenue Management and Billing Version 8.1.0.0.0:

Algorithm	Description
C1-PXACCTDTU	Payment Cancellation Accounting Date Change

Appendix F : Parameters Added or Removed from Algorithm Types in ORMB Version 8.1.0.0.0

No parameters are newly added or removed from the existing algorithm types in Oracle Revenue Management and Billing Version 8.1.0.0.0.

Appendix G : Option Types Added or Removed from Feature Configurations in ORMB Version 8.1.0.0.0

This section lists the option types which are newly added or removed from the existing feature configurations in Oracle Revenue Management and Billing Version 8.1.0.0.0:

Feature Configuration	Option Type (Removed from 8.1.0.0.0)	Option Type (Added in 8.1.0.0.0)
C1_PRICING	-	Associate Price Item Relationship Type For Lesser Pricing
	-	Mandatory Price Item Validation
	-	Price Parameter - Validation
C1-ASOBLLNG	-	Display non-eligible members beyond max dependent count
	-	End Date Price
	-	Enrollment End Date for Open-Ended Entities
C1-C360DASH	-	Number of Rows Per Page
	-	Thread Count
C1-DEAL	-	Deal Dashboard Default View
	-	To Do Limit in Days
C1_FINTRANOP	Hide Debt Class Details On Account Main Page	-
C1-PAYPORTAL	-	Skip FT EXT Insert
C1-PERSTYPE	-	Individual Person Type
C1-RPTDTL	Bill Group Person Identifier Type	-
	Invoice	-
	Invoice	-
	Invoice	-
	Invoice Account	-
	Invoice Account	-
	Invoice Type Characteristic Type	-

Feature Configuration	Option Type (Removed from 8.1.0.0.0)	Option Type (Added in 8.1.0.0.0)
	Invoices	-
	Parent Customer Person Identifier Type	-
	Source System Characteristic Type	-
	System	-
	TPA Code Characteristic Type	-
	TPA Name Characteristic Type	-
SYSDT	-	Default SPML service security policy
	-	Standard API Conversion
	-	Standard Deviation
	-	Subordinate
	-	System Override Date
	-	XSD

Appendix H : Characteristic Types Dropped in ORMB Version 8.1.0.0.0

No characteristic types are dropped in Oracle Revenue Management and Billing Version 8.1.0.0.0.

Appendix I : Batch Controls Dropped in ORMB Version 8.1.0.0.0

No batch controls are dropped in Oracle Revenue Management and Billing Version 8.1.0.0.0.

Appendix J : Parameters Added or Removed from Batch Controls in ORMB Version 8.1.0.0.0

This section lists the parameters which are newly added or removed from the existing batch controls in Oracle Revenue Management and Billing Version 8.1.0.0.0:

Batch Control	Parameters (Removed from 8.1.0.0.0)		Parameters (Added in 8.1.0.0.0)	
	Sequence Number	Parameter	Sequence Number	Parameter
C1_DLMTR	-	-	900	Email Mode
	-	-	60	Inactivate Approved Finalized Deals
	-	-	910	Override maximum errors
C1-ACKRP	180	Business Style Characteristic Type Code	190	Business Style Characteristic Type Code
	190	Customer Code Identifier Type	200	Customer Code Identifier Type
	-	-	170	CWT Tender Type
	-	-	210	Related Person Feature Configuration
	-	-	220	Relationship Type Option
	170	Tin Number Identifier Type	180	Tin Number Identifier Type
C1-AJEXT	160	Thread Pool Name	900	Thread Pool Name
	900	Email Mode	910	Email Mode
	910	Override maximum errors	920	Override maximum errors
	140	Transaction From Date	-	-
	150	Transaction To Date	-	-
C1BLSTEX	-	-	190	Billing Group Relationship Type

Batch Control	Parameters (Removed from 8.1.0.0.0)		Parameters (Added in 8.1.0.0.0)	
	Sequence Number	Parameter	Sequence Number	Parameter
	-	-	210	Eligible Person Relationship Type Option Type
	-	-	200	Extract Feature Configuration
C1CAGACR	120	Transaction Detail Accrual Adj Stamp Column	111	Transaction Detail Accrual Adj Stamp Column
	130	Transaction Price Item Accrual Adj Stamp Column	112	Transaction Price Item Accrual Adj Stamp Column
	150	Account Id	130	Account Id
	140	SQL Batch Size	120	SQL Batch Size
C1DRBLEX	180	Attachment Details BS	190	Attachment Details BS
	-	-	230	Bill Cycle Code Regex Filter
	-	-	200	Billing Group Relationship Type
	170	Computation Summary BS	180	Computation Summary BS
	140	CWT Percentage	150	CWT Percentage
	-	-	130	CWT Percentage Contract Characteristic Type
	130	Default Broker Name	140	Default Broker Name
	-	-	220	Eligible Person Relationship Type Option Type
	-	-	210	Extract Feature Configuration
	150	VAT Percentage	160	VAT Percentage
	160	VAT Sales Predefined Value	170	VAT Sales Predefined Value
C1-FIMRC	-	-	84	Account Business Object
	-	-	85	Account ID

Batch Control	Parameters (Removed from 8.1.0.0.0)		Parameters (Added in 8.1.0.0.0)	
	Sequence Number	Parameter	Sequence Number	Parameter
	-	-	900	Email Mode
	-	-	910	Override maximum errors
C1-FTRAN	-	-	80	Division Code/Division Group code
	-	-	900	Email Mode
C1-GENDS	-	-	900	Email Mode
	-	-	910	Override maximum errors
C1-GENEX	-	-	900	Email Mode
	-	-	910	Override maximum errors
C1-GENLD	-	-	900	Email Mode
	-	-	910	Override maximum errors
C1-INRSB	-	-	900	Email Mode
	-	-	910	Override maximum errors
C1-INVEP	280	Extract Bank Name Char Type	-	-
	290	Invoice Pdf Required	-	-
	270	Supplemental Flag Char Type	-	-
	260	Supplemental Report Char Type	-	-
	200	Algorithm Code To Move File	-	-
	160	BillGroup Person Identifier Type	-	-
	140	Daily Claim Amount Char	-	-
	170	Parent Customer Person Identifier Type	-	-
	180	Person RelationshipType	-	-
	190	Policy Person RelationshipType	-	-

Batch Control	Parameters (Removed from 8.1.0.0.0)		Parameters (Added in 8.1.0.0.0)	
	Sequence Number	Parameter	Sequence Number	Parameter
	150	Value Amount Char	-	-
C1-INVET	-	-	150	BillGroup Person Identifier Type
	-	-	160	Parent Customer Person Identifier Type
	-	-	170	Person RelationshipType
	-	-	180	Policy Person RelationshipType
	-	-	140	Value Amount Char
C1-MEPRC	900	Email Mode	-	-
	910	Override maximum errors	-	-
C1-MLDPR	-	-	70	Bill Cycle Code List
	110	Thread Pool Name	80	Thread Pool Name
	-	-	60	Division List
	-	-	90	Email Mode
	-	-	100	Override maximum errors
	60	Filter Condition 1	-	-
	70	Filter Condition 2	-	-
	80	Filter Condition 3	-	-
	90	Filter Condition 4	-	-
	100	Filter Condition 5	-	-
	60	Filter Condition 1	-	-
	-	-	-	-
C1-OBREX	80	Date/Time Format	60	Date/Time Format
	-	-	90	Driver Query Business Service
	70	Extendable Lookup Business Object	50	Extendable Lookup Business Object
	-	-	80	Person ID
	-	-	70	Billing Group or Parent Customer Flag

Batch Control	Parameters (Removed from 8.1.0.0.0)		Parameters (Added in 8.1.0.0.0)	
	Sequence Number	Parameter	Sequence Number	Parameter
	60	Lookup Value in Extendable Lookup	-	-
	50	Business Service	-	-
C1TXNHLM	130	Error Txn Status	-	-
	140	Hold Flag Udf	-	-
	110	No Bill No Pay Reason code	-	-
	120	Value In HoldFlag For CAG Claim	-	-
	120	ParmField For CalOrBusDays	-	-
	110	ParmField For DueDays	-	-

Appendix K : Changing the DB User Password

If you have changed the database user password, you need to execute the following steps before installing the rollup pack for Oracle Utilities Application Framework Version 25.4:

1. Perform the following steps on the application environment:

- a. Change the DB Name using the `configureEnv` command.
- b. Execute the `initialSetup` utility using the following command:

Linux:

```
$SPLEBASE/bin/initialSetup.sh
```

Windows:

```
%SPLEBASE%\bin\initialSetup.cmd
```

- c. Execute the `invokeDBUpdatePatch` utility to change the database user name and password using the following command:

Linux:

```
$SPLEBASE/bin/invokeDBUpdatePatch.sh -b
```

Windows:

```
%SPLEBASE%\bin\invokeDBUpdatePatch.cmd -b
```

Appendix L : ORMB V8.1.0.0.0 Rollup Packs

Instead of individually applying the patches, you can download and apply the release-specific rollup packs. To view the list of rollup packs that you need to apply on the application environment and database, see the [ORMB V8.1.0.0.0 Patch Guide](#) (Document ID: 3110234.1) on [My Oracle Support](#).

L.1 Applying a Rollup Pack on the Application Environment

Once you install Oracle Revenue Management and Billing Version 8.1.0.0.0, you need to apply the rollup packs listed in the [ORMB V8.1.0.0.0 Patch Guide](#) (Document ID: 3110234.1). To apply a rollup pack on the application environment:

1. Download the rollup pack from [My Oracle Support](#). A zip file is downloaded.
2. Unzip the rollup pack using the following command:

Linux:

```
unzip <filename>.zip -d <PATH>/<DESTINATION_FOLDER_1>
```

Windows:

```
unzip <filename>.zip -d <PATH>\<DESTINATION_FOLDER_1>
```

The contents of the zip file are extracted in the <DESTINATION_FOLDER_1> folder. The contents include the `README.txt` file and three folders named `RMB_V8.1.0.0.0_App_Rollup`, `RMB_V8.1.0.0.0_DB_Rollup`, and `RMB_V8.1.0.0.0_PFDs`.

3. Initialize the application environment (on which you want to install the rollup pack) using the following command:

Linux:

```
$SPLBASE/bin/splenvron.sh -e $SPLENVIRON
```

Windows:

```
%SPLBASE%\bin\splenvron.cmd -e %SPLENVIRON%
```

Where,

`$SPLBASE` or `%SPLBASE%` is the path where the application environment is installed and `$SPLENVIRON` or `%SPLENVIRON%` is the name of the application environment.

4. Change to the `RMB_V8.1.0.0.0_App_Rollup` folder using the following command:

Linux:

```
cd <DESTINATION_FOLDER_1>/RMB_V8.1.0.0.0_App_Rollup
```

Windows:

```
cd <DESTINATION_FOLDER_1>\RMB_V8.1.0.0.0_App_Rollup
```

Note: The <DESTINATION_FOLDER_1> folder is the location where you have extracted the contents of the rollup pack.

5. Install the patch using the following command:

Linux:

```
./installSFgroup.sh
```

Windows:

```
installSFgroup.cmd
```

L.2 Applying a Rollup Pack on the Database

Once you install Oracle Revenue Management and Billing Version 8.1.0.0.0, you need to apply the rollup packs listed in the [ORMB V8.1.0.0.0 Patch Guide](#) (Document ID: 3110234.1). You can apply a rollup pack from a Windows machine or UNIX Standalone server. To apply a rollup pack on the database:

1. Download the rollup pack from [My Oracle Support](#). A zip file is downloaded.
2. Unzip the rollup pack using the following command:

Linux:

```
unzip <filename>.zip -d <PATH>/<DESTINATION_FOLDER_1>
```

Windows:

```
unzip <filename>.zip -d <PATH>\<DESTINATION_FOLDER_1>
```

The contents of the zip file are extracted in the <DESTINATION_FOLDER_1> folder. The contents include the README.txt file and three folders named RMB_V8.1.0.0.0_App_Rollup, RMB_V8.1.0.0.0_DB_Rollup, and RMB_V8.1.0.0.0_PFDs.

3. Change to the RMB_V8.1.0.0.0_DB_Rollup folder using the following command:

Linux:

```
cd <DESTINATION_FOLDER_1>/RMB_V8.1.0.0.0_DB_Rollup
```

Windows:

```
cd <DESTINATION_FOLDER_1>\RMB_V8.1.0.0.0_DB_Rollup
```

Note: The <DESTINATION_FOLDER_1> folder is the location where you have extracted the contents of the rollup pack.

4. Execute the ouafDatabasePatch utility using the following command:

Windows:

```
ouafDatabasePatch.cmd
```

Linux:

```
ouafDatabasePatch.sh
```

Note: On the Linux platform, ensure that you grant the execute permission for the `ouafDatabasePatch.sh` utility using the following command:

```
chmod 755 ouafDatabasePatch.sh
```

This utility prompts you to enter values for the following parameters:

Parameter	Value
Enter the target database type (O/M/D) [O]	O (if you have Oracle database) OR M (if you have MySQL database)
Enter the username that owns the schema	<DB_USER> Example: CISADM
Enter the password for the <DB_USER> user	<DB_USER_PASSWORD>
Enter the name of the Oracle Database Connection String	<DB_SERVER:DB_PORT:DB_SID> OR <DB_SERVER:DB_PORT/SERVICE_NAME>

- Enter the required parameter value. The following message appears in the command line:
`Ready to process patches, Do you want to continue? (Y/N)`
- Type **Y** and then press **Enter**. A message appears indicating that the patches are applied successfully.

Appendix M : New Tables Added in OUAF Version 25.4

This section lists and describes the tables that are newly added in Oracle Utilities Application Framework Version 25.4.

M.1 CI_BATCH_CTRL_OPT

Purpose:	Used to store the options of a batch control.
Total Number of Columns:	6

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
BATCH_CD	CHAR(8)	No	-
BATCH_CTRL_OPT_FLG	CHAR(4)	No	-
BATCH_CTRL_OPT_VAL	VARCHAR2(254)	No	-
OWNER_FLG	CHAR(4)	No	-
SEQ_NUM	NUMBER(22)	No	-
VERSION	NUMBER(22)	No	1

Primary Key:

Key Type	Column Name
Composite	BATCH_CD
	BATCH_CTRL_OPT_FLG
	BATCH_CTRL_OPT_VAL
	SEQ_NUM

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	F1T929P0	Unique	BATCH_CD
			BATCH_CTRL_OPT_FLG
			BATCH_CTRL_OPT_VAL
			SEQ_NUM

M.2 F1_ATTACHMENT_DATA

Purpose:	Used to store the details of an attachment.
Total Number of Columns:	4

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
ATTACHMENT_ID	CHAR(14)	No	-
ATTCH_DATA_USAGE_FLG	CHAR(4)	No	' '
ATTCH_FILE_DETAILS	CLOB(4000)	Yes	-
SEQNO	NUMBER(22)	No	1

Primary Key:

Key Type	Column Name
Composite	ATTACHMENT_ID
	ATTCH_DATA_USAGE_FLG
	SEQNO

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	F1T930P0	Unique	ATTACHMENT_ID
			ATTCH_DATA_USAGE_FLG
			SEQNO

M.3 F1_PATCH_DETAILS

Purpose:	Used to store the details of a patch.
Total Number of Columns:	14

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
APPL_VERSION	VARCHAR2(60)	No	-
BASE_REF_ID	VARCHAR2(60)	Yes	-
EXT_PATCH_REF_ID	VARCHAR2(60)	No	-

Column Name	Data Type	Nullable (Yes or No)	Default Value
PATCH_CATEGORY	VARCHAR2(254)	Yes	-
PATCH_COMP_XFLG	VARCHAR2(30)	No	-
PATCH_COPY_FLG	CHAR(4)	No	-
PATCH_DESCR	VARCHAR2(254)	No	-
PATCH_ID	CHAR(12)	No	-
PATCH_INSTALL_DTTM	DATE	No	-
PATCH_PROD_ID	VARCHAR2(30)	No	-
PATCH_VERSION	VARCHAR2(60)	No	-
RELATED_REF_ID	VARCHAR2(60)	Yes	-
RELEASE_VER	VARCHAR2(100)	No	-
VERSION	NUMBER(22,5)	No	1

Primary Key:

Key Type	Column Name
Simple	PATCH_ID

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	F1T211P0	Unique	PATCH_ID

M.4 F1_PROD_METRIC_SNPSHT

Purpose:	Used to store the details of a product metric snapshot.
Total Number of Columns:	9

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
BO_STATUS_CD	CHAR(12)	No	-
BO_XML_DATA_AREA	XMLTYPE(2000)	Yes	-
BUS_OBJ_CD	CHAR(30)	No	-
CRE_DTTM	DATE	Yes	-
METRIC_SNAPSHOT_ID	CHAR(12)	No	-
PROD_METRIC_TYPE_CD	VARCHAR2(30)	No	-
SNAPSHOT_XML_DATA_AREA	XMLTYPE(2000)	Yes	-

Column Name	Data Type	Nullable (Yes or No)	Default Value
STATUS_UPD_DTTM	DATE	Yes	-
VERSION	NUMBER(22,5)	No	1

Primary Key:

Key Type	Column Name
Simple	METRIC_SNAPSHOT_ID

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	F1T918P0	Unique	METRIC_SNAPSHOT_ID

M.5 F1_PROD_METRIC_SNPSHT_K

Purpose:	Used to store the product metric snapshot ID.
Total Number of Columns:	2

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
ENV_ID	NUMBER(22,6)	No	-
METRIC_SNAPSHOT_ID	CHAR(12)	No	-

Primary Key:

Key Type	Column Name
Composite	ENV_ID
	METRIC_SNAPSHOT_ID

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	F1T927P0	Unique	ENV_ID
			METRIC_SNAPSHOT_ID

M.6 F1_PROD_METRIC_SNPSHT_VAL

Purpose:	Used to store the values for the product metric snapshot.
Total Number of Columns:	4

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
EXT_PROD_METRIC	CHAR(36)	No	-
METRIC_SNAPSHOT_ID	CHAR(12)	No	-
METRIC_VALUE	VARCHAR2(254)	No	-
VERSION	NUMBER(22,5)	No	1

Primary Key:

Key Type	Column Name
Composite	EXT_PROD_METRIC
	METRIC_SNAPSHOT_ID

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	F1T928P0	Unique	EXT_PROD_METRIC
			METRIC_SNAPSHOT_ID

M.7 F1_PROD_METRIC_TYPE

Purpose:	Used to store the details of a product metric type.
Total Number of Columns:	8

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
BO_STATUS_CD	CHAR(12)	No	-
BO_XML_DATA_AREA	XMLTYPE(2000)	Yes	-
BUS_OBJ_CD	CHAR(30)	No	-
OWNER_FLG	CHAR(4)	No	-
PROD_METRIC_TYPE_CD	VARCHAR2(30)	No	-
PROD_OFFERINGS	VARCHAR2(100)	Yes	-
SNAPSHOT_BO_CD	CHAR(30)	No	-
VERSION	NUMBER(22,5)	No	1

Primary Key:

Key Type	Column Name
Simple	PROD_METRIC_TYPE_CD

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	F1C921P0	Unique	PROD_METRIC_TYPE_CD

M.8 F1_PROD_METRIC_TYPE_L

Purpose:	Used to store the description of a product metric type.
Total Number of Columns:	6

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
DESCR100	VARCHAR2(100)	No	-
DESCRLONG	VARCHAR2(4000)	Yes	-
LANGUAGE_CD	CHAR(3)	No	-
OWNER_FLG	CHAR(4)	No	-
PROD_METRIC_TYPE_CD	VARCHAR2(30)	No	-
VERSION	NUMBER(22,5)	No	1

Primary Key:

Key Type	Column Name
Composite	LANGUAGE_CD
	PROD_METRIC_TYPE_CD

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	F1C922P0	Unique	LANGUAGE_CD
			PROD_METRIC_TYPE_CD

Appendix N : Existing Tables Modified in OUAF Version 25.4

This section lists the existing tables which are modified in Oracle Utilities Application Framework Version 25.4. It indicates the columns that are newly added, dropped, or modified in these tables.

N.1 CI_BATCH_CTRL

The following table lists the columns that are newly added, modified, or dropped from the CI_BATCH_CTRL table:

Sr. No.	Column Name	Modification Type	Data Type in V4.5.0.1.3	Data Type in V25.4	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	BASE_BATCH_FLG	Newly Added	-	CHAR(4)	No	-
2.	BATCH_TEMPLATE_XFLG	Newly Added	-	VARCHAR(254)	No	-

N.2 F1_ATTACHMENT

The following table lists the columns that are newly added, modified, or dropped from the F1_ATTACHMENT table:

Sr. No.	Column Name	Modification Type	Data Type in V4.5.0.1.3	Data Type in V25.4	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	ATTCH_CONT_LOC_FLG	Newly Added	-	CHAR(4)	No	-
2.	ATTCH_FILE_REF	Newly Added	-	VARCHAR2(2000)	No	-

N.3 F1_REQ_TYPE

The following table lists the columns that are newly added, modified, or dropped from the F1_REQ_TYPE table:

Sr. No.	Column Name	Modification Type	Data Type in V4.5.0.1.3	Data Type in V25.4	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	OWNER_FLG	Newly Added	-	CHAR(4)	No	-

N.4 F1_REQ_TYPE_L

The following table lists the columns that are newly added, modified, or dropped from the F1_REQ_TYPE_L table:

Sr. No.	Column Name	Modification Type	Data Type in V4.5.0.1.3	Data Type in V25.4	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	OWNER_FLG	Newly Added	-	CHAR(4)	No	-

N.5 F1_SIBSCH_TBLS_VW

The following table lists the columns that are newly added, modified, or dropped from the F1_SIBSCH_TBLS_VW table:

Sr. No.	Column Name	Modification Type	Data Type in V4.5.0.1.3	Data Type in V25.4	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	SYSTEM_TBL_SW	Newly Added	-	CHAR(1)	No	-
2.	TBL_NAME	Newly Added	-	CHAR(30)	No	-

N.6 CI_PORTAL

The following table lists the columns that are newly added, modified, or dropped from the CI_PORTAL table:

Sr. No.	Column Name	Modification Type	Data Type in V4.5.0.1.3	Data Type in V25.4	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	PORTAL_ROLE_FLG	Newly Added	-	CHAR(4)	No	-

N.7 CI_ZONE

The following table lists the columns that are newly added, modified, or dropped from the CI_ZONE table:

Sr. No.	Column Name	Modification Type	Data Type in V4.5.0.1.3	Data Type in V25.4	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	ZONE_ROLE_FLG	Newly Added	-	CHAR(4)	No	-

Appendix O : Algorithms and Algorithm Types Dropped in OUAF Version 25.4

This section lists the algorithms and algorithm types which are dropped in Oracle Utilities Application Framework Version 25.4.

O.1 Algorithm Types

No algorithm types are dropped in Oracle Utilities Application Framework Version 25.4.

O.2 Algorithms

No algorithms are dropped in Oracle Utilities Application Framework Version 25.4.

Appendix P : Parameters Added or Removed from Batch Controls in OUAF Version 25.4

This section lists the parameters which are newly added or removed from the existing batch controls in Oracle Utilities Application Framework Version 25.4:

Batch Control	Parameters (Removed from 25.4)		Parameters (Added in 25.4)	
	Sequence Number	Parameter	Sequence Number	Parameter
F1ACCTPX	-	-	901	Email Mode
F1ACTNDX	-	-	901	Email Mode
F1ALGOMX	-	-	901	Email Mode
F1ALGTEX	-	-	901	Email Mode
F1ANALSX	-	-	901	Email Mode
F1APPSEX	-	-	901	Email Mode
F1-ARQPR	-	-	900	Email Mode
F1BATCLX	-	-	901	Email Mode
F1-BFCRL	-	-	900	Email Mode
F1-BICDD	-	-	900	Email Mode
F1-BITMD	-	-	900	Email Mode
F1BKTCGX	-	-	901	Email Mode
F1BRANEX	-	-	900	Email Mode
F1BRANSN	-	-	900	Email Mode
F1-BSFLG	-	-	900	Email Mode
F1BTANEX	-	-	900	Email Mode
F1BTANSN	-	-	900	Email Mode
F1-BTIDT	-	-	900	Email Mode
F1-BTMON	-	-	900	Email Mode
F1-BUNPR	-	-	900	Email Mode
F1BUSFGX	-	-	901	Email Mode
F1BUSFPX	-	-	901	Email Mode

Batch Control	Parameters (Removed from 25.4)		Parameters (Added in 25.4)	
	Sequence Number	Parameter	Sequence Number	Parameter
F1BUSOJX	-	-	901	Email Mode
F1BUSSCX	-	-	901	Email Mode
F1-CAGVY	-	-	900	Email Mode
F1CALENX	-	-	901	Email Mode
F1CHAREX	-	-	901	Email Mode
F1COLOTX	-	-	901	Email Mode
F1CONTEX	-	-	901	Email Mode
F1COUNYX	-	-	901	Email Mode
F1CUBEEX	-	-	901	Email Mode
F1CUBEWX	-	-	901	Email Mode
F1CURREX	-	-	901	Email Mode
F1-CVASG	-	-	900	Email Mode
F1-CVCTS	-	-	900	Email Mode
F1-CVINS	-	-	900	Email Mode
F1-CVVAL	-	-	900	Email Mode
F1-CVXML	-	-	900	Email Mode
F1DATAAX	-	-	901	Email Mode
F1DATASX	-	-	901	Email Mode
F1DISPFX	-	-	901	Email Mode
F1DISPNX	-	-	901	Email Mode
F1ENTYGX	-	-	901	Email Mode
F1ETLMLX	-	-	901	Email Mode
F1EXTLPX	-	-	901	Email Mode
F1FAACTX	-	-	901	Email Mode
F1-FCTRN	-	-	900	Email Mode
F1FIELDX	-	-	901	Email Mode
F1FILETX	-	-	901	Email Mode
F1FKREFX	-	-	901	Email Mode
F1-FKVBP	-	-	900	Email Mode

Batch Control	Parameters (Removed from 25.4)		Parameters (Added in 25.4)	
	Sequence Number	Parameter	Sequence Number	Parameter
F1FLINCX	-	-	901	Email Mode
F1-FLUSH	-	-	900	Email Mode
F1-GEEXO	-	-	901	Email Mode
F1-GEIXP	-	-	901	Email Mode
F1GEOTEX	-	-	901	Email Mode
F1-GERST	-	-	900	Email Mode
F1-GEXPI	-	-	901	Email Mode
F1-ILMIN	-	-	900	Email Mode
F1-IMCRL	-	-	900	Email Mode
F1INSIPX	-	-	901	Email Mode
F1INSTYX	-	-	901	Email Mode
F1-IPUM	-	-	900	Email Mode
F1IWSANX	-	-	901	Email Mode
F1IWSAPX	-	-	901	Email Mode
F1IWSSCX	-	-	901	Email Mode
F1JMSCTX	-	-	901	Email Mode
F1-LANG	-	-	900	Email Mode
F1LANGEX	-	-	901	Email Mode
F1-LDAP	-	-	900	Email Mode
F1-LKPIL	-	-	900	Email Mode
F1LOOKPX	-	-	901	Email Mode
F1MAINJX	-	-	901	Email Mode
F1MANCTX	-	-	901	Email Mode
F1MEENUX	-	-	901	Email Mode
F1MESS2X	-	-	901	Email Mode
F1-MGDIM	-	-	900	Email Mode
F1-MGDPR	-	-	910	Email Mode
F1-MGDPR	-	-	900	Email Mode
F1-MGOAB	-	-	900	Email Mode

Batch Control	Parameters (Removed from 25.4)		Parameters (Added in 25.4)	
	Sequence Number	Parameter	Sequence Number	Parameter
F1-MGOAP	-	-	900	Email Mode
F1-MGOPB	-	-	900	Email Mode
F1-MGOPR	-	-	900	Email Mode
F1-MGTAP	-	-	900	Email Mode
F1-MGTPR	-	-	900	Email Mode
F1MIGRNX	-	-	901	Email Mode
F1MIGRQX	-	-	901	Email Mode
F1-MIMMN	-	-	900	Email Mode
F1MK301I	-	-	900	Email Mode
F1MK301K	-	-	900	Email Mode
F1MK302I	-	-	900	Email Mode
F1MK305I	-	-	900	Email Mode
F1MKC01I	-	-	900	Email Mode
F1MKC01K	-	-	900	Email Mode
F1MKC02I	-	-	900	Email Mode
F1MKC03I	-	-	900	Email Mode
F1MKC06I	-	-	900	Email Mode
F1MKC07I	-	-	900	Email Mode
F1-MKCRL	-	-	900	Email Mode
F1-MKMSO	-	-	900	Email Mode
F1MKN01I	-	-	900	Email Mode
F1MKN01K	-	-	900	Email Mode
F1MKN02I	-	-	900	Email Mode
F1MKN03I	-	-	900	Email Mode
F1MKN04I	-	-	900	Email Mode
F1MKN05I	-	-	900	Email Mode
F1MKN08I	-	-	900	Email Mode
F1-MKPRP	-	-	900	Email Mode
F1MKT01I	-	-	900	Email Mode

Batch Control	Parameters (Removed from 25.4)		Parameters (Added in 25.4)	
	Sequence Number	Parameter	Sequence Number	Parameter
F1MKT01K	-	-	900	Email Mode
F1MKT02I	-	-	900	Email Mode
F1MKT03I	-	-	900	Email Mode
F1MKT04I	-	-	900	Email Mode
F1MKT05I	-	-	900	Email Mode
F1MKT08I	-	-	900	Email Mode
F1MKTCGX	-	-	901	Email Mode
F1MKTMNR	-	-	900	Email Mode
F1MKTMNV	-	-	900	Email Mode
F1MKTMNX	-	-	901	Email Mode
F1MKTMPX	-	-	901	Email Mode
F1MKTMTR	-	-	900	Email Mode
F1MKMTMTV	-	-	900	Email Mode
F1MKMTMTX	-	-	901	Email Mode
F1MKTPCR	-	-	900	Email Mode
F1MKTPCV	-	-	900	Email Mode
F1MKTPCX	-	-	901	Email Mode
F1MKTPPX	-	-	901	Email Mode
F1MKTPTR	-	-	900	Email Mode
F1MKTPTV	-	-	900	Email Mode
F1MKTPTX	-	-	901	Email Mode
F1-MNTPL	-	-	900	Email Mode
F1-MPECL	-	-	900	Email Mode
F1-MPEVR	-	-	900	Email Mode
F1MSTCGX	-	-	901	Email Mode
F1NAVKEYX	-	-	901	Email Mode
F1NAVOTX	-	-	901	Email Mode
F1-NDPUR	-	-	900	Email Mode
F1NTDWEX	-	-	901	Email Mode

Batch Control	Parameters (Removed from 25.4)		Parameters (Added in 25.4)	
	Sequence Number	Parameter	Sequence Number	Parameter
F1NTDWFY	-	-	901	Email Mode
F1NTUPEX	-	-	901	Email Mode
F1NTXIDX	-	-	901	Email Mode
F1-OESCR	-	-	900	Email Mode
F1-OESMN	-	-	900	Email Mode
F1-OMCRL	-	-	900	Email Mode
F1-ORCRL	-	-	900	Email Mode
F1-OUCRL	-	-	900	Email Mode
F1OUTMPX	-	-	901	Email Mode
F1-PDBEX	-	-	960	Email Mode
F1-PDBG	-	-	900	Email Mode
F1-PDUPL	-	-	900	Email Mode
F1PERFTX	-	-	901	Email Mode
F1PERFYX	-	-	901	Email Mode
F1-PFCRL	-	-	900	Email Mode
F1PHONEX	-	-	901	Email Mode
F1PORTLX	-	-	901	Email Mode
F1PROCNX	-	-	901	Email Mode
F1RDCTEX	-	-	901	Email Mode
F1REPOTX	-	-	901	Email Mode
F1REQTEX	-	-	901	Email Mode
F1-REQTY	-	-	900	Email Mode
F1REREQX	-	-	901	Email Mode
F1-REVPR	-	-	900	Email Mode
F1RPTONX	-	-	901	Email Mode
F1-SAKRQ	-	-	900	Email Mode
F1SCHEAX	-	-	901	Email Mode
F1-SCMUP	-	-	900	Email Mode
F1-SCMUP	-	-	910	Email Mode

Batch Control	Parameters (Removed from 25.4)		Parameters (Added in 25.4)	
	Sequence Number	Parameter	Sequence Number	Parameter
F1SCRITX	-	-	901	Email Mode
F1SECTEX	-	-	901	Email Mode
F1SERVEX	-	-	901	Email Mode
F1-SICRL	-	-	900	Email Mode
F1-SRCRL	-	-	900	Email Mode
F1-SRLRQ	-	-	900	Email Mode
F1-SSCRL	-	-	900	Email Mode
F1STASEX	-	-	901	Email Mode
F1-STATS	-	-	900	Email Mode
F1STATSX	-	-	901	Email Mode
F1-STCRL	-	-	900	Email Mode
F1-STKDF	-	-	900	Email Mode
F1-STKTR	-	-	900	Email Mode
F1STSRNX	-	-	901	Email Mode
F1STSSTX	-	-	901	Email Mode
F1-SUBRQ	-	-	900	Email Mode
F1SVCTKX	-	-	901	Email Mode
F1-SYNEF	-	-	900	Email Mode
F1-SYNIL	-	-	900	Email Mode
F1-SYNRQ	-	-	900	Email Mode
F1-SYSRQ	-	-	900	Email Mode
F1TABLEX	-	-	901	Email Mode
F1TAGEYX	-	-	901	Email Mode
F1-TDCLP	-	-	900	Email Mode
F1-TDCRL	-	-	900	Email Mode
F1-TDEER	-	-	900	Email Mode
F1-TDMON	-	-	900	Email Mode
F1-TDPG	-	-	900	Email Mode
F1TIMEEX	-	-	901	Email Mode

Batch Control	Parameters (Removed from 25.4)		Parameters (Added in 25.4)	
	Sequence Number	Parameter	Sequence Number	Parameter
F1TIMENX	-	-	901	Email Mode
F1TODO4X	-	-	901	Email Mode
F1TODOEX	-	-	901	Email Mode
F1TODOYX	-	-	901	Email Mode
F1TRREEX	-	-	901	Email Mode
F1UIMAPX	-	-	901	Email Mode
F1UIZO2X	-	-	901	Email Mode
F1USERPX	-	-	901	Email Mode
F1USSERX	-	-	901	Email Mode
F1WEBSTX	-	-	901	Email Mode
F1WFEVEX	-	-	901	Email Mode
F1WFMSMX	-	-	901	Email Mode
F1WFPREX	-	-	901	Email Mode
F1WFPRLX	-	-	901	Email Mode
F1WORKLX	-	-	901	Email Mode
F1XAICSX	-	-	901	Email Mode
F1XAIJCX	-	-	901	Email Mode
F1XAIJQX	-	-	901	Email Mode
F1XAIJRX	-	-	901	Email Mode
F1XAIOSX	-	-	901	Email Mode
F1XAISEX	-	-	901	Email Mode
F1XAISRX	-	-	901	Email Mode
F1ZONELX	-	-	901	Email Mode