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Upgrade Guide

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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 3.2.0.0.0 to 4.0.0.0.0	Explains how to upgrade from Oracle Revenue Management and Billing Version 3.2.0.0.0 to 4.0.0.0.0.
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 4.0.0.0.0.
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 4.0.0.0.0	Lists and describes the tables that are newly added in Oracle Revenue Management and Billing Version 4.0.0.0.0.
Appendix D	Existing Tables Modified in ORMB Version 4.0.0.0.0	Lists the existing tables and their columns that are modified in Oracle Revenue Management and Billing Version 4.0.0.0.0.

Section No.	Section Name	Description
Appendix E	Algorithms and Algorithm Types Dropped in ORMB Version 4.0.0.0.0	Lists the algorithms and algorithm types which are dropped in Oracle Revenue Management and Billing Version 4.0.0.0.0.
Appendix F	Parameters Added or Removed from Algorithm Types in ORMB Version 4.0.0.0.0	Lists the parameters which are added or removed from the algorithm types in Oracle Revenue Management and Billing Version 4.0.0.0.0.
Appendix G	Option Types Added or Removed from Feature Configurations in ORMB Version 4.0.0.0.0	Lists the option types which are added or removed from the feature configurations in Oracle Revenue Management and Billing Version 4.0.0.0.0.
Appendix H	Characteristic Types Dropped in ORMB Version 4.0.0.0.0	Lists the characteristic types which are dropped in Oracle Revenue Management and Billing Version 4.0.0.0.0.
Appendix I	Changing the DB User Password	Explains how to change the database user password.
Appendix J	ORMB V4.0.0.0.0 Rollup Packs	Lists the rollup packs available for Oracle Revenue Management and Billing Version 4.0.0.0.0. It also explains how to apply a rollup pack on the application environment and database.
Appendix K	New Tables Added in OUAF Version 4.4.0.3.0	Lists and describes the tables that are newly added in Oracle Utilities Application Framework Version 4.4.0.3.0.
Appendix L	Existing Tables Modified in OUAF Version 4.4.0.3.0	Lists the existing tables and their columns that are modified in Oracle Utilities Application Framework Version 4.4.0.3.0.
Appendix M	SQL Statements for 3.2.0.0.0 to 4.0.0.0.0 Data Migration	Lists and describes the query which is used for migrating data from Oracle Revenue Management and Billing Version 3.2.0.0.0 to 4.0.0.0.0.

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
OUIAF	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 refer to the following documents for more information:

Document Name	Description
<i>Oracle Revenue Management and Billing Version 4.0.0.0.0 Release Notes</i>	Provides a brief description about the new features, enhancements, and UI level changes introduced in the current release. The new features and enhancements are classified under three distinct heads – Generic (which is intended for both domains), Financial Services, and Health Insurance. It also contains high-level information about the supported platforms, framework upgrade, supported upgrades, and documentation updates. In addition, it contains a list of discontinued features, planned deprecation notices, customer bugs fixed or forward ported and known issues in the current release.
<i>Oracle 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 2.3.0.2.0 or any later version to the current release. It also highlights any known issues during direct database upgrade and how to handle these issues in the database.

Change Log

Revision	Last Update	Updated Section	Comments
22.1	29-Jun-2022	Section 2.5.2: Applying the Release-Specific Patches	Added Information
		Section 2.6: Upgrading the ORMB Database	Added Information
		Section 2.6.2: Applying the Release-Specific Patches	Added Information
		Appendix J: ORMB V4.0.0.0.0 Rollup Packs	Added Information
22.2	17-Nov-2022	Section 2.6.1: Installing ORMB Version 4.0.0.0.0	Updated Information

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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.

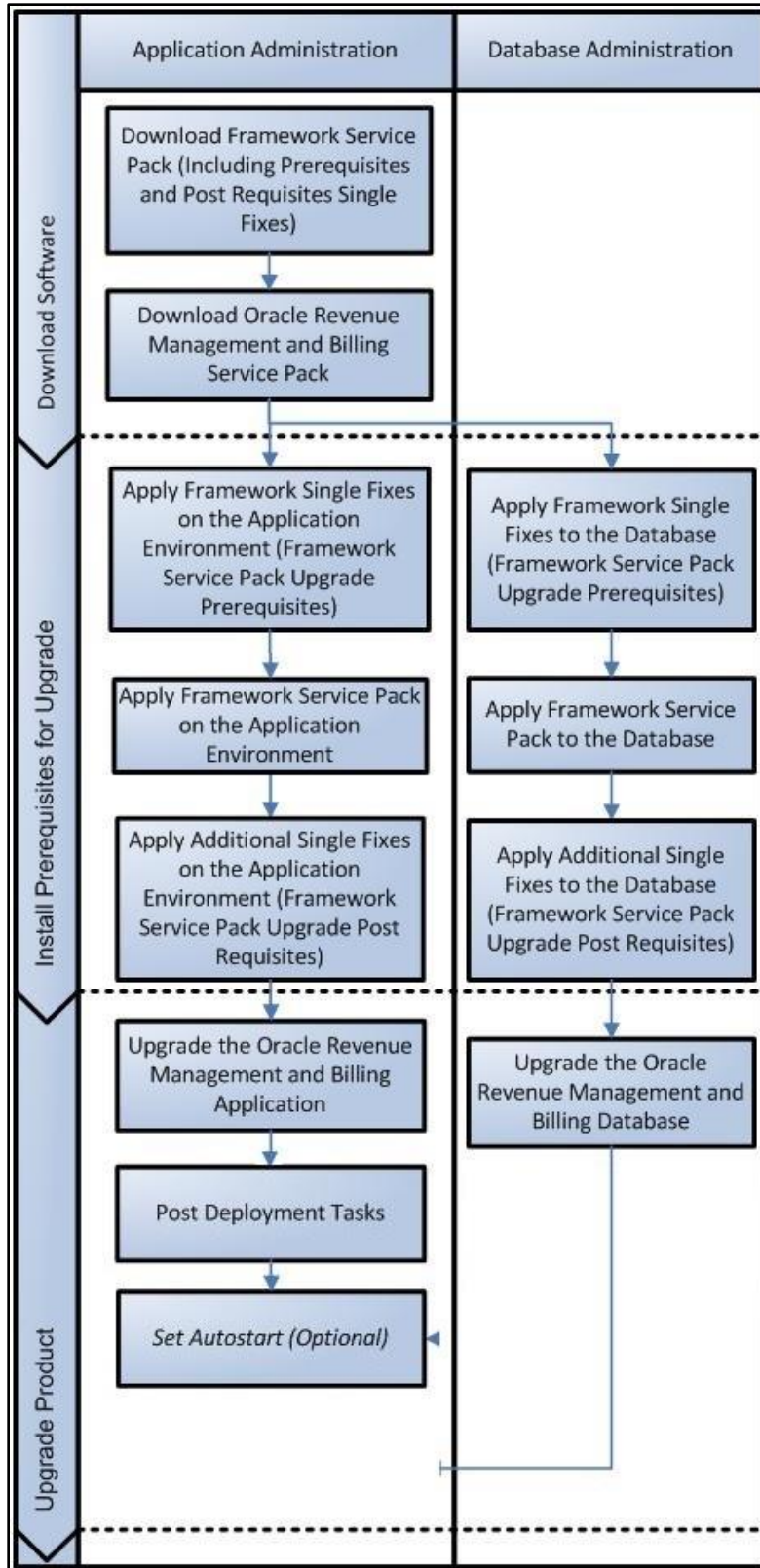


Figure 1: Upgrade Process

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, refer to 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 3.2.0.0.0 to 4.0.0.0.0

2. Upgrading from ORMB Version 3.2.0.0.0 to 4.0.0.0.0

This section explains how to upgrade from Oracle Revenue Management and Billing Version 3.2.0.0.0 to 4.0.0.0.0. The high-level steps include:

1. [Downloading the ORMB Packages and Patches](#)
2. [Upgrading Framework on the Database](#)
3. [Installing Framework on the Application Environment](#)
4. [Installing the Oracle Revenue Management and Billing Application](#)
5. [Upgrading the Oracle Revenue Management and Billing 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 4.0.0.0.0, 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 3.2.0.0.0 will not happen successfully.
- Transactions which are uploaded using 3.2.0.0.0 must not be in the **Initial Product Determined (INPD)** status. They can be in the **Uploaded (UPLD)**, **Invalid (INVL)**, **Error (EROR)**, **Completed (COMP)**, or **Cancelled (CNCL)** status.
- Equal to (=) or tilde (~) symbol is not used in any existing 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.

2.2 Downloading the ORMB Packages and Patches

For upgrading from Oracle Revenue Management and Billing Version 3.2.0.0.0 to 4.0.0.0.0, you must download the following packages from the Oracle Revenue Management and Billing 4.0.0.0.0 media pack which is available on [Oracle Software Delivery Cloud](#):

- Oracle Utilities Application Framework V4.4.0.3.0 Single Fix Prerequisite Rollup for RMB V4.0.0.0.0
- Oracle Revenue Management and Billing V4.0.0.0.0 Multiplatform

- Oracle Revenue Management and Billing V4.0.0.0.0 Oracle Database

You must also download the following package from the Oracle Utilities Customer Care and Billing 2.8.0.0.0 media pack which is available on [Oracle Software Delivery Cloud](#):

- Oracle Utilities Application Framework 4.4.0.3.0

In addition, you must download the following patch from [My Oracle Support](#):

- UPGRADE FROM 3.2.0.0.0 TO 4.0.0.0.0 (Patch Number: 34203584)

The downloaded files will be in the ZIP format.

2.3 Upgrading Framework on the Database

While upgrading from Oracle Revenue Management and Billing Version 3.2.0.0.0 to 4.0.0.0.0, you need to install the following on the database:

1. [Rollup Pack for Oracle Utilities Application Framework \(OUAF\) Version 4.4.0.3.0](#)

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

2.3.1 Installing Rollup Pack for OUAF Version 4.4.0.3.0

You can install the rollup pack for Oracle Utilities Application Framework Version 4.4.0.3.0 from a Windows machine or UNIX Standalone server. To install the rollup pack for Oracle Utilities Application Framework (OUAF) Version 4.4.0.3.0 on the database:

1. Login to the database server using the administrator's credentials.
2. Copy the **Oracle Utilities Application Framework V4.4.0.3.0 Single Fix Prerequisite Rollup for RMB V4.0.0.0.0** package to the `TEMPDIR` folder using the following command:

AIX, 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:

AIX, Linux:

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

Windows:

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

4. Unzip the **Oracle Utilities Application Framework V4.4.0.3.0 Single Fix Prerequisite Rollup for RMB V4.0.0.0.0** package using the following command:

AIX, 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-V40000-FW-PREREQ-MultiPlatform.jar` file.

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

AIX, Linux:

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

Windows:

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

6. Decompress the JAR file using the following command:

```
jar -xvf ORMB-V40000-FW-PREREQ-MultiPlatform.jar
```

A sub-folder named `FW-V4.4.0.3.0-Rollup` is extracted. It contains the following two sub-folders:

- `Application`
- `Database`

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

AIX, Linux:

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

Windows:

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

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

```
mkdir dbpatch_tools
```

9. Copy the `db_patch_standalone.jar` file to the `dbpatch_tools` folder.

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

AIX, Linux:

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

Windows:

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

11. 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`

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

AIX, Linux:

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

Windows:

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

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

AIX, Linux:

```
cd <DESTINATION_FOLDER_1>/FW-V4.4.0.3.0-Rollup/Database
```

Windows:

```
cd <DESTINATION_FOLDER_1>\FW-V4.4.0.3.0-Rollup\Database
```

Note: The `<DESTINATION_FOLDER_1>` folder is the location where you have extracted the contents of the `ORMB-V40000-FW-PREREQ-MultiPlatform.jar` file.

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

AIX, Linux:

```
ouafDatabasePatch.sh
```

Windows:

```
ouafDatabasePatch.cmd
```

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:DBPORT:ORACLE_SID>

Note: If you have changed the database user password, you will not be able to install the rollup pack for Oracle Utilities Application Framework Version 4.4.0.3.0. You will have to first change the database user password. For more information on how to change the database user password, refer to [Appendix I: Changing the DB User Password](#).

15. Enter the required parameter values. The following message appears in the command line:

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

16. 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 4.4.0.3.0](#)
2. [Rollup Pack for Oracle Utilities Application Framework \(OUAF\) Version 4.4.0.3.0](#)

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 4.4.0.3.0

To install Oracle Utilities Application Framework (OUAF) Version 4.4.0.3.0 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 4.4.0.3.0** package to the `TEMPDIR` folder using the following command:

AIX, 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:

AIX, Linux:

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

Windows:

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

5. Unzip the **Oracle Utilities Application Framework 4.4.0.3.0** package using the following command:

AIX, 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 FW-V4.4.0.3.0-MultiPlatform.jar file.

6. Decompress the FW-V4.4.0.3.0-MultiPlatform.jar file using the following command:

```
jar -xvf FW-V4.4.0.3.0-MultiPlatform.jar
```

The contents of the JAR file include a folder named FW-V4.4.0.3.0-SP3.

7. 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, refer to the **Installing Application Server Prerequisite Software** section in the *Oracle Revenue Management and Billing Installation Guide*.

8. Set the Java_Home path using the following command:

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

Note:

The <Java_Home> is the location where you have installed Java 1.8.

The above command is applicable only for AIX and Linux platforms.

9. Change to the FW-V4.4.0.3.0-SP3 folder using the following command:

AIX, Linux:

```
cd <DESTINATION_FOLDER_1>/FW-V4.4.0.3.0-SP3
```

Windows:

```
cd <DESTINATION_FOLDER_1>\FW-V4.4.0.3.0-SP3
```

Note: The <DESTINATION_FOLDER_1> folder is the location where you have extracted the contents of the FW-V4.4.0.3.0-MultiPlatform.jar file.

10. Execute the install utility using the following command:

AIX, Linux:

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

Windows:

```
install.cmd
```

The following message appears in the command line:

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

11. 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

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.

12. 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.
13. 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, refer to the **Environment ID, Roles, Third Party Software Configuration** section in the *Oracle Revenue Management and Billing Installation Guide*.

14. 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.
15. 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, refer to the **Keystore Options** section in the *Oracle Revenue Management and Billing Installation Guide*.

16. 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.
17. Specify the required value for menu options, and then press **Enter**. The specified values are stored in the `$SPLEBASE/etc/ENVIRON.INI` file.

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, refer to the **Environment Installation Options** section in the *Oracle Revenue Management and Billing Installation Guide*.

18. 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
19. Type **1**, and then press **Enter**. The utility prompts you to enter the environment description.
20. Specify the environment description, and then press **Enter**. The specified values are stored in the `$SPLEBASE/etc/ENVIRON.INI` file.

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

21. 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.
22. 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, refer to the **Business Application Server Configuration** section in the *Oracle Revenue Management and Billing Installation Guide*.

23. 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.
24. 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, refer to the **Web Application Server Configuration** section in the *Oracle Revenue Management and Billing Installation Guide*.

25. 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.
26. 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, refer to the **Database Configuration** section in the *Oracle Revenue Management and Billing Installation Guide*.

27. 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.
28. 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, refer to the **General Configuration Options** section in the *Oracle Revenue Management and Billing Installation Guide*.

29. 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.
30. 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, refer to the **OUAF TrustStore Options** section in the *Oracle Revenue Management and Billing Installation Guide*.

31. Type **P** to proceed with the installation. The Oracle Utilities Application Framework Version 4.4.0.3.0 is installed on the application server.

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:

- `$PATH`
- `$SPLEBASE (%SPLEBASE%)` - Indicates the `<SPDIR>/<SPLENVIRON>` folder
- `$SPLOUTPUT (%SPLOUTPUT%)` - Indicates the `<SPDIROUT>/<SPLENVIRON>` folder
- `$SPLENVIRON (%SPLENVIRON%)` - Indicates the environment name

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

AIX, 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 4.4.0.3.0

To install the rollup pack for Oracle Utilities Application Framework Version 4.4.0.3.0 on the application environment:

1. Copy the **Oracle Utilities Application Framework V4.4.0.3.0 Single Fix Prerequisite Rollup for RMB V4.0.0.0.0** package to the `TEMPDIR` folder using the following command:

AIX, 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:

AIX, Linux:

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

Windows:

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

3. Unzip the **Oracle Utilities Application Framework V4.4.0.3.0 Single Fix Prerequisite Rollup for RMB V4.0.0.0.0** package using the following command:

AIX, 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-V40000-FW-PREREQ-MultiPlatform.jar` file.

4. Decompress the JAR file using the following command:

```
jar -xvf ORMB-V40000-FW-PREREQ-MultiPlatform.jar
```

A sub-folder named `FW-V4.4.0.3.0-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:

AIX, Linux:

```
$(SPL)BASE/bin/splenv.sh -e $(SPL)ENVIRON
```

Windows:

```
$(SPL)BASE%\bin\splenv.cmd -e $(SPL)ENVIRON%
```

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

AIX, Linux:

```
cd <DESTINATION_FOLDER_2>/FW-V4.4.0.3.0-Rollup/Application
```

Windows:

```
cd <DESTINATION_FOLDER_2>\FW-V4.4.0.3.0-Rollup\Application
```

Note: The `<DESTINATION_FOLDER_2>` folder is the location where you have extracted the contents of the `ORMB-V40000-FW-PREREQ-MultiPlatform.jar` file.

7. Execute the `installSFgroup` utility using the following command:

AIX, 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 4.0.0.0.0](#)
2. [Oracle Revenue Management and Billing \(ORMB\) Version 4.0.0.0.0 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, refer to the [Accessing the ORMB Application](#) section.

2.5.1 Installing ORMB Version 4.0.0.0.0

To install Oracle Revenue Management and Billing (ORMB) Version 4.0.0.0.0 on the application environment:

1. Login to the application server using the administrator's credentials.
2. Copy the **Oracle Revenue Management and Billing V4.0.0.0.0 Multiplatform** package to the `TEMPDIR` folder using the following command:

AIX, 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:

AIX, Linux:

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

Windows:

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

4. Unzip the **Oracle Revenue Management and Billing V4.0.0.0.0 Multiplatform** package using the following command:

AIX, 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.V4.0.0.0.0` folder.

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

AIX, Linux:

```
$(SPLBASE)/bin/splenv.sh -e $(SPLENVIRON)
```

Windows:

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

6. Stop the managed server where the application is hosted using the Oracle WebLogic Console.
7. Change to the `ORMB.V4.0.0.0.0` folder using the following command:

AIX, Linux:

```
cd <DESTINATION_FOLDER_3>/ORMB.V4.0.0.0.0
```

Windows:

```
cd <DESTINATION_FOLDER_3>\ORMB.V4.0.0.0.0
```

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

AIX, 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**.

Note:

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

AIX, 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, refer to 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 4.0.0.0.0, 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, refer to the *ORMB V4.0.0.0.0 Patch Guide (Document ID: 2878927.1)* 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, refer to [Appendix J: ORMB V4.0.0.0.0 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:

AIX, 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:

AIX, 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 V4.0.0.0.0-<PATCH_NUMBER>_MultiPlatform folder.

4. Change to the V4.0.0.0.0-<PATCH_NUMBER>_MultiPlatform folder using the following command:

AIX, Linux:

```
cd <DESTINATION_FOLDER_5>/V4.0.0.0.0-<PATCH_NUMBER>_MultiPlatform
```

Windows:

```
cd <DESTINATION_FOLDER_5>\V4.0.0.0.0-<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.V4.0.0.0.0-<PATCH_NUMBER>.jar and a directory named database.

5. Decompress the CCB.V4.0.0.0.0-<PATCH_NUMBER>.jar file using the following command:

```
jar -xvf CCB.V4.0.0.0.0-<PATCH_NUMBER>.jar
```

The contents include two sub-folders - META-INF and CCB.V4.0.0.0.0-<PATCH_NUMBER>.

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

AIX, 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.

7. Change to the CCB.V4.0.0.0.0-<PATCH_NUMBER> folder using the following command:

AIX, Linux:

```
cd <DESTINATION_FOLDER_5>/V4.0.0.0.0-<PATCH_NUMBER>_MultiPlatform/CCB.V4.0.0.0.0-<PATCH_NUMBER>
```

Windows:

```
cd <DESTINATION_FOLDER_5>\V4.0.0.0.0-<PATCH_NUMBER>_MultiPlatform\CCB.V4.0.0.0.0-<PATCH_NUMBER>
```

8. Install the patch using the following command:

AIX, Linux:

```
./installSF.sh
```

Windows:

```
installSF.cmd
```

9. 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	https://<hostname>:<WebLogic_Port_Number>/ouaf/loginPage.jsp

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 3.2.0.0.0 to 4.0.0.0.0, you need to install the following on the database:

1. [Oracle Revenue Management and Billing \(ORMB\) Version 4.0.0.0.0](#)
2. [Oracle Revenue Management and Billing \(ORMB\) Version 4.0.0.0.0 Post Requisite Patches](#)

Note:

To view the list of patches that you need to apply on the database, refer to the *ORMB V4.0.0.0.0 Patch Guide (Document ID: 2878927.1)* 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, refer to [Appendix J: ORMB V4.0.0.0.0 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.

Pre-requisites:

Before installing Oracle Revenue Management and Billing Version 4.0.0.0.0 on the database, you need to set the **MAX_STRING_SIZE** parameter to **EXTENDED**. If you have a non-container database, you need to perform the following steps to set the **MAX_STRING_SIZE** parameter to **EXTENDED**:

1. Set the `ORACLE_HOME` and `ORACLE_SID` environment variables.

Note: You need to connect as system administrator while executing the below steps.

2. Shutdown the target database using the following command:

```
shutdown immediate
```

3. Start the database in the Upgrade mode using the following command:

```
startup upgrade
```

4. Set the `MAX_STRING_SIZE` parameter to `EXTENDED` using the following command:

```
alter system set max_string_size=extended scope=both;
```

5. Execute the `utl32k.sql` file using the following command:

```
@?/rdbms/admin/utl32k.sql;
```

6. Restart the database in the Normal mode using the following commands:

```
shutdown immediate
```

```
startup
```

However, if you have a container database, you need to perform the following steps to set the `MAX_STRING_SIZE` parameter to `EXTENDED`:

1. Set the `ORACLE_HOME` and `ORACLE_SID` environment variables.

Note: You need to connect as system administrator while executing the below steps.

2. Set the `MAX_STRING_SIZE` parameter to `EXTENDED` using the following command:

```
alter system set max_string_size=extended scope=spfile;
```

3. Start all pluggable databases in the Upgrade mode using the following command:

```
shutdown immediate
```

```
startup upgrade
```

```
alter pluggable database all open upgrade;
```

```
exit
```

4. Create the `utl32k_cdb_pdb_output` folder to store the log files using the following command:

```
mkdir /scratch/mydir/utl32k_cdb_pdb_output
```

5. Execute the `utl32k.sql` from the `catcon.pl` file for all pluggable databases using the following command:

```
cd $ORACLE_HOME/rdbms/admin
```

```
$ORACLE_HOME/perl/bin/perl $ORACLE_HOME/rdbms/admin/catcon.pl -u
```

```
SYS -d $ORACLE_HOME/rdbms/admin -l
```

```
'/scratch/mydir/utl32k_cdb_pdb_output' -b
```

```
utl32k_cdb_pdb_output utl32k.sql
```

6. Restart the database in the Normal mode using the following commands:

```
shutdown immediate
```

```
startup
```

```
alter pluggable database all open read write;
```

2.6.1 Installing ORMB Version 4.0.0.0.0

To install Oracle Revenue Management and Billing (ORMB) Version 4.0.0.0.0:

1. Login to the database server using the administrator's credentials.

2. Create a temporary folder (for example, `TEMPDIR`) on the database server using the following command:

```
mkdir TEMPDIR
```

3. Copy the **Oracle Revenue Management and Billing V4.0.0.0 Oracle Database** package to the `TEMPDIR` folder using the following command:

AIX, 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:

AIX, Linux:

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

Windows:

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

5. Unzip the **Oracle Revenue Management and Billing V4.0.0.0 Oracle Database** package using the following command:

AIX, 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-folders:

- FW
- RMB

Note:

There might be situations when you do not want to recreate one or more table indexes. You can skip the recreation process of one or more table indexes by adding the following line in the `<DESTINATION_FOLDER_1>/RMB/Upgrade/Oracle/Install-Upgrade/CDXSchUpg.inp` file:

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

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

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

AIX, 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 8.0 is installed.

7. Set the JAR_PATH environment variable using the following command:

AIX, Linux:

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

Note: The above command is applicable only for AIX and Linux platforms.

8. Set the CLASS_PATH environment variable using the following command:

AIX, Linux:

```
export CLASS_PATH=$JAR_PATH/commons-cli-1.4-
c12260c.jar:$JAR_PATH/commons-codec-1.15.jar:$JAR_PATH/commons-
collections-3.2.2.jar:$JAR_PATH/jackson-annotations-
2.12.2.jar:$JAR_PATH/jackson-core-2.12.2.jar:$JAR_PATH/jackson-
databind-2.12.2.jar:$JAR_PATH/log4j-api-
2.17.1.jar:$JAR_PATH/log4j-core-2.17.1.jar:$JAR_PATH/ojdbc8-
19.12.0.0.0.jar:$JAR_PATH/spl-oradbi-4.4.0.3.0.jar:$JAR_PATH/spl-
shared-4.4.0.3.0.jar
```

Windows:

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

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

AIX, Linux:

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

Windows:

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

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

AIX, Linux:

```
$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
```

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
```

The following message appears in the command line:

```
Ready to upgrade the target database from V3.2.0.0.0 to
V4.0.0.0.0, do you want to continue (Y/N)?
```

11. 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 4.0.0.0, you need to apply all patches listed in the *ORMB V4.0.0.0 Patch Guide (Document ID: 2878927.1)*. 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:

AIX, 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:

AIX, 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 V4.0.0.0-<PATCH_NUMBER>_MultiPlatform folder.

4. Change to the V4.0.0.0-<PATCH_NUMBER>_MultiPlatform folder using the following command:

AIX, Linux:

```
cd <DESTINATION_FOLDER_4>/V4.0.0.0-<PATCH_NUMBER>_MultiPlatform
```

Windows:

```
cd <DESTINATION_FOLDER_4>\V4.0.0.0-<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.V4.0.0.0.0-<PATCH_NUMBER>.jar` and a folder named `database`.

5. Change to the `ORACLE` folder using the following command:

AIX, Linux:

```
cd database/ORACLE
```

Windows:

```
cd database\ORACLE
```

The contents include a zip file named `CDXPatch`.

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

AIX, 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>`.

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

Windows:

```
ouafDatabasePatch.cmd
```

AIX, Linux:

```
ouafDatabasePatch.sh
```

2.7 Migrating Data

Once you upgrade the database, you can migrate the data from Oracle Revenue Management and Billing Version 3.2.0.0.0 to 4.0.0.0.0 using the `PostProcessingScript` query which is available in the **UPGRADE FROM 3.2.0.0.0 TO 4.0.0.0.0** patch.

To migrate the data from ORMB Version 3.2.0.0.0 to 4.0.0.0.0:

1. Copy the **UPGRADE FROM 3.2.0.0.0 TO 4.0.0.0.0** patch to the `TEMPDIR` folder using the following command:

AIX, 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:

AIX, Linux:

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

Windows:

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

3. Unzip the **UPGRADE FROM 3.2.0.0.0 TO 4.0.0.0.0** patch using the following command:

AIX, Linux:

```
unzip <filename>.zip -d <PATH>/<DESTINATION_FOLDER_6>
```

Windows:

```
unzip <filename>.zip -d <PATH>\<DESTINATION_FOLDER_6>
```

The contents of the zip file are extracted in the `<DESTINATION_FOLDER_6>` folder. The contents include two files - `README.txt` and `deploy.zip`.

4. Unzip the `deploy.zip` file using the following command:

AIX, Linux:

```
unzip <DESTINATION_FOLDER_6>/deploy.zip -d  
<PATH>/<DESTINATION_FOLDER_7>
```

Windows:

```
unzip <DESTINATION_FOLDER_6>\deploy.zip -d  
<PATH>\<DESTINATION_FOLDER_7>
```

The contents of the zip file are extracted in the `<DESTINATION_FOLDER_7>` folder. The contents include a folder named `deploy`.

5. Change to the `deploy` folder using the following command:

```
cd <DESTINATION_FOLDER_7>\deploy
```

The contents include a folder named `Migration_From_V3.2.0.0.0_To_4.0.0.0.0`. This folder contains one file named `PostProcessingScript.sql`.

6. Change to the `Migration_From_V3.2.0.0.0_To_4.0.0.0.0` folder using the following command:

```
cd  
<DESTINATION_FOLDER_7>\deploy\Migration_From_V3.2.0.0.0_To_4.0.0.  
0.0
```

7. Connect to the ORMB database using a utility named SQL*Plus and the administrator's (for example, `CISADM`) credentials.

8. Execute the following query from the `Migration_From_V3.2.0.0.0_To_4.0.0.0.0` folder:

```
PostProcessingScript.sql
```

Note: For more information about the query, refer to the [PostProcessingScript.sql](#) section in [Appendix M: SQL Statements for 3.2.0.0.0 to 4.0.0.0.0 Data Migration](#).

3. Additional Tasks

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

1. [Generating the Application Viewer](#)
2. [Starting the Thread Pool Worker](#)
3. [Building Javadoc Index](#)

3.1 Generating the Application Viewer

Once you upgrade the application, you need to regenerate the application viewer. To regenerate the application viewer:

1. Login to the application server using the administrator's credentials.
2. Initialize the application environment (on which you want to regenerate the application viewer) using the following command:

AIX, 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 `%SPLEBASE%` is the name of the application environment for which you want to set the environment variables.

3. Set the `ANT_OPTS` environment variable using the following command:

Windows:

```
Set ANT_OPTS= -Xms512m -Xmx1024m -XX:PermSize=256M
```

Note: This command helps to process some tasks which require more memory. This command is only applicable for Windows and not for Linux machine.

4. Execute the `genappvieweritems` utility using the following command:

AIX, Linux:

```
$SPLEBASE/bin/genappvieweritems.sh
```

Windows:

```
%SPLEBASE%\bin\genappvieweritems.cmd
```

If the application viewer is generated successfully, the response code is set to 0. However, if you get a response code other than 0, it means an error has occurred while generating the application viewer. A log file is created in the `$SPLEBASE/logs` folder.

5. Execute the `initialSetup` utility using the following command:

AIX, Linux:

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


Windows:

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

Where, `$SPLEBASE` or `%SPLEBASE%` is the path where the application environment is installed. The `initialSetup` utility updates the configuration files including the WAR files on the system.

3.2 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:

AIX, Linux:

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

Windows:

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

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

3.3 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:

AIX, Linux:

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

Windows:

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

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

Appendix A : Known Issues

To view a list of known issues in the current release, refer to the *Oracle Revenue Management and Billing Version 4.0.0.0 Release Notes*.

Appendix B : Third Party Software Upgrade

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

Appendix C : New Tables Added in ORMB Version 4.0.0.0

This section lists and describes the tables that are newly added in Oracle Revenue Management and Billing Version 4.0.0.0.

C.1 C1_PRS_EXIST_PER_PER

Purpose:	Used to store the relationship details of a prospect person and existing person.
Total Number of Columns:	11

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
END_DT	DATE	Yes	-
FINAN_REL_SW	CHAR(1)	No	'N'
IS_PERID1_PRS_SW	CHAR(1)	Yes	-
IS_PERID2_PRS_SW	CHAR(1)	Yes	-
PER_ID1	CHAR(10)	No	-
PER_ID2	CHAR(10)	No	-
PER_REL_TYPE_CD	CHAR(8)	No	-
PRS_EXIST_ID	CHAR(12)	No	-
PRS_PER_ID	CHAR(10)	No	-
START_DT	DATE	No	-
VERSION	NUMBER(5,0)	No	1

Primary Key:

Key Type	Column Name
Simple	PRS_EXIST_ID

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM552P0	Unique	PRS_EXIST_ID

C.2 C1_PRS_EXIST_PER_PER_CHAR

Purpose:	Used to store the characteristics for a prospect person and existing person relationship.
Total Number of Columns:	12

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
ADHOC_CHAR_VAL	VARCHAR2(254)	No	-
CHAR_TYPE_CD	CHAR(8)	No	-
CHAR_VAL	CHAR(16)	No	-
CHAR_VAL_FK1	VARCHAR2(50)	No	-
CHAR_VAL_FK2	VARCHAR2(50)	No	-
CHAR_VAL_FK3	VARCHAR2(50)	No	-
CHAR_VAL_FK4	VARCHAR2(50)	No	-
CHAR_VAL_FK5	VARCHAR2(50)	No	-
EFFDT	DATE	No	-
PRS_EXIST_ID	CHAR(12)	No	-
SRCH_CHAR_VAL	VARCHAR2(50)	No	-
VERSION	NUMBER(5,0)	No	-

Primary Key:

Key Type	Column Name
Composite	PRS_EXIST_ID
	CHAR_TYPE_CD
	EFFDT

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM554P0	Unique	PRS_EXIST_ID
			CHAR_TYPE_CD
			EFFDT

C.3 C1_PRS_EXIST_PER_PER_K

Purpose:	Used to store the prospect person and existing person relationship ID.
Total Number of Columns:	2

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
PRS_EXIST_ID	CHAR(12)	No	-
ENV_ID	NUMBER(6,0)	No	-

Primary Key:

Key Type	Column Name
Composite	PRS_EXIST_ID
	ENV_ID

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM553P0	Unique	PRS_EXIST_ID
			ENV_ID

C.4 CI_TC_CHAR

Purpose:	Used to store the characteristics for a terms and conditions.
Total Number of Columns:	12

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
ADHOC_CHAR_VAL	VARCHAR2(254)	No	''
CHAR_TYPE_CD	CHAR(8)	No	-
CHAR_VAL	CHAR(16)	No	''
CHAR_VAL_FK1	VARCHAR2(50)	No	''
CHAR_VAL_FK2	VARCHAR2(50)	No	''
CHAR_VAL_FK3	VARCHAR2(50)	No	''

Column Name	Data Type	Nullable (Yes or No)	Default Value
CHAR_VAL_FK4	VARCHAR2(50)	No	''
CHAR_VAL_FK5	VARCHAR2(50)	No	''
EFFDT	DATE	No	-
SRCH_CHAR_VAL	VARCHAR2(50)	No	''
TC_TYPE_CD	CHAR(12)	No	-
VERSION	NUMBER(5,0)	No	1

Primary Key:

Key Type	Column Name
Composite	TC_TYPE_CD
	CHAR_TYPE_CD
	EFFDT

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM760P0	Unique	TC_TYPE_CD
			CHAR_TYPE_CD
			EFFDT

Appendix D : Existing Tables Modified in ORMB Version 4.0.0.0.0

This section lists the existing tables which are modified in Oracle Revenue Management and Billing Version 4.0.0.0.0. It indicates the columns that are newly added, dropped, or modified in these tables.

D.1 C1_BILL_ANOMALY_REQUEST

The following table lists the columns that are newly added, modified, or dropped in the C1_BILL_ANOMALY_REQUEST table:

Sr. No.	Column Name	Modification Type	Data Type in V3.2.0.0.0	Data Type in V4.0.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	WIN_START_DT	Newly Added	-	DATE	No	-

D.2 C1_BSEG_ANOMALY_REQUEST

The following table lists the columns that are newly added, modified, or dropped in the C1_BSEG_ANOMALY_REQUEST table:

Sr. No.	Column Name	Modification Type	Data Type in V3.2.0.0.0	Data Type in V4.0.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	WIN_START_DT	Newly Added	-	DATE	No	-

D.3 C1_BUS_RULE_REF_WO

The following table lists the columns that are newly added, modified, or dropped in the C1_BUS_RULE_REF_WO table:

Sr. No.	Column Name	Modification Type	Data Type in V3.2.0.0.0	Data Type in V4.0.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	BUS_RULE_ID	Newly Added	-	CHAR(15)	No	-
2.	REF_THR_AMT	Newly Added	-	NUMBER(15,2)	No	-

D.4 C1_DBMS_JOB_DTLS

The following table lists the columns that are newly added, modified, or dropped in the C1_DBMS_JOB_DTLS table:

Sr. No.	Column Name	Modification Type	Data Type in V3.2.0.0.0	Data Type in V4.0.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	LOG_ID	Newly Added	-	NUMBER(10)	No	-
2.	SUBMIT_USER_ID	Newly Added	-	CHAR(8)	No	-

D.5 C1_MODEL

The following table lists the columns that are newly added, modified, or dropped in the C1_MODEL table:

Sr. No.	Column Name	Modification Type	Data Type in V3.2.0.0.0	Data Type in V4.0.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	DEAL_VER_CRE_FLG	Newly Added	-	CHAR(4)	No	-

D.6 C1_OFFSET_REQ_DTLS

The following table lists the columns that are newly added, modified, or dropped in the C1_OFFSET_REQ_DTLS table:

Sr. No.	Column Name	Modification Type	Data Type in V3.2.0.0.0	Data Type in V4.0.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	CREDIT_BILL_SW	Newly Added	-	CHAR(1)	No	-

D.7 C1_OFFSET_REQ_TYPE

The following table lists the columns that are newly added, modified, or dropped in the C1_OFFSET_REQ_TYPE table:

Sr. No.	Column Name	Modification Type	Data Type in V3.2.0.0.0	Data Type in V4.0.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	BILL_LINE_ITEMS_SW	Newly Added	-	CHAR(1)	No	-

D.8 C1_PAY_DETAILS

The following table lists the columns that are newly added, modified, or dropped in the C1_PAY_DETAILS table:

Sr. No.	Column Name	Modification Type	Data Type in V3.2.0.0.0	Data Type in V4.0.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	PY_CANCEL_SW	Newly Added	-	CHAR(1)	No	-
2.	TRANSFER_PRIORITY	Newly Added	-	NUMBER(5)	No	-

D.9 C1_PAY_MATCH_TYPE

The following table lists the columns that are newly added, modified, or dropped in the C1_PAY_MATCH_TYPE table:

Sr. No.	Column Name	Modification Type	Data Type in V3.2.0.0.0	Data Type in V4.0.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	REL_PAY_MATCH_TYPE_ID	Newly Added	-	CHAR(12)	No	-

D.10 C1_PAY_REQUEST_TYPE

The following table lists the columns that are newly added, modified, or dropped in the C1_PAY_REQUEST_TYPE table:

Sr. No.	Column Name	Modification Type	Data Type in V3.2.0.0.0	Data Type in V4.0.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	PAYMENT_DEFER_COUNT	Newly Added	-	NUMBER(5)	No	-

D.11 C1_PRS_ACCT

The following table lists the columns that are newly added, modified, or dropped in the C1_PRS_ACCT table:

Sr. No.	Column Name	Modification Type	Data Type in V3.2.0.0.0	Data Type in V4.0.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	EXIST_PRS_ACCT_ID	Newly Added	-	CHAR(10)	No	-

D.12 C1_PRS_ACCT_PER

The following table lists the columns that are newly added, modified, or dropped in the C1_PRS_ACCT_PER table:

Sr. No.	Column Name	Modification Type	Data Type in V3.2.0.0.0	Data Type in V4.0.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	IS_PRS_SW	Newly Added	-	CHAR(1)	No	-

D.13 C1_PRS_PER

The following table lists the columns that are newly added, modified, or dropped in the C1_PRS_PER table:

Sr. No.	Column Name	Modification Type	Data Type in V3.2.0.0.0	Data Type in V4.0.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	EXIST_PRS_PER_ID	Newly Added	-	CHAR(10)	No	-

D.14 C1_PRS_PER_PER

The following table lists the columns that are newly added, modified, or dropped in the C1_PRS_PER_PER table:

Sr. No.	Column Name	Modification Type	Data Type in V3.2.0.0.0	Data Type in V4.0.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	IS_PERID2_PRS_SW	Newly Added	-	CHAR(1)	No	-
2.	IS_PERID1_PRS_SW	Newly Added	-	CHAR(1)	No	-

D.15 C1_REFWO_INS

The following table lists the columns that are newly added, modified, or dropped in the C1_REFWO_INS table:

Sr. No.	Column Name	Modification Type	Data Type in V3.2.0.0.0	Data Type in V4.0.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	REASON_CD	Newly Added	-	VARCHAR2(20)	No	-
2.	WAIT_DT	Newly Added	-	DATE	No	-

D.16 CI_TRL_BILL

The following table lists the columns that are newly added, modified, or dropped in the CI_TRL_BILL table:

Sr. No.	Column Name	Modification Type	Data Type in V3.2.0.0.0	Data Type in V4.0.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	ILM_ARCH_SW	Newly Added	-	CHAR(1)	No	-
2.	ILM_DT	Newly Added	-	DATE	No	-

D.17 CI_TRL_BSEG

The following table lists the columns that are newly added, modified, or dropped in the CI_TRL_BSEG table:

Sr. No.	Column Name	Modification Type	Data Type in V3.2.0.0.0	Data Type in V4.0.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	ILM_ARCH_SW	Newly Added	-	CHAR(1)	No	-
2.	ILM_DT	Newly Added	-	DATE	No	-

D.18 CI_TRL_FT

The following table lists the columns that are newly added, modified, or dropped in the CI_TRL_FT table:

Sr. No.	Column Name	Modification Type	Data Type in V3.2.0.0.0	Data Type in V4.0.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	ILM_ARCH_SW	Newly Added	-	CHAR(1)	No	-
2.	ILM_DT	Newly Added	-	DATE	No	-

D.19 CI_UPLPAY_STG

The following table lists the columns that are newly added, modified, or dropped in the CI_UPLPAY_STG table:

Sr. No.	Column Name	Modification Type	Data Type in V3.2.0.0.0	Data Type in V4.0.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	STM_ID	Newly Added	-	CHAR(12)	No	-

Appendix E : Algorithms and Algorithm Types Dropped in ORMB Version 4.0.0.0.0

This section lists the algorithms and algorithm types which are dropped in Oracle Revenue Management and Billing Version 4.0.0.0.0.

E.1 Algorithm Types

No algorithm types are dropped in Oracle Revenue Management and Billing Version 4.0.0.0.0.

E.2 Algorithms

The following table lists the algorithms which are dropped in Oracle Revenue Management and Billing Version 4.0.0.0.0:

Algorithm	Description
PSEG-NM2	Payoff Amt = Current Amt = Pay Amt

Appendix F : Parameters Added or Removed from Algorithm Types in ORMB Version 4.0.0.0.0

No parameters are newly added or removed from the existing algorithm types in Oracle Revenue Management and Billing Version 4.0.0.0.0.

Appendix G : Option Types Added or Removed from Feature Configurations in ORMB Version 4.0.0.0.0

This section lists the option types which are newly added or removed from the existing feature configurations in Oracle Revenue Management and Billing Version 4.0.0.0.0.

Feature Configuration	Option Type (Removed from 4.0.0.0.0)	Option Type (Added in 4.0.0.0.0)
C1-ASOBLLNG	-	Statement Construct Char for Inbound Log
C1-OFFSETREQ	-	Show Warning When Offsetting Across Person Hierarchy

Appendix H : Characteristic Types Dropped in ORMB Version 4.0.0.0.0

No characteristic types are dropped in Oracle Revenue Management and Billing Version 4.0.0.0.0.

Appendix I : 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 4.4.0.3.0:

1. Download and apply the single fix available for Bug 22505470 - PATCHES APPEND EXTRA SPACE TO STRINGS AND ADD DB SERVICE CONNECTION SUPPORT on the application and database environments.
2. 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:

AIX, 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:

AIX, Linux:

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

Windows:

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


Appendix J : ORMB V4.0.0.0.0 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, refer to the *ORMB V4.0.0.0.0 Patch Guide (Document ID: 2878927.1)* on [My Oracle Support](#).

J.1 Applying a Rollup Pack on the Application Environment

Once you install Oracle Revenue Management and Billing Version 4.0.0.0.0, you need to apply the rollup packs listed in the *ORMB V4.0.0.0.0 Patch Guide (Document ID: 2878927.1)*. 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:

AIX, 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_V4.0.0.0.0_App_Rollup`, `RMB_V4.0.0.0.0_DB_Rollup`, and `RMB_V4.0.0.0.0_PFDs`.

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

AIX, 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_V4.0.0.0.0_App_Rollup` folder using the following command:

AIX, Linux:

```
cd <DESTINATION_FOLDER_1>/RMB_V4.0.0.0.0_App_Rollup
```

Windows:

```
cd <DESTINATION_FOLDER_1>\RMB_V4.0.0.0.0_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:

AIX, Linux:

```
./installSFgroup.sh
```

Windows:

```
installSFgroup.cmd
```

J.2 Applying a Rollup Pack on the Database

Once you install Oracle Revenue Management and Billing Version 4.0.0.0.0, you need to apply the rollup packs listed in the *ORMB V4.0.0.0.0 Patch Guide (Document ID: 2878927.1)*. 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:

AIX, 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_V4.0.0.0.0_App_Rollup`, `RMB_V4.0.0.0.0_DB_Rollup`, and `RMB_V4.0.0.0.0_PFDs`.

3. Change to the `RMB_V4.0.0.0.0_DB_Rollup` folder using the following command:

AIX, Linux:

```
cd <DESTINATION_FOLDER_1>/RMB_V4.0.0.0.0_DB_Rollup
```

Windows:

```
cd <DESTINATION_FOLDER_1>\RMB_V4.0.0.0.0_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
```

AIX, Linux:

```
ouafDatabasePatch.sh
```

Appendix K : New Tables Added in OUAF Version 4.4.0.3.0

This section lists and describes the tables that are newly added in Oracle Utilities Application Framework Version 4.4.0.3.0.

K.1 CI_ACC_GRP_ROLE

Purpose:	Used to store the To Do types associated with an access group.
Total Number of Columns:	4

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
ACCESS_GRP_CD	CHAR(12)	No	NULL
TD_TYPE_CD	CHAR(8)	No	NULL
ROLE_ID	CHAR(10)	No	NULL
VERSION	NUMBER(5,0)	No	1

Primary Key:

Key Type	Column Name
Composite	ACCESS_GRP_CD
	TD_TYPE_CD

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	F1C776P0	Unique	ACCESS_GRP_CD
			TD_TYPE_CD

K.2 F1_ACTION_METHOD

Purpose:	Used to store the details of an action method.
Total Number of Columns:	5

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
ACTION_METHOD_CD	VARCHAR2(30)	No	NULL
ACTION_METHOD_ROLE_XFLG	VARCHAR2(30)	No	NULL
BUS_OBJ_CD	CHAR(30)	No	NULL
BO_XML_DATA_AREA	XMLTYPE	Yes	-
VERSION	NUMBER(5,0)	No	1

Primary Key:

Key Type	Column Name
Simple	ACTION_METHOD_CD

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	F1C777P0	UNIQUE	ACTION_METHOD_CD

K.3 F1_ACTION_METHOD_CHAR

Purpose:	Used to store the characteristics of an action method.
Total Number of Columns:	12

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
ACTION_METHOD_CD	VARCHAR2(30)	No	NULL
CHAR_TYPE_CD	CHAR(8)	No	NULL
SEQ_NUM	NUMBER(3,0)	No	NULL
ADHOC_CHAR_VAL	VARCHAR2(254)	Yes	-
CHAR_VAL	CHAR(16)	Yes	-
CHAR_VAL_FK1	VARCHAR2(50)	Yes	-
CHAR_VAL_FK2	VARCHAR2(50)	Yes	-
CHAR_VAL_FK3	VARCHAR2(50)	Yes	-
CHAR_VAL_FK4	VARCHAR2(50)	Yes	-
CHAR_VAL_FK5	VARCHAR2(50)	Yes	-

Column Name	Data Type	Nullable (Yes or No)	Default Value
SRCH_CHAR_VAL	VARCHAR2(50)	Yes	-
VERSION	NUMBER(5,0)	No	1

Primary Key:

Key Type	Column Name
Composite	ACTION_METHOD_CD
	CHAR_TYPE_CD
	SEQ_NUM

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	F1C779P0	Unique	ACTION_METHOD_CD
			CHAR_TYPE_CD
			SEQ_NUM
2.	F1C779S1	Non Unique	SRCH_CHAR_VAL

K.4 F1_ACTION_METHOD_L

Purpose:	Used to store the description of an action method.
Total Number of Columns:	5

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
ACTION_METHOD_CD	VARCHAR2(30)	No	NULL
LANGUAGE_CD	CHAR(3)	No	NULL
DESCR100	VARCHAR2(100)	No	NULL
DESCRLONG	VARCHAR2(4000)	Yes	-
VERSION	NUMBER(5,0)	No	1

Primary Key:

Key Type	Column Name
Composite	ACTION_METHOD_CD
	LANGUAGE_CD

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	F1C778P0	Unique	ACTION_METHOD_CD
			LANGUAGE_CD

K.5 F1_COLOR_OPT

Purpose:	Used to store the details of a color option.
Total Number of Columns:	8

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
COLOR_OPT_CD	VARCHAR2(30)	No	-
BUS_OBJ_CD	CHAR(30)	No	-
COLOR_OPT_CLASS_FLG	CHAR(4)	No	''
BACKGROUND_COLOR_XFLG	VARCHAR2(30)	No	''
BACKGROUND_COLOR_XFLG	VARCHAR2(30)	Yes	-
OWNER_FLG	CHAR(4)	No	''
BO_XML_DATA_AREA	XMLTYPE	Yes	-
VERSION	NUMBER(5,0)	No	1

Primary Key:

Key Type	Column Name
Simple	COLOR_OPT_CD

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	F1C787P0	Unique	COLOR_OPT_CD

K.6 F1_COLOR_OPT_ITEM

Purpose:	Used to store the foreground and background colors defined in a color option.
Total Number of Columns:	6

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
COLOR_OPT_CD	VARCHAR2(30)	No	-
SEQNO	NUMBER(5,0)	No	1
ITEM_FOREGROUND_COLOR_XFLG	VARCHAR2(30)	No	''
ITEM_BACKGROUND_COLOR_XFLG	VARCHAR2(30)	Yes	-
OWNER_FLG	CHAR(4)	No	''
VERSION	NUMBER(5,0)	No	1

Primary Key:

Key Type	Column Name
Composite	COLOR_OPT_CD
	SEQNO

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	F1C789P0	Unique	COLOR_OPT_CD
			SEQNO

K.7 F1_COLOR_OPT_L

Purpose:	Used to store the description of a color option.
Total Number of Columns:	5

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
COLOR_OPT_CD	VARCHAR2(30)	No	-
LANGUAGE_CD	CHAR(3)	No	-
DESCR100	VARCHAR2(100)	No	-
OWNER_FLG	CHAR(4)	No	''
VERSION	NUMBER(5,0)	No	1

Primary Key:

Key Type	Column Name
Composite	COLOR_OPT_CD
	LANGUAGE_CD

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	F1C788P0	Unique	COLOR_OPT_CD
			LANGUAGE_CD

K.8 F1_DATA_EXPORT_CTRL

Purpose:	Used to store the details of a data export control.
Total Number of Columns:	9

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
F1_DATA_EXPORT_CD	VARCHAR2(30)	No	NULL
BUS_OBJ_CD	CHAR(30)	No	NULL
F1_DATA_EXPORT_CLS_FLG	CHAR(4)	No	NULL
MAINT_OBJ_CD	CHAR(12)	No	NULL
F1_INIT_EXPORT_FLG	CHAR(4)	Yes	-
F1_ONGEXP_STATUS_FLG	CHAR(4)	Yes	-
F1_EXPORT_THRU_DTTM	DATE	Yes	-
CRE_DTTM	DATE	No	NULL
VERSION	NUMBER(5,0)	No	1

Primary Key:

Key Type	Column Name
Simple	F1_DATA_EXPORT_CD

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	F1C765P0	Unique	F1_DATA_EXPORT_CD

Sr. No.	Index Name	Index Type	Column Name
2.	F1C765S1	Unique	MAINT_OBJ_CD

K.9 F1_DATA_EXPORT_CTRL_LOG

Purpose:	Used to store the logs of a data export control.
Total Number of Columns:	17

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
F1_DATA_EXPORT_CD	VARCHAR2(30)	No	NULL
SEQNO	NUMBER(5,0)	No	-
LOG_DTTM	DATE	No	-
LOG_ENTRY_TYPE_FLG	CHAR(4)	No	NULL
DESCRLONG	VARCHAR2(4000)	No	NULL
CHAR_TYPE_CD	CHAR(8)	No	NULL
CHAR_VAL	CHAR(16)	No	NULL
ADHOC_CHAR_VAL	VARCHAR2(254)	No	NULL
CHAR_VAL_FK1	VARCHAR2(50)	No	NULL
CHAR_VAL_FK2	VARCHAR2(50)	No	NULL
CHAR_VAL_FK3	VARCHAR2(50)	No	NULL
CHAR_VAL_FK4	VARCHAR2(50)	No	NULL
CHAR_VAL_FK5	VARCHAR2(50)	No	NULL
MESSAGE_CAT_NBR	NUMBER(5,0)	No	0
MESSAGE_NBR	NUMBER(5,0)	No	0
USER_ID	CHAR(8)	No	NULL
VERSION	NUMBER(5,0)	No	1

Primary Key:

Key Type	Column Name
Composite	F1_DATA_EXPORT_CD
	SEQNO

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	F1C766P0	Unique	F1_DATA_EXPORT_CD

Sr. No.	Index Name	Index Type	Column Name
			SEQNO
2.	F1C766S1	Non Unique	CHAR_TYPE_CD
			CHAR_VAL_FK1
3.	F1C766S2	Non Unique	CHAR_TYPE_CD
			CHAR_VAL

K.10 F1_DATA_EXPORT_CTRL_LOG_PARM

Purpose:	Used to store the log parameters of a data export control.
Total Number of Columns:	6

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
F1_DATA_EXPORT_CD	VARCHAR2(30)	No	NULL
SEQNO	NUMBER(5,0)	No	-
PARM_SEQ	NUMBER(3,0)	No	-
MSG_PARM_TYP_FLG	CHAR(4)	No	-
MSG_PARM_VAL	VARCHAR2(2000)	No	-
VERSION	NUMBER(5,0)	No	1

Primary Key:

Key Type	Column Name
Composite	F1_DATA_EXPORT_CD
	SEQNO
	PARM_SEQ

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	F1C767P0	Unique	F1_DATA_EXPORT_CD
			SEQNO
			PARM_SEQ

K.11 F1_FILE_INT_REC

Purpose:	Used to store the details of a file integration record.
Total Number of Columns:	11

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
FILE_INT_TYPE_CD	VARCHAR2(30)	No	NULL
FILE_INT_REC_CD	VARCHAR2(30)	No	NULL
SEQNO	NUMBER(5,0)	No	1
PRNT_SEQ	NUMBER(5,0)	Yes	-
DATA_AREA_CD	CHAR(30)	No	NULL
ROOT_ELEM	VARCHAR2(100)	No	NULL
BUS_OBJ_CD	CHAR(30)	No	NULL
FILE_INT_REC_STATUS_FLG	CHAR(4)	No	NULL
BO_XML_DATA_AREA	XMLTYPE	Yes	-
OWNER_FLG	CHAR(4)	No	NULL
VERSION	NUMBER(5,0)	No	1

Primary Key:

Key Type	Column Name
Composite	FILE_INT_TYPE_CD
	FILE_INT_REC_CD

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	F1C773P0	Unique	FILE_INT_TYPE_CD
			FILE_INT_REC_CD

K.12 F1_FILE_INT_REC_ALG

Purpose:	Used to store the algorithms associated with a file integration record.
Total Number of Columns:	7

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
FILE_INT_TYPE_CD	VARCHAR2(30)	No	NULL
FILE_INT_REC_CD	VARCHAR2(30)	No	NULL
FILE_INT_REC_SEVT_FLG	CHAR(4)	No	NULL
SEQ_NUM	NUMBER(3,0)	No	1
ALG_CD	CHAR(12)	No	NULL
OWNER_FLG	CHAR(4)	No	NULL
VERSION	NUMBER(5,0)	No	1

Primary Key:

Key Type	Column Name
Composite	FILE_INT_TYPE_CD
	FILE_INT_REC_CD
	FILE_INT_REC_SEVT_FLG
	SEQ_NUM
	ALG_CD

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	F1C775P0	Unique	FILE_INT_TYPE_CD
			FILE_INT_REC_CD
			FILE_INT_REC_SEVT_FLG
			SEQ_NUM
			ALG_CD

K.13 F1_FILE_INT_REC_L

Purpose:	Used to store the description of a file integration record.
Total Number of Columns:	7

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
FILE_INT_TYPE_CD	VARCHAR2(30)	No	NULL
FILE_INT_REC_CD	VARCHAR2(30)	No	NULL
LANGUAGE_CD	CHAR(3)	No	NULL
DESCR100	VARCHAR2(100)	No	NULL
DESCR4000	VARCHAR2(4000)	Yes	-
OWNER_FLG	CHAR(4)	No	NULL
VERSION	NUMBER(5,0)	No	1

Primary Key:

Key Type	Column Name
Composite	FILE_INT_TYPE_CD
	FILE_INT_REC_CD
	LANGUAGE_CD

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	F1C774P0	Unique	FILE_INT_TYPE_CD
			FILE_INT_REC_CD
			LANGUAGE_CD

K.14 F1_FILE_INT_TYPE

Purpose:	Used to store the details of a file integration type.
Total Number of Columns:	8

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
FILE_INT_TYPE_CD	VARCHAR2(30)	No	NULL
BUS_OBJ_CD	CHAR(30)	No	NULL
FILE_INT_CLASS_FLG	CHAR(4)	No	NULL
FILE_INT_OBJ_FLG	CHAR(4)	No	NULL
FILE_INT_STATUS_FLG	CHAR(4)	No	NULL
BO_XML_DATA_AREA	XMLTYPE	Yes	-
OWNER_FLG	CHAR(4)	No	NULL
VERSION	NUMBER(5,0)	No	1

Primary Key:

Key Type	Column Name
Simple	FILE_INT_TYPE_CD

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	F1C771P0	Unique	FILE_INT_TYPE_CD

K.15 F1_FILE_INT_TYPE_L

Purpose:	Used to store the description of a file integration type.
Total Number of Columns:	6

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
FILE_INT_TYPE_CD	VARCHAR2(30)	No	NULL
LANGUAGE_CD	CHAR(3)	No	NULL
DESCR100	VARCHAR2(100)	No	NULL
DESCR4000	VARCHAR2(4000)	Yes	-
OWNER_FLG	CHAR(4)	No	NULL
VERSION	NUMBER(5,0)	No	1

Primary Key:

Key Type	Column Name
Composite	FILE_INT_TYPE_CD
	LANGUAGE_CD

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	F1C772P0	Unique	FILE_INT_TYPE_CD
			LANGUAGE_CD

K.16 F1_INSIGHT_GRP

Purpose:	Used to store the details of an insight group.
Total Number of Columns:	5

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
INSIGHT_GRP_CD	VARCHAR2(30)	No	-
BUS_OBJ_CD	CHAR(30)	No	-
INSIGHT_CLASS_FLG	CHAR(4)	No	' '
BO_XML_DATA_AREA	XMLTYPE	Yes	-
VERSION	NUMBER(5,0)	No	1

Primary Key:

Key Type	Column Name
Simple	INSIGHT_GRP_CD

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	F1C801P0	Unique	INSIGHT_GRP_CD

K.17 F1_INSIGHT_GRP_CHAR

Purpose:	Used to store the characteristics of an insight group.
Total Number of Columns:	12

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
INSIGHT_GRP_CD	VARCHAR2(30)	No	-
CHAR_TYPE_CD	CHAR(8)	No	-
CHAR_VAL	CHAR(16)	No	-
ADHOC_CHAR_VAL	VARCHAR2(254)	No	-
CHAR_VAL_FK1	VARCHAR2(50)	No	''
CHAR_VAL_FK2	VARCHAR2(50)	No	''
CHAR_VAL_FK3	VARCHAR2(50)	No	''
CHAR_VAL_FK4	VARCHAR2(50)	No	''
CHAR_VAL_FK5	VARCHAR2(50)	No	''
SRCH_CHAR_VAL	VARCHAR2(50)	No	''
VERSION	NUMBER(5,0)	No	1
SEQ_NUM	NUMBER(3,0)	No	1

Primary Key:

Key Type	Column Name
Composite	INSIGHT_GRP_CD
	CHAR_TYPE_CD
	SEQ_NUM

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	F1C803P0	Unique	INSIGHT_GRP_CD
			CHAR_TYPE_CD
			SEQ_NUM
2.	F1C803S1	Non Unique	SRCH_CHAR_VAL

K.18 F1_INSIGHT_GRP_L

Purpose:	Used to store the description of an insight group.
Total Number of Columns:	5

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
INSIGHT_GRP_CD	VARCHAR2(30)	No	-
LANGUAGE_CD	CHAR(3)	No	-
DESCR100	VARCHAR2(100)	No	-
DESCRLONG	VARCHAR2(4000)	Yes	-
VERSION	NUMBER(5,0)	No	1

Primary Key:

Key Type	Column Name
Composite	INSIGHT_GRP_CD
	LANGUAGE_CD

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	F1C802P0	Unique	INSIGHT_GRP_CD
			LANGUAGE_CD

K.19 F1_INSIGHT_GRP_TYPE

Purpose:	Used to store the details of an insight group type.
Total Number of Columns:	4

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
INSIGHT_GRP_CD	VARCHAR2(30)	No	-
INSIGHT_TYPE_CD	VARCHAR2(30)	No	-
SEQ_NUM	NUMBER(3,0)	No	1
VERSION	NUMBER(5,0)	No	1

Primary Key:

Key Type	Column Name
Composite	INSIGHT_GRP_CD
	INSIGHT_TYPE_CD

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	F1C805P0	Unique	INSIGHT_GRP_CD
			INSIGHT_TYPE_CD

K.20 F1_INSIGHT_GRP_VISUAL_STR

Purpose:	Used to store the visual structures of an insight group.
Total Number of Columns:	3

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
INSIGHT_GRP_CD	VARCHAR2(30)	No	-
VISUAL_STRUCTURE_FLG	CHAR(4)	No	-
VERSION	NUMBER(5,0)	No	1

Primary Key:

Key Type	Column Name
Composite	INSIGHT_GRP_CD
	VISUAL_STRUCTURE_FLG

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	F1C804P0	Unique	INSIGHT_GRP_CD
			VISUAL_STRUCTURE_FLG

K.21 F1_INSIGHT_TYPE

Purpose:	Used to store the details of an insight type.
Total Number of Columns:	7

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
INSIGHT_TYPE_CD	VARCHAR2(30)	No	-
BUS_OBJ_CD	CHAR(30)	No	-
VISUAL_STRUCTURE_FLG	CHAR(4)	No	-
INSIGHT_ACT_TRACK_FLG	CHAR(4)	No	-
OWNER_FLG	CHAR(4)	No	-
BO_XML_DATA_AREA	XMLTYPE	Yes	-
VERSION	NUMBER(5,0)	No	1

Primary Key:

Key Type	Column Name
Simple	INSIGHT_TYPE_CD

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	F1C780P0	Unique	INSIGHT_TYPE_CD

K.22 F1_INSIGHT_TYPE_ALG

Purpose:	Used to store the algorithms associated with an insight type.
Total Number of Columns:	6

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
INSIGHT_TYPE_CD	VARCHAR2(30)	No	-
INSIGHT_SEVT_FLG	CHAR(4)	No	-
SEQ_NUM	NUMBER(3,0)	No	1
ALG_CD	CHAR(12)	No	-

Column Name	Data Type	Nullable (Yes or No)	Default Value
OWNER_FLG	CHAR(4)	No	-
VERSION	NUMBER(5,0)	No	1

Primary Key:

Key Type	Column Name
Composite	INSIGHT_TYPE_CD
	INSIGHT_SEVT_FLG
	SEQ_NUM

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	F1C783P0	Unique	INSIGHT_TYPE_CD
			INSIGHT_SEVT_FLG
			SEQ_NUM

K.23 F1_INSIGHT_TYPE_CHAR

Purpose:	Used to store the characteristics of an insight type.
Total Number of Columns:	13

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
INSIGHT_TYPE_CD	VARCHAR2(30)	No	-
OWNER_FLG	CHAR(4)	No	-
CHAR_TYPE_CD	CHAR(8)	No	-
CHAR_VAL	CHAR(16)	No	-
ADHOC_CHAR_VAL	VARCHAR2(254)	No	-
CHAR_VAL_FK1	VARCHAR2(50)	No	-
CHAR_VAL_FK2	VARCHAR2(50)	No	-
CHAR_VAL_FK3	VARCHAR2(50)	No	-
CHAR_VAL_FK4	VARCHAR2(50)	No	-
CHAR_VAL_FK5	VARCHAR2(50)	No	-

Column Name	Data Type	Nullable (Yes or No)	Default Value
SRCH_CHAR_VAL	VARCHAR2(50)	No	-
VERSION	NUMBER(5,0)	No	1
SEQ_NUM	NUMBER(3,0)	No	1

Primary Key:

Key Type	Column Name
Composite	INSIGHT_TYPE_CD
	CHAR_TYPE_CD
	SEQ_NUM

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	F1C781P0	Unique	INSIGHT_TYPE_CD
			CHAR_TYPE_CD
			SEQ_NUM
2.	F1C781S1	Non Unique	SRCH_CHAR_VAL

K.24 F1_INSIGHT_TYPE_L

Purpose:	Used to store the description of an insight type.
Total Number of Columns:	6

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
INSIGHT_TYPE_CD	VARCHAR2(30)	No	-
LANGUAGE_CD	CHAR(3)	No	-
DESCR100	VARCHAR2(100)	No	-
DESCRLONG	VARCHAR2(4000)	Yes	-
OWNER_FLG	CHAR(4)	No	-
VERSION	NUMBER(5,0)	No	1

Primary Key:

Key Type	Column Name
Composite	INSIGHT_TYPE_CD

Key Type	Column Name
	LANGUAGE_CD

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	F1C782P0	Unique	INSIGHT_TYPE_CD
			LANGUAGE_CD

K.25 F1_INSIGHT_TYPE_USER_ACT

Purpose:	Used to store the user actions defined for an insight type.
Total Number of Columns:	8

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
INSIGHT_TYPE_CD	VARCHAR2(30)	No	-
INSIGHT_ACT_CD	VARCHAR2(30)	No	-
INSIGHT_ACT_FLD_FLG	CHAR(4)	No	-
INSIGHT_ACT_DISP_TYPE	CHAR(4)	No	-
INSIGHT_ACT_CLASS_FLG	CHAR(4)	No	-
SCR_CD	CHAR(12)	No	-
OWNER_FLG	CHAR(4)	No	-
VERSION	NUMBER(5,0)	No	1

Primary Key:

Key Type	Column Name
Composite	INSIGHT_TYPE_CD
	INSIGHT_ACT_CD

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	F1C784P0	Unique	INSIGHT_TYPE_CD
			INSIGHT_ACT_CD

K.26 F1_INSIGHT_TYPE_USER_ACT_ALG

Purpose:	Used to store the algorithms associated with an insight type user action.
Total Number of Columns:	7

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
INSIGHT_TYPE_CD	VARCHAR2(30)	No	-
INSIGHT_ACT_CD	VARCHAR2(30)	No	-
INSIGHT_ACT_SEVT_FLG	CHAR(4)	No	-
SEQ_NUM	NUMBER(3,0)	No	1
ALG_CD	CHAR(12)	No	-
OWNER_FLG	CHAR(4)	No	-
VERSION	NUMBER(5,0)	No	1

Primary Key:

Key Type	Column Name
Composite	INSIGHT_TYPE_CD
	INSIGHT_ACT_CD
	INSIGHT_ACT_SEVT_FLG
	SEQ_NUM

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	F1C785P0	Unique	INSIGHT_TYPE_CD
			INSIGHT_ACT_CD
			INSIGHT_ACT_SEVT_FLG
			SEQ_NUM

K.27 F1_INSIGHT_TYPE_VISUAL_SETTING

Purpose:	Used to store the visual settings of an insight type.
Total Number of Columns:	11

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
INSIGHT_TYPE_CD	VARCHAR2(30)	No	-
SEQ_NUM	NUMBER(3,0)	No	1
VISUAL_SETTING_TYPE_FLG	CHAR(4)	No	-
SEVERITY_VAL	NUMBER(6,0)	No	-
INSIGHT_COLOR_OPT_CD	VARCHAR2(30)	No	-
DISP_ICON_CD	CHAR(12)	No	-
ICON_COLOR_OPT_CD	VARCHAR2(30)	No	-
HEADER_COLOR_OPT_CD	VARCHAR2(30)	No	-
HEADER_CAT_FLG	CHAR(4)	No	-
OWNER_FLG	CHAR(4)	No	-
VERSION	NUMBER(5,0)	No	1

Primary Key:

Key Type	Column Name
Composite	INSIGHT_TYPE_CD
	SEQ_NUM

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	F1C786P0	Unique	INSIGHT_TYPE_CD
			SEQ_NUM

K.28 F1_MD_BI_TBL

Purpose:	Used to store the details of an analytics table.
Total Number of Columns:	8

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
F1_BI_TBL_NAME	CHAR(30)	No	NULL
TBL_NAME	CHAR(30)	No	NULL
BUS_OBJ_CD	CHAR(30)	No	NULL
F1_BI_TABLE_TYPE_FLG	CHAR(4)	No	NULL
OWNER_FLG	CHAR(4)	No	NULL
VERSION	NUMBER(5,0)	No	1
F1_BI_HIER_DEFN	VARCHAR2(4000)	Yes	-
F1_BI_NAME	VARCHAR2(100)	No	NULL

Primary Key:

Key Type	Column Name
Simple	F1_BI_TBL_NAME

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	F1C768P0	Unique	F1_BI_TBL_NAME

K.29 F1_MD_BI_TBL_FLD

Purpose:	Used to store the fields included in an analytics table.
Total Number of Columns:	17

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
F1_BI_TBL_NAME	CHAR(30)	No	NULL
SEQ_NUM	NUMBER(3,0)	No	1
F1_BI_FLD_TYPE_FLG	CHAR(4)	No	NULL

Column Name	Data Type	Nullable (Yes or No)	Default Value
FLD_NAME	CHAR(30)	No	NULL
OVRD_FLD_NAME	CHAR(30)	Yes	-
F1_DISP_SEQ_NUM	NUMBER(3,0)	Yes	-
F1_INTERNAL_SW	CHAR(1)	No	NULL
F1_AGG_RULE_FLG	CHAR(4)	No	NULL
F1_CALC_EXP	VARCHAR2(4000)	Yes	-
F1_PROC_OPT_FLG	CHAR(4)	No	NULL
F1_DEGENERATE_SW	CHAR(1)	No	NULL
F1_HIDE_TIME_SW	CHAR(1)	No	NULL
F1_BUCKET_BO	VARCHAR2(30)	Yes	-
OWNER_FLG	CHAR(4)	No	NULL
VERSION	NUMBER(5,0)	No	1
BI_ELEM_NAME	VARCHAR2(60)	No	-
LOGICAL_DM_NAME	VARCHAR2(60)	Yes	-

Primary Key:

Key Type	Column Name
Composite	F1_BI_TBL_NAME
	SEQ_NUM

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	F1C770P0	Unique	F1_BI_TBL_NAME
			SEQ_NUM

K.30 F1_MD_BI_TBL_L

Purpose:	Used to store the description of an analytics table.
Total Number of Columns:	6

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
F1_BI_TBL_NAME	CHAR(30)	No	NULL
LANGUAGE_CD	CHAR(3)	No	NULL
DESCR100	VARCHAR2(100)	No	NULL
DESCRLONG	VARCHAR2(4000)	Yes	-
OWNER_FLG	CHAR(4)	No	NULL
VERSION	NUMBER(5,0)	No	1

Primary Key:

Key Type	Column Name
Composite	F1_BI_TBL_NAME
	LANGUAGE_CD

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	F1C769P0	Unique	F1_BI_TBL_NAME
			LANGUAGE_CD

K.31 F1_MO_UPD

Purpose:	Used to store the details of a data export.
Total Number of Columns:	7

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
MAINT_OBJ_CD	CHAR(12)	No	-
PK_VALUE1	VARCHAR2(254)	No	-
PK_VALUE2	VARCHAR2(254)	Yes	-
PK_VALUE3	VARCHAR2(254)	Yes	-
PK_VALUE4	VARCHAR2(254)	Yes	-
PK_VALUE5	VARCHAR2(254)	Yes	-
ENT_KEY_HASH	NUMBER(5,0)	No	-

Primary Key:

None

Indexes:

None

K.32 F1_TREE

Purpose:	Used to store the details of a tree.
Total Number of Columns:	5

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
TREE_CD	CHAR(30)	No	-
BUS_OBJ_CD	CHAR(30)	No	-
APPLY_HEADER_STYLE_FLG	CHAR(4)	Yes	-
OWNER_FLG	CHAR(4)	No	-
VERSION	NUMBER(5,0)	No	1

Primary Key:

Key Type	Column Name
Simple	TREE_CD

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	F1C790P0	Unique	TREE_CD

K.33 F1_TREE_L

Purpose:	Used to store the description of a tree.
Total Number of Columns:	5

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
TREE_CD	CHAR(30)	No	-

Column Name	Data Type	Nullable (Yes or No)	Default Value
LANGUAGE_CD	CHAR(3)	No	-
DESCR100	VARCHAR2(100)	No	-
OWNER_FLG	CHAR(4)	No	-
VERSION	NUMBER(5,0)	No	1

Primary Key:

Key Type	Column Name
Composite	TREE_CD
	LANGUAGE_CD

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	F1C791P0	Unique	TREE_CD
			LANGUAGE_CD

K.34 F1_TREE_NODE

Purpose:	Used to store the nodes of a tree.
Total Number of Columns:	14

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
TREE_CD	CHAR(30)	No	-
NODE_NAME	CHAR(30)	No	-
PARENT_NODE_NAME	CHAR(30)	Yes	-
SEQNO	NUMBER(5,0)	No	1
DISP_ICON_CD	CHAR(12)	Yes	-
NODE_TEXT_LABEL	CHAR(30)	Yes	-
BROADCAST_NODE_FLG	CHAR(4)	Yes	-
INITIALLY_EXPAND_FLG	CHAR(4)	Yes	-
CTXT_MENU_USAGE_FLG	CHAR(4)	Yes	-
CONTEXT_MENU_NAME	CHAR(30)	Yes	-
NODE_NAVIGATION_FLG	CHAR(4)	Yes	-

Column Name	Data Type	Nullable (Yes or No)	Default Value
NODE_TEXT_FORMAT	VARCHAR2(2000)	Yes	-
OWNER_FLG	CHAR(4)	No	-
VERSION	NUMBER(5,0)	No	1

Primary Key:

Key Type	Column Name
Composite	TREE_CD
	NODE_NAME

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	F1C792P0	Unique	TREE_CD
			NODE_NAME

K.35 F1_TREE_NODE_ALG

Purpose:	Used to store the algorithms associated with a tree node.
Total Number of Columns:	7

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
TREE_CD	CHAR(30)	No	-
NODE_NAME	CHAR(30)	No	-
TREE_NODE_SEVT_FLG	CHAR(4)	No	-
SEQ_NUM	NUMBER(3,0)	No	1
ALG_CD	CHAR(12)	Yes	-
OWNER_FLG	CHAR(4)	No	-
VERSION	NUMBER(5,0)	No	1

Primary Key:

Key Type	Column Name
Composite	TREE_CD
	NODE_NAME
	TREE_NODE_SEVT_FLG
	SEQ_NUM

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	F1C794P0	Unique	TREE_CD
			NODE_NAME
			TREE_NODE_SEVT_FLG
			SEQ_NUM

K.36 F1_TREE_NODE_L

Purpose:	Used to store the description of a tree node.
Total Number of Columns:	6

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
TREE_CD	CHAR(30)	No	-
NODE_NAME	CHAR(30)	No	-
LANGUAGE_CD	CHAR(3)	No	-
DESCR100	VARCHAR2(100)	No	-
OWNER_FLG	CHAR(4)	No	-
VERSION	NUMBER(5,0)	No	1

Primary Key:

Key Type	Column Name
Composite	TREE_CD
	NODE_NAME
	LANGUAGE_CD

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	F1C793P0	Unique	TREE_CD
			NODE_NAME
			LANGUAGE_CD

Appendix L : Existing Tables Modified in OUAF Version 4.4.0.3.0

This section lists the existing tables which are modified in Oracle Utilities Application Framework Version 4.4.0.3.0. It indicates the columns that are newly added, dropped, or modified in these tables.

L.1 CI_BATCH_INST

The following table lists the columns that are newly added, modified, or dropped in the CI_BATCH_INST table:

Sr. No.	Column Name	Modification Type	Data Type in V4.4.0.2.0	Data Type in V4.4.0.3.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	END_DTTM	Newly Added	-	DATE	No	-
2.	FILE_DETAILS	Newly Added	-	CLOB	No	-
3.	START_DTTM	Newly Added	-	DATE	No	-

L.2 CI_BATCH_JOB

The following table lists the columns that are newly added, modified, or dropped in the CI_BATCH_JOB table:

Sr. No.	Column Name	Modification Type	Data Type in V4.4.0.2.0	Data Type in V4.4.0.3.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	SUBMIT_METH_FLG	Newly Added	-	CHAR(4)	No	-
2.	SUBMIT_USER_ID	Newly Added	-	CHAR(8)	No	-

L.3 CI_CHAR_TYPE

The following table lists the columns that are newly added, modified, or dropped in the CI_CHAR_TYPE table:

Sr. No.	Column Name	Modification Type	Data Type in V4.4.0.2.0	Data Type in V4.4.0.3.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	FLD_NAME	Newly Added	-	CHAR(30)	No	-

L.4 CI_MD_FLD_L

The following table lists the columns that are newly added, modified, or dropped in the CI_MD_FLD_L table:

Sr. No.	Column Name	Modification Type	Data Type in V4.4.0.2.0	Data Type in V4.4.0.3.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	CONTEXT_LABEL1	Newly Added	-	VARCHAR2(60)	No	-
2.	CONTEXT_LABEL2	Newly Added	-	VARCHAR2(60)	No	-
3.	CONTEXT_LABEL3	Newly Added	-	VARCHAR2(60)	No	-
4.	CONTEXT_LABEL_TYPE1	Newly Added	-	CHAR(4)	No	-
5.	CONTEXT_LABEL_TYPE2	Newly Added	-	CHAR(4)	No	-
6.	CONTEXT_LABEL_TYPE3	Newly Added	-	CHAR(4)	No	-
7.	OVRD_CONTEXT_LABEL1	Newly Added	-	VARCHAR2(60)	No	-
8.	OVRD_CONTEXT_LABEL2	Newly Added	-	VARCHAR2(60)	No	-

Sr. No.	Column Name	Modification Type	Data Type in V4.4.0.2.0	Data Type in V4.4.0.3.0	Data Migration Required (Yes or No)	Column Value After Data Migration
9.	OVRD_CONTEXT_LABEL3	Newly Added	-	VARCHAR2(60)	No	-

L.5 CI_MD_TBL

The following table lists the columns that are newly added, modified, or dropped in the CI_MD_TBL table:

Sr. No.	Column Name	Modification Type	Data Type in V4.4.0.2.0	Data Type in V4.4.0.3.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	KEY_PREFIX_FLD_NAME	Newly Added	-	CHAR(1)	No	-

L.6 CI_TD_ENTRY_OPEN_VW

The following table lists the columns that are newly added, modified, or dropped in the CI_TD_ENTRY_OPEN_VW table:

Sr. No.	Column Name	Modification Type	Data Type in V4.4.0.2.0	Data Type in V4.4.0.3.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	DKSQ1	Newly Added	-	CHAR(1)	No	-
2.	DKSQ2	Newly Added	-	NUMBER	No	-
3.	DKSQ3	Newly Added	-	NUMBER	No	-
4.	DKSQ4	Newly Added	-	NUMBER	No	-
5.	DKSQ5	Newly Added	-	NUMBER	No	-

Sr. No.	Column Name	Modification Type	Data Type in V4.4.0.2.0	Data Type in V4.4.0.3.0	Data Migration Required (Yes or No)	Column Value After Data Migration
6.	SKSQ1	Newly Added	-	NUMBER	No	-
7.	SKSQ2	Newly Added	-	NUMBER	No	-
8.	SKSQ3	Newly Added	-	NUMBER	No	-
9.	SKSQ4	Newly Added	-	NUMBER	No	-
10.	SKSQ5	Newly Added	-	NUMBER	No	-

L.7 F1_CAL_FISC_PERIOD_D

The following table lists the columns that are newly added, modified, or dropped in the F1_CAL_FISC_PERIOD_D table:

Sr. No.	Column Name	Modification Type	Data Type in V4.4.0.2.0	Data Type in V4.4.0.3.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	F1_FISC_QUARTER_FLG	Newly Added	-	CHAR(4)	No	-
2.	F1_FISC_QUARTER_END_DT	Newly Added	-	DATE	No	-
3.	F1_FISC_QUARTER_KEY	Newly Added	-	NUMBER(5)	No	-
4.	F1_FISC_QUARTER_START_DT	Newly Added	-	DATE	No	-
5.	F1_FISC_QUARTER_IN_YEAR	Newly Added	-	NUMBER(1)	No	-
6.	F1_FISC_YEAR	Newly Added	-	NUMBER(4)	No	-
7.	F1_FISC_YEAR_END_DT	Newly Added	-	DATE	No	-

Sr. No.	Column Name	Modification Type	Data Type in V4.4.0.2.0	Data Type in V4.4.0.3.0	Data Migration Required (Yes or No)	Column Value After Data Migration
8.	F1_FISC_YEAR_START_DT	Newly Added	-	DATE	No	-
9.	F1_FISC_PERIOD_FLG	Newly Added	-	CHAR(4)	No	-
10.	F1_FISC_PERIOD_END_DT	Newly Added	-	DATE	No	-
11.	F1_FISC_PERIOD_KEY	Newly Added	-	NUMBER(6)	No	-
12.	F1_FISC_PERIOD_START_DT	Newly Added	-	DATE	No	-
13.	F1_FISC_PERIOD_IN_QUARTER	Newly Added	-	NUMBER(1)	No	-
14.	F1_FISC_PERIOD_IN_YEAR	Newly Added	-	NUMBER(2)	No	-

L.8 F1_CAL_FISC_QUARTER_D

The following table lists the columns that are newly added, modified, or dropped in the F1_CAL_FISC_QUARTER_D table:

Sr. No.	Column Name	Modification Type	Data Type in V4.4.0.2.0	Data Type in V4.4.0.3.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	F1_FISC_QUARTER_FLG	Newly Added	-	CHAR(4)	No	-
2.	F1_FISC_QUARTER_END_DT	Newly Added	-	DATE	No	-
3.	F1_FISC_QUARTER_KEY	Newly Added	-	NUMBER(5)	No	-
4.	F1_FISC_QUARTER_START_DT	Newly Added	-	DATE	No	-
5.	F1_FISC_QUARTER_IN_YEAR	Newly Added	-	NUMBER(1)	No	-
6.	F1_FISC_YEAR	Newly Added	-	NUMBER(4)	No	-

Sr. No.	Column Name	Modification Type	Data Type in V4.4.0.2.0	Data Type in V4.4.0.3.0	Data Migration Required (Yes or No)	Column Value After Data Migration
7.	F1_FISC_YEAR_END_DT	Newly Added	-	DATE	No	-
8.	F1_FISC_YEAR_START_DT	Newly Added	-	DATE	No	-

L.9 F1_CAL_FISC_YEAR_D

The following table lists the columns that are newly added, modified, or dropped in the F1_CAL_FISC_YEAR_D table:

Sr. No.	Column Name	Modification Type	Data Type in V4.4.0.2.0	Data Type in V4.4.0.3.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	F1_FISC_YEAR	Newly Added	-	NUMBER(4)	No	-
2.	F1_FISC_YEAR_END_DT	Newly Added	-	DATE	No	-
3.	F1_FISC_YEAR_START_DT	Newly Added	-	DATE	No	-

L.10 F1_CAL_MONTH_D

The following table lists the columns that are newly added, modified, or dropped in the F1_CAL_MONTH_D table:

Sr. No.	Column Name	Modification Type	Data Type in V4.4.0.2.0	Data Type in V4.4.0.3.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	F1MONTH_ABBR	Newly Added	-	CHAR(4)	No	-
2.	F1_MONTH_END_DT	Newly Added	-	DATE	No	-

Sr. No.	Column Name	Modification Type	Data Type in V4.4.0.2.0	Data Type in V4.4.0.3.0	Data Migration Required (Yes or No)	Column Value After Data Migration
3.	F1_MONTH_KEY	Newly Added	-	NUMBER(6)	No	-
4.	F1_MONTH_START_DT	Newly Added	-	DATE	No	-
5.	F1_MONTH_IN_QUARTER	Newly Added	-	NUMBER(1)	No	-
6.	F1_MONTH_IN_YEAR	Newly Added	-	NUMBER(2)	No	-
7.	F1_CAL_QUARTER_FLG	Newly Added	-	CHAR(4)	No	-
8.	F1_CAL_QUARTER_END_DT	Newly Added	-	DATE	No	-
9.	F1_CAL_QUARTER_KEY	Newly Added	-	NUMBER(5)	No	-
10.	F1_CAL_QUARTER_START_DT	Newly Added	-	DATE	No	-
11.	F1_CAL_QUARTER_IN_YEAR	Newly Added	-	NUMBER(1)	No	-
12.	F1_CAL_YEAR	Newly Added	-	NUMBER(4)	No	-
13.	F1_CAL_YEAR_END_DT	Newly Added	-	DATE	No	-
14.	F1_CAL_YEAR_NAME	Newly Added	-	CHAR(4)	No	-
15.	F1_CAL_YEAR_START_DT	Newly Added	-	DATE	No	-

L.11 F1_CAL_QUARTER_D

The following table lists the columns that are newly added, modified, or dropped in the F1_CAL_QUARTER_D table:

Sr. No.	Column Name	Modification Type	Data Type in V4.4.0.2.0	Data Type in V4.4.0.3.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	F1_CAL_QUARTER_FLG	Newly Added	-	CHAR(4)	No	-
2.	F1_CAL_QUARTER_END_DT	Newly Added	-	DATE	No	-
3.	F1_CAL_QUARTER_KEY	Newly Added	-	NUMBER(5)	No	-
4.	F1_CAL_QUARTER_START_DT	Newly Added	-	DATE	No	-
5.	F1_CAL_QUARTER_IN_YEAR	Newly Added	-	NUMBER(1)	No	-
6.	F1_CAL_YEAR	Newly Added	-	NUMBER(4)	No	-
7.	F1_CAL_YEAR_END_DT	Newly Added	-	DATE	No	-
8.	F1_CAL_YEAR_NAME	Newly Added	-	CHAR(4)	No	-
9.	F1_CAL_YEAR_START_DT	Newly Added	-	DATE	No	-

L.12 F1_CAL_WEEK_D

The following table lists the columns that are newly added, modified, or dropped in the F1_CAL_WEEK_D table:

Sr. No.	Column Name	Modification Type	Data Type in V4.4.0.2.0	Data Type in V4.4.0.3.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	F1_WEEK_END_DT	Newly Added	-	DATE	No	-
2.	F1_WEEK_KEY	Newly Added	-	NUMBER(6)	No	-
3.	F1_WEEK_NAME	Newly Added	-	CHAR(7)	No	-
4.	F1_WEEK_START_DT	Newly Added	-	DATE	No	-
5.	F1_WEEK_IN_YEAR	Newly Added	-	NUMBER(2)	No	-

L.13 F1_CAL_YEAR_D

The following table lists the columns that are newly added, modified, or dropped in the F1_CAL_YEAR_D table:

Sr. No.	Column Name	Modification Type	Data Type in V4.4.0.2.0	Data Type in V4.4.0.3.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	F1_CAL_YEAR	Newly Added	-	NUMBER(4)	No	-
2.	F1_CAL_YEAR_END_DT	Newly Added	-	DATE	No	-
3.	F1_CAL_YEAR_NAME	Newly Added	-	CHAR(4)	No	-
4.	F1_CAL_YEAR_START_DT	Newly Added	-	DATE	No	-

L.14 F1_IWS_SVC

The following table lists the columns that are newly added, modified, or dropped in the F1_IWS_SVC table:

Sr. No.	Column Name	Modification Type	Data Type in V4.4.0.2.0	Data Type in V4.4.0.3.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	IWS_REST_VER_FLG	Newly Added	-	CHAR(4)	No	-

L.15 F1_LGCY_OBJ

The following table lists the columns that are newly added, modified, or dropped in the F1_LGCY_OBJ table:

Sr. No.	Column Name	Modification Type	Data Type in V4.4.0.2.0	Data Type in V4.4.0.3.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	LGCY_CAT_FLG	Newly Added	-	CHAR(4)	No	-
2.	CHANGE_REF_NAME	Newly Added	-	VARCHAR2(30)	No	-

L.16 F1_MIGR_DATA_ST_TBL

The following table lists the columns that are newly added, modified, or dropped in the F1_MIGR_DATA_ST_TBL table:

Sr. No.	Column Name	Modification Type	Data Type in V4.4.0.2.0	Data Type in V4.4.0.3.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	RECORD_COUNT	Newly Added	-	NUMBER(9)	No	-

L.17 SC_USER

The following table lists the columns that are newly added, modified, or dropped in the SC_USER table:

Sr. No.	Column Name	Modification Type	Data Type in V4.4.0.2.0	Data Type in V4.4.0.3.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	DASHBOARD_LOC_FLG	Newly Added	-	CHAR(4)	No	-
2.	DASHBOARD_STATE_FLG	Newly Added	-	CHAR(4)	No	-

L.18 CI_ALG_PARM

The following table lists the columns that are newly added, modified, or dropped in the CI_ALG_PARM table:

Sr. No.	Column Name	Modification Type	Data Type in V4.4.0.2.0	Data Type in V4.4.0.3.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	ALG_PARM_VAL	Format Change	VARCHAR2(2000)	VARCHAR2(32767)	No	-

L.19 CI_ZONE_PRM

The following table lists the columns that are newly added, modified, or dropped in the CI_ZONE_PRM table:

Sr. No.	Column Name	Modification Type	Data Type in V4.4.0.2.0	Data Type in V4.4.0.3.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	ZONE_PARM_VAL	Format Change	VARCHAR2(4000)	VARCHAR2(32767)	No	-

L.20 F1_MIGR_DATA_ST

The following table lists the columns that are newly added, modified, or dropped in the F1_MIGR_DATA_ST table:

Sr. No.	Column Name	Modification Type	Data Type in V4.4.0.2.0	Data Type in V4.4.0.3.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	MIGR_FILEVERSION	Newly Added	-	NUMBER(2)	No	-

Appendix M : SQL Statements for 3.2.0.0.0 to 4.0.0.0.0 Data Migration

This section describes the `PostProcessingScript` query which is used for migrating data from Oracle Revenue Management and Billing Version 3.2.0.0.0 to 4.0.0.0.0.

M.1 PostProcessingScript.sql

The `PostProcessingScript.sql` query does the following:

- Updates the following column values of the records in the respective table:

Table Name	Column Name	Column Value After Data Migration
C1_PRS_PER	BO_STATUS_CD	The column value is set to ACTIVE for the existing prospect persons.
C1_PRS_ACCT	BO_STATUS_CD	The column value is set to ACTIVE for the existing prospect accounts.