

Oracle® Revenue Management and Billing

Version 2.6.0.0.0

Upgrade Guide

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Oracle Revenue Management and Billing 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 2.5.0.4.0 to 2.6.0.0.0	Explains how to upgrade from Oracle Revenue Management and Billing Version 2.5.0.4.0 to 2.6.0.0.0.
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 the current release of the Oracle Revenue Management and Billing application.
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 2.6.0.0.0	Lists and describes the tables that are newly added in the Oracle Revenue Management and Billing Version 2.6.0.0.0 database.
Appendix D	Existing Tables Modified in 2.6.0.0.0	Lists the existing tables and their columns that are modified in the Oracle Revenue Management and Billing Version 2.6.0.0.0 database.

Section No.	Section Name	Description
Appendix E	Algorithms and Algorithm Types Dropped in 2.6.0.0.0	Lists the algorithms and algorithm types which are dropped in Oracle Revenue Management and Billing Version 2.6.0.0.0.
Appendix F	Parameters Added or Removed from Algorithm Types in 2.6.0.0.0	Lists the parameters which are added or removed from the algorithm types in Oracle Revenue Management and Billing Version 2.6.0.0.0.
Appendix G	Option Types Added or Removed from Feature Configurations in 2.6.0.0.0	Lists the option types which are added or removed from the feature configurations in Oracle Revenue Management and Billing Version 2.6.0.0.0.
Appendix H	Characteristic Types Dropped in 2.6.0.0.0	Lists the characteristic types which are dropped in Oracle Revenue Management and Billing Version 2.6.0.0.0.
Appendix I	Batch for 2.5.0.4.0 to 2.6.0.0.0 Data Migration	Lists and describes the CM_U0426 batch which is used for migrating data from Oracle Revenue Management and Billing Version 2.5.0.4.0 to 2.6.0.0.0.
Appendix J	Changing the DB User Password	Explains how to change the database user password.

Related Documents

You can refer to the following documents for more information:

Document	Description
<i>Oracle Revenue Management and Billing Version 2.6.0.0.0 Release Notes</i>	Provides a brief description about the new features, enhancements, UI and database level changes, supported platforms, framework upgrade, supported upgrades, and technology upgrade made in this release. It also highlights the discontinued features, bug fixes, and known issues in this release.
<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.

Change Log

Revision	Last Update	Updated Section	Comments
12.1	06-Jun-2017	Appendix D.14: C1_DSPT_REQ_LOG_PARM	Updated Information
12.2	08-Jun-2017	Section 2.6: Upgrading the ORMB Database	Added Information
12.3	19-Jun-2017	Section 2.3.2: Installing Rollup Pack for OUAF Version 4.3.0.4.0	Added Information
		Section 2.7: Migrating Data	Added Information
12.4	20-Aug-2019	Section 2: Upgrading from ORMB Version 2.5.0.4.0 to 2.6.0.0.0	Added Information about the Single-Step Utility

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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.

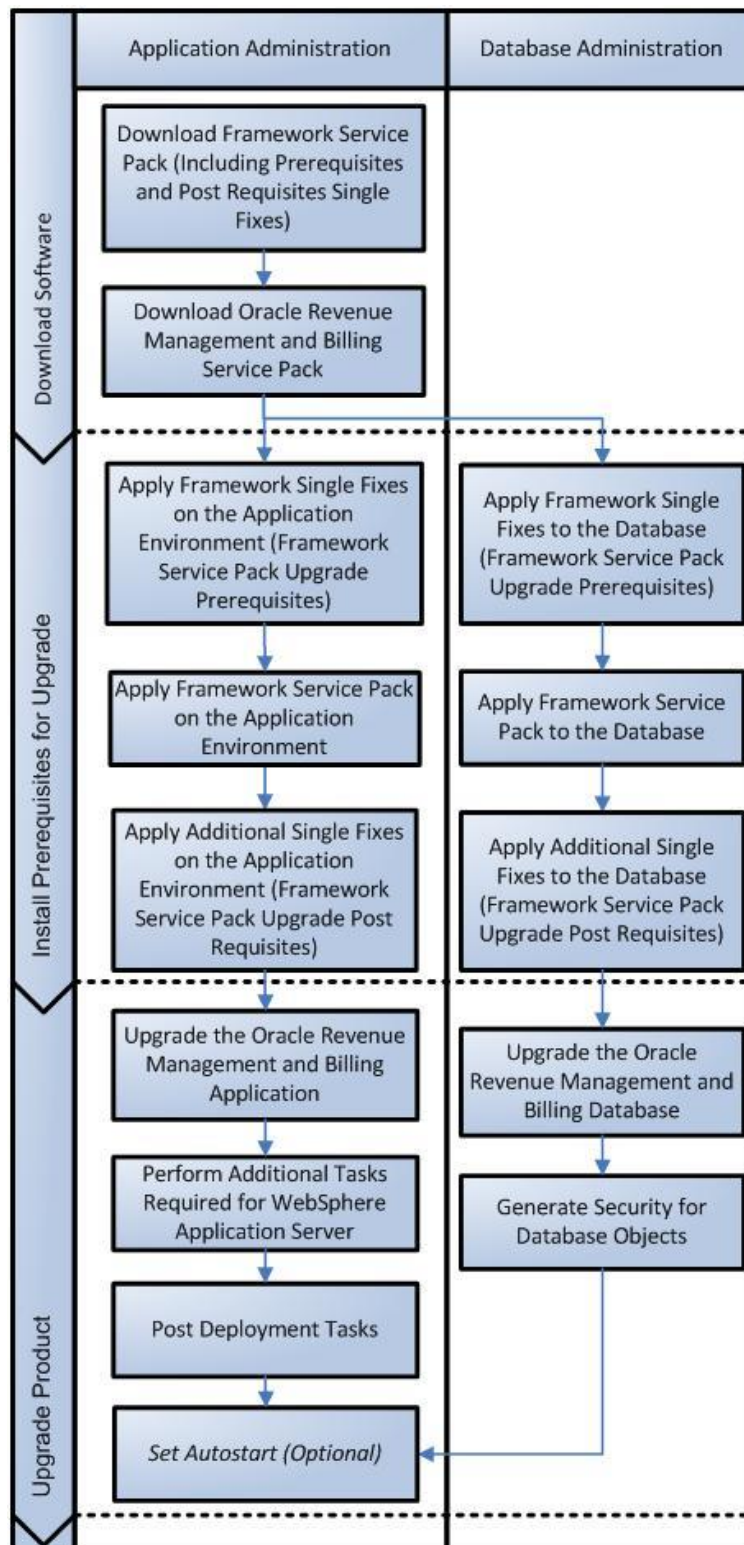


Figure 1 : Upgrade Process

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 2.5.0.4.0 to 2.6.0.0.0

Note: For upgrading from any other version of Oracle Revenue Management and Billing other than 2.5.0.4.0, consult with Oracle Support, Oracle Partner, or Oracle Consulting that may be supporting your implementation and upgrade process.

2. Upgrading from ORMB Version 2.5.0.4.0 to 2.6.0.0.0

This section explains how to upgrade from Oracle Revenue Management and Billing Version 2.5.0.4.0 to 2.6.0.0.0. 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.

You can upgrade the database either manually by following the steps listed in this document or automatically using the single-step utility. Oracle Revenue Management and Billing provides the single-step utility which helps to upgrade the database from any previous version (not older than V2.3.0.2.0) to the current version. You can download the single-step utility from the UTILITIES PROVIDING A SINGLE STEP PROCESS FOR DATABASE UPGRADE patch (Patch Number: 25895460) which is available on [My Oracle Support](#). To understand how to execute the single-step utility, refer to the documentation available in the patch. At present, the single-step utility is only supported on the Windows environment.

To improve the performance of the SQL queries executed for data migration, you can execute a Java utility for setting degree of parallelism. This Java utility must be used in conjunction with the single-step utility. It must be executed before executing the single-step utility. You can download this utility from the JAVA UTILITY FOR SETTING DEGREE OF PARALLELISM IN DATA MIGRATIONS SQLS patch (Patch Number: 28226772) which is available on [My Oracle Support](#). To understand how to execute this Java utility, refer to the documentation available in the patch. At present, this utility is only supported on the Windows environment.

2.1 Prerequisites

If you are already using the Transaction Feed Management feature and want to upgrade to Oracle Revenue Management and Billing Version 2.6.0.0.0, 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 2.5.0.4.0 will not happen successfully.
- Transactions which are uploaded using 2.5.0.4.0 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.

2.2 Downloading the ORMB Packages and Patches

For upgrading from Oracle Revenue Management and Billing Version 2.5.0.4.0 to 2.6.0.0.0, you must download the following packages from the Oracle Revenue Management and Billing V2.6.0.0.0 media pack which is available on [Oracle Software Delivery Cloud](#):

- Oracle Utilities Application Framework V4.3.0.4.0 Multiplatform
- Oracle Utilities Application Framework V4.3.0.4.0 Single Fix Prerequisite Rollup for RMB V2.6.0.0.0
- Oracle Revenue Management and Billing V2.6.0.0.0 Multiplatform
- Oracle Revenue Management and Billing V2.6.0.0.0 Oracle Database

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

1. Mandatory Rollup Pack 1 ORMB Version for 2.6.0.0.0 (Patch Number: 26077327)
2. Mandatory Rollup Pack 2 ORMB Version for 2.6.0.0.0 (Patch Number: 26134252)
3. UPDATE ORMB Version 2.6.0.0.0 ONLINE HELP (Patch Number: 26076937)

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 2.5.0.4.0 to 2.6.0.0.0, you need to install the following on the database:

1. Oracle Utilities Application Framework (OUAF) Version 4.3.0.4.0
2. Rollup Pack for Oracle Utilities Application Framework (OUAF) Version 4.3.0.4.0

To install the framework and its service packs on the database, you must have ability to connect to the database.

2.3.1 Installing OUAF Version 4.3.0.4.0

You can install Oracle Utilities Application Framework (OUAF) Version 4.3.0.4.0 either using the Interactive or Command Line mode of the OraDBI (Java) utility.

To install Oracle Utilities Application Framework (OUAF) Version 4.3.0.4.0 using the Interactive mode of the utility:

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

```
mkdir TEMPDIR
```

3. Copy the Oracle Revenue Management and Billing V2.6.0.0.0 Oracle Database package to the `TEMPDIR` folder using the following command:

```
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:

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

5. Unzip the Oracle Revenue Management and Billing V2.6.0.0.0 Oracle Database package using the following command:

```
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 following sub-folders:

- FW
- RMB

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

Windows:

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

Linux:

```
export 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:

Linux:

```
export JAR_PATH=<DESTINATION_FOLDER_1>/FW/FW43040/jarfiles
```

Note:

The above command is applicable only for Linux platform.

The `<DESTINATION_FOLDER_1>` folder is the location where you have extracted the contents of the Oracle Revenue Management and Billing V2.6.0.0.0 Oracle Database package.

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

Windows:

```
SET CLASS_PATH=<DESTINATION_FOLDER_1>\FW\FW43040\jarfiles\*
```

Linux:

```
export CLASS_PATH=${JAR_PATH}/ojdbc7-12.1.0.2.jar:${JAR_PATH}/log4j-1.2.17.jar:${JAR_PATH}/commons-collections-3.2.2.jar:${JAR_PATH}/commons-codec-1.9.jar:${JAR_PATH}/commons-cli-1.1.jar:${JAR_PATH}/spl-shared-4.3.0.4.0.jar:${JAR_PATH}/oradbi.jar
```

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

Windows:

```
cd <DESTINATION_FOLDER_1>\FW\FW43040\Install-Upgrade
```

Linux:

```
cd <DESTINATION_FOLDER_1>/FW/FW43040/Install-Upgrade
```

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

Windows:

```
<Java_Home>\bin\java -Xmx1500M -cp
<DESTINATION_FOLDER_1>\FW\FW43040\jarfiles\*
com.oracle.ouaf.oem.install.OraDBI
```

Linux:

```
${JAVA_HOME}/bin/java -Xmx1500M -cp ${CLASS_PATH}
com.oracle.ouaf.oem.install.OraDBI
```

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

Parameter	Value
Enter the database server hostname	<DB_SERVER>
Enter the database port number(e.g. 1521)	<DB_PORT>
Enter the database name/SID	<DB_NAME>
Enter your database username	<DB_USER> Example: CISADM
Enter your password for username <DB_USER>	<CISADM_PASSWORD>
Enter the location for Java Home (e.g. C:\Java\jdk1.6.0_18)	..\jdk1.8.0_111
Enter the Oracle user with read-write privileges to Database Schema(e.g. CISUSER)	<DB_USER> Example: CISUSER
Enter the Oracle user with read-only privileges to Database Schema(e.g. CISREAD)	<DB_USER> Example: CISREAD
Enter the database role with read-write privileges to Database Schema(e.g. CIS_USER)	<DB_USER_ROLE> Example: CIS_USER
Enter the database role with read-only privileges to Database Schema(e.g. CIS_READ)	<DB_USER_ROLE> Example: CIS_READ
Enter the name of the target Schema where you want to install or upgrade	<Schema_Name>

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

```
Ready to upgrade the target database from V4.3.0.3.0 to
V4.3.0.4.0, do you want to continue (Y/N)?
```

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

To install Oracle Utilities Application Framework (OUAF) Version 4.3.0.4.0 using the Command Line mode of the utility:

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

```
mkdir TEMPDIR
```

3. Copy the Oracle Revenue Management and Billing V2.6.0.0.0 Oracle Database package to the `TEMPDIR` folder using the following command:

```
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:

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

5. Unzip the Oracle Revenue Management and Billing V2.6.0.0.0 Oracle Database package using the following command:

```
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 following sub-folders:

- FW
- RMB

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

Windows:

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

Linux:

```
export 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:

Linux:

```
export JAR_PATH=<DESTINATION_FOLDER_1>/FW/FW43040/jarfiles
```

Note:

The above command is applicable only for Linux platform.

The `<DESTINATION_FOLDER_1>` folder is the location where you have extracted the contents of the Oracle Revenue Management and Billing V2.6.0.0.0 Oracle Database package.

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

Windows:

```
SET CLASS_PATH=<DESTINATION_FOLDER_1>\FW\FW43040\jarfiles\*
```

Linux:

```
export CLASS_PATH=${JAR_PATH}/ojdbc7-12.1.0.2.jar:${JAR_PATH}/log4j-1.2.17.jar:${JAR_PATH}/commons-collections-3.2.2.jar:${JAR_PATH}/commons-codec-1.9.jar:${JAR_PATH}/commons-cli-1.1.jar:${JAR_PATH}/spl-shared-4.3.0.4.0.jar:${JAR_PATH}/oradbi.jar
```

9. Create the detail.txt file with the following details:

```
-d jdbc:oracle:thin:@<Database-host>:<port>/<DB-SID>,<schema-user>,<schema-password>,<read-write-user>,<read-user>,<read-write-role>,<read-role>,<schema-user> -l 1,2 -j <JAVA_HOME> -q true
```

10. Change to the Install-Upgrade directory using the following command:

Windows:

```
cd <DESTINATION_FOLDER_1>\FW\FW43040\Install-Upgrade
```

Linux:

```
cd <DESTINATION_FOLDER_1>/FW/FW43040/Install-Upgrade
```

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

Windows:

```
<Java_Home>\bin\java -Xmx1500M -cp <DESTINATION_FOLDER_1>\FW\FW43040\jarfiles\* com.oracle.ouaf.oem.install.OraDBI -f detail.txt
```

Linux:

```
${JAVA_HOME}/bin/java -Xmx1500M -cp ${CLASS_PATH} com.oracle.ouaf.oem.install.OraDBI -f detail.txt
```

A message appears indicating that the process is completed successfully.

2.3.2 Installing Rollup Pack for OUAF Version 4.3.0.4.0

You can install the rollup pack for Oracle Utilities Application Framework Version 4.3.0.4.0 from a Windows machine and UNIX Standalone server. To install the rollup pack for Oracle Utilities Application Framework (OUAF) Version 4.3.0.4.0 on the database:

1. Copy the Oracle Utilities Application Framework V4.3.0.4.0 Single Fix Prerequisite Rollup for RMB V2.6.0.0.0 package to the TEMPDIR folder using the following command:

```
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:

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

3. Unzip the Oracle Utilities Application Framework V4.3.0.4.0 Single Fix Prerequisite Rollup for RMB V2.6.0.0.0 package using the following command:

```
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-V26000-FW-PREREQ-MultiPlatform.jar` file.

4. Change to `<DESTINATION_FOLDER_2>` using the following command:

Linux:

```
cd <PATH>/<DESTINATION_FOLDER_2>
```

Windows:

```
cd <PATH>\<DESTINATION_FOLDER_2>
```

5. Decompress the JAR file using the following command:

```
jar -xvf ORMB-V26000-FW-PREREQ-MultiPlatform.jar
```

A sub-directory named `FW-V4.3.0.4.0-Rollup` is extracted. It contains the following two sub-folders:

- Application
- Database

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

Linux:

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

Windows:

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

7. Create a directory named `dbpatch_tools` using the following command:

```
mkdir dbpatch_tools
```

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

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

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

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:

Linux:

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

Windows:

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

13. Change to the Database directory using the following command:

Linux:

```
cd <DESTINATION_FOLDER_2>/FW-V4.3.0.4.0-Rollup/Database
```

Windows:

```
cd <DESTINATION_FOLDER_2>\FW-V4.3.0.4.0-Rollup\Database
```

Note: The `<DESTINATION_FOLDER_3>` folder is the location where you have extracted the contents of the `ORMB-V26000-FW-PREREQ-MultiPlatform.jar` file.

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

Linux:

```
ouafDatabasePatch.sh
```

Windows:

```
ouafDatabasePatch.cmd
```

Note:

In the previous versions of Oracle Revenue Management and Billing, you used to execute the `cdxpatch` utility while installing the rollup pack for Oracle Utilities Application Framework. Henceforth, the `cdxpatch` utility is no longer supported and you need to use the `ouafDatabasePatch` utility.

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>

Parameter	Value
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 4.3.0.4.0. You will have to first change the database user password. For more information on how to change the database user password, refer to [Appendix J: 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 service pack on the database and define security for all database objects, you must install the framework and its service packs on the application environment. You need to install the following on the application environment:

1. Oracle Utilities Application Framework (OUAF) Version 4.3.0.4.0
2. Rollup Pack for Oracle Utilities Application Framework (OUAF) Version 4.3.0.4.0

You cannot perform these steps on the existing environments. You need to 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 4.3.0.4.0

To install Oracle Utilities Application Framework (OUAF) Version 4.3.0.4.0 on the application environment:

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

```
mkdir TEMPDIR
```
3. Copy the Oracle Utilities Application Framework V4.3.0.4.0 Multiplatform package to the `TEMPDIR` folder using the following command:

Linux:

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

Windows:

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

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

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

Linux:

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

Windows:

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

5. Unzip the Oracle Utilities Application Framework V4.3.0.4.0 Multiplatform package using the following command:

Linux:

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

Windows:

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

The contents of the zip file are extracted in the `<DESTINATION_FOLDER_1>` folder. The contents include `FW-V4.3.0.4.0-MultiPlatform.jar` file.

6. Decompress the `FW-V4.3.0.4.0-MultiPlatform.jar` file using the following command:

```
jar -xvf FW-V4.3.0.4.0-MultiPlatform.jar
```

The contents of the JAR file include a folder named `FW.V4.3.0.4.0`.

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 *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 Linux platform.

9. Change to the `FW.V4.3.0.4.0` folder using the following command:

Linux:

```
cd <DESTINATION_FOLDER_1>/FW.V4.3.0.4.0
```

Windows:

```
cd <DESTINATION_FOLDER_1>\FW.V4.3.0.4.0
```

Note: The <DESTINATION_FOLDER_1> folder is the location where you have extracted the contents of the FW-V4.3.0.4.0-MultiPlatform.jar file.

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

Linux:

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

Windows:

```
install.cmd
```

The following message appears in the command line:

```
Enter Oracle Client Home Directory (<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**.

Note: For more details about these menu options, refer to the Environment ID, Roles, Third Party Software Configuration section in *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**.

Note: For more details about these menu options, refer to the Keystore Options section in *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 directory named Log File Mount Point. If this output directory 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 *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:

- Environment Description
- Business Application Server Configuration
- Web Application Server Configuration
- Database Configuration
- General Configuration Options
- SSL Certificate Keystore
- 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**.

Note: For more details, refer to the Environment Description section in *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**.

Note: For more details, refer to the Business Application Server Configuration section in *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**.

Note: For more details, refer to the Web Application Server Configuration section in *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**.

Note: For more details about these menu options, refer to the Database Configuration section in *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**.

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

29. Type **6** to define values for the SSL certificate keystore 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**.

Note: For more details about these menu options, refer to the SSL Certificate Keystore section in *Oracle Revenue Management and Billing Installation Guide*.

31. Type **7** 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.

32. Specify the required value for menu options, and then press **Enter**.

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

33. Type **P** to proceed with the installation. The Oracle Utilities Application Framework Version 4.3.0.4.0 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 all menu options. Otherwise, the installation process will not be completed successfully.

The values that you specify for the menu options are stored in the `$SPLEBASE/etc/ENVIRON.INI` file.

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 Linux machine, this utility is available in the `$SPLEBASE/bin` directory. And, on the Windows machine, this utility is available in the `%SPLEBASE%\bin` directory.

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

- `$PATH`
- `$SPLEBASE (%SPLEBASE%)` – Indicates the `<SPLDIR>/<SPLENVIRON>` directory
- `$SPLOUTPUT (%SPLOUTPUT%)` - Indicates the `<SPLDIROUT>/<SPLENVIRON>` directory
- `$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:

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, startup 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 4.3.0.4.0

To install the rollup pack for Oracle Utilities Application Framework Version 4.3.0.4.0 on the application environment:

1. Copy the Oracle Utilities Application Framework V4.3.0.4.0 Single Fix Prerequisite Rollup for RMB V2.6.0.0.0 package to the `TEMPDIR` folder using the following command:

Linux:

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

Windows:

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

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

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

Linux:

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

Windows:

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

3. Unzip the Oracle Utilities Application Framework V4.3.0.4.0 Single Fix Prerequisite Rollup for RMB V2.6.0.0.0 package using the following command:

Linux:

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

Windows:

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

The contents of the zip file are extracted in the `<DESTINATION_FOLDER_2>` folder. The contents include the `ORMB-V26000-FW-PREREQ-MultiPlatform.jar` file.

4. Decompress the JAR file using the following command:

```
jar -xvf ORMB-V26000-FW-PREREQ-MultiPlatform.jar
```

A sub-directory named `FW-V4.3.0.4.0-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:

Linux:

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

Windows:

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

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

Linux:

```
cd <DESTINATION_FOLDER_2>/FW-V4.3.0.4.0-Rollup/Application
```

Windows:

```
cd <DESTINATION_FOLDER_2>\FW-V4.3.0.4.0-Rollup\Application
```

Note: The <DESTINATION_FOLDER_2> folder is the location where you have extracted the contents of the ORMB-V26000-FW-PREREQ-MultiPlatform.jar file.

7. Execute the installSFgroup utility using the following command:

Linux:

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

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

```
./installSFgroup.sh
```

Windows:

```
installSFgroup.cmd
```

The following message appears in the command line:

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

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

2.5 Installing the ORMB Application

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

1. Oracle Revenue Management and Billing (ORMB) Version 2.6.0.0.0

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.

2.5.1 Installing ORMB Version 2.6.0.0.0

To install Oracle Revenue Management and Billing (ORMB) Version 2.6.0.0.0 on the application environment:

1. Login to the application server using the administrator's credentials.
2. Copy the Oracle Oracle Revenue Management and Billing V2.6.0.0.0 Multiplatform package to the TEMPDIR folder using the following command:

Linux:

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

Windows:

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

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

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

Linux:

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

Windows:

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

4. Unzip the Oracle Revenue Management and Billing V2.6.0.0.0 Multiplatform package using the following command:

Linux:

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

Windows:

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

The contents of the zip file are extracted in the <DESTINATION_FOLDER_3> folder. The contents include ORMB.V2.6.0.0.0 folder.

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

Linux:

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

Windows:

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

6. Stop the application environment using the following command:

Linux:

```
$SPLBASE/bin/spl.sh stop
```

Windows:

```
%SPLEBASE%\bin\spl.cmd stop
```

7. Set the Java Home path using the following command:

Linux:

```
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 Linux platform.

8. Change to the ORMB.V2.6.0.0.0 folder using the following command:

Linux:

```
cd <DESTINATION_FOLDER_3>/ORMB.V2.6.0.0.0
```

Windows:

```
cd <DESTINATION_FOLDER_3>\ORMB.V2.6.0.0.0
```

9. Execute the install utility using the following command:

Linux:

```
./install.sh
```

Windows:

```
install.cmd
```

The following message appears in the command line:

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

10. Type **Y** and then press **Enter**. A message appears informing you to type P if you want to proceed with the installation.
11. Type **P**, and then press **Enter**. The installation process might take some time to generate the WAR files. Once the build is deployed successfully, the following message appears in the command line:

```
Do you wish to start the environment now? Y/N:
```

12. Type **N** and then press **Enter**.

Note:

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

Linux:

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

Windows:

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

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

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

Linux:

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

Windows:

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

14. If you are using demo certificates, execute the following commands before starting the environment:

Linux:

```
cd $SPLEBASE/bin
perl demo_gen_cert.plx
```

Windows:

```
cd %SPLEBASE%\bin
perl demo_gen_cert.plx
```

2.5.2 Post Installation Tasks

Once you install Oracle Revenue Management and Billing (ORMB) Version 2.6.0.0.0, you need to apply the following patches on the application environment:

- MANDATORY PATCH 1 FOR ORMB VERSION 2.6.0.0.0 (Patch Number: 26077327)
- MANDATORY PATCH 2 FOR ORMB VERSION 2.6.0.0.0 (Patch Number: 26134252)
- UPDATE ORMB VERSION 2.6.0.0.0 ONLINE HELP (Patch Number: 26076937)

2.5.2.1 Applying the 26077327 Patch

Once you install ORMB, you need to apply the MANDATORY PATCH 1 FOR ORMB VERSION 2.6.0.0.0 patch (Patch Number: 26077327). To apply the MANDATORY PATCH 1 FOR ORMB VERSION 2.6.0.0.0 patch:

1. Copy the MANDATORY PATCH 1 FOR ORMB VERSION 2.6.0.0.0 patch to the `TEMPDIR` folder using the following command:

Linux:

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

Windows:

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

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

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

Linux:

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

Windows:

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

3. Unzip the MANDATORY PATCH 1 FOR ORMB VERSION 2.6.0.0.0 patch using the following command:

Linux:

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

Windows:

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

The contents of the zip file are extracted in the `<DESTINATION_FOLDER_4>` folder. The contents include three files - `README.txt`, `MultiPlatform.zip`, and `Bug_26077327_Product_Fix_Design.pdf`.

4. Unzip the `MultiPlatform` file using the following command:

Linux:

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

Windows:

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

The contents of the zip file are extracted in the `<DESTINATION_FOLDER_5>` folder. The contents include the `V2.6.0.0.0-26077327_MultiPlatform` folder.

5. Change to the `V2.6.0.0.0-26077327_MultiPlatform` folder using the following command:

Linux:

```
cd <DESTINATION_FOLDER_5>/V2.6.0.0.0-26077327_MultiPlatform
```

Windows:

```
cd <DESTINATION_FOLDER_5>\V2.6.0.0.0-26077327_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.V2.6.0.0.0-26077327.jar` and a folder named `database`.

6. Decompress the `CCB.V2.6.0.0.0-26077327.jar` file using the following command:

```
jar -xvf CCB.V2.6.0.0.0-26077327.jar
```

The contents include two folders - `META-INF` and `CCB.V2.6.0.0.0-26077327`.

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

Linux:

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

Windows:

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

8. Change to the CCB.V2.6.0.0.0-26077327 folder using the following command:

Linux:

```
cd <DESTINATION_FOLDER_5>/V2.6.0.0.0-  
26077327_MultiPlatform/CCB.V2.6.0.0.0-26077327
```

Windows:

```
cd <DESTINATION_FOLDER_5>\V2.6.0.0.0-  
26077327_MultiPlatform\CCB.V2.6.0.0.0-26077327
```

Note: The V2.6.0.0.0-26077327_MultiPlatform folder is the location where you have extracted the contents of the CCB.V2.6.0.0.0-26077327.jar file.

9. Install the patch using the following command:

Linux:

```
./installSF.sh
```

Windows:

```
installSF.cmd
```

2.5.2.2 Applying the 26134252 Patch

Once you apply the MANDATORY PATCH 1 FOR ORMB VERSION 2.6.0.0.0 patch, you need to apply the MANDATORY PATCH 2 FOR ORMB VERSION 2.6.0.0.0 patch (Patch Number: 26134252). To apply the MANDATORY PATCH 2 FOR ORMB VERSION 2.6.0.0.0 patch:

1. Copy the MANDATORY PATCH 2 FOR ORMB VERSION 2.6.0.0.0 patch to the TEMPDIR folder using the following command:

Linux:

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

Windows:

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

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

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

Linux:

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

Windows:

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

3. Unzip the MANDATORY PATCH 2 FOR ORMB VERSION 2.6.0.0.0 patch using the following command:

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 three files - README.txt, MultiPlatform.zip, and Bug_26134252_Product_Fix_Design.pdf.

4. Unzip the MultiPlatform file using the following command:

Linux:

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

Windows:

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

The contents of the zip file are extracted in the <DESTINATION_FOLDER_7> folder. The contents include the V2.6.0.0.0-26134252_MultiPlatform folder.

5. Change to the V2.6.0.0.0-26134252_MultiPlatform folder using the following command:

Linux:

```
cd <DESTINATION_FOLDER_7>/V2.6.0.0.0-26134252_MultiPlatform
```

Windows:

```
cd <DESTINATION_FOLDER_7>\V2.6.0.0.0-26134252_MultiPlatform
```

Note: The <DESTINATION_FOLDER_7> folder is the location where you have extracted the contents of the MultiPlatform.zip file.

The contents include a file named CCB.V2.6.0.0.0-26134252.jar and a folder named database.

6. Decompress the CCB.V2.6.0.0.0-26134252.jar file using the following command:

```
jar -xvf CCB.V2.6.0.0.0-26134252.jar
```

The contents include two folders - META-INF and CCB.V2.6.0.0.0-26134252.

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

Linux:

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

Windows:

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

8. Change to the CCB.V2.6.0.0.0-26134252 folder using the following command:

Linux:

```
cd <DESTINATION_FOLDER_7>/V2.6.0.0.0-  
26134252_MultiPlatform/CCB.V2.6.0.0.0-26134252
```

Windows:

```
cd <DESTINATION_FOLDER_7>\V2.6.0.0.0-  
26134252_MultiPlatform\CCB.V2.6.0.0.0-26134252
```

Note: The V2.6.0.0.0-26134252_MultiPlatform folder is the location where you have extracted the contents of the CCB.V2.6.0.0.0-26134252.jar file.

9. Install the patch using the following command:

Linux:

```
./installSF.sh
```

Windows:

```
installSF.cmd
```

2.5.2.3 Applying the 26076937 Patch

Once you apply the MANDATORY PATCH 2 FOR ORMB VERSION 2.6.0.0.0 patch, you need to apply the UPDATE ORMB VERSION 2.6.0.0.0 ONLINE HELP patch (Patch Number: 26076937). To apply the UPDATE ORMB VERSION 2.6.0.0.0 ONLINE HELP patch:

1. Copy the UPDATE ORMB VERSION 2.6.0.0.0 ONLINE HELP patch to the TEMPDIR folder using the following command:

Linux:

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

Windows:

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

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

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

Linux:

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

Windows:

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

3. Unzip the UPDATE ORMB VERSION 2.6.0.0.0 ONLINE HELP patch using the following command:

Linux:

```
unzip <filename>.zip -d <PATH>/<DESTINATION_FOLDER_8>
```

Windows:

```
unzip <filename>.zip -d <PATH>\<DESTINATION_FOLDER_8>
```

The contents of the zip file are extracted in the <DESTINATION_FOLDER_8> folder. The contents include three files - README.txt, MultiPlatform.zip, and Bug_26076937_Product_Fix_Design.pdf.

4. Unzip the MultiPlatform file using the following command:

Linux:

```
unzip <DESTINATION_FOLDER_8>/MultiPlatform.zip -d  
<PATH>/<DESTINATION_FOLDER_9>
```

Windows:

```
unzip <DESTINATION_FOLDER_8>\MultiPlatform.zip -d  
<PATH>\<DESTINATION_FOLDER_9>
```

The contents of the zip file are extracted in the <DESTINATION_FOLDER_9> folder. The contents include the V2.6.0.0.0-26076937_MultiPlatform folder.

5. Change to the V2.6.0.0.0-26076937_MultiPlatform folder using the following command:

Linux:

```
cd <DESTINATION_FOLDER_9>/V2.6.0.0.0-26076937_MultiPlatform
```

Windows:

```
cd <DESTINATION_FOLDER_9>\V2.6.0.0.0-26076937_MultiPlatform
```

Note: The <DESTINATION_FOLDER_9> folder is the location where you have extracted the contents of the MultiPlatform.zip file.

The contents include a file named CCB.V2.6.0.0.0-26076937.jar.

6. Decompress the CCB.V2.6.0.0.0-26076937.jar file using the following command:

```
jar -xvf CCB.V2.6.0.0.0-26076937.jar
```

The contents include two folders - META-INF and CCB.V2.6.0.0.0-26076937.

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

Linux:

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

Windows:

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

8. Change to the CCB.V2.6.0.0.0-26076937 folder using the following command:

Linux:

```
cd <DESTINATION_FOLDER_9>/V2.6.0.0.0-  
26076937_MultiPlatform/CCB.V2.6.0.0.0-26076937
```

Windows:

```
cd <DESTINATION_FOLDER_9>\V2.6.0.0.0-  
26076937_MultiPlatform\CCB.V2.6.0.0.0-26076937
```

Note: The V2.6.0.0.0-26076937_MultiPlatform folder is the location where you have extracted the contents of the CCB.V2.6.0.0.0-26076937.jar file.

9. Install the patch using the following command:

Linux:

```
./installSF.sh
```

Windows:

```
installSF.cmd
```

10. Start the application environment using the following command:

Linux:

```
$SPLEBASE/bin/spl.sh start
```

Windows:

```
%SPLEBASE%\bin\spl.cmd start
```

A log file is generated. It indicates whether the application environment has started successfully or not. If any error occurred during startup, the same is recorded in the log file. By default, the log file is stored in the \$SPLSYSTEMLOGS (%SPLSYSTEMLOGS% on Windows) directory.

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
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 2.5.0.4.0 to 2.6.0.0.0, you need to install the following on the database:

1. Oracle Revenue Management and Billing (ORMB) Version 2.6.0.0.0
2. MANDATORY PATCH 1 FOR ORMB VERSION 2.6.0.0.0 (Patch Number: 26077327)
3. MANDATORY PATCH 2 FOR ORMB VERSION 2.6.0.0.0 (Patch Number: 26134252)

Note:

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 2.6.0.0.0 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 2.6.0.0.0

You can install Oracle Revenue Management and Billing (ORMB) Version 2.6.0.0.0 either using the Interactive or Command Line mode of the OraDBI (Java) utility. To install Oracle Revenue Management and Billing (ORMB) Version 2.6.0.0.0 using the Interactive mode of the utility:

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

Windows:

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

Linux:

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

Note: The `<JAVA_HOME_PATH>` is the location where Java Development Kit Version 8.0 is installed.

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

Linux:

```
export JAR_PATH=<DESTINATION_FOLDER_1>/RMB/jarfiles
```

Note:

The above command is applicable only for Linux platform.

The `<DESTINATION_FOLDER_1>` folder is the location where you have extracted the contents of the Oracle Revenue Management and Billing V2.6.0.0.0 Oracle Database package.

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

Windows:

```
SET CLASS_PATH=<DESTINATION_FOLDER_1>\RMB\jarfiles\*
```

Linux:

```
export CLASS_PATH=${JAR_PATH}/ojdbc7-
12.1.0.2.jar:${JAR_PATH}/log4j-1.2.17.jar:${JAR_PATH}/commons-
collections-3.2.2.jar:${JAR_PATH}/commons-codec-
1.9.jar:${JAR_PATH}/commons-cli-1.1.jar:${JAR_PATH}/spl-shared-
4.3.0.4.0.jar:${JAR_PATH}/oradbi.jar
```

4. Change to the Install-Upgrade directory using the following command:

Windows:

```
cd <DESTINATION_FOLDER_1>\RMB\Upgrade\Oracle\Install-Upgrade
```

Linux:

```
cd <DESTINATION_FOLDER_1>/RMB/Upgrade/Oracle/Install-Upgrade
```

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

Windows:

```
<Java_Home>\bin\java -Xmx1500M -cp
<DESTINATION_FOLDER_1>\RMB\jarfiles\*
com.oracle.ouaf.oem.install.OraDBI
```

Linux:

```
${JAVA_HOME}/bin/java -Xmx1500M -cp ${CLASS_PATH}
com.oracle.ouaf.oem.install.OraDBI
```

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

Parameter	Value
Enter the database server hostname	<DB_SERVER>
Enter the database port number(e.g. 1521)	<DB_PORT>
Enter the database name/SID	<DB_NAME>
Enter your database username	<DB_USER> Example: CISADM
Enter your password for username <DB_USER>	<CISADM_PASSWORD>
Enter the location for Java Home (e.g. C:\Java\jdk1.6.0_18)	..\jdk1.8.0_111
Enter the Oracle user with read-write privileges to Database Schema(e.g. CISUSER)	<DB_USER> Example: CISUSER
Enter the Oracle user with read-only privileges to Database Schema(e.g. CISREAD)	<DB_USER> Example: CISREAD
Enter the database role with read-write privileges to Database Schema(e.g. CIS_USER)	<DB_USER_ROLE> Example: CIS_USER
Enter the database role with read-only privileges to Database Schema(e.g. CIS_READ)	<DB_USER_ROLE> Example: CIS_READ

Parameter	Value
Enter the name of the target Schema where you want to install or upgrade	<Schema_Name>

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

```
Ready to upgrade the target database from V2.5.0.4.0 to
V2.6.0.0.0, do you want to continue (Y/N)?
```

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

To install Oracle Revenue Management and Billing (ORMB) Version 2.6.0.0.0 using the Command Line mode of the utility:

1. Set the JAVA_HOME environment variable using the following command:

Windows:

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

Linux:

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

Note: The <JAVA_HOME_PATH> is the location where Java Development Kit Version 8.0 is installed.

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

Linux:

```
export JAR_PATH=<DESTINATION_FOLDER_1>/RMB/jarfiles
```

Note:

The above command is applicable only for Linux platform.

The <DESTINATION_FOLDER_1> folder is the location where you have extracted the contents of the Oracle Revenue Management and Billing V2.6.0.0.0 Oracle Database package.

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

Windows:

```
SET CLASS_PATH=<DESTINATION_FOLDER_1>\RMB\jarfiles\*
```

Linux:

```
export CLASS_PATH=${JAR_PATH}/ojdbc7-
12.1.0.2.jar:${JAR_PATH}/log4j-1.2.17.jar:${JAR_PATH}/commons-
collections-3.2.2.jar:${JAR_PATH}/commons-codec-
1.9.jar:${JAR_PATH}/commons-cli-1.1.jar:${JAR_PATH}/spl-shared-
4.3.0.4.0.jar:${JAR_PATH}/oradbi.jar
```

4. Create the detail.txt file with the following details:

```
-d jdbc:oracle:thin:@<Database-host>:<port>/<DB-SID>,<schema-
user>,<schema-password>,<read-write-user>,<read-user>,<read-
```

```
write-role>,<read-role>,<schema-user> -l 1,2 -j <JAVA_HOME> -q
true
```

5. Change to the Install-Upgrade directory using the following command:

Windows:

```
cd <DESTINATION_FOLDER_1>\RMB\Upgrade\Oracle\Install-Upgrade
```

Linux:

```
cd <DESTINATION_FOLDER_1>/RMB/Upgrade/Oracle/Install-Upgrade
```

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

Windows:

```
<Java_Home>\bin\java -Xmx1500M -cp
<DESTINATION_FOLDER_1>\RMB\jarfiles\*
com.oracle.ouaf.oem.install.OraDBI -f detail.txt
```

Linux:

```
${JAVA_HOME}/bin/java -Xmx1500M -cp ${CLASS_PATH}
com.oracle.ouaf.oem.install.OraDBI -f detail.txt
```

A message appears indicating that the process is completed successfully.

2.6.2 Applying the 26077327 Patch

Once you install ORMB, you need to apply the MANDATORY PATCH 1 FOR ORMB VERSION 2.6.0.0.0 patch (Patch Number: 26077327). You can apply this patch from a Windows machine and UNIX Standalone server.

To apply the MANDATORY PATCH 1 FOR ORMB VERSION 2.6.0.0.0 patch:

1. Copy the MANDATORY PATCH 1 FOR ORMB VERSION 2.6.0.0.0 patch to the TEMPDIR folder using the following command:

Linux:

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

Windows:

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

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

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

Linux:

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

Windows:

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

3. Unzip the MANDATORY PATCH 1 FOR ORMB VERSION 2.6.0.0.0 patch using the following command:

Linux:

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

Windows:

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

The contents of the zip file are extracted in the <DESTINATION_FOLDER_2> folder. The contents include three files - README.txt, MultiPlatform.zip, and Bug_26077327_Product_Fix_Design.pdf.

4. Unzip the MultiPlatform file using the following command:

Linux:

```
unzip <DESTINATION_FOLDER_2>/MultiPlatform.zip -d  
<PATH>/<DESTINATION_FOLDER_3>
```

Windows:

```
unzip <DESTINATION_FOLDER_2>\MultiPlatform.zip -d  
<PATH>\<DESTINATION_FOLDER_3>
```

The contents of the zip file are extracted in the <DESTINATION_FOLDER_3> folder. The contents include the V2.6.0.0.0-26077327_MultiPlatform folder.

5. Change to the V2.6.0.0.0-26077327_MultiPlatform folder using the following command:

Linux:

```
cd <DESTINATION_FOLDER_3>/V2.6.0.0.0-26077327_MultiPlatform
```

Windows:

```
cd <DESTINATION_FOLDER_3>\V2.6.0.0.0-26077327_MultiPlatform
```

Note: The <DESTINATION_FOLDER_3> folder is the location where you have extracted the contents of the MultiPlatform.zip file.

The contents include a file named CCB.V2.6.0.0.0-26077327.jar and a folder named database.

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

Linux:

```
cd database/ORACLE
```

Windows:

```
cd database\ORACLE
```

The contents include a zip file named CDXPatch.

7. Unzip the CDXPatch file using the following command:

Linux:

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

Windows:

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

The contents of the zip file are extracted in the <DESTINATION_FOLDER_4> folder. The contents include utility files and a folder named 26077327.

8. Ensure that TOOLSBIN environment variable is set using the following command:

Linux:

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

Windows:

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

Note: The dbpatch_tools folder is the location where you have extracted the contents of db_patch_standalone.jar file.

9. Change to <DESTINATION_FOLDER_4> using the following command:

Linux:

```
cd <PATH>/<DESTINATION_FOLDER_4>
```

Windows:

```
cd <PATH>\<DESTINATION_FOLDER_4>
```

10. Execute the ouafDatabasePatch utility using the following command:

Linux:

```
ouafDatabasePatch.sh
```

Windows:

```
ouafDatabasePatch.cmd
```

2.6.3 Applying the 26134252 Patch

Once you apply the MANDATORY PATCH 1 FOR ORMB VERSION 2.6.0.0.0 patch, you need to apply the MANDATORY PATCH 2 FOR ORMB VERSION 2.6.0.0.0 patch (Patch Number: 26134252). You can apply this patch from a Windows machine and UNIX Standalone server.

To apply the MANDATORY PATCH 2 FOR ORMB VERSION 2.6.0.0.0 patch:

1. Copy the MANDATORY PATCH 2 FOR ORMB VERSION 2.6.0.0.0 patch to the TEMPDIR folder using the following command:

Linux:

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

Windows:

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

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

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

Linux:

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

Windows:

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

3. Unzip the MANDATORY PATCH 2 FOR ORMB VERSION 2.6.0.0.0 patch using the following command:

Linux:

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

Windows:

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

The contents of the zip file are extracted in the `<DESTINATION_FOLDER_5>` folder. The contents include three files - `README.txt`, `MultiPlatform.zip`, and `Bug_26134252_Product_Fix_Design.pdf`.

4. Unzip the `MultiPlatform` file using the following command:

Linux:

```
unzip <DESTINATION_FOLDER_5>/MultiPlatform.zip -d  
<PATH>/<DESTINATION_FOLDER_6>
```

Windows:

```
unzip <DESTINATION_FOLDER_5>\MultiPlatform.zip -d  
<PATH>\<DESTINATION_FOLDER_6>
```

The contents of the zip file are extracted in the `<DESTINATION_FOLDER_6>` folder. The contents include the `V2.6.0.0.0-26134252_MultiPlatform` folder.

5. Change to the `V2.6.0.0.0-26134252_MultiPlatform` folder using the following command:

Linux:

```
cd <DESTINATION_FOLDER_6>/V2.6.0.0.0-26134252_MultiPlatform
```

Windows:

```
cd <DESTINATION_FOLDER_6>\V2.6.0.0.0-26134252_MultiPlatform
```

Note: The `<DESTINATION_FOLDER_6>` folder is the location where you have extracted the contents of the `MultiPlatform.zip` file.

The contents include a file named `CCB.V2.6.0.0.0-26134252.jar` and a folder named `database`.

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

Linux:

```
cd database/ORACLE
```

Windows:

```
cd database\ORACLE
```

The contents include a zip file named CDXPatch.

7. Unzip the CDXPatch file using the following command:

Linux:

```
unzip CDXPatch.zip -d <PATH>/<DESTINATION_FOLDER_7>
```

Windows:

```
unzip CDXPatch.zip -d <PATH>\<DESTINATION_FOLDER_7>
```

The contents of the zip file are extracted in the <DESTINATION_FOLDER_7> folder. The contents include utility files and a folder named 26134252.

8. Ensure that TOOLSBIN environment variable is set using the following command:

Linux:

```
export TOOLSBIN=/TMPDIR/dbpatch_tools/bin
```

Windows:

```
SET TOOLSBIN=TMPDIR\dbpatch_tools\bin
```

Note: The dbpatch_tools folder is the location where you have extracted the contents of db_patch_standalone.jar file.

9. Change to <DESTINATION_FOLDER_7> using the following command:

Linux:

```
cd <PATH>/<DESTINATION_FOLDER_7>
```

Windows:

```
cd <PATH>\<DESTINATION_FOLDER_7>
```

10. Execute the ouafDatabasePatch utility using the following command:

Linux:

```
ouafDatabasePatch.sh
```

Windows:

```
ouafDatabasePatch.cmd
```

2.7 Migrating Data

Once you upgrade the database, you can migrate the data from Oracle Revenue Management and Billing Version 2.5.0.4.0 to 2.6.0.0.0.

Pre-requisites:

To migrate the data from ORMB Version 2.5.0.4.0 to 2.6.0.0.0:

1. Create a batch named CM_U0426 using the following information:
 - **Description** – Upgrade from 2.5.0.4.0 to 2.6.0.0.0
 - **Program Name** - com.splwg.ccb.domain.customerinfo.address.AddressUpgradeBatch
 - **Application Service** - F1-DFLTAPS

To migrate the data from ORMB Version 2.5.0.4.0 to 2.6.0.0.0, execute the CM_U0426 batch in Oracle Revenue Management and Billing.

Note: For more information about the batch, refer to the [Appendix I: Batch for 2.5.0.4.0 to 2.6.0.0.0 Data Migration](#).

3. Additional Tasks

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

Generating the Application Viewer

Starting the Thread Pool Worker

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:

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:

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 any other 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:

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:

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:

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 *Oracle Revenue Management and Billing Version 2.6.0.0.0 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 2.6.0.0.0

This section lists and describes the tables that are newly added in the Oracle Revenue Management and Billing Version 2.6.0.0.0 database.

C.1 C1_ACCT_ECR_ELIGIBILITY

Purpose:	Used to store earnings credit rate eligibility for an account.
Total Number of Columns:	8

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
ECR_ID	CHAR(10)	No	-
ACCT_ID	CHAR(10)	No	-
FT_DIST_TYPE_CD	CHAR(30)	No	-
ECR_ELIGIBILITY_SW	CHAR(1)	No	-
ECR_OFFSET_ELIGIBILITY_SW	CHAR(1)	No	-
PRIORITY_NUM	NUMBER(5)	Yes	-
EXP_CYC_FRQ	VARCHAR2(254)	No	-
VERSION	NUMBER(5)	No	1

Primary Key:

Key Type	Column Name
SINGLE	ECR_ID

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XT622P0	Unique	ECR_ID

C.2 C1_ACCT_ECR_ELIGIBILITY_K

Purpose:	Used to store earnings credit rate ID.
Total Number of Columns:	2

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
ECR_ID	CHAR(10)	No	-
ENV_ID	NUMBER(6)	No	-

Primary Key:

Key Type	Column Name
COMPOSITE	ECR_ID
	ENV_ID

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XT630PO	UNIQUE	ECR_ID
			ENV_ID

C.3 CI_ACCT_PER_ROUTING

Purpose:	Used to store bill routing information of a person linked to the account.
Total Number of Columns:	12

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
ACCT_ID	CHAR(10)	No	-
PER_ID	CHAR(10)	No	-
BILL_RTE_TYPE_CD	CHAR(8)	No	-
SEQ_NUM	NUMBER(5)	No	-
RECEIVE_COPY_SW	CHAR(1)	No	''
BILL_FORMAT_FLG	CHAR(2)	No	''
NBR_BILL_COPIES	NUMBER(1)	No	1
CUST_PO_ID	VARCHAR2(20)	No	''
NOTIFY_SW	CHAR(1)	No	''
BILL_ADDR_SRCE_FLG	CHAR(4)	No	''
ADDRESS_ID	CHAR(12)	No	''

Column Name	Data Type	Nullable (Yes or No)	Default Value
VERSION	NUMBER(5)	Yes	-

Primary Key:

Key Type	Column Name
COMPOSITE	ACCT_ID
	PER_ID
	BILL_RTE_TYPE_CD

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XT991S0	NORMAL	ADDRESS_ID
2.	XT992P0	UNIQUE	ACCT_ID
			PER_ID
			BILL_RTE_TYPE_CD

C.4 C1_ACCRUAL

Purpose:	Used to store the details of an accrual.
Total Number of Columns:	24

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
ACCR_ID	CHAR(19)	No	-
SA_ID	CHAR(10)	No	-
ACCT_ID	CHAR(10)	Yes	-
CIS_DIVISION	CHAR(5)	Yes	-
ACCR_CYC_CD	CHAR(4)	Yes	-
ACCR_TYPE_CD	CHAR(30)	No	-
ACCR_DT	DATE	Yes	-
REV_START_DT	DATE	Yes	-
REV_END_DT	DATE	Yes	-
SOURCE_FLG	CHAR(4)	Yes	-

Column Name	Data Type	Nullable (Yes or No)	Default Value
FREEZE_SW	CHAR(1)	Yes	-
BUS_OBJ_CD	CHAR(30)	No	-
BO_STATUS_CD	CHAR(12)	No	-
BO_STATUS_REASON_CD	VARCHAR2(30)	Yes	-
BO_DATA_AREA	CLOB	Yes	-
VERSION	NUMBER(5)	Yes	1
TRIAL_BILL_ID	CHAR(12)	Yes	-
CRE_DTTM	DATE	Yes	-
ILM_ARCH_SW	CHAR(1)	Yes	-
ILM_DT	DATE	Yes	-
POST_METH	CHAR(4)	Yes	-
TOT_AMT	NUMBER(15,2)	No	0
STATUS_UPD_DTTM	DATE	Yes	-
COMMENTS	VARCHAR2(254)	Yes	-

Primary Key:

Key Type	Column Name
SINGLE	ACCR_ID

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XF710P0	UNIQUE	ACCR_ID
2.	XF710R01	NORMAL	BUS_OBJ_CD
			BO_STATUS_CD
			ACCR_ID

C.5 C1_ACCR_CYC

Purpose:	Used to store the details of an accrual cycle.
Total Number of Columns:	6

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
ACCR_CYC_CD	CHAR(4)	N	-
VERSION	NUMBER(5)	N	1
BUS_OBJ_CD	CHAR(30)	N	''
BO_STATUS_CD	CHAR(12)	N	''
BO_STATUS_REASON_CD	VARCHAR2(30)	Y	-
BO_DATA_AREA	CLOB	Y	-

Primary Key:

Key Type	Column Name
SINGLE	ACCR_CYC_CD

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XT982P0	UNIQUE	ACCR_CYC_CD
2.	XF702R01	NORMAL	BUS_OBJ_CD
			BO_STATUS_CD
			ACCR_CYC_CD

C.6 C1_ACCR_CYC_L

Purpose:	Used to store description of an accrual cycle.
Total Number of Columns:	4

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
ACCR_CYC_CD	CHAR(4)	No	-
LANGUAGE_CD	CHAR(3)	No	-
DESCR	VARCHAR2(60)	No	-
VERSION	NUMBER(5)	No	1

Primary Key:

Key Type	Column Name
COMPOSITE	ACCR_CYC_CD
	LANGUAGE_CD

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XF701P0	UNIQUE	ACCR_CYC_CD
			LANGUAGE_CD

C.7 C1_ACCR_CYC_SCH

Purpose:	Used to store the schedule periods of an accrual cycle.
Total Number of Columns:	5

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
ACCR_CYC_CD	CHAR(4)	No	-
ACCR_DT	DATE	No	-
REV_START_DT	DATE	No	-
REV_END_DT	DATE	Yes	-
VERSION	NUMBER(5)	No	1

Primary Key:

Key Type	Column Name
COMPOSITE	ACCR_CYC_CD
	ACCR_DT

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XF705P0	UNIQUE	ACCR_CYC_CD
			ACCR_DT

C.8 C1_ACCRUAL_DTLS

Purpose:	Used to store the calculation details of an accrual.
Total Number of Columns:	8

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
ACCR_ID	CHAR(19)	N	-
SEQNO	NUMBER(5)	N	-
PRICEITEM_CD	CHAR(30)	Y	-
AMOUNT	NUMBER(15,2)	N	0
CURRENCY_CD	CHAR(3)	N	''
OVRD_REASON	VARCHAR2(254)	Y	-
ENTITY_ID	CHAR(12)	Y	-
VERSION	NUMBER(5)	Y	1

Primary Key:

Key Type	Column Name
COMPOSITE	ACCR_ID
	SEQNO

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XF711P0	UNIQUE	ACCR_ID
			SEQNO

C.9 C1_ACCRUAL_K

Purpose:	Used to store the accrual ID.
Total Number of Columns:	2

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
ACCR_ID	CHAR(19)	No	-

Column Name	Data Type	Nullable (Yes or No)	Default Value
ENV_ID	NUMBER(6)	No	-

Primary Key:

Key Type	Column Name
COMPOSITE	ACCR_ID
	ENV_ID

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XF719P0	UNIQUE	ACCR_ID
			ENV_ID

C.10 C1_ACCRUAL_LOG

Purpose:	Used to store logs of an accrual.
Total Number of Columns:	20

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
ACCR_ID	CHAR(19)	No	-
SEQNO	NUMBER(5)	No	-
LOG_ENTRY_TYPE_FLG	CHAR(4)	Yes	-
BO_STATUS_CD	CHAR(12)	Yes	-
DESCRLONG	VARCHAR2(4000)	Yes	-
MESSAGE_CAT_NBR	NUMBER(5)	Yes	-
MESSAGE_NBR	NUMBER(5)	Yes	-
CHAR_TYPE_CD	CHAR(8)	Yes	-
CHAR_VAL	CHAR(16)	Yes	-
ADHOC_CHAR_VAL	VARCHAR2(254)	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	-

Column Name	Data Type	Nullable (Yes or No)	Default Value
CHAR_VAL_FK5	VARCHAR2(50)	Yes	-
SRCH_CHAR_VAL	VARCHAR2(254)	Yes	-
USER_ID	CHAR(8)	Yes	-
BO_STATUS_REASON_CD	VARCHAR2(30)	Yes	-
LOG_DTTM	DATE	Yes	-
VERSION	NUMBER(5)	Yes	1

Primary Key:

Key Type	Column Name
COMPOSITE	ACCR_ID
	SEQNO

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XF717P0	UNIQUE	ACCR_ID
			SEQNO

C.11 C1_ACCRUAL_LOG_PARM

Purpose:	Used to store accrual's log parameters.
Total Number of Columns:	6

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
ACCR_ID	CHAR(19)	N	-
SEQNO	NUMBER(5)	N	-
PARM_SEQ	NUMBER(3)	N	-
MSG_PARM_TYP_FLG	CHAR(4)	Y	-
MESSAGE_PARM	VARCHAR2(30)	Y	-
VERSION	NUMBER(5)	Y	1

Primary Key:

Key Type	Column Name
COMPOSITE	ACCR_ID
	SEQNO
	PARM_SEQ

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XF718P0	UNIQUE	ACCR_ID
			SEQNO
			PARM_SEQ

C.12 C1_ACCR_TYPE

Purpose:	Used to store the details of an accrual type
Total Number of Columns:	18

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
ACCR_TYPE_CD	CHAR(30)	No	-
DAY_TYPE	CHAR(4)	No	-
ACCR_SRC	CHAR(4)	Yes	-
POST_METH	CHAR(4)	Yes	-
HIST_BILL_CNT	NUMBER(5)	Yes	-
ACCR_CRT	CHAR(4)	Yes	-
VERSION	NUMBER(5)	No	1
BUS_OBJ_CD	CHAR(30)	No	''
BO_STATUS_CD	CHAR(12)	No	''
BO_STATUS_REASON_CD	VARCHAR2(30)	Yes	-
BO_DATA_AREA	CLOB	Yes	-
ACCR_OBJ	CHAR(4)	No	-
ADJ_TYPE_CD	CHAR(8)	Yes	-
ACCR_CAN_RSN_CD	CHAR(4)	Yes	-

Column Name	Data Type	Nullable (Yes or No)	Default Value
SA_TYPE_CD	CHAR(8)	Yes	-
TRANS_BUS_OBJ_CD	CHAR(30)	Yes	-
IS_APPR_REQ	CHAR(1)	Yes	-
APPR_PROF_CD	CHAR(30)	Yes	-

Primary Key:

Key Type	Column Name
SINGLE	ACCR_TYPE_CD

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XF704P0	UNIQUE	ACCR_TYPE_CD
2.	XF704R01	NORMAL	BUS_OBJ_CD,
			BO_STATUS_CD
			ACCR_TYPE_CD

C.13 C1_ACCR_TYPE_ALG

Purpose:	Used to store the algorithms associated with an accrual type.
Total Number of Columns:	5

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
ACCR_TYPE_CD	CHAR(30)	No	-
ALG_CD	CHAR(12)	No	-
SEVT_FLG	CHAR(4)	No	-
VERSION	NUMBER(5)	No	1
SEQNO	NUMBER(5)	No	-

Primary Key:

Key Type	Column Name
COMPOSITE	ACCR_TYPE_CD
	SEQNO
	SEVT_FLG

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XF706P0	UNIQUE	ACCR_TYPE_CD
			SEQNO
			SEVT_FLG

C.14 C1_ACCR_TYPE_CHAR

Purpose:	Used to store characteristics defined for an accrual type.
Total Number of Columns:	

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
ACCR_TYPE_CD	CHAR(30)	No	-
CHAR_TYPE_CD	CHAR(8)	No	-
EFFDT	DATE	No	-
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	-
SRCH_CHAR_VAL	VARCHAR2(254)	Yes	-
VERSION	NUMBER(5)	No	1

Primary Key:

Key Type	Column Name
COMPOSITE	ACCR_TYPE_CD
	CHAR_TYPE_CD
	EFFDT

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XF708P0	UNIQUE	ACCR_TYPE_CD
			CHAR_TYPE_CD
			EFFDT

C.15 C1_ACCR_TYPE_EXCL

Purpose:	Used to store objects excluded while calculating the accrual.
Total Number of Columns:	5

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
ACCR_TYPE_CD	CHAR(30)	N	-
ENTITY_CD	CHAR(4)	N	-
ENTITY_VAL	VARCHAR2(50)	N	-
VERSION	NUMBER(5)	Y	1
SEQNO	NUMBER(5)	N	-

Primary Key:

Key Type	Column Name
COMPOSITE	ACCR_TYPE_CD
	SEQNO

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XF707P0	UNIQUE	ACCR_TYPE_CD
			SEQNO

C.16 C1_ACCR_TYPE_L

Purpose:	Used to store description of an accrual type.
Total Number of Columns:	4

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
ACCR_TYPE_CD	CHAR(30)	No	-
LANGUAGE_CD	CHAR(3)	No	-
DESCR	VARCHAR2(60)	No	-
VERSION	NUMBER(5)	No	1

Primary Key:

Key Type	Column Name
COMPOSITE	ACCR_TYPE_CD
	LANGUAGE_CD

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XF703P0	UNIQUE	ACCR_TYPE_CD
			LANGUAGE_CD

C.17 C1_ADDRESS

Purpose:	Used to store the details of an address.
Total Number of Columns:	28

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
ADDRESS_ID	CHAR(12)	N	-
ADDRESS1	VARCHAR2(254)	N	''
ADDRESS1_UPR	VARCHAR2(254)	N	''
ADDRESS2	VARCHAR2(254)	N	''
ADDRESS3	VARCHAR2(254)	N	''

Column Name	Data Type	Nullable (Yes or No)	Default Value
ADDRESS4	VARCHAR2(254)	N	''
CITY	VARCHAR2(90)	N	''
CITY_UPR	VARCHAR2(90)	N	''
NUM1	CHAR(6)	N	''
NUM2	CHAR(4)	N	''
COUNTY	VARCHAR2(90)	N	''
POSTAL	CHAR(12)	N	''
POSTAL_UPR	CHAR(12)	N	''
HOUSE_TYPE	CHAR(2)	N	''
GEO_CODE	CHAR(11)	N	''
IN_CITY_LIMIT_SW	CHAR(1)	N	''
STATE	CHAR(6)	N	''
COUNTRY	CHAR(3)	N	''
SEASON_START_MMDD	CHAR(4)	N	''
SEASON_END_MMDD	CHAR(4)	N	''
BUS_OBJ_CD	CHAR(30)	N	''
BO_DATA_AREA	CLOB	Y	-
VERSION	NUMBER(5)	Y	-
COMMENTS	VARCHAR2(254)	Y	''
SEASON_SEQ_NUM	NUMBER(3)	N	0
CRE_DTTM	DATE	Y	-
BO_STATUS_CD	CHAR(12)	N	''
STATUS_UPD_DTTM	DATE	Y	-

Primary Key:

Key Type	Column Name
SINGLE	ADDRESS_ID

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XT984P0	UNIQUE	ADDRESS_ID
2.	XT984R0	NORMAL	CITY_UPR
3.	XT984R1	NORMAL	ADDRESS1_UPR
4.	XT984R2	NORMAL	POSTAL_UPR
5.	XT984R3	NORMAL	COUNTRY
6.	XT984R4	NORMAL	COUNTY
7.	XT984R5	NORMAL	STATE
8.	XT984R6	NORMAL	BUS_OBJ_CD
			BO_STATUS_CD
			ADDRESS_ID

C.18 C1_ADDRESS_CHAR

Purpose:	Used to store characteristics defined for an address.
Total Number of Columns:	7

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
ADDRESS_ID	CHAR(12)	N	-
ENTITY_FLG	CHAR(4)	N	''
ENTITY_ID	CHAR(14)	N	''
ADDRESS_TYPE_FLG	CHAR(11)	N	''
EFFT_DT	DATE	N	-
VERSION	NUMBER(5)	Y	-
PER_ID	CHAR(10)	N	''

Primary Key:

Key Type	Column Name
COMPOSITE	ADDRESS_ID
	CHAR_TYPE_CD
	EFFT_DT

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XT989P0	UNIQUE	ADDRESS_ID
			CHAR_TYPE_CD
			EFFT_DT
2.	XT989S1	NORMAL	SRCH_CHAR_VAL

C.19 C1_ADDRESS_ENTITY

Purpose:	Used to store the entities associated with an address.
Total Number of Columns:	12

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
REQUEST_ID	CHAR(20)	No	-
SEQ_NUM	NUMBER(3)	No	-
BO_DATA_AREA	CLOB	Yes	-
RESPONSE_OBJECT	CLOB	Yes	-
BO_STATUS_CD	CHAR(12)	No	-
PK_VALUE1	VARCHAR2(254)	No	''
PK_VALUE2	VARCHAR2(254)	No	''
PK_VALUE3	VARCHAR2(254)	No	''
PK_VALUE4	VARCHAR2(254)	No	''
PK_VALUE5	VARCHAR2(254)	No	''
CRE_DTTM	DATE	Yes	-
UPD_DTTM	DATE	Yes	-
CREATED_BY	VARCHAR2(254)	No	''
BUS_OBJ_CD	CHAR(30)	No	''

Column Name	Data Type	Nullable (Yes or No)	Default Value
VERSION	NUMBER(5)	No	1

Primary Key:

Key Type	Column Name
COMPOSITE	ENTITY_ID
	ADDRESS_TYPE_FLG
	EFFT_DT
	ENTITY_FLG
	ADDRESS_ID

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XT986P0	UNIQUE	ENTITY_ID
			ADDRESS_TYPE_FLG
			EFFT_DT
			ENTITY_FLG
			ADDRESS_ID
2.	XT986R0	NORMAL	ADDRESS_ID

C.20 C1_ADDRESS_LOG

Purpose:	Used to store logs of an address.
Total Number of Columns:	19

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
ADDRESS_ID	CHAR(12)	No	-
SEQNO	NUMBER(5)	No	-
LOG_DTTM	DATE	No	-
LOG_ENTRY_TYPE_FLG	CHAR(4)	No	''
DESCRLONG	VARCHAR2(4000)	No	''
BO_STATUS_CD	CHAR(12)	No	''
MESSAGE_CAT_NBR	NUMBER(5)	No	-

Column Name	Data Type	Nullable (Yes or No)	Default Value
MESSAGE_NBR	NUMBER(5)	No	-
USER_ID	CHAR(8)	No	''
VERSION	NUMBER(5)	No	1
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(254)	No	''

Primary Key:

Key Type	Column Name
COMPOSITE	ADDRESS_ID
	SEQNO

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XF991R0	NORMAL	CHAR_TYPE_CD
			CHAR_VAL_FK1
2.	XF991R1	NORMAL	CHAR_TYPE_CD
			CHAR_VAL
3.	XT991P0	UNIQUE	ADDRESS_ID
			SEQNO

C.21 C1_ADDRESS_LOG_PARM

Purpose:	Used to store address's log parameters.
Total Number of Columns:	6

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
ADDRESS_ID	CHAR(12)	No	-
SEQNO	NUMBER(5)	No	-
PARM_SEQ	NUMBER(3)	No	-
MSG_PARM_TYP_FLG	CHAR(4)	No	' '
MSG_PARM_VAL	VARCHAR2(2000)	No	' '
VERSION	NUMBER(5)	No	1

Primary Key:

Key Type	Column Name
COMPOSITE	ADDRESS_ID
	SEQNO
	PARM_SEQ

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XT987P0	UNIQUE	ADDRESS_ID
			SEQNO
			PARM_SEQ

C.22 C1_ADDRESS_K

Purpose:	Used to store the address ID.
Total Number of Columns:	2

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
ADDRESS_ID	CHAR(12)	No	
ENV_ID	NUMBER(6)	No	

Primary Key:

Key Type	Column Name
COMPOSITE	ADDRESS_ID
	ENV_ID

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XT985P0	UNIQUE	ADDRESS_ID
			ENV_ID

C.23 C1_PER_DEAL

Purpose:	Used to store the details of a deal.
Total Number of Columns:	12

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
DEAL_ID	VARCHAR2(20)	No	-
PER_ID	CHAR(10)	No	-
CURRENCY_CD	CHAR(3)	Yes	-
PROSPECT_SW	CHAR(1)	Yes	-
PER_SEGMENT	VARCHAR2(254)	Yes	-
MULTI_DIVISION	CHAR(1)	Yes	-
MULTI_DEAL	CHAR(1)	Yes	-
START_DT	DATE	Yes	-
END_DT	DATE	Yes	-
DEAL_REVIEW_FREQ	CHAR(4)	Yes	-
PER_REL_MNGR	VARCHAR2(64)	Yes	-
VERSION	NUMBER(5)	No	1

Primary Key:

Key Type	Column Name
COMPOSITE	DEAL_ID
	PER_ID

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XT909P0	UNIQUE	DEAL_ID
			PER_ID

C.24 C1_DSPT_REQ_DTLS_ADJ

Purpose:	Used to store the adjustments created against a dispute request.
Total Number of Columns:	3

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
DSPT_DTL_ID	CHAR(12)	No	-
ADJ_ID	CHAR(12)	No	-
VERSION	NUMBER(5)	No	1

Primary Key:

Key Type	Column Name
COMPOSITE	DSPT_DTL_ID
	ADJ_ID

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XF716P0	UNIQUE	DSPT_DTL_ID
			ADJ_ID

C.25 C1_DSPT_REQ_TYPE

Purpose:	Used to store the details of a dispute request type.
Total Number of Columns:	6

Column Details:

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

Column Name	Data Type	Nullable (Yes or No)	Default Value
TRANS_BUS_OBJ_CD	CHAR(30)	Yes	-
BO_DATA_AREA	CLOB	Yes	-
C1_ACTIVE_INACTIVE_FLG	CHAR(4)	Yes	-
VERSION	NUMBER(5)	Yes	1

Primary Key:

Key Type	Column Name
SINGLE	DSPT_REQ_TYPE_CD

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XF713P0	UNIQUE	DSPT_REQ_TYPE_CD

C.26 C1_DSPT_REQ_TYPE_CHAR

Purpose:	Used to store characteristics defined for a dispute request type.
Total Number of Columns:	12

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
DSPT_REQ_TYPE_CD	CHAR(30)	No	-
CHAR_TYPE_CD	CHAR(8)	No	-
SEQ_NUM	NUMBER(3)	No	-
CHAR_VAL	CHAR(16)	Yes	-
ADHOC_CHAR_VAL	VARCHAR2(254)	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	-
SRCH_CHAR_VAL	VARCHAR2(254)	Yes	-
VERSION	NUMBER(5)	Yes	1

Primary Key:

Key Type	Column Name
COMPOSITE	DSPT_REQ_TYPE_CD
	CHAR_TYPE_CD
	SEQ_NUM

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XF715P0	UNIQUE	DSPT_REQ_TYPE_CD
			CHAR_TYPE_CD
			SEQ_NUM

C.27 C1_DSPT_REQ_TYPE_L

Purpose:	Used to store description of a dispute request type.
Total Number of Columns:	5

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
DSPT_REQ_TYPE_CD	CHAR(30)	No	-
LANGUAGE_CD	CHAR(3)	No	-
DESCR	VARCHAR2(60)	Yes	-
DESCRLONG	VARCHAR2(4000)	Yes	-
VERSION	NUMBER(5)	Yes	1

Primary Key:

Key Type	Column Name
COMPOSITE	DSPT_REQ_TYPE_CD
	LANGUAGE_CD

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XF714P0	UNIQUE	DSPT_REQ_TYPE_CD
			LANGUAGE_CD

C.28 C1_ACCR_TYPE_DIV

Purpose:	Used to store accrual type associated with a division.
Total Number of Columns:	4

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
ACCR_TYPE_CD	CHAR(30)	No	-
CIS_DIVISION	CHAR(5)	No	-
EFFDT	DATE	No	-
VERSION	NUMBER(5)	Yes	1

Primary Key:

Key Type	Column Name
COMPOSITE	ACCR_TYPE_CD
	CIS_DIVISION
	EFFDT

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XF709P0	UNIQUE	ACCR_TYPE_CD
			CIS_DIVISION
			EFFDT

C.29 C1_FT_DISTRIBUTION

Purpose:	Used to store the details of a financial transaction distribution object.
Total Number of Columns:	19

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
FT_DISTRIBUTION_ID	CHAR(10)	No	-
FT_DIST_TYPE_CD	CHAR(30)	No	-

Column Name	Data Type	Nullable (Yes or No)	Default Value
CRE_DTTM	DATE	No	-
ACCT_ID	CHAR(10)	No	-
SA_ID	CHAR(10)	Yes	-
BUS_OBJ_CD	CHAR(30)	No	''
BO_STATUS_CD	CHAR(12)	No	''
STATUS_UPD_DTTM	DATE	Yes	-
BO_STATUS_REASON_CD	VARCHAR2(30)	Yes	-
BO_DATA_AREA	CLOB	Yes	-
FT_ID	CHAR(12)	No	-
ADJ_ID	CHAR(12)	Yes	''
BSEG_ID	CHAR(12)	Yes	''
TOT_AMT	NUMBER(15,2)	No	-
EXPIRATION_DT	DATE	Yes	-
CAN_RSN_CD	CHAR(4)	Yes	-
ILM_ARCH_SW	CHAR(1)	Yes	-
ILM_DT	DATE	Yes	-
VERSION	NUMBER(5)	No	1

Primary Key:

Key Type	Column Name
SINGLE	FT_DISTRIBUTION_ID

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XT623P0	UNIQUE	FT_DISTRIBUTION_ID
2.	XT623S1	UNIQUE	BO_STATUS_CD
			BUS_OBJ_CD
			FT_DISTRIBUTION_ID

C.30 C1_FT_DISTRIBUTION_ACCT

Purpose:	Used to store how the credit or debit amount on a financial transaction distribution object is distributed to an account.
Total Number of Columns:	11

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
FT_DISTRIBUTION_ID	CHAR(10)	No	-
CRE_DTTM	DATE	No	-
ACCT_ID	CHAR(10)	No	-
TOT_AMT	NUMBER(15,2)	No	-
HIERARCHY_SEQ	NUMBER(5)	Yes	-
PRIORITY_NUM	NUMBER(5)	Yes	-
UNPAID_AMT	NUMBER(15,2)	Yes	-
WEGH_AVG	NUMBER(15,2)	Yes	-
DIST_AMT	NUMBER(15,4)	Yes	-
STATUS_CD	CHAR(2)	No	-
VERSION	NUMBER(5)	No	1

Primary Key:

Key Type	Column Name
COMPOSITE	FT_DISTRIBUTION_ID
	ACCT_ID

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XT624P0	UNIQUE	FT_DISTRIBUTION_ID
			ACCT_ID

C.31 C1_FT_DISTRIBUTION_CHAR

Purpose:	Used to store characteristics defined for a financial transaction distribution object.
Total Number of Columns:	12

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
FT_DISTRIBUTION_ID	CHAR(10)	N	-
CHAR_TYPE_CD	CHAR(8)	N	-
EFFDT	DATE	N	-
CHAR_VAL	CHAR(16)	N	''
ADHOC_CHAR_VAL	VARCHAR2(254)	N	''
CHAR_VAL_FK1	VARCHAR2(50)	N	''
CHAR_VAL_FK2	VARCHAR2(50)	N	''
CHAR_VAL_FK3	VARCHAR2(50)	N	''
CHAR_VAL_FK4	VARCHAR2(50)	N	''
CHAR_VAL_FK5	VARCHAR2(50)	N	''
SRCH_CHAR_VAL	VARCHAR2(254)	N	''
VERSION	NUMBER(5)	N	1

Primary Key:

Key Type	Column Name
COMPOSITE	FT_DISTRIBUTION_ID
	ACCT_ID

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XT625P0	UNIQUE	FT_DISTRIBUTION_ID
			CHAR_TYPE_CD
			EFFDT

C.32 C1_FT_DISTRIBUTION_K

Purpose:	Used to store the financial transaction distribution ID.
Total Number of Columns:	2

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
FT_DISTRIBUTION_ID	CHAR(10)	No	-
ENV_ID	NUMBER(6)	No	-

Primary Key:

Key Type	Column Name
COMPOSITE	FT_DISTRIBUTION_ID
	ENV_ID

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XT626P0	UNIQUE	FT_DISTRIBUTION_ID
			ENV_ID

C.33 C1_FT_DISTRIBUTION_LIST

Purpose:	Used to store the distribution list of a financial transaction distribution object.
Total Number of Columns:	11

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
FT_DISTRIBUTION_ID	CHAR(10)	No	-
SEQNO	NUMBER(5)	No	-
CRE_DTTM	DATE	No	-
SA_ID	CHAR(10)	No	-
FT_ID	CHAR(12)	No	-
SIBLING_ID	CHAR(12)	No	-

Column Name	Data Type	Nullable (Yes or No)	Default Value
XFER_ADJ_ID	CHAR(12)	Yes	''
DIST_AMT	NUMBER(15,4)	No	-
ACCT_ID	CHAR(10)	No	-
VERSION	NUMBER(5)	Yes	1
BILL_ID	CHAR(12)	No	-

Primary Key:

Key Type	Column Name
COMPOSITE	FT_DISTRIBUTION_ID
	SEQNO

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XT627P0	UNIQUE	FT_DISTRIBUTION_ID
			SEQNO

C.34 C1_FT_DISTRIBUTION_LOG

Purpose:	Used to store logs of a financial transaction distribution object.
Total Number of Columns:	11

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
FT_DISTRIBUTION_ID	CHAR(10)	No	-
SEQNO	NUMBER(5)	No	-
CRE_DTTM	DATE	No	-
SA_ID	CHAR(10)	No	-
FT_ID	CHAR(12)	No	-
SIBLING_ID	CHAR(12)	No	-
XFER_ADJ_ID	CHAR(12)	Yes	''
DIST_AMT	NUMBER(15,4)	No	-
ACCT_ID	CHAR(10)	No	-

Column Name	Data Type	Nullable (Yes or No)	Default Value
VERSION	NUMBER(5)	Yes	1
BILL_ID	CHAR(12)	No	-

Primary Key:

Key Type	Column Name
COMPOSITE	FT_DISTRIBUTION_ID
	SEQNO

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XT627P0	UNIQUE	FT_DISTRIBUTION_ID
			SEQNO

C.35 C1_FT_DISTRIBUTION_LOG_PARM

Purpose:	Used to store financial transaction distribution object's log parameters.
Total Number of Columns:	6

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
FT_DISTRIBUTION_ID	CHAR(10)	No	-
SEQNO	NUMBER(5)	No	-
PARM_SEQ	NUMBER(3)	No	-
MSG_PARM_TYP_FLG	CHAR(4)	No	''
MESSAGE_PARM	VARCHAR2(2000)	No	''
VERSION	NUMBER(5)	No	1

Primary Key:

Key Type	Column Name
COMPOSITE	FT_DISTRIBUTION_ID
	SEQNO
	PARM_SEQ

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XT629P0	UNIQUE	FT_DISTRIBUTION_ID
			SEQNO
			PARM_SEQ

C.36 C1_FTDIST_OBJ_EXCLUDED

Purpose:	Used to store objects excluded while distributing a financial transaction distribution object.
Total Number of Columns:	6

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
FT_DIST_RULE_CD	CHAR(30)	No	-
EFFDT	DATE	No	-
SEQNO	NUMBER(5)	No	-
FT_DIST_RULE_OBJ_TYPE_FLG	CHAR(4)	No	-
FT_DIST_OBJ_TYPE_VALUE	VARCHAR2(30)	No	-
VERSION	NUMBER(5)	No	1

Primary Key:

Key Type	Column Name
COMPOSITE	FT_DIST_RULE_CD
	EFFDT
	SEQNO

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM521P0	UNIQUE	FT_DIST_RULE_CD
			EFFDT
			SEQNO

C.37 C1_FTDIST_OBJ_INCLUDED

Purpose:	Used to store objects, such as the types of adjustment or price items, against which a financial transaction distribution object is distributed.
Total Number of Columns:	8

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
FT_DIST_RULE_CD	CHAR(30)	No	-
EFFDT	DATE	No	-
SEQNO	NUMBER(5)	No	-
PRIORITY_NUM	NUMBER(5)	No	-
FT_DIST_RULE_OBJ_TYPE_FLG	CHAR(4)	No	-
FT_DIST_OBJ_TYPE_VALUE	VARCHAR2(30)	No	-
BILL_STAT_FLG	CHAR(2)	No	-
VERSION	NUMBER(5)	No	1

Primary Key:

Key Type	Column Name
COMPOSITE	FT_DIST_RULE_CD
	EFFDT
	SEQNO

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM522P0	UNIQUE	FT_DIST_RULE_CD
			EFFDT
			SEQNO

C.38 C1_FTDIST_RULE

Purpose:	Used to store the details of a financial transaction distribution rule.
Total Number of Columns:	8

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
FT_DIST_RULE_CD	CHAR(30)	No	-
FT_DIST_METHOD_FLG	CHAR(4)	No	-
FT_DIST_HIERARCHY	CHAR(30)	No	-
BUS_OBJ_CD	CHAR(30)	No	''
BO_STATUS_CD	CHAR(12)	No	''
BO_STATUS_REASON_CD	VARCHAR2(30)	Yes	-
BO_DATA_AREA	CLOB	Yes	-
VERSION	NUMBER(5)	No	1

Primary Key:

Key Type	Column Name
COMPOSITE	FT_DIST_RULE_CD

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM523P0	UNIQUE	FT_DIST_RULE_CD
2.	XM523S1	UNIQUE	BO_STATUS_CD
			BUS_OBJ_CD
			FT_DIST_RULE_CD

C.39 C1_FTDIST_RULE_L

Purpose:	Used to store description of a financial transaction distribution rule.
Total Number of Columns:	5

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
FT_DIST_RULE_CD	CHAR(30)	N	-
LANGUAGE_CD	CHAR(3)	N	-
DESCR	VARCHAR2(60)	N	-
DESCRLONG	VARCHAR2(4000)	Y	-

Column Name	Data Type	Nullable (Yes or No)	Default Value
VERSION	NUMBER(5)	N	1

Primary Key:

Key Type	Column Name
COMPOSITE	FT_DIST_RULE_CD
	LANGUAGE_CD

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM524P0	UNIQUE	FT_DIST_RULE_CD
			LANGUAGE_CD

C.40 C1_FTDIST_RULE_VERSION

Purpose:	Used to store versions of a financial transaction distribution rule.
Total Number of Columns:	7

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
FT_DIST_RULE_CD	CHAR(30)	No	-
EFFDT	DATE	No	-
BUS_OBJ_CD	CHAR(30)	No	''
BO_STATUS_CD	CHAR(12)	No	''
BO_STATUS_REASON_CD	VARCHAR2(30)	Yes	-
BO_DATA_AREA	CLOB	Yes	-
VERSION	NUMBER(5)	No	1

Primary Key:

Key Type	Column Name
COMPOSITE	FT_DIST_RULE_CD
	EFFDT

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM525P0	UNIQUE	FT_DIST_RULE_CD
			EFFDT
2.	XM525S1	UNIQUE	BO_STATUS_CD
			BUS_OBJ_CD
			FT_DIST_RULE_CD
			EFFDT

C.41 C1_FTDIST_RULE_VERSION_ALG

Purpose:	Used to store algorithms associated with a version of a financial transaction distribution rule.
Total Number of Columns:	6

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
FT_DIST_RULE_CD	CHAR(30)	No	-
EFFDT	DATE	No	-
SEQNO	NUMBER(5)	No	-
ALG_CD	CHAR(12)	No	-
FT_DIST_RULE_VERSION_SEVT_CD	CHAR(4)	No	-
VERSION	NUMBER(5)	No	1

Primary Key:

Key Type	Column Name
COMPOSITE	FT_DIST_RULE_CD
	EFFDT
	FT_DIST_RULE_VERSION_SEVT_CD
	SEQNO

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM526P0	UNIQUE	FT_DIST_RULE_CD
			EFFDT
			FT_DIST_RULE_VERSION_SEVT_CD
			SEQNO

C.42 C1_FTDIST_RULE_VERSION_L

Purpose:	Used to store description of a financial transaction distribution rule version.
Total Number of Columns:	6

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
FT_DIST_RULE_CD	CHAR(30)	No	-
EFFDT	DATE	No	-
LANGUAGE_CD	CHAR(3)	No	-
DESCR	VARCHAR2(60)	No	-
DESCRLONG	VARCHAR2(4000)	Yes	-
VERSION	NUMBER(5)	No	1

Primary Key:

Key Type	Column Name
COMPOSITE	FT_DIST_RULE_CD
	LANGUAGE_CD
	EFFDT

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM527P0	UNIQUE	FT_DIST_RULE_CD
			LANGUAGE_CD
			EFFDT

C.43 C1_FTDIST_TYPE

Purpose:	Used to store the details of a financial transaction distribution type.
Total Number of Columns:	17

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
FT_DIST_TYPE_CD	CHAR(30)	No	-
TRANS_BUS_OBJ_CD	CHAR(30)	No	-
BUS_OBJ_CD	CHAR(30)	No	''
BO_STATUS_CD	CHAR(12)	No	''
BO_STATUS_REASON_CD	VARCHAR2(30)	Yes	-
BO_DATA_AREA	CLOB	Yes	-
OFFSET_INDICATOR_SW	CHAR(1)	Yes	-
FT_OBJ_TYPE_FLG	CHAR(4)	No	-
FT_ADJUSTMENT_TYPE	CHAR(8)	Yes	-
DISTRIBUTION_OBJ_TYPE_FLG	CHAR(4)	No	-
DISTRIBUTION_OBJ_TYPE_CODE	CHAR(8)	Yes	-
FT_DIST_RULE_CD	CHAR(30)	Yes	-
WRITEOFF_THRESHOLD_AMT	NUMBER(15,2)	Yes	-
WRITEOFF_ADJ_TYPE_CODE	CHAR(8)	Yes	-
REFUND_ADJ_TYPE_CODE	CHAR(8)	Yes	-
EXPIRATION_ADJ_TYPE_CODE	CHAR(8)	Yes	-
VERSION	NUMBER(5)	No	1

Primary Key:

Key Type	Column Name
SINGLE	FT_DIST_TYPE_CD

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM528P0	UNIQUE	FT_DIST_TYPE_CD
2.	XM528S1	UNIQUE	BO_STATUS_CD
			BUS_OBJ_CD
			FT_DIST_TYPE_CD

C.44 C1_FTDIST_TYPE_CHAR

Purpose:	Used to store characteristics defined for a financial transaction distribution type.
Total Number of Columns:	12

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
FT_DIST_TYPE_CD	CHAR(30)	No	-
CHAR_TYPE_CD	CHAR(8)	No	-
SEQNO	NUMBER(5)	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(254)	No	''
VERSION	NUMBER(5)	No	1

Primary Key:

Key Type	Column Name
COMPOSITE	FT_DIST_TYPE_CD
	CHAR_TYPE_CD
	SEQNO

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM529P0	UNIQUE	FT_DIST_TYPE_CD
			CHAR_TYPE_CD
			SEQNO

C.45 C1_FTDIST_TYPE_L

Purpose:	Used to store description of a financial transaction distribution type.
Total Number of Columns:	5

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
FT_DIST_TYPE_CD	CHAR(30)	N	-
LANGUAGE_CD	CHAR(3)	N	-
DESCR	VARCHAR2(60)	N	''
DESCRLONG	VARCHAR2(4000)	Y	-
VERSION	NUMBER(5)	N	1

Primary Key:

Key Type	Column Name
COMPOSITE	FT_DIST_TYPE_CD
	LANGUAGE_CD

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM530P0	UNIQUE	FT_DIST_TYPE_CD
			LANGUAGE_CD

C.46 C1_FT_EXT

Purpose:	Used to store additional information for a financial transaction.
Total Number of Columns:	12

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
FT_ID	CHAR(12)	No	-
C1_REL_REV_FT_ID	CHAR(12)	Yes	''
POLICY_ID	CHAR(14)	Yes	''
C1_CHG_LN_CD	CHAR(10)	Yes	''
C1_FROZEN_MKT_SEG	CHAR(1)	Yes	''
C1_BILLED_SUB_CNT	NUMBER(9)	Yes	0
C1_BILLED_MEM_CNT	NUMBER(9)	Yes	0
START_DT	DATE	Yes	-
END_DT	DATE	Yes	-
MEMBERSHIP_ID	CHAR(15)	Yes	''
C1_ELIGIBILITY_STAT_TYPE_CD	CHAR(1)	No	''
VERSION	NUMBER(5)	Yes	1

Primary Key:

Key Type	Column Name
SINGLE	FT_ID

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XF712P0	UNIQUE	FT_ID
2.	XF712S0	NORMAL	POLICY_ID
3.	XF712S1	NORMAL	C1_REL_REV_FT_ID
4.	XF712S2	NORMAL	START_DT
5.	XF712S3	NORMAL	END_DT
6.	XF712S4	NORMAL	MEMBERSHIP_ID

C.47 C1_ILM_CHILD

Purpose:	Used to store child tables for a parent table.
Total Number of Columns:	4

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
TABLE_NAME	VARCHAR2(50)	Yes	-
PARTITION_NAME	VARCHAR2(50)	Yes	-
HIGH_VALUE	DATE	Yes	-
ELIGIBLE_TO_MOVE	CHAR(1)	Yes	-

Primary Key:

None.

Indexes:

None.

C.48 C1_ILM_ELIG_PARTITIONS

Purpose:	Used to store partitions which are eligible to move.
Total Number of Columns:	4

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
TABLE_NAME	VARCHAR2(50)	Yes	-
PARTITION_NAME	VARCHAR2(50)	Yes	-
HIGH_VALUE	DATE	Yes	-
ELIGIBLE_TO_MOVE	CHAR(1)	Yes	-

Primary Key:

None.

Indexes:

None.

C.49 C1_ILM_PARENT

Purpose:	Used to store parent tables for a module.
Total Number of Columns:	4

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
TABLE_NAME	VARCHAR2(50)	Yes	-
PARTITION_NAME	VARCHAR2(50)	Yes	-
HIGH_VALUE	DATE	Yes	-
ELIGIBLE_TO_MOVE	CHAR(1)	Yes	-

Primary Key:

None.

Indexes:

None.

C.50 C1_INBOUND_MESSAGE

Purpose:	Used to store the details of an inbound message.
Total Number of Columns:	16

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
C1_INBOUND_MESSAGE_ID	VARCHAR2(15)	No	''
C1_INBOUND_MSG_TYPE_CD	CHAR(30)	No	''
SRC_SYSTEM_CD	CHAR(10)	No	''
C1_EXT_TRANS_ID	VARCHAR2(64)	No	''
C1_EXT_BATCH_ID	VARCHAR2(64)	No	''
C1_EXT_SOURCE_ID	VARCHAR2(30)	No	''
PER_ID	CHAR(10)	No	''
BUS_OBJ_CD	CHAR(30)	No	''
BO_STATUS_CD	CHAR(12)	No	''
BO_STATUS_REASON_CD	VARCHAR2(30)	Yes	-
BO_DATA_AREA	CLOB	Yes	-
VERSION	NUMBER(5)	No	1
STATUS_UPD_DTTM	DATE	Yes	-
CRE_DTTM	DATE	Yes	-

Column Name	Data Type	Nullable (Yes or No)	Default Value
ILM_ARCH_SW	CHAR(1)	Yes	-
ILM_DT	DATE	Yes	-

Primary Key:

Key Type	Column Name
SINGLE	C1_INBOUND_MESSAGE_ID

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XF680P0	UNIQUE	C1_INBOUND_MESSAGE_ID
2.	XF680R01	NORMAL	C1_EXT_TRANS_ID
3.	XF680R02	NORMAL	SRC_SYSTEM_CD
4.	XF680R03	NORMAL	BO_STATUS_CD
			BUS_OBJ_CD
			C1_INBOUND_MESSAGE_ID
5.	XF680R04	NORMAL	C1_EXT_BATCH_ID
6.	XF680R05	NORMAL	C1_EXT_SOURCE_ID
7.	XF680R06	NORMAL	PER_ID
8.	XF680R07	NORMAL	BUS_OBJ_CD
			BO_STATUS_CD
			C1_INBOUND_MESSAGE_ID

C.51 C1_INBOUND_MESSAGE_CHAR

Purpose:	Used to store characteristics defined for an inbound message.
Total Number of Columns:	12

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
C1_INBOUND_MESSAGE_ID	VARCHAR2(15)	No	-
CHAR_TYPE_CD	CHAR(8)	No	-
EFFDT	DATE	No	-

Column Name	Data Type	Nullable (Yes or No)	Default Value
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(254)	No	''
VERSION	NUMBER(5)	No	1

Primary Key:

Key Type	Column Name
COMPOSITE	C1_INBOUND_MESSAGE_ID
	CHAR_TYPE_CD
	EFFDT

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XF680P0	UNIQUE	C1_INBOUND_MESSAGE_ID
			CHAR_TYPE_CD
			EFFDT
2.	XF681R01	NORMAL	SRCH_CHAR_VAL

C.52 C1_INBOUND_MESSAGE_K

Purpose:	Used to store the inbound message ID.
Total Number of Columns:	2

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
C1_INBOUND_MESSAGE_ID	VARCHAR2(15)	N	
ENV_ID	NUMBER(6)	N	

Primary Key:

Key Type	Column Name
COMPOSITE	C1_INBOUND_MESSAGE_ID
	ENV_ID

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XF684P0	UNIQUE	C1_INBOUND_MESSAGE_ID
			ENV_ID

C.53 C1_INBOUND_MESSAGE_LOG_PARM

Purpose:	Used to store inbound message's log parameters.
Total Number of Columns:	6

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
C1_INBOUND_MESSAGE_ID	VARCHAR2(15)	No	-
SEQNO	NUMBER(5)	No	-
PARM_SEQ	NUMBER(3)	No	-
MSG_PARM_TYP_FLG	CHAR(4)	No	''
MESSAGE_PARM	VARCHAR2(2000)	No	''
VERSION	NUMBER(5)	No	1

Primary Key:

Key Type	Column Name
COMPOSITE	C1_INBOUND_MESSAGE_ID
	SEQNO
	PARM_SEQ

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XF683P0	UNIQUE	C1_INBOUND_MESSAGE_ID
			SEQNO
			PARM_SEQ

C.54 C1_INBOUND_MESSAGE_TYPE

Purpose:	Used to store the details of an inbound message type.
Total Number of Columns:	6

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
C1_INBOUND_MSG_TYPE_CD	CHAR(30)	N	-
BUS_OBJ_CD	CHAR(30)	No	''
TRANS_BUS_OBJ_CD	CHAR(30)	No	''
BO_DATA_AREA	CLOB	Yes	-
C1_ACTIVE_INACTIVE_FLG	CHAR(4)	No	''
VERSION	NUMBER(5)	No	1

Primary Key:

Key Type	Column Name
SINGLE	C1_INBOUND_MSG_TYPE_CD

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XF685P0	UNIQUE	C1_INBOUND_MSG_TYPE_CD

C.55 C1_INBOUND_MESSAGE_TYPE_CHAR

Purpose:	Used to store characteristics defined for an inbound message type.
Total Number of Columns:	12

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
C1_INBOUND_MSG_TYPE_CD	CHAR(30)	No	-
CHAR_TYPE_CD	CHAR(8)	No	-
SEQ_NUM	NUMBER(5)	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(254)	No	''
VERSION	NUMBER(5)	No	1

Primary Key:

Key Type	Column Name
COMPOSITE	C1_INBOUND_MSG_TYPE_CD
	CHAR_TYPE_CD
	SEQ_NUM

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XF686P0	UNIQUE	C1_INBOUND_MSG_TYPE_CD
			CHAR_TYPE_CD
			SEQ_NUM

C.56 C1_INBOUND_MESSAGE_TYPE_L

Purpose:	Used to store description of an inbound message type.
Total Number of Columns:	5

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
C1_INBOUND_MSG_TYPE_CD	CHAR(30)	No	-
LANGUAGE_CD	CHAR(3)	No	-
DESCR	VARCHAR2(60)	No	''
DESCRLONG	VARCHAR2(4000)	No	''
VERSION	NUMBER(5)	No	1

Primary Key:

Key Type	Column Name
COMPOSITE	C1_INBOUND_MSG_TYPE_CD
	LANGUAGE_CD

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XF687P0	UNIQUE	C1_INBOUND_MSG_TYPE_CD
			LANGUAGE_CD

C.57 C1_OUTMSG_CHAR

Purpose:	Used to store characteristics defined for an outbound message.
Total Number of Columns:	12

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
OUTMSG_ID	CHAR(12)	No	-
CHAR_TYPE_CD	CHAR(8)	No	-
EFFDT	DATE	No	-

Column Name	Data Type	Nullable (Yes or No)	Default Value
CHAR_VAL	CHAR(16)	Yes	-
ADHOC_CHAR_VAL	VARCHAR2(254)	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	-
SRCH_CHAR_VAL	VARCHAR2(254)	Yes	-
VERSION	NUMBER(5)	Yes	1

Primary Key:

Key Type	Column Name
COMPOSITE	OUTMSG_ID
	CHAR_TYPE_CD
	EFFDT

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XF690P0	UNIQUE	OUTMSG_ID
			CHAR_TYPE_CD
			EFFDT
2.	XF690S1	NORMAL	SRCH_CHAR_VAL

C.58 C1_PA_REQ

Purpose:	Used to store the details of a payment agreement request.
Total Number of Columns:	18

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
PA_REQ_ID	CHAR(12)	No	-
PA_REQ_TYPE_CD	CHAR(30)	No	-

Column Name	Data Type	Nullable (Yes or No)	Default Value
BUS_OBJ_CD	CHAR(30)	No	''
BO_STATUS_CD	CHAR(12)	No	''
BO_STATUS_REASON_CD	VARCHAR2(30)	Yes	-
BO_DATA_AREA	CLOB	Yes	-
ACCT_ID	CHAR(10)	No	-
THRD_PTY_PAYOR_SW	CHAR(1)	Yes	-
PAYOR_ACCT_ID	CHAR(10)	No	-
PAY_METH_CD	CHAR(10)	No	-
COMMENTS	VARCHAR2(254)	No	''
ILM_ARCH_SW	CHAR(1)	Yes	-
ILM_DT	DATE	Yes	-
CRE_DTTM	DATE	Yes	SYSDATE
STATUS_UPD_DTTM	DATE	Yes	-
VERSION	NUMBER(5)	No	1
THRD_PTY_PAYOR_CD	CHAR(12)	No	''
CURRENCY_CD	CHAR(3)	No	''

Primary Key:

Key Type	Column Name
SINGLE	PA_REQ_ID

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XF650P0	UNIQUE	PA_REQ_ID
2.	XF650S1	UNIQUE	BUS_OBJ_CD
			BO_STATUS_CD
			PA_REQ_ID

C.59 C1_PA_REQ_CHAR

Purpose:	Used to store characteristics defined for a payment agreement request.
Total Number of Columns:	12

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
PA_REQ_ID	CHAR(12)	No	-
CHAR_TYPE_CD	CHAR(8)	No	-
EFFDT	DATE	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(254)	No	''
VERSION	NUMBER(5)	No	1

Primary Key:

Key Type	Column Name
COMPOSITE	PA_REQ_ID
	CHAR_TYPE_CD
	EFFDT

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XF652P0	UNIQUE	PA_REQ_ID
			CHAR_TYPE_CD
			EFFDT
2.	XF652S1	NORMAL	SRCH_CHAR_VAL

C.60 C1_PA_REQ_DTLS

Purpose:	Used to store bills added in a payment agreement request.
Total Number of Columns:	3

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
PA_REQ_ID	CHAR(12)	No	-
BILL_ID	CHAR(12)	No	-
VERSION	NUMBER(5)	No	1

Primary Key:

Key Type	Column Name
COMPOSITE	PA_REQ_ID
	BILL_ID

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XF655P0	UNIQUE	PA_REQ_ID
			BILL_ID

C.61 C1_PA_REQ_K

Purpose:	Used to store the payment agreement request ID.
Total Number of Columns:	2

Column Details:

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

Primary Key:

Key Type	Column Name
COMPOSITE	PA_REQ_ID
	ENV_ID

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XF651P0	UNIQUE	PA_REQ_ID
			ENV_ID

C.62 C1_PA_REQ_LOG

Purpose:	Used to store logs of a payment agreement request.
Total Number of Columns:	21

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
PA_REQ_ID	CHAR(12)	No	-
SEQNO	NUMBER(5)	No	-
LOG_DTTM	DATE	No	-
LOG_ENTRY_TYPE_FLG	CHAR(4)	No	''
DESCRLONG	VARCHAR2(4000)	No	''
BO_STATUS_CD	CHAR(12)	No	''
BO_STATUS_REASON_CD	VARCHAR2(30)	Yes	-
MESSAGE_CAT_NBR	NUMBER(5)	No	-
MESSAGE_NBR	NUMBER(5)	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	''
USER_ID	CHAR(8)	No	''
SRCH_CHAR_VAL	VARCHAR2(254)	No	''
VERSION	NUMBER(5)	No	1

Column Name	Data Type	Nullable (Yes or No)	Default Value
LOG_DATA_AREA	CLOB	Yes	-

Primary Key:

Key Type	Column Name
COMPOSITE	PA_REQ_ID
	SEQNO

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XF653P0	UNIQUE	PA_REQ_ID
			SEQNO
2.	XF653R07	NORMAL	CHAR_TYPE_CD
			CHAR_VAL_FK1
3.	XF653R08	NORMAL	CHAR_TYPE_CD
			CHAR_VAL
4.	XF653R09	NORMAL	SRCH_CHAR_VAL

C.63 C1_PA_REQ_LOG_PARM

Purpose:	Used to store payment agreement request's log parameters.
Total Number of Columns:	6

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
PA_REQ_ID	CHAR(12)	No	-
SEQNO	NUMBER(5)	No	-
PARM_SEQ	NUMBER(3)	No	-
MSG_PARM_TYP_FLG	CHAR(4)	No	''
MSG_PARM_VAL	VARCHAR2(2000)	No	''
VERSION	NUMBER(5)	No	1

Primary Key:

Key Type	Column Name
COMPOSITE	PA_REQ_ID
	SEQNO
	PARM_SEQ

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XF654P0	UNIQUE	PA_REQ_ID
			SEQNO
			PARM_SEQ

C.64 C1_PA_REQ_SCHED

Purpose:	Used to store the details of payment agreement request schedule.
Total Number of Columns:	7

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
PA_REQ_ID	CHAR(12)	No	-
PA_SCHED_DT	DATE	No	-
SEQ_NUM	NUMBER(3)	No	1
PA_SCHED_AMT	NUMBER(15,2)	No	0
APAY_CLR_ID	CHAR(12)	No	''
ACCT_APAY_ID	CHAR(10)	No	''
VERSION	NUMBER(5)	No	1

Primary Key:

Key Type	Column Name
COMPOSITE	PA_REQ_ID
	PA_SCHED_DT
	SEQ_NUM

Indexes:

None.

C.65 C1_PA_REQ_TYPE

Purpose:	Used to store the details of a payment agreement request type.
Total Number of Columns:	12

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
PA_REQ_TYPE_CD	CHAR(30)	No	-
BUS_OBJ_CD	CHAR(30)	No	''
TRANS_BUS_OBJ_CD	CHAR(30)	No	''
BO_DATA_AREA	CLOB	Yes	-
IS_APPR_REQ	CHAR(1)	No	-
C1_APPR_TD_TYPE	CHAR(8)	No	''
C1_APPR_TD_ROLE	CHAR(10)	No	''
C1_ACTIVE_INACTIVE_FLG	CHAR(4)	No	''
VERSION	NUMBER(5)	No	1
APR_ALG_CD	CHAR(12)	No	''
C1_SUB_TD_TYPE	CHAR(8)	No	''
C1_SUB_TD_ROLE	CHAR(10)	No	''

Primary Key:

Key Type	Column Name
SINGLE	PA_REQ_TYPE_CD

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XF647P0	UNIQUE	PA_REQ_TYPE_CD

C.66 C1_PA_REQ_TYPE_CHAR

Purpose:	Used to store characteristics defined for a payment agreement request type.
Total Number of Columns:	12

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
PA_REQ_TYPE_CD	CHAR(30)	No	-
CHAR_TYPE_CD	CHAR(8)	No	-
SEQ_NUM	NUMBER(5)	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(254)	No	''
VERSION	NUMBER(5)	No	1

Primary Key:

Key Type	Column Name
COMPOSITE	PA_REQ_TYPE_CD
	CHAR_TYPE_CD
	SEQ_NUM

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XF649P0	UNIQUE	PA_REQ_TYPE_CD
			CHAR_TYPE_CD
			SEQ_NUM
2.	XF649S1	NORMAL	SRCH_CHAR_VAL

C.67 C1_PA_REQ_TYPE_L

Purpose:	Used to store description of a payment agreement request type.
Total Number of Columns:	5

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
PA_REQ_TYPE_CD	CHAR(30)	No	-
LANGUAGE_CD	CHAR(3)	No	-
DESCR	VARCHAR2(60)	No	''
DESCRLONG	VARCHAR2(4000)	No	''
VERSION	NUMBER(5)	No	1

Primary Key:

Key Type	Column Name
COMPOSITE	PA_REQ_TYPE_CD
	LANGUAGE_CD

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XF648P0	UNIQUE	PA_REQ_TYPE_CD
			LANGUAGE_CD

C.68 C1_SA_TYPE_FTDIST_TY

Purpose:	Used to store financial transaction distribution types associated with a contract type.
Total Number of Columns:	4

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
FT_DIST_TYPE_CD	CHAR(30)	No	-
SA_TYPE_CD	CHAR(8)	No	-
CIS_DIVISION	CHAR(5)	No	''
VERSION	NUMBER(5)	No	1

Primary Key:

Key Type	Column Name
COMPOSITE	FT_DIST_TYPE_CD
	SA_TYPE_CD
	CIS_DIVISION

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM531P0	UNIQUE	FT_DIST_TYPE_CD
			SA_TYPE_CD
			CIS_DIVISION

C.69 CI_TXN_ARCH_DETAIL

Purpose:	Used to archive the transaction details.
Total Number of Columns:	4

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
TXN_HEADER_ID	CHAR(14)	Yes	-
TXN_DETAIL_ID	NUMBER(15)	No	-
PRITM_SEQ_NO	NUMBER(5)	Yes	-
BILLABLE_CHG_ID	CHAR(12)	Yes	-

Primary Key:

None.

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM500S1	NORMAL	BILLABLE_CHG_ID

C.70 CI_TXN_CALC_K

Purpose:	Used to store the transaction calculation ID.
Total Number of Columns:	2

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
TXN_CALC_ID	NUMBER(22)	No	-
ENV_ID	NUMBER(6)	No	-

Primary Key:

Key Type	Column Name
COMPOSITE	TXN_CALC_ID
	ENV_ID

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	C1T001P0	UNIQUE	TXN_CALC_ID
			ENV_ID

Appendix D : Existing Tables Modified in 2.6.0.0.0

This section lists the existing tables which are modified in Oracle Revenue Management and Billing Version 2.6.0.0.0. It also indicates the columns that are newly added, dropped, or modified in these tables.

D.1 C1_DSPT_REQ

The following table lists the columns that are either newly added or modified in the C1_DSPT_REQ table:

Sr. No.	Column Name	Modification Type	Data Type in V2.5.0.4.0	Data Type in V2.6.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	DSPT_REQ_TYPE_CD	Newly Added	-	CHAR(30)	No	-

D.2 C1_DSPT_REQ_DTLS

The following table lists the columns that are either newly added or modified in the C1_DSPT_REQ_DTLS table:

Sr. No.	Column Name	Modification Type	Data Type in V2.5.0.4.0	Data Type in V2.6.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	BILL_ID	Newly Added	-	CHAR(12)	No	-

D.3 C1_PRODUCT

The following table lists the columns that are either newly added or modified in the C1_PRODUCT table:

Sr. No.	Column Name	Modification Type	Data Type in V2.5.0.4.0	Data Type in V2.6.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	PROD_BUNDLE_TYPE_F LG	Newly Added	-	CHAR(4)	No	-

D.4 CI_ACCT

The following table lists the columns that are either newly added or modified in the CI_ACCT table:

Sr. No.	Column Name	Modification Type	Data Type in V2.5.0.4.0	Data Type in V2.6.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	ACCR_CYC_CD	Newly Added	-	CHAR(4)	No	-
2.	EXCL_ACCR_SW	Newly Added	-	CHAR(1)	No	-

D.5 CI_BILL_ROUTING

The following table lists the columns that are either newly added or modified in the CI_BILL_ROUTING table:

Sr. No.	Column Name	Modification Type	Data Type in V2.5.0.4.0	Data Type in V2.6.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	ADDRESS_ID	Newly Added	-	CHAR(12)	No	-

D.6 CI_CIS_DIVISION

The following table lists the columns that are either newly added or modified in the CI_CIS_DIVISION table:

Sr. No.	Column Name	Modification Type	Data Type in V2.5.0.4.0	Data Type in V2.6.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	ACCR_CYC_CD	Newly Added	-	CHAR(4)	No	-
2.	ACCR_ELIG_SW	Newly Added	-	CHAR(1)	No	-

D.7 CI_FILE_REQUEST_DTL_MSG

The following table lists the columns that are either newly added or modified in the CI_FILE_REQUEST_DTL_MSG table:

Sr. No.	Column Name	Modification Type	Data Type in V2.5.0.4.0	Data Type in V2.6.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	STATUS_CD	Newly Added	-	CHAR(12)	No	-

D.8 CI_FILE_REQUEST_TYPE

The following table lists the columns that are either newly added or modified in the CI_FILE_REQUEST_TYPE table:

Sr. No.	Column Name	Modification Type	Data Type in V2.5.0.4.0	Data Type in V2.6.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	TRANSFORM_ALG_CD	Newly Added	-	CHAR(12)	No	-
2.	FILE_FOOTER_SW	Newly Added	-	CHAR(1)	No	-
3.	FILE_HEADER_SW	Newly Added	-	CHAR(1)	No	-

Sr. No.	Column Name	Modification Type	Data Type in V2.5.0.4.0	Data Type in V2.6.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
4.	FILE_LOCATION	Newly Added	-	VARCHAR2(4000)	No	-
5.	FILE_PURGE_SW	Newly Added	-	CHAR(1)	No	-
6.	TRANSFORM_SW	Newly Added	-	CHAR(1)	No	-
7.	FOOTER_XML_TAG	Newly Added	-	CHAR(50)	No	-
8.	HEADER_XML_TAG	Newly Added	-	CHAR(50)	No	-
9.	ROOT_XML_TAG	Newly Added	-	CHAR(50)	No	-
10.	TRANSFORM_ALG_CD	Newly Added	-	CHAR(12)	No	-
11.	ALL_SVC_EXE_SW	Newly Added	-	CHAR(1)	No	-

D.9 CI_FILE_REQUEST_TYPE_SERVICE

The following table lists the columns that are either newly added or modified in the CI_FILE_REQUEST_TYPE_SERVICE table:

Sr. No.	Column Name	Modification Type	Data Type in V2.5.0.4.0	Data Type in V2.6.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	DEFER_COMPLETION_SW	Newly Added	-	CHAR(1)	No	-

D.10 CI_STM_CNST

The following table lists the columns that are either newly added or modified in the CI_STM_CNST table:

Sr. No.	Column Name	Modification Type	Data Type in V2.5.0.4.0	Data Type in V2.6.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	ADDRESS_ID	Newly Added	-	CHAR(12)	No	-

D.11 CI_TRL_BILL_ROUTING

The following table lists the columns that are either newly added or modified in the CI_TRL_BILL_ROUTING table:

Sr. No.	Column Name	Modification Type	Data Type in V2.5.0.4.0	Data Type in V2.6.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	ADDRESS_ID	Newly Added	-	CHAR(12)	No	-

D.12 CM_TRG_RM_CUST_ACCT_DETAIL

The following table lists the columns that are dropped in the CM_TRG_RM_CUST_ACCT_DETAIL table:

Sr. No.	Column Name	Modification Type	Data Type in V2.5.0.4.0	Data Type in V2.6.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	CUST_ID	Dropped	CHAR(15)	-	-	-

D.13 CM_TRG_RM_CUST_DETAIL

The following table lists the columns that are dropped in the CM_TRG_RM_CUST_DETAIL table:

Sr. No.	Column Name	Modification Type	Data Type in V2.5.0.4.0	Data Type in V2.6.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	CUST_ID	Dropped	CHAR(15)	-	-	-

D.14 C1_DSPT_REQ_LOG_PARM

The following table lists the columns that are either newly added or modified in the C1_DSPT_REQ_LOG_PARM table:

Sr. No.	Column Name	Modification Type	Data Type in V2.5.0.4.0	Data Type in V2.6.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	MESSAGE_PARM	Column Format Change	VARCHAR2 (30)	VARCHAR2(2000)	-	-

D.15 C1_REF_WO_REQ_LOG_PARM

The following table lists the columns that are either newly added or modified in the C1_REF_WO_REQ_LOG_PARM table:

Sr. No.	Column Name	Modification Type	Data Type in V2.5.0.4.0	Data Type in V2.6.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	MESSAGE_PARM	Column Format Change	VARCHAR2 (2000)	VARCHAR2(30)	-	-

D.16 CI_FILE_REQUEST_DETAIL

The following table lists the columns that are either newly added or modified in the CI_FILE_REQUEST_DETAIL table:

Sr. No.	Column Name	Modification Type	Data Type in V2.5.0.4.0	Data Type in V2.6.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	BO_DATA_AREA	Column Format Change	CLOB(4000)	VARCHAR2(320 00)	-	-
2.	RESPONSE_OBJECT	Column Format Change	CLOB(4000)	VARCHAR2(320 00)	-	-

D.17 CI_FILE_REQUEST_DTL_SERVICE

The following table lists the columns that are either newly added or modified in the CI_FILE_REQUEST_DTL_SERVICE table:

Sr. No.	Column Name	Modification Type	Data Type in V2.5.0.4.0	Data Type in V2.6.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	BO_DATA_AREA	Column Format Change	CLOB(4000)	VARCHAR2(320 00)	-	-
2.	RESPONSE_OBJECT	Column Format Change	CLOB(4000)	VARCHAR2(320 00)	-	-

D.18 CI_FILE_REQUEST_TYPE

The following table lists the columns that are either newly added or modified in the CI_FILE_REQUEST_TYPE table:

Sr. No.	Column Name	Modification Type	Data Type in V2.5.0.4.0	Data Type in V2.6.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	EXTERNAL_SYSTEM	Column Format Change	VARCHAR2 (4)	VARCHAR2(255)	-	-

D.19 CI_PRC_AC_PER_VW

The following table lists the columns that are either newly added or modified in the CI_PRC_AC_PER_VW table:

Sr. No.	Column Name	Modification Type	Data Type in V2.5.0.4.0	Data Type in V2.6.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	REL_PATH	Column Format Change	VARCHAR2 (4000)	VARCHAR2(327 67)	-	-

D.20 CI_PRC_AGRD_VW

The following table lists the columns that are either newly added or modified in the CI_PRC_AGRD_VW table:

Sr. No.	Column Name	Modification Type	Data Type in V2.5.0.4.0	Data Type in V2.6.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	REL_PATH	Column Format Change	VARCHAR2 (4000)	VARCHAR2(327 67)	-	-

D.21 CI_PRC_INH_PL_VW

The following table lists the columns that are either newly added or modified in the CI_PRC_INH_PL_VW table:

Sr. No.	Column Name	Modification Type	Data Type in V2.5.0.4.0	Data Type in V2.6.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	REL_PATH	Column Format Change	VARCHAR2 (4000)	VARCHAR2(32767)	-	-

D.22 CI_PRC_PER_AGRD_VW

The following table lists the columns that are either newly added or modified in the CI_PRC_PER_AGRD_VW table:

Sr. No.	Column Name	Modification Type	Data Type in V2.5.0.4.0	Data Type in V2.6.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	REL_PATH	Column Format Change	VARCHAR2 (4000)	VARCHAR2(32767)	-	-

D.23 CI_PRC_PER_INH_PL_VW

The following table lists the columns that are either newly added or modified in the CI_PRC_PER_INH_PL_VW table:

Sr. No.	Column Name	Modification Type	Data Type in V2.5.0.4.0	Data Type in V2.6.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	REL_PATH	Column Format Change	VARCHAR2 (4000)	VARCHAR2(32767)	-	-

D.24 CI_PRC_PER_PER_VW

The following table lists the columns that are either newly added or modified in the CI_PRC_PER_PER_VW table:

Sr. No.	Column Name	Modification Type	Data Type in V2.5.0.4.0	Data Type in V2.6.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	REL_PATH	Column Format Change	VARCHAR2 (4000)	VARCHAR2(32767)	-	-

D.25 CI_PRC_PER_PL_VW

The following table lists the columns that are either newly added or modified in the CI_PRC_PER_PL_VW table:

Sr. No.	Column Name	Modification Type	Data Type in V2.5.0.4.0	Data Type in V2.6.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	REL_PATH	Column Format Change	VARCHAR2 (4000)	VARCHAR2(32767)	-	-

D.26 CI_PRC_PER_VW

The following table lists the columns that are either newly added or modified in the CI_PRC_PER_VW table:

Sr. No.	Column Name	Modification Type	Data Type in V2.5.0.4.0	Data Type in V2.6.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	REL_PATH	Column Format Change	VARCHAR2 (4000)	VARCHAR2(32767)	-	-

D.27 CI_PRC_PL_VW

The following table lists the columns that are either newly added or modified in the CI_PRC_PL_VW table:

Sr. No.	Column Name	Modification Type	Data Type in V2.5.0.4.0	Data Type in V2.6.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	REL_PATH	Column Format Change	VARCHAR2 (4000)	VARCHAR2(32767)	-	-

Appendix E : Algorithms and Algorithm Types Dropped in 2.6.0.0.0

This section lists the algorithms and algorithm types which are dropped in Oracle Revenue Management and Billing Version 2.6.0.0.0.

E.1 Algorithm Type

No algorithm types are dropped in Oracle Revenue Management and Billing Version 2.6.0.0.0.

E.2 Algorithm

The following table lists the algorithms that are dropped in Oracle Revenue Management and Billing Version 2.6.0.0.0:

Algorithm	Description
C1-ACCT_ID	Account ID preprocessing algorithm
C1-CCA	Contact Action Algorithm
C1-GLVAL	Algo for GL Account Validation
C1-GLVAL-COB	Validate the GL account
C1-HOLDPROC	Hold Request - Active Entity For Process Algorithm
C1-PER_ID	Person ID preprocessing algorithm
VK-ADJT-NM	Payoff Amt = Adj / Current Amt = Adj
Z_HAS_BNK	Return TRUE if account has ELECTRIC service: RAJ

Appendix F : Parameters Added or Removed from Algorithms and Algorithm Types in 2.6.0.0.0

No new parameters are added or removed from algorithms and algorithm types in Oracle Revenue Management and Billing Version 2.6.0.0.0.

Appendix G : Option Types Added or Removed from Feature Configurations in 2.6.0.0.0

The following table lists the option types which are added or removed from the feature configurations in Oracle Revenue Management and Billing Version 2.6.0.0.0:

Feature Configuration	Option Types (Removed from 2.6.0.0.0)	Option Types (Added in 2.6.0.0.0)
C1_CMO	-	Administrative Contract Type
	-	Account Contract Type

Appendix H : Characteristic Types Dropped in 2.6.0.0.0

No characteristic types are dropped in Oracle Revenue Management and Billing Version 2.6.0.0.0.

Appendix I : Batch for 2.5.0.4.0 to 2.6.0.0.0 Data Migration

This section describes the CM_U0426 batch which is used for migrating data from Oracle Revenue Management and Billing Version 2.5.0.4.0 to 2.6.0.0.0.

I.1 CM_U0426

The CM_U0426 batch creates a copy of the existing person mailing, person seasonal, and account override addresses and adds the entries in the following new tables:

- C1_ADDRESS – Used to store an address.
- C1_ADDRESS_ENTITY – Used to store entities associated to an address.
- C1_ADDRESS_K – Used to store the address ID.
- C1_ADDRESS_CHAR – Used to store characteristics defined for an address.
- C1_ADDRESS_LOG – Used to store log of an address.
- C1_ADDRESS_LOG_PARM – Used to store address log parameters.

The address records are copied from the CI_PER, CI_PER_ADDR_SEAS, and CI_PER_ADDR_OVRD tables. The EFFT_DT column for a record in the C1_ADDRESS_ENTITY table is set to 01-01-1900 indicating that the address is associated with the respective entity from 01-01-1900.

However, before migrating the data using the CM_U0426 batch, you need to ensure that the following new tables do not contain any data:

C1_ADDRESS

C1_ADDRESS_ENTITY

C1_ADDRESS_K

C1_ADDRESS_CHAR

C1_ADDRESS_LOG

C1_ADDRESS_LOG_PARM

Appendix J : 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 4.3.0.4.0:

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:

Linux:

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

Windows:

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

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

Linux:

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

Windows:

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