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Database Administrator's Guide

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Preface

About This Document

This document will help you to understand how to install and maintain the Oracle Revenue Management and Billing (ORMB) database.

Intended Audience

This document is intended for the following audience:

- End-Users
- Database 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	Database Overview	Lists the database server supported on each platform. It also lists the dos and don'ts while maintaining a database.
Section 2	Installing Oracle Revenue Management and Billing Version 2.6.0.0.0 Database	Explains how to install the Oracle Revenue Management and Billing database.
Section 3	Database Design	Lists the naming conventions for various database objects. It also lists and describes the column data types and foreign key constraints.
Section 4	Exadata Database Settings	Lists a set of activities that you need to perform if you are using the Oracle Exadata Database machine as the database server.
Section 5	Database Implementation Guidelines	Lists and describes the general guidelines for configuring various objects in the database and implementing Oracle Database.
Appendix A	New Objects in the Oracle Revenue Management and Billing V2.6.0.0.0 Database	Lists the objects that are newly added in the Oracle Revenue Management and Billing V2.6.0.0.0 database.
Appendix B	Application Services Configured for Default User Group	Lists the application services configured for the default user groups shipped with Oracle Revenue Management and Billing Version 2.6.0.0.0.

Section No.	Section Name	Description
Appendix C	Changing the DB User Password	Explains how to change the database user password.
Appendix D	New Objects in the Oracle Utilities Application Framework V4.3.0.4.0 Database	Lists the objects that are newly added in the Oracle Utilities Application Framework V4.3.0.4.0 database.
Appendix E	Oracle Utilities Application Framework System Table Guide	Lists the system tables owned by Oracle Utilities Application Framework V4.3.0.4.0 and explains the standards and guidelines to be followed while updating the data in the system tables.
Appendix F	License and Copyright Notices	Lists all notices with reference to usage of third party products.

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 Installation Guide</i>	Lists the application server pre-requisites, supported platforms, and software and hardware requirements for installing the Oracle Revenue Management and Billing application. It explains how to install the Oracle Revenue Management and Billing application.
<i>Oracle Revenue Management and Billing Quick Installation Guide</i>	Provides high-level information on how to install the Oracle Revenue Management and Billing (ORMB) application and selected additional software.
<i>Oracle Revenue Management and Billing Server Administration Guide</i>	Explains the Oracle Revenue Management and Billing (ORMB) architecture and technical know-how required for configuring and using the ORMB application. It explains how to configure and deploy web and business application servers. In addition, it explains how to monitor client machines, web and/or business application servers, and database connections.

Document	Description
<i>Oracle Revenue Management and Billing Security Guide</i>	Lists the security features available in the Oracle Revenue Management and Billing application. It explains how to configure security for the Oracle Revenue Management and Billing application using the default security features.

Conventions

The following conventions are used across this document:

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

Change Log

Revision	Last Update	Updated Section	Comments
12.1	31-May-2017	Section 2.3.1.4: Installing Oracle Utilities Application Framework	Corrected information in the Installing Rollup Pack for Oracle Utilities Application Framework Version 4.3.0.4.0 section
12.2	13-Jun-2017	Section A.2.1: Algorithm Type	Removed Information
12.3	19-Jun-2017	Section 2.3.1.4: Installing Oracle Utilities Application Framework	Corrected information in the Installing Rollup Pack for Oracle Utilities Application Framework Version 4.3.0.4.0 section
12.4	22-Jun-2017	Section 2.3.2: Demo Install	Added Section
		Section 2.3: Oracle Database Installation	Corrected Hyperlink

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1. Database Overview

This section provides an overview of the Oracle Revenue Management and Billing database, including:

- Supported Database Platforms
- Database Maintenance Rules

1.1 Supported Database Platforms

This section defines the platforms on which Oracle Revenue Management and Billing is verified to operate.

1.1.1 Supported Platforms Summary Table

Oracle Revenue Management and Billing (ORMB) is supported on the following platforms:

Platform	Database Server
Oracle Linux 6.x and 7.x (64-bit)	Oracle Database Server 12.1.0.2 (64-bit)
Red Hat Enterprise Linux ¹ 6.x and 7.x (64-bit)	Oracle Database Server 12.1.0.2 (64-bit)
Windows Server 2012 R2 (64-bit)	Oracle Database Server 12.1.0.2 (64-bit)

Note:

Oracle Corporation distributes Oracle Linux with the following two kernels:

- **Red Hat Compatible Kernel** – This kernel is identical to the kernel shipped in Red Hat Enterprise Linux.
- **Unbreakable Enterprise Kernel** – This kernel is based on a later Linux 2.6-series kernel, with Oracle's own enhancements for OLTP, InfiniBand, SSD disk access, NUMA-optimizations, Reliable Datagram Sockets (RDS), async I/O, OCFS2, and networking.

Oracle claims that the Unbreakable Enterprise Kernel is compatible with Red Hat Enterprise Linux; and Oracle middleware and third-party Red Hat Enterprise Linux-certified applications can be installed and run unchanged on Unbreakable Enterprise Kernel. However, for users requiring strict compatibility with Red Hat or for users running kernel modules dependent on specific kernel versions, the Red Hat Compatible Kernel offers 100% compatibility with Red Hat Enterprise Linux.

The following Oracle Database Server Editions are supported:

- Oracle Database Enterprise Edition

Oracle Database Client 12.1.0.2 is required for Oracle Database Server 12.1.0.2.

¹ Oracle Revenue Management and Billing is tested and certified on Oracle Linux 6.x and 7.x. Oracle Linux is 100% userspace-compatible with Red Hat Enterprise Linux, and therefore Oracle Revenue Management and Billing is supported on Red Hat Enterprise Linux.

Note:

Oracle Database Enterprise Edition with the Advanced Compression and Partitioning options is strongly recommended in all situations.

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

1.1.2 Support for Software Patches and Upgrades

Due to the ongoing nature of software improvement, vendors will issue patches and service packs for the operating systems, application servers and database servers on top of specific versions that Oracle Revenue Management and Billing has been tested with.

If it is necessary to apply an upgrade, please do so in a test environment that is running on the same platform as your production environment prior to updating the Oracle Revenue Management and Billing production environment.

The exception from this rule is Hibernate Version 4.1 GA. This version should not be upgraded.

Always contact Oracle Support prior to applying vendor updates that do not guarantee backward compatibility.

1.2 Database Maintenance Rules

The database supplied with the product consists of the following elements:

- A set of users to administrate, execute and read the database schema provided.
- A set of database roles to implement security for each of the users provided.
- A tablespace and a schema containing the base database objects used by the product.

The installation of these components is outlined in the installation section of this document.

1.2.1 Permitted Database Changes

During and after installation of the product the following changes may be performed by the database administrator personnel on site:

- Users supplied by product may be changed according to the site standards.
- Database objects may be added to the schema according to database naming standards outlined later in this document.
- Database views and indexes may be created against base database objects. Please make sure to prefix them with "CM" (for customer modification).
- Database storage attributes for base indexes and base tables may be changed according to site standards and hardware used.
- Tablespace names, attributes and locations may be changed according to site standards.
- Database topology (that is, base table/index to tablespace, tablespace to data file, data file to location) may be altered according to tuning and/or site standards.
- Database triggers may be created against base database objects unless they attempt to contravene base data integrity rules.
- Database initialization and parameter settings may be altered according to site standards unless otherwise advised by Oracle Support or outlined in this document.

1.2.2 Non-Permitted Database Changes

In order to maintain operability and upgradeability of the product, during and after the installation of the product, the following changes may not be performed by the database administration personnel on site:

- Base objects must not be removed or altered in the following ways:
 - Columns in base tables must not be altered in anyway (altered, removed or added).
 - Columns in Indexes must not be altered or removed.
 - Tables must not be renamed or removed.
 - Base views must not be renamed or removed.
 - Base Triggers and Sequences must not be renamed or removed.
 - Base indexes must not be altered or removed.

2. Installing Oracle Revenue Management and Billing Version 2.6.0.0.0 Database

This section provides the instructions for installing the Oracle Revenue Management and Billing database. This section includes the following topics:

- [Installation Overview](#)
- [Creating the Database](#)
- [Oracle Database Installation](#)

2.1 Installation Overview

Note: Refer to the [Supported Database Platforms](#) section for information about the supported platforms on which Oracle Revenue Management and Billing is verified to operate.

The following types of installation are available for Oracle Revenue Management and Billing:

- Initial Install — a database without demo data

The database installation requires Java Development Kit Version 8.0 where the install package is staged and run from.

2.2 Creating the Database

For an initial install, you will create an empty database on a Linux or Windows database server on which you operate the production instance of Oracle Revenue Management and Billing.

To create the database:

1. Create the database using the Database Configuration Assistant (DBCA). Refer to the article *Master Note: Overview of Database Configuration Assistant (DBCA)* (Doc ID 1488770.1) on [My Oracle Support](#) for more information. Ensure that you set the database character set to AL32UTF8.

Note: In the prior versions of the product, the cdxdba utility (cdxdba.plx for Linux and CDXDBA.exe for Windows) was included in the package. However, it is no longer supported from this release onwards. Instead of using the cdxdba utility, use the Database Configuration Assistant to create the database.

2. Enable the following mandatory software options:
 - Oracle Spatial OR Oracle Locator
 - Oracle Text
3. Execute the following SQL command to verify whether the above mandatory software options are enabled:

```
SELECT COMP_NAME, STATUS FROM DBA_REGISTRY WHERE COMP_NAME IN ('Spatial', 'Oracle Text');
```

4. Create default tablespace named CISTS_01 using the following command:

```
CREATE TABLESPACE CISTS_01 LOGGING DATAFILE
'<db_file_location>/oradata/<DB_NAME>/cists01.dbf' SIZE 1024M
REUSE AUTOEXTEND ON NEXT 8192K MAXSIZE UNLIMITED EXTENT
MANAGEMENT LOCAL UNIFORM SIZE 1M;
```

5. Create the CIS_USER and CIS_READ roles using the following commands:

```
CREATE ROLE CIS_USER;
CREATE ROLE CIS_READ;
```

6. Create the CISADM, CISUSER, CISOPR, and CISREAD users using the following commands:

```
CREATE USER CISADM IDENTIFIED BY CISADM DEFAULT TABLESPACE
CISTS_01 TEMPORARY TABLESPACE TEMP PROFILE DEFAULT;

GRANT UNLIMITED TABLESPACE TO CISADM WITH ADMIN OPTION; GRANT
SELECT ANY TABLE TO CISADM;

GRANT CREATE DATABASE LINK TO CISADM; GRANT CONNECT TO CISADM;

GRANT RESOURCE TO CISADM;

GRANT DBA TO CISADM WITH ADMIN OPTION; GRANT CREATE ANY SYNONYM
TO CISADM; GRANT SELECT ANY DICTIONARY TO CISADM;

CREATE USER CISUSER PROFILE DEFAULT IDENTIFIED BY CISUSER DEFAULT
TABLESPACE CISTS_01 TEMPORARY TABLESPACE TEMP;

GRANT SELECT ANY TABLE TO CISUSER; GRANT CIS_USER TO CISUSER;

GRANT CIS_READ TO CISUSER; GRANT CONNECT TO CISUSER;

CREATE USER CISOPR PROFILE DEFAULT IDENTIFIED BY OPRPLUS DEFAULT
TABLESPACE CISTS_01 TEMPORARY TABLESPACE TEMP;

GRANT CONNECT, RESOURCE, EXP_FULL_DATABASE TO CISOPR;

CREATE USER CISREAD IDENTIFIED BY CISREAD DEFAULT TABLESPACE
CISTS_01 TEMPORARY TABLESPACE TEMP;

GRANT SELECT ANY TABLE TO CISREAD; GRANT CIS_READ TO CISREAD;

GRANT CONNECT TO CISREAD;
```

7. Review the Storage.xml file under the FW\FW43040\Install-Upgrade folder prior to initial install. This file allocates all base tables and indexes to the default tablespace (CISTS_01) and the required users and roles. Information in this file is used by oradbi.jar while installing the Oracle Revenue Management and Billing database objects. Refer to the [Updating Storage.xml](#) section for more information on how to update the Storage.xml file.

Note: You will need to review the Storage.xml file, prior to an initial install, to update the default values to custom values (for example, TableSpace Name). oradbi.jar can be executed by a non-schema owner in order to upgrade the database. The Initial Install still needs to be done by the schema owner.

If you decide to allocate some tables or indexes outside of the default tablespace, change the tablespace name from the default value to a custom value in the Storage.xml file.

For instance, if you decide to allocate table CI_ACCT in a tablespace MyTablespace, change Storage.xml as shown:

```
<CI_ACCT>
<TABLESPACE>MyTablespace</TABLESPACE>
</CI_ACCT>
```

For optimum storage allocation, database administrators should create multiple tablespaces with extents sized to store different types of tables/indexes. They can then edit the storage.xml file before install process, to spread tables and indexes across these tablespaces. Tables and indexes can be created in parallel by editing degree of parallelism. Tablespace, storage options, secure file options, Advanced Compression, and parallel information are used only for new objects. Therefore, for initial installs, information for each object should be reviewed. Be careful while editing this file. Make sure that tablespace names being used exist in the database. Do not change the basic format of this file.

Note: Prior to the installation of the database schema for the product, please ensure that the Database Management System software is installed according to your site standards and the installation guide provided by the database vendor. Also please make sure that you have necessary licenses to use some of the advanced database features, such as Advanced Compression.

2.3 Oracle Database Installation

This section describes how to install Oracle Database for Oracle Revenue Management and Billing Version 2.6.0.0.0. It contains the following topics:

- [Initial Install, or Installing Version 2.6.0.0.0 for the First Time](#)
- [Demo Install](#)
- [Populating Language Data](#)
- [Installing Service Packs and Patches](#)

Note: The installation tools outlined in this guide run on Windows and Linux only. Please refer to the [Supported Database Platforms](#) section for more information on supported platforms.

2.3.1 Initial Install, or Installing Version 2.6.0.0.0 for the First Time

This section describes how to install the database components of Oracle Revenue Management and Billing. It includes the following topics:

- [Copying and Decompressing Install Media](#)
- [Creating the Database](#)
- [Setting the MAX_STRING_SIZE Parameter to EXTENDED](#)
- [Installing Oracle Utilities Application Framework](#)
- [Installing Oracle Revenue Management and Billing](#)
- [Post Installation Tasks](#)

Note:

You must have a supported version of the Java Development Kit installed on the Windows and Linux desktop where you stage and run the database installation package. Refer to the *Oracle Revenue Management and Billing Installation Guide* for more information.

Before you begin with the installation, ensure that you have Oracle Database Client installed on the Windows desktop.

2.3.1.1 Copying and Decompressing Install Media

To download and decompress the ORMB Database package:

1. Download the Oracle Revenue Management and Billing V2.6.0.0.0 Oracle Database package from the Oracle Revenue Management and Billing V2.6.0.0.0 media pack which is available on [Oracle Software Delivery Cloud](#). A zip file is downloaded.
2. Create a temporary directory named `TEMPDIR` on your local machine.
3. Unzip the downloaded file in the `TEMPDIR` directory. The contents include the following sub-folders:
 - FW
 - RMB

2.3.1.2 Creating the Database

Note: You must have Oracle Database Server 12.1.0.2 installed on your machine in order to create the database.

The Linux and Windows database creation utilities create an empty database with AL32UTF8 character set and at least one tablespace for storing the application objects before running the installation. The default name of the application tablespace is `CISTS_01`.

Creating the Database on Linux

Create the database using the Database Configuration Assistant (DBCA). Refer to the article *Master Note: Overview of Database Configuration Assistant (DBCA)* (Doc ID 1488770.1) on [My Oracle Support](#) for more information. Ensure that you set the database character set to AL32UTF8.

For more information on how to create the database, refer to the [Creating the Database](#) section.

Creating the Database on Windows

The files for creating the database are located in the DatabaseCreation/Windows directory in directory.

You should be logged in as a user who is a member of the local `ORA_DBA` group on that server. The `ORA_DBA` group should have “administrator” privileges assigned to it.

Create the database using the Database Configuration Assistant (DBCA). Refer to the article *Master Note: Overview of Database Configuration Assistant (DBCA)* (Doc ID 1488770.1) on [My Oracle Support](#) for more information. Ensure that you set the database character set to AL32UTF8.

For more information on how to create the database, refer to the [Creating the Database](#) section.

2.3.1.3 Setting the MAX_STRING_SIZE Parameter to EXTENDED

If you have created 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.
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 created 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
```

- Restart the database in the Normal mode using the following commands:

```
shutdown immediate
startup
alter pluggable database all open read write;
```

2.3.1.4 Installing Oracle Utilities Application Framework

Please note that before this step the database creation should have been completed. Also the storage.xml file is reviewed and edited as per requirements. You need to install Oracle Utilities Application Framework Version 4.3.0.4.0 prior to Oracle Revenue Management and Billing Version 2.6.0.0.0. The files for Oracle Utilities Application Framework installation are located in the FW\FW43040 folder. The installation process will prompt you to provide the following information:

- The target database name in which the product is to be installed.
- A database user that will own the application schema (for example, CISADM).
- A database user that has read-write (select, update, insert, and delete) privileges to the objects in the application schema (for example, CISUSER). The application will access the database as this user.
- A database user with read-only privileges to the objects in the application schema. (For example, CISREAD).
- A database role that has read-write (select, update, insert, and delete) privileges to the objects in the application schema. The application will access the database as this user. (For example, CIS_USER).
- A database role with read-only privileges to the objects in the application schema (for example, CIS_READ).
- Location of the jar files. (The Jar files are bundled with the database package.)
- Java Home (for example, C:\Java\jdk1.8.0_111)

Note: Make sure to use either oradbi.jar FW 4.3 SP3 onwards only OraDBI.jar is delivered in directory jarfiles.OraDBI.exe does not support latest functionality / features introduced in OraDBi.jar such as function based index for columns, exclusion for index during upgrade etc.

To install Oracle Utilities Application Framework (OUAF), you need to install the following in the specified order:

- [Install Oracle Utilities Application Framework Version 4.3.0.4.0](#)
- [Install Rollup Pack for Oracle Utilities Application Framework Version 4.3.0.4.0](#)

Installing Oracle Utilities Application Framework Version 4.3.0.4.0

The oradbi.jar is the new tool to install and upgrade Oracle Utilities Application Framework and Oracle Revenue Management and Billing.

To install the schema for Oracle Utilities Application Framework Version 4.3.0.4.0, you should have the following:

- Java Development Kit 1.8
- Oracle Database

- Schema such as CISADM should exist in the database

You can execute the oradbi.jar utility in the following two modes:

- Interactive
- Command Line

To install Oracle Utilities Application Framework (OUAF) Version 4.3.0.4.0 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=TEMPDIR\FW\FW43040\jarfiles
```

Note:

The above command is applicable only for Linux platform.

The TEMPDIR 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=TEMPDIR\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
```

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

Windows:

```
cd TEMPDIR\FW\FW43040\Install-Upgrade
```

Linux:

```
cd TEMPDIR\FW\FW43040\Install-Upgrade
```

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

Windows:

```
<Java_Home>\bin\java -Xmx1500M -cp TEMPDIR\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>

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

```
Ready to perform initial install of Database Rel .V4.3.0.4.0 do
you want to continue ?
```

7. 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. 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=TEMPDIR/FW/FW43040/jarfiles
```

Note:

The above command is applicable only for Linux platform.

The TEMPDIR 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=TEMPDIR\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
```

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 TEMPDIR\FW\FW43040\Install-Upgrade
```

Linux:

```
cd TEMPDIR/FW/FW43040/Install-Upgrade
```

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

Windows:

```
<Java_Home>\bin\java -Xmx1500M -cp TEMPDIR\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.

On installing Oracle Utilities Application Framework Version 4.3.0.4.0, various objects are created in the database under CISADM schema. The following table lists the number of objects that are created when you install framework:

Object Type	Count
INDEX	707
SEQUENCE	4
TABLE	536
TRIGGER	1
VIEW	8

Note: You should use the above object count for verification only when you are doing fresh installation on the database server and not when you are upgrading the database.

Ideally, the Oracle Utilities Application Framework Version 4.3.0.3.0 installation should approximately finish in 5 minutes. The execution time can vary to great extent depending on network speed between local machine and server location.

After setting up roles and users, the utility continues upgrading schema and system data definitions. If an error occurs while executing an SQL or another utility, it logs and displays the error message and allows you to re-execute the current step.

Note:

OraDBI performs the following tasks:

- Interacts with the user to collect information about the name of Oracle account that will own the application schema (for example, CISADM), password of this account, and the name of the Oracle account that the application user will use (for example, CISUSER), and the name of the Oracle account that will be assigned read-only privileges to the application schema (for example, CISREAD).
- Verifies whether tablespace names already exist in the `Storage.xml` file (if not, the process will abort).
- Installs the schema, installs the system data, and configures security.
- Maintains upgrade log tables in the database.
- Updates release ID when the upgrade is completed successfully.
- If an error occurs while executing a SQL script or another utility, it logs and displays the error message and allows you to re-execute the current step. Log files `OraDBI###.log` are created in the same folder as OraDBI and contains all the SQL commands executed against the database along with the results. The log files are incremental so that the results are never overwritten. If warning messages are generated during the upgrade, OraDBI prompts the user at the end of the process. Users should check the log files to verify the warning messages.
- Warning messages are only alerts and do not necessary mean a problem exists.
- Stores the Schema owner and password in the feature configuration table. The password is stored in encrypted format.
- OraDBI can be executed by a non-schema owner.

Installing Rollup Pack for Oracle Utilities Application Framework 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 Linux Standalone server. To install the rollup pack for Oracle Utilities Application Framework Version 4.3.0.4.0:

1. Download the Oracle Utilities Application Framework V4.3.0.4.0 Single Fix Prerequisite Rollup for RMB V2.6.0.0.0 package from the Oracle Revenue Management and Billing V2.6.0.0.0 media pack which is available on [Oracle Software Delivery Cloud](#). A zip file is downloaded.
2. Unzip the downloaded file in the `TEMPDIR` directory. The contents include the `_ORMB-V26000-FW-PREREQ-MultiPlatform.jar` file.
3. Decompress the JAR file using the following command:

```
cd TEMPDIR
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

4. Create a directory named `dbpatch_tools` in the `TEMPDIR` directory.
5. 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*.
6. Copy the `db_patch_standalone.jar` file to the `dbpatch_tools` directory.
7. Decompress the JAR file using the following command:

Windows:

```
cd TEMPDIR\dbpatch_tools
jar -xvf db_patch_standalone.jar
```

Linux:

```
cd /TEMPDIR/dbpatch_tools
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`

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

Windows:

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

Linux:

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

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

Windows:

```
cd TEMPDIR\FW-V4.3.0.4.0-Rollup\Database
```

Linux:

```
cd /TEMPDIR/FW-V4.3.0.4.0-Rollup/Database
```

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

Windows:

```
ouafDatabasePatch.cmd
```

Linux:

```
ouafDatabasePatch.sh
```

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]	<input type="radio"/> (if you have Oracle database) OR <input type="radio"/> (if you have MySQL database)
Enter the username that owns the schema	<DB_USER> Example: CISADM
Enter the password for the <DB_USER> user	<DB_USER_PASSWORD>
Enter the name of the Oracle Database Connection String	<DB_Server:DBPORT:ORACLE_SID>

Note: If you have changed the database user password, you will not be able to install the rollup pack for Oracle Utilities Application Framework Version 4.3.0.4.0. You will have to first change the database user password. For more information on how to change the database user password, refer to [Appendix C: Changing the DB User Password](#).

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

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

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

On installing the rollup pack for Oracle Utilities Application Framework Version 4.3.0.4.0, various objects are created in the database under CISADM schema. The following table lists the number of objects that are created when you install the framework rollup pack:

Object Type	Count
INDEX	707
SEQUENCE	4
TABLE	536
TRIGGER	1
VIEW	8

Note: You should use the above object count for verification only when you are doing fresh installation on the database server and not when you are upgrading the database.

Ideally, the framework rollup pack installation should approximately finish in 5 minutes. The execution time can vary to great extent depending on network speed between local machine and server location.

2.3.1.5 Installing Oracle Revenue Management and Billing

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=TEMPDIR/RMB/jarfiles
```

Note:

The above command is applicable only for Linux platform.

The `TEMPDIR` 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=TEMPDIR\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 TEMPDIR\RMB\Upgrade\Oracle\Install-Upgrade
```

Linux:

```
cd TEMPDIR/RMB/Upgrade/Oracle/Install-Upgrade
```

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

Windows:

```
<Java_Home>\bin\java -Xmx1500M -cp TEMPDIR\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
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 perform initial install of Database Rel .V2.6.0.0.0 do
you want to continue?
```

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=TEMPDIR/RMB/jarfiles
```

Note:

The above command is applicable only for Linux platform.

The TEMPDIR 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=TEMPDIR\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 TEMPDIR\RMB\Upgrade\Oracle\Install-Upgrade
```

Linux:

```
cd TEMPDIR/RMB/Upgrade/Oracle/Install-Upgrade
```

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

Windows:

```
<Java_Home>\bin\java -Xmx1500M -cp TEMPDIR\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.

On installing Oracle Revenue Management and Billing Version 2.6.0.0.0, various objects are created in the database under CISADM schema. The following table lists the number of objects that are created when you install ORMB:

Object Type	Count
FUNCTION	26
INDEX	2905
PACKAGE	4
PACKAGE BODY	4
PROCEDURE	1
SEQUENCE	29
TABLE	1980
TRIGGER	1
TYPE	8
TYPE BODY	1
VIEW	160

Note: You should use the above object count for verification only when you are doing fresh installation on the database server and not when you are upgrading the database.

Ideally, the Oracle Revenue Management and Billing Version 2.6.0.0.0 installation should approximately finish in 15 minutes. The execution time can vary to great extent depending on network speed between local machine and server location.

2.3.1.6 Post Installation Tasks

Once you install the Oracle Revenue Management and Billing Version 2.6.0.0.0 database, you need to do the following:

If you...	Then
Want to use the Transaction Feed Management feature...	<ol style="list-style-type: none"> 1. Apply the 26077327 Patch 2. Apply the 26134252 Patch 3. Enable USER_LOCK Package 4. Grant Permissions to the DBMS_LOCK Package and Recompile Database Objects 5. Generate Database Statistics

If you...	Then
Do not want to use the Transaction Feed Management feature...	<ol style="list-style-type: none"> 1. Apply the 26077327 Patch 2. Apply the 26134252 Patch 3. Enable USER_LOCK Package 4. Increase INITRANS Values 5. Grant Permissions to the DBMS_LOCK Package and Recompile Database Objects 6. Generate Database Statistics

Apply the 26077327 Patch

Once you install Oracle Revenue Management and Billing Version 2.6.0.0.0, 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. Download the MANDATORY PATCH 1 FOR ORMB VERSION 2.6.0.0.0 patch (Patch Number: 26077327) from [My Oracle Support](#). A zip file is downloaded.
2. Unzip the downloaded file in your local folder. The contents include three files - README.txt, MultiPlatform.zip, and Bug_26077327_Product_Fix_Design.pdf.
3. Unzip the MultiPlatform.zip file in your local folder. The contents include the V2.6.0.0.0-26077327_MultiPlatform folder.
4. Change to the V2.6.0.0.0-26077327_MultiPlatform folder using the following command:

Linux:

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

Windows:

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

Note: The <DESTINATION_FOLDER> 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.

5. 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.

6. Unzip the CDXPatch file using the following command:

Linux:

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

Windows:

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

The contents of the zip file are extracted in the <DESTINATION_FOLDER_1> folder. The contents include utility files and a folder named 26077327.

7. Execute the ouafDatabasePatch utility using the following command:

Windows:

```
ouafDatabasePatch.cmd
```

Linux:

```
ouafDatabasePatch.sh
```

Apply 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. Download the MANDATORY PATCH 2 FOR ORMB VERSION 2.6.0.0.0 patch (Patch Number: 26134252) from [My Oracle Support](#). A zip file is downloaded.
2. Unzip the downloaded file in your local folder. The contents include three files - README.txt, MultiPlatform.zip, and Bug_26134252_Product_Fix_Design.pdf.
3. Unzip the MultiPlatform.zip file in your local folder. The contents include the V2.6.0.0.0-26134252_MultiPlatform folder.
4. Change to the V2.6.0.0.0-26134252_MultiPlatform folder using the following command:

Linux:

```
cd <DESTINATION_FOLDER_2>/V2.6.0.0.0-26134252_MultiPlatform
```

Windows:

```
cd <DESTINATION_FOLDER_2>\V2.6.0.0.0-26134252_MultiPlatform
```

Note: The <DESTINATION_FOLDER_2> 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.

5. 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.

6. Unzip the CDXPatch file using the following command:

Linux:

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

Windows:

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

The contents of the zip file are extracted in the <DESTINATION_FOLDER_3> folder. The contents include utility files and a folder named 26134252.

7. Execute the ouafDatabasePatch utility using the following command:

Windows:

```
ouafDatabasePatch.cmd
```

Linux:

```
ouafDatabasePatch.sh
```

Enable USER_LOCK Package

To enable inbound web services, you must grant permissions to the USER_LOCK package. This is a one-time activity. To grant permissions to the USER_LOCK package:

1. Login as SYS user.
2. On SQL prompt, execute the following SQL:

```
@?/rdbms/admin/userlock.sql
```
3. Grant permission using the following SQL command:

```
grant execute on USER_LOCK to public;
```

Note: You can also grant permission to a specific database user (for example, CISADM or CISUSER) instead of granting permissions to all database users.

Increase INITRANS Values

To increase the INITRANS values of some indexes and tables:

1. Connect to the ORMB database using any SQL client (such as Oracle SQL Developer or PL/SQL Developer) and the cisadm credentials.
2. Execute the following statements:

```
ALTER TABLE CISADM.CI_BCHG_SQ INITRANS 20;  
ALTER INDEX CISADM.XT081P0 INITRANS 40;  
ALTER INDEX CISADM.IDX_SQ INITRANS 40;  
ALTER TABLE CISADM.CI_BILL_CHG INITRANS 20;  
ALTER INDEX CISADM.XT035P0 INITRANS 40;  
ALTER INDEX CISADM.XT035S1 INITRANS 40;  
ALTER INDEX CISADM.XT035S2 INITRANS 40;
```

```
ALTER INDEX CISADM.XT035S3 INITRANS 40;
ALTER INDEX CISADM.XT035S4 INITRANS 40;
```

Note: The INITRANS values can be set as per the client's data volume.

Grant Permissions to the DBMS_LOCK Package and Recompile Database Objects

To grant permissions to the DBMS_LOCK package, execute the following commands:

Linux:

```
export ORACLE_SID=[DB_NAME]
sqlplus /nolog
conn sys as sysdba
```

Note: On executing the above command, you will be prompted to enter the SYS user password.

```
grant EXECUTE, DEBUG on DBMS_LOCK to <DB_USER/[CISADM]>;
```

Note:

These commands should be executed using Oracle SQL Developer.

If you have created the database using any user other than CISADM, you need to specify the respective user name in the above grant statement.

After executing the above `grant` statement, recompile the invalid objects, if any, in the database. You can recompile all invalid objects at once using the following commands:

```
export ORACLE_SID=[DB_NAME]
sqlplus /nolog
conn sys as sysdba
SQL> @?/rdbms/admin/utlrp.sql;
```

Windows:

```
set ORACLE_SID=[DB_NAME]
sqlplus /nolog
conn sys as sysdba
```

Note: On executing the above command, you will be prompted to enter the SYS user password.

```
grant EXECUTE, DEBUG on DBMS_LOCK to <DB_USER/[CISADM]>;
```

Note:

These commands should be executed using Oracle SQL Developer.

If you have created the database using any user other than CISADM, you need to specify the respective user name in the above alter and grant statements.

After executing the above `grant` statement, recompile the invalid objects, if any, in the database. You can recompile all invalid objects at once using the following commands:

```
export ORACLE_SID=[DB_NAME]
```

```
sqlplus /nolog
conn sys as sysdba
SQL> @?/rdbms/admin/utlrp.sql;
```

Generate Database Statistics

During the installation process, new database objects may be added to the target database. Before you use the target database, we recommend you to gather statistics for the database objects. You can gather schema level statistics using the following statement:

```
BEGIN
DBMS_STATS.GATHER_SCHEMA_STATS (OWNNAME=>'CISADM', METHOD_OPT=>'FOR ALL
COLUMNS SIZE AUTO', GRANULARITY=>'ALL', CASCADE=>TRUE, DEGREE=>16);
END;
```

You can also gather the statistics for individual tables using the following statement:

```
BEGIN
DBMS_STATS.GATHER_TABLE_STATS (OWNNAME=>'CISADM',
TABNAME=>'<Table_Name>', GRANULARITY=>'ALL', CASCADE=>TRUE,
METHOD_OPT=>'FOR ALL COLUMNS SIZE AUTO', DEGREE=>32);
END;
```

We strongly recommend you to schedule batch jobs to gather the schema level statistics on the daily basis in the non peak hours. Please note that the statistics should not be gathered while the application batches are running because this will degrade the application batch performance.

2.3.2 Demo Install

This section describes how to install the demo database components of Oracle Revenue Management and Billing. It includes the following topics:

- [Copying and Decompressing Demo Dump Patch](#)
- [Creating the Database](#)
- [Setting the MAX_STRING_SIZE Parameter to EXTENDED](#)
- [Importing the Demo Dump File](#)
- [Post Demo Database Creation Tasks](#)

2.3.2.1 Copying and Decompressing Demo Dump Patch

To download and decompress the Demo Dump patch:

1. Download the Demo Dump for ORMB Version 2.6.0.0.0 patch (Patch Number: 26326702) from [My Oracle Support](#). A zip file is downloaded.
2. Create a temporary directory named `TEMPDIR` on your local machine.
3. Unzip the downloaded file in the `TEMPDIR` directory. The contents include the `Demo_dump` folder. There are two DMP files in the `Demo_dump` folder – `GTB26000_demodump.dmp` and `HC26000_demodump.dmp`.

2.3.2.2 Creating the Database

Note: You must have Oracle Database Server 12.1.0.2 installed on your machine in order to create the database.

Creating the Database on UNIX

Create the database using the Database Configuration Assistant (DBCA). Refer to the article *Master Note: Overview of Database Configuration Assistant (DBCA)* (Doc ID 1488770.1) on [My Oracle Support](#) for more information. Ensure that you set the database character set to AL32UTF8.

For more information on how to create the database, refer to the [Creating the Database](#) section.

Creating the Database on Windows

The files for creating the database are located the DatabaseCreation/Windows directory in the media pack.

You should be logged in as a user who is a member of the local ORA_DBA group on that server. The ORA_DBA group should have “administrator” privileges assigned to it.

Create the database using the Database Configuration Assistant (DBCA). Refer to the article *Master Note: Overview of Database Configuration Assistant (DBCA)* (Doc ID 1488770.1) on [My Oracle Support](#) for more information. Ensure that you set the database character set to AL32UTF8.

For more information on how to create the database, refer to the [Creating the Database](#) section.

2.3.2.3 Setting the MAX_STRING_SIZE Parameter to EXTENDED

If you have created 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.
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 created 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_pdfs_output folder to store the log files using the following command:

```
mkdir /scratch/mydir/utl32k_cdb_pdfs_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_pdfs_output' -b
utl32k_cdb_pdfs_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;
```

2.3.2.4 Importing the Demo Dump File

Once you create the database, you can import the demo dump file. To import the demo dump file:

1. Create a database directory named data_pump_dir (if not available) and then copy the GTB26000_demodump.dmp or HC26000_demodump.dmp file from the TEMPDIR\Demo_dump folder to the data_pump_dir folder.

Note: If you belong from the financial services industry, use the GTB26000_demodump.dmp file. And, if you belong from the insurance industry, use the HC26000_demodump.dmp file.

2. Set the ORACLE_SID and ORACLE_HOME environment variables.
3. If the target schema is CISADM, then use the following command to import demo dump:

```
impdp system/<pwd>@<dbname> NOLOGFILE=N DIRECTORY=DATA_PUMP_DIR
DUMPFILERE=<dumpFilename>.dmp SCHEMAS=CISADM
```

4. If the target schema is other than CISADM (for example, TRGSCHM) , then use the following command to import demo dump:

```
impdp system/<pwd>@<dbname> NOLOGFILE=N DIRECTORY=DATA_PUMP_DIR
DUMPFILERE=<dumpFilename>.dmp REMAP_SCHEMA=CISADM:TRGSCHM
```

2.3.2.5 Post Demo Database Creation Tasks

Once you import the demo dump file, you need to do the following:

1. [Apply the 26077327 Patch](#)
2. [Apply the 26134252 Patch](#)
3. [Enable USER_LOCK Package](#)
4. [Grant Permissions to the DBMS_LOCK Package and Recompile Database Objects](#)
5. [Generate Database Statistics](#)

Apply the 26077327 Patch

Once you install Oracle Revenue Management and Billing Version 2.6.0.0.0, 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. Download the MANDATORY PATCH 1 FOR ORMB VERSION 2.6.0.0.0 patch (Patch Number: 26077327) from [My Oracle Support](#). A zip file is downloaded.
2. Unzip the downloaded file in your local folder. The contents include three files - README.txt, MultiPlatform.zip, and Bug_26077327_Product_Fix_Design.pdf.
3. Unzip the MultiPlatform.zip file in your local folder. The contents include the V2.6.0.0.0-26077327_MultiPlatform folder.
4. Change to the V2.6.0.0.0-26077327_MultiPlatform folder using the following command:

Linux:

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

Windows:

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

Note: The <DESTINATION_FOLDER> 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.

5. 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.

6. Unzip the CDXPatch file using the following command:

AIX, Linux:

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

Windows:

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

The contents of the zip file are extracted in the <DESTINATION_FOLDER_1> folder. The contents include utility files and a folder named 26077327.

7. Execute the ouafDatabasePatch utility using the following command:

Windows:

```
ouafDatabasePatch.cmd
```

Linux:

```
ouafDatabasePatch.sh
```

Apply 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. Download the MANDATORY PATCH 2 FOR ORMB VERSION 2.6.0.0.0 patch (Patch Number: 26134252) from [My Oracle Support](#). A zip file is downloaded.
2. Unzip the downloaded file in your local folder. The contents include three files - README.txt, MultiPlatform.zip, and Bug_26134252_Product_Fix_Design.pdf.
3. Unzip the MultiPlatform.zip file in your local folder. The contents include the V2.6.0.0.0-26134252_MultiPlatform folder.
4. Change to the V2.6.0.0.0-26134252_MultiPlatform folder using the following command:

Linux:

```
cd <DESTINATION_FOLDER_2>/V2.6.0.0.0-26134252_MultiPlatform
```

Windows:

```
cd <DESTINATION_FOLDER_2>\V2.6.0.0.0-26134252_MultiPlatform
```

Note: The <DESTINATION_FOLDER_2> 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.

5. 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.

6. Unzip the CDXPatch file using the following command:

Linux:

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

Windows:

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

The contents of the zip file are extracted in the <DESTINATION_FOLDER_3> folder. The contents include utility files and a folder named 26134252.

7. Execute the ouafDatabasePatch utility using the following command:

Windows:

```
ouafDatabasePatch.cmd
```

Linux:

```
ouafDatabasePatch.sh
```

Enable USER_LOCK Package

To enable inbound web services, you must grant permissions to the USER_LOCK package. This is a one-time activity. To grant permissions to the USER_LOCK package:

1. Login as SYS user.
2. On SQL prompt, execute the following SQL:

```
@?/rdbms/admin/userlock.sql
```
3. Grant permission using the following SQL command:

```
grant execute on USER_LOCK to public;
```

Note: You can also grant permission to a specific database user (for example, CISADM or CISUSER) instead of granting permissions to all database users.

Grant Permissions to the DBMS_LOCK Package and Recompile Database Objects

To grant permissions to the DBMS_LOCK package, execute the following commands:

UNIX:

```
export ORACLE_SID=[DB_NAME]
sqlplus /nolog
conn sys as sysdba
```

Note: On executing the above command, you will be prompted to enter the SYS user password.


```
grant EXECUTE, DEBUG on DBMS_LOCK to <DB_USER/[CISADM]>;
```

Note:

These commands should be executed using Oracle SQL Developer.

If you have created the database using any user other than CISADM, you need to specify the respective user name in the above alter and grant statements.

After executing the above `grant` statement, recompile the invalid objects, if any, in the database. You can recompile all invalid objects at once using the following commands:

```
export ORACLE_SID=[DB_NAME]
sqlplus /nolog
conn sys as sysdba
SQL> @?/rdbms/admin/utlrp.sql;
```

Windows:

```
set ORACLE_SID=[DB_NAME]
sqlplus /nolog
conn sys as sysdba
```

Note: On executing the above command, you will be prompted to enter the SYS user password.

```
grant EXECUTE, DEBUG on DBMS_LOCK to <DB_USER/[CISADM]>;
```

Note:

These commands should be executed using Oracle SQL Developer.

If you have created the database using any user other than CISADM, you need to specify the respective user name in the above alter and grant statements.

After executing the above `grant` statement, recompile the invalid objects, if any, in the database. You can recompile all invalid objects at once using the following commands:

```
export ORACLE_SID=[DB_NAME]
sqlplus /nolog
conn sys as sysdba
SQL> @?/rdbms/admin/utlrp.sql;
```

Generate Database Statistics

During the installation process, new database objects may be added to the target database. Before you use the target database, we recommend you to gather statistics for the database objects. You can gather schema level statistics using the following statement:

```
BEGIN
DBMS_STATS.GATHER_SCHEMA_STATS (OWNNAME=>'CISADM', METHOD_OPT=>'FOR ALL
COLUMNS SIZE AUTO', GRANULARITY=>'ALL', CASCADE=>TRUE, DEGREE=>16);
END;
```

You can also gather the statistics for individual tables using the following statement:

```
BEGIN
DBMS_STATS.GATHER_TABLE_STATS (OWNNAME=>'CISADM',
TABNAME=>'<Table_Name>',          GRANULARITY=>'ALL',          CASCADE=>TRUE,
METHOD_OPT=>'FOR ALL COLUMNS SIZE AUTO', DEGREE=>32);
END;
```

We strongly recommend you to schedule batch jobs to gather the schema level statistics on the daily basis in the non peak hours. Please note that the statistics should not be gathered while the application batches are running because this will degrade the application batch performance.

2.3.3 Populating Language Data

Please note that this database contains data in the ENGLISH language only. If you use any other supported language, you can run the F1-LANG batch program to duplicate the entries for new language records. For more information on running this batch program, refer to the user documentation section “Defining Background Processes.”

Please contact your Oracle representative to receive information on these packages.

2.3.4 Installing Service Packs and Patches

Periodically, Oracle Utilities releases a service pack of single fixes for its products. A service pack is an update to an existing release that includes solutions to known problems and other product enhancements. A service pack is not a replacement for an installation, but a pack consisting of a collection of changes and additions for it. The service pack may include changes to be applied to the application server, the database, or both. The service pack includes all files necessary for installing the collection of changes, including installation instructions. Please note that from FW 410 SP1 onwards a Service pack consists of a complete database install.

Between services packs, Oracle Utilities releases patches to fix individual bugs. For information on installing patches, see knowledge base article ID 974985.1 on [My Oracle Support](#).

Service packs and patches can be downloaded from [My Oracle Support](#).

3. Database Design

This section provides a standard for database objects such as tables, columns, and indexes, for products using Oracle Utilities Application Framework. This standard helps smooth integration and upgrade processes by ensuring clean database design, promoting communications, and reducing errors. Just as Oracle Utilities Application Framework goes through innovation in every release of the software, it is also inevitable that the product will take advantage of various database vendors' new features in each release. The recommendations in the database installation section include only the ones that have been proved by vigorous QA processes, field tests and benchmarks. This section includes:

- Database Object Standard
- Column Data Type and Constraints
- Standard Columns

3.1 Database Object Standard

This section discusses the rules applied to naming database objects and the attributes that are associated with these objects.

3.1.1 Categories of Data

A table can belong to one of the three categories:

- Control (admin)
- Master
- Transaction

For purposes of physical table space design, metadata and control tables can belong to the same category.

Example of tables in each category:

- Control: SC_USER, CI_ADJ_TYPE, F1_BUS_OBJ
- Master: CI_PER, CI_PREM,
- Transaction: F1_FACT, CI_FT

All tables have the category information in their index name. The second letter of the index carries this information. See the [Indexes](#) section for more information.

3.1.2 Naming Standards

The following naming standards must be applied to database objects.

Table

Table names are prefixed with the owner flag value of the product. For customer modification CM must prefix the table name. The length of the table names must be less than or equal to 30 characters. A language table should be named by suffixing _L to the main table. The key table name should be named by suffixing _K to the main table.

It is recommended to start a table name with the 2-3 letter acronym of the subsystem name that the table belongs to. For example, MD stands for metadata subsystem and all metadata table names start with CI_MD.

Some examples are:

- CI_ADJ_TYPE
- CI_ADJ_TYPE_L

A language table stores language sensitive columns such as a description of a code. The primary key of a language table consists of the primary key of the code table plus language code (LANGAGUE_CD).

A key table accompanies a table with a surrogate key column. A key value is stored with the environment id that the key value resides in the key table.

The tables prior to V2.0.0 are prefixed with CI_ or SC_.

Columns

The length of a column name must be less than or equal to 30 characters. For customer modification, CM must be prefixed in the column name. The following conventions apply when you define special types of columns in the database.

- Use the suffix FLG to define a lookup table field. Flag columns must be CHAR(4). Choose lookup field names carefully as these column names are defined in the lookup table (CI_LOOKUP_FIELD) and must be prefixed by the product owner flag value.
- Use the suffix CD to define user-defined codes. User-defined codes are primarily found as the key column of the admin tables.
- Use the suffix ID to define system assigned key columns.
- Use the suffix SW to define Boolean columns. The valid values of the switches are 'Y' or 'N'. The switch columns must be CHAR(1)
- Use the suffix DT to define Date columns.
- Use the suffix DTTM to define Date Time columns.
- Use the suffix TM to define Time columns.

Some examples are:

- ADJ_STATUS_FLG
- CAN_RSN_CD

Indexes

Index names are composed of the following parts:

[OF][*application specific prefix*][C/M/T]NNN[P/S]n

- OF- Owner Flag. The standard is to use the two characters of the product's owner flag. Note that there may be some older indexes that use only the first character of the owner flag. For client specific implementation of index, use CM for Owner Flag. If implementation creates a CM Index on table-columns for which the base product already provides an index, then the CM Index will be overridden by the base index.
- Application specific prefix could be C, F, T or another letter.

- C/M/T - The second character can be either C or M or T. C is used for control tables
- (Admin tables). M is for the master tables. T is reserved for the transaction tables.
- NNN - A three-digit number that uniquely identifies the table on which the index is defined.
- P/S - P indicates that this index is the primary key index. S is used for indexes other than primary keys.
- n is the index number, unique across all indexes on a given table (0 for primary and 1, 2, etc., for the secondary indexes).

Some examples are:

- F1C066P0
- F1C066S1
- CMT206S2

Warning: Do not use index names in the application as the names can change due to unforeseeable reasons.

Updating Storage.xml

The `storage.xml` file that comes with the product allocates all base tables and indexes to the default tablespace `CISTS_01`. If you decide to allocate some tables or indexes outside of the default tablespace, then this has to be reflected in the `storage.xml` file by changing the tablespace name from the default value to a custom value, according to the format shown below:

Format:

```
<Table_Name>
<TABLESPACE>CISTS_01</TABLESPACE>
<PARALLEL>1</PARALLEL>
- <LOB>
- <Column Name>
<TABLESPACE>CISTS_01</TABLESPACE>
<SECUREFILE>Y</SECUREFILE>
<CHUNK>8192</CHUNK>
<CACHE>N</CACHE>
<LOGGING>Y</LOGGING>
<INROW>Y</INROW>
<COMPRESS>N</COMPRESS>
</Column Name>
</LOB>
</Table_Name>
```

Where `Parallel` defines the number of threads, that Oracle DB Server will use to access a table or create an index.

We recommend you to create CLOBs and store them in SECUREFILE with medium compression and cache enabled. Note that, by default, medium compression is turned-off and must be enabled only if you have the Advanced Compression license.

For instance, if a DBA decided to allocate table CI_ACCT in a tablespace MyTablespace, then they would have to change the storage.xml as follows:

```
<CI_ACCT>
<TABLESPACE>MyTablespace</TABLESPACE>
</CI_ACCT>
```

The OraDBI process uses the `storage.xml` file to place the new database objects into defined tablespaces. A tablespace referenced in the `storage.xml` file must exist in the database.

The `storage.xml` file must be updated before each upgrade and/or new installation as required to allocate the tables and indexes across those tablespaces.

Table name is included as a comment for each of the indexes for clarity.

For an initial install, information for each object should be reviewed by a DBA. For each upgrade, only tablespace information for the objects added in the new release needs to be reviewed by a DBA.

Be careful while editing this file. Make sure that the tablespace names being used exist in the database. Do not change the basic format of this file.

Sequence

The base sequence name must be prefixed with the owner flag value of the product. For customer modification CM must prefix the sequence name. The sequence numbers should be named as below:

1. If the sequence is used for a specific table, then use the following sequence name:
[OF] [C/M/T]NNN_SEQ
 - OF stands for Owner Flag. For example, F1 stands for Framework. Other examples are M1, C1, D1, D2, etc.
 - C/M/T stands for Control (Admin)/Master/Transaction Tables.
 - NNN is a three digit unique Identifier for a table on which the sequence is defined.

For Example: F1T220_SEQ

2. If more than one sequence is used for a specific table then use the following sequence Name:
[OF] [C/M/T]NNN_Column_Name_SEQ
 - OF stands for Owner Flag. For example, F1 stands for framework. Other examples are M1, C1, D1, D2, etc.
 - C/M/T stands for Control (Admin)/Master/Transaction tables.
 - NNN is a three digit unique identifier for a table on which the sequence is defined.

For Example: F1T220_BO_STATUS_CD_SEQ and F1T220_BUS_OBJ_CD_SEQ.

3. If sequence is used for a generic requirement and not specific to a table, then use the following sequence name.

[OF]Column_Name_SEQ

- OF stands for Owner Flag. For example, F1 stands for framework. Other examples are M1, C1, D1, D2, etc. For Example: F1FKVALID_SEQ

Trigger

The base trigger name must be prefixed with the owner flag value of the product. When implementers add database objects, such as tables, triggers and sequences, the name of the objects should be prefixed by CM.

3.2 Column Data Type and Constraints

This section discusses the rules applied to column data type and constraints, and the attributes that are associated with these objects.

3.2.1 User Defined Code

User Defined Codes are defined as CHAR type. The length can vary by the business requirements but a minimum of eight characters is recommended. You will find columns defined in less than eight characters but with internationalization in mind, new columns should be defined as CHAR(10) or CHAR(12). Also note that when the code is referenced in the application the descriptions are shown to users in most cases.

3.2.2 System Assigned Identifier

System assigned random numbers are defined as CHAR type. The length of the column varies to meet the business requirements. Number type key columns are used when a sequential key assignment is allowed or number type is required to interface with external software. For example, Notification Upload Staging ID is a Number type because most EDI software uses a sequential key assignment mechanism. For sequential key assignment implementation, the DBMS sequence generator is used in conjunction with Number Type ID columns.

3.2.3 Date/Time/Timestamp

Date, Time and Timestamp columns are defined physically as DATE in Oracle.

3.2.4 Number

Numeric columns are implemented as NUMBER type in Oracle. The precision of the number should always be defined. The scale of the number might be defined. Non-null constraints are implemented for all number columns.

3.2.5 Fixed Length/Variable Length Character Columns

When a character column is a part of the primary key of a table define the column in CHAR type. For the non-key character columns, the length should be the defining factor. If the column length should be greater than 10, use VARCHAR2 type in Oracle.

3.2.6 Null Column Support

The product supports Nullable columns. This means that the application can write NULLs instead of a blank space or zero (for numeric columns) by using `NULLABLE_SW` on `CI_MD_TBL_FLD`. If `REQUIRED_SW` is set to 'N' and the `NULLABLE_SW` is set to 'Y', the application will write a NULL in that column. The artifact generator will create hibernate mapping files with appropriate parameters so that the framework hibernate mapping types will know if a given property supports a null value.

`NULLABLE_SW` is not new, but has previously been used for certain fields such as dates, and some string and number foreign-key columns. Because of this, there is the possibility that there is incorrect metadata for some columns, and that turning on this new feature could result in incorrect behaviour when using that metadata. The upgrade script released with the product fixes the metadata to make sure that the existing tables will not be affected.

This new feature only supports tables maintained by Java. Thus, enhancing any existing tables to use null columns must be done only after making sure that the tables are maintained by Java, and not COBOL.

3.2.7 XML Type Support

The product supports XML Type. XML Type provides following advantages.

1. The ability to use XQuery for querying nodes in the XML document stored within a column defined as XMLType.
2. The option to use the XML engine, which is built into the Oracle Database, to create indexes using nodes within the XML document stored in the XMLType column.

3.2.8 Cache and Key Validation Flags

By default, the Cache Flag is set to NONE. For most of the admin tables the CACHE Flag should be 'Cached for Batch'. This specifies that the table is cached as L2 cache to reduce database trips.

By default the Key Validation Flag is set to ALL. For tables which have the user defined keys, the `KEY_VALIDATION_FLG` should be set as 'ALL'. This checks the existence of the key before inserting a new one.

3.2.9 Table Classification and Table Volume Flags

There are multiple types of tables in the application, namely Admin system tables, Admin non- system tables, master tables and transaction tables. The Table Classification flag (`TBL_CLASSIFICATION_FLG`) sets the appropriate value for this lookup field to give a better view of the table classification.

Table Volume flag (`TBL_VOLUME_FLG`) is a customer modifiable field which is initially populated by product, but can be overridden by implementation. The field gives an idea of the relative data volume (categorized as highVolume, lowVolume and mediumVolume) of the table to make informed decisions.

3.2.10 Default Value Setting

The rules for setting the database default values are as follows:

- When a predefined default value is not available, set the default value of Non-null CHAR or VARCHAR columns to blank except the primary key columns.
- When a predefined default value is not available, set the default value Non-null Number columns to 0 (zero) except the primary key columns.
- No database default values should be assigned to the Non Null Date, Time, and Timestamp columns.

3.2.11 Foreign Key Constraints

Referential integrity is enforced by the application. In the database do not define FK constraints. Indexes are created on most of Foreign Key columns to increase performance.

3.3 Standard Columns

This section discusses the rules applied to standard columns and the attributes that are associated with these objects.

3.3.1 Owner Flag

Owner Flag (OWNER_FLG) columns exist on the system tables that are shared by multiple products. Oracle Utilities Application Framework limits the data modification of the tables that have owner flag to the data owned by the product.

3.3.2 Version

The Version column is used to for optimistic concurrency control in the application code. Add the Version column to all tables that are maintained by a Row Maintenance program.

4. Exadata Database Settings

If you are using the Oracle Exadata Database machine as the database server, ensure that you do the following:

- Use the Write-Back Flash Cache feature to leverage the Exadata Flash hardware
- Use the Exadata Smart Flash Logging feature

Note: By default, 512 MB of the Exadata flash is allocated to Smart Flash Logging. This is sufficient enough to handle the load of 300 million transactions daily in TFM.

- Set the temporary tablespace size to at least 600 GB
- Create `CISTS_01` tablespace to store the `cisadm` objects using the `BIGFILE` and `EXTENT MANAGEMENT LOCAL AUTOALLOCATE` clauses. For example:

```
CREATE BIGFILE TABLESPACE CISTS_01 DATAFILE
'+DATAC1/DBNAME/datafile/cists01.dbf' SIZE 800G AUTOEXTEND ON
EXTENT MANAGEMENT LOCAL AUTOALLOCATE;
```

Note: Exadata servers can have two types of disks – High Capacity and High Performance. The Exadata throughput may vary depending on the disk type.

5. Database Implementation Guidelines

The following section outlines the general implementation guidelines for the database components, including:

- Configuration Guidelines
- Oracle Database Implementation Guidelines

5.1 Configuration Guidelines

This section includes general recommendations for configuring various database objects and includes a brief syntax overview. It covers the general aspects of the database objects and does not cover any specific implementation requirements. This section includes the following topics:

- [Index](#)
- [Temporary and Undo Tablespace](#)
- [Transparent Data Encryption Recommendations](#)
- [Data Compression Recommendations](#)
- [Database Vault Recommendations](#)
- [Oracle Fuzzy Search Support](#)
- [Storage Recommendations](#)
- [Database Configuration Recommendations](#)
- [Database Syntax](#)
- [Database Initialization Parameters](#)
- [Shrink Tables](#)

5.1.1 Index

Index recommendations specify points that need to be considered when creating indexes on a table.

1. Indexes on a table should be created according to the functional requirements of the table and not in order to perform SQL tuning.
2. The foreign keys on a table should be indexes.

Note: If the implementation creates a CM index on table-columns for which the product already provides an index, then the CM index will be overridden by the base index.

5.1.2 Temporary and Undo Tablespace

To begin with, we recommend you to set the temporary tablespace to at least 100GB auto extendable till 200GB and the undo tablespace to at least 100GB auto extendable till 300GB. The upper limit of both the tablespaces will vary as per the volume of the data and preferred chunk size of the batch.

5.1.3 Transparent Data Encryption Recommendations

Oracle Utilities supports Oracle Transparent Data Encryption (TDE). Oracle 12c supports tablespace level encryption. The application supports tablespace level encryption for all application data. Make sure that the hardware resources are sufficiently sized for this as TDE uses additional hardware resources. The Oracle Advanced Security license is a prerequisite for using TDE.

Please consider the following when implementing TDE:

- Create a wallet folder to store the master key. By default, the wallet folder should be created under `$ORACLE_BASE/admin/<sid>`.

- The wallet containing the master key can be created using the following command:

```
alter system set encryption key authenticated by "keypasswd"
```

- The wallet can be closed or opened using the following commands:

```
alter system set wallet open identified by "keypasswd";
```

```
alter system set wallet close;
```

- Column level encryption can be achieved using the following commands:

```
create table <table_name>
(name varchar2(200) default ' ' not null,
bo_data_area CLOB encrypt using 'AES128',
bo_status_cd char(12) encrypt using 'AES128')
lob (bo_data_area) store as securefile (cache compress)
tablespace <tablespace_name>;
```

- AES128 is the default encryption algorithm.
- Tablespace level encryption is also supported using the following command:

```
Create tablespace <tablespace_name> logging datafile '<datafile
location>' size <initial size> reuse autoextend on next <next size>
maxsize unlimited extent management local uniform size <uniform size>
encryption using 'AES128' default storage(encrypt) ;
```

- Indexed columns can only be encrypted using the NO SALT Option. Salt is a way to strengthen the security of encrypted data. It is a random string added to the data before it is encrypted, causing repetition of text in the clear to appear different when encrypted.

5.1.4 Data Compression Recommendations

Oracle Utilities supports Advanced Data Compression, available with Oracle 11gR1 onwards, to reduce the database storage footprint. Make sure that your resources are sufficiently sized for this as it uses additional system resources. Compression can be enabled at the Tablespace level or at the Table level.

5.1.4.1 Exadata Hardware

For Exadata hardware, the compression recommendations are:

- For high volume tables, keep the current table partition uncompressed. All of the older partitions will be compressed based on QUERY HIGH compression.
- For high volume tables with CLOBs ensure to always keep CLOBs in securefile and medium compressed. Also keep the current table partition uncompressed. All of the older partitions will be compressed based on QUERY HIGH compression.
- Load data into the uncompressed table partitions using a conventional load and then, once data is loaded using a CTAS operation, load into a temporary heap table. Then truncate the original partition. Alter the original partition into HCC compressed and then partition exchange this with the temporary heap table.
- All multi column Indexes (primary as well as secondary) will be compressed using the default compression. HCC or OLTP compression is not applicable on the top of compressed Indexes.

5.1.4.2 Non- Exadata Hardware

For non-Exadata hardware the recommendations are the same as above, except that you cannot use HCC compression (it is only available in Exadata database machine). Instead of HCC, you can use any other compression tool available to you for non-Exadata hardware.

5.1.4.3 CLOB Fields

All CLOB fields should be stored as SecureFiles and Medium compressed. This requires a separate license for Advanced Data Compression. As a part of the schema, we create the product- owned tables with compression turned OFF at the LOB level. If you have the license for Advanced Data Compression, you can enable compression by updating the storage.xml.

Oracle 12c onwards:

- Admin and Master Data tables and their indexes will NOT be compressed.
- All Transactional Tables, including ILM enabled MOs shall be compressed.
- Compression will be done at the tablespace level.
- All multicolumn indexes on transactional/ILM tables will be compressed.

Use 'compress advanced low'

5.1.5 Database Vault Recommendations

The product supports Database Vault. All non-application User IDs can be prevented from using DDL or DML statements against the application schema. So SYS and SYSTEM cannot issue DDL or DML statements against CISADM schema. The application-specific administration account can issue DDL statements but should not be able to perform any DML or DCL statements. Application user must be given DML only permissions. Database Vault can be used to control access during patch process and Install/Upgrade process.

5.1.6 Oracle Fuzzy Search Support

The product supports Oracle Fuzzy searches. To use this feature, Oracle Text must be installed. After Oracle Text is installed, an index must be created on the table where the fuzzy search needs to be performed from the application. This is only an Oracle database option and is not supported by other databases. Additionally, not all languages are supported. Refer to the Oracle Database documentation for more information about fuzzy searching.

A typical syntax for implementation of fuzzy searching is as below. For the most updated syntax please refer to Oracle Fuzzy documentation.

```
GRANT CTXAPP TO <Application schema owner e.g. CISADM>;
GRANT EXECUTE ON CTX_DDL TO <Application schema owner e.g. CISADM>;
Create index <Application schema owner e.g. CISADM>.<Index_Name> on
<Application schema owner e.g. CISADM>.<Table_Name> (<column_name>)
indtype is ctxsys.context parameters ('sync (on commit)');
begin
ctx_ddl.sync_index('Application schema owner e.g.
CISADM>.<Index_Name>');
end
/
```

5.1.7 Storage Recommendations

This section specifies recommended options for storing the database objects.

5.1.7.1 SecureFile for Storing LOBs

Beginning with Oracle 11g, tables having fields with data type of CLOB or BLOBS should have the LOB Columns stored as SecureFiles.

- The storage options with SecureFiles for Heap Tables should be ENABLE STORAGE IN ROW, CACHE and COMPRESS.
- For the IOT Table the PCTTHRESHOLD 50 OVERFLOW clause should be specified and the storage options with SecureFiles should be ENABLE STORAGE IN ROW, CACHE and COMPRESS.
- The PCTTHRESHOLD should be specified as a percentage of the block size. This value defines the maximum size of the portion of the row that is stored in the Index block when an overflow segment is used.
- The CHUNK option for storage, which is the data size used when accessing or modifying LOB values, can be set to higher than one database block size if big LOBs are used in the IO Operation.
- For SecureFiles, make sure that the initialization parameter db_securefile is set to ALWAYS.
- The Tablespace where you are creating the SecureFiles should be enabled with Automatic Segment Space Management (ASSM). In Oracle Database 11g, the default mode of Tablespace creation is ASSM so it may already be set for the Tablespace. If it's not, then you have to create the SecureFiles on a new ASSM Tablespace.

Note:

To enable compression on SecureFiles, you must have an Oracle Advanced Compression license in addition to Oracle Database Enterprise Edition. This feature is not available for the standard edition of Oracle Database.

If you are using Oracle Database Enterprise Edition, you must ensure that the COMPRESS flag is set to Y in the `Storage.xml` file. See the [Database Syntax](#) section for more information on SecureFiles.

5.1.8 Database Configuration Recommendations

This section specifies the recommended methods for configuring the database with a focus on specific functional area.

5.1.8.1 Large Redo Log File Sizes

The Redo Log files are written by the Log Writer Background process. These log files are written in a serial manner. Once a log file is full, a log switch occurs and the next log file starts getting populated.

It is recommended that the size of the Redo Log files should be sufficiently high so that you do not see frequent Log Switches in the alert logs of the database. Frequent Log Switches impact the IO performance and can be avoided by having a larger Redo Log File size.

We recommend you to set the redo log file size to at least 4GB or more depending on the volume of transactions. This will help you to ensure that there are not more than 5 to 6 log switches per hour.

5.1.9 Database Syntax

5.1.9.1 SecureFile

```
CREATE TABLE <Table_Name>
(COLUMN1 ..., COLUMN2 (CLOB))
LOB (COLUMN2) STORE AS SECUREFILE (CACHE COMPRESS);
```

```
CREATE TABLE <Table_Name>
(COLUMN1 ..., COLUMN2 (CLOB) CONSTRAINT <> PRIMARY KEY(...))
ORGANIZATION INDEX PCTTHRESHOLD 50 OVERFLOW
LOB (COLUMN2) STORE AS SECUREFILE (ENABLE STORAGE IN ROW CHUNK CACHE
COMPRESS);
```

5.1.10 Database Initialization Parameters

This section recommends value for each parameter in the `init.ora` file. These parameters are a starting point for database tuning. The actual or optimal value for a production environment may differ from one deployment to another.

The following recommendations must be treated as guidelines and not as the actual values:

Parameter	Recommended Value
MEMORY_MAX_TARGET	40-50% of total available RAM on the node
MEMORY_TARGET	Value should be less than or equal to the value set for the MEMORY_MAX_TARGET parameter and at the same time it should be greater than or equal to the sum of SGA_TARGET and PGA_AGGREGATE_TARGET
SGA_TARGET	50-70% of the value defined for the MEMORY_TARGET parameter
SGA_MAX_SIZE	70-80% of the value defined for the MEMORY_MAX_TARGET parameter
DB_CACHE_SIZE	4GB
PGA_AGGREGATE_TARGET	2GB
STATISTICS_LEVEL	TYPICAL or ALL Note: This parameter is mandatory when you want to use automatic memory management.
OPTIMIZER_INDEX_COST_ADJ	100 Note: The value for this parameter should not be changed because it can drastically degrade the batch performance.
OPTIMIZER_INDEX_CACHING	0 Note: The value for this parameter should not be changed because it can drastically degrade the batch performance.
DB_BLOCK_SIZE	8192
LOG_CHECKPOINT_INTERVAL	0
DB_FILE_MULTIBLOCK_READ_COUNT	8
TRANSACTIONS	3000
OPEN_CURSORS	30000
DB_WRITER_PROCESSES	10 Note: The value for this parameter must be within the range of 1 to 20. Ideally, it must be set to 1 or CPU_COUNT/8, whichever is greater.
DB_FILES	1024

Parameter	Recommended Value
DBWR_IO_SLAVES	10 Note: You must set this parameter to a nonzero value only when the system does not support asynchronous IO.
SESSIONS	4500
PROCESSES	3000
DML_LOCKS	48600
_B_TREE_BITMAP_PLANS	FALSE
SESSION_CACHED_CURSORS	500

For example, we recommend you to specify the following values when 100GB of RAM is available on the node:

MEMORY_MAX_TARGET = 50G

MEMORY_TARGET = 40G

SGA_TARGET = 30G

SGA_MAX_SIZE = 40G

DB_CACHE_SIZE = 4G

PGA_AGGREGATE_TARGET = 2G

STATISTICS_LEVEL=TYPICAL

5.1.11 Shrink Tables

A large number of rows are inserted and then deleted from the following three tables:

- CI_TXN_DTL_PRITM_SUMMARY
- CI_TXN_DETAIL_STG
- CI_ROLLBACK_TXN_DETAIL

Therefore, these tables need to be shrunk periodically. This activity should be carried out when no other transactions are active on the database.

1. Extract and keep the DDL scripts for all the existing indexes on the above tables from the data dictionary.
2. Drop all the indexes on the above tables.

3. Shrink the tables by executing following statements using SQL client:

```
ALTER TABLE CI_TXN_DTL_PRITM_SUMMARY ENABLE ROW MOVEMENT;
ALTER TABLE CI_TXN_DTL_PRITM_SUMMARY SHRINK SPACE CASCADE;
ALTER TABLE CI_TXN_DETAIL_STG ENABLE ROW MOVEMENT;
ALTER TABLE CI_TXN_DETAIL_STG SHRINK SPACE CASCADE;
ALTER TABLE CI_ROLLBACK_TXN_DETAIL ENABLE ROW MOVEMENT;
ALTER TABLE CI_ROLLBACK_TXN_DETAIL SHRINK SPACE CASCADE;
```

4. Recreate all the indexes using scripts generated in step 1 above.

You can execute these statements either manually or through a batch process which is configured to run at regular interval.

Note: Shrink operations can be performed only on segments in locally managed tablespaces with Automatic Segment Space Management (ASSM).

Once the above statements are executed, you must gather statistics using the following statements:

```
BEGIN
DBMS_STATS.GATHER_TABLE_STATS (OWNNAME=>'CISADM',
TABNAME=>'CI_TXN_DTL_PRITM_SUMMARY', GRANULARITY=>'ALL', CASCADE=>TRUE,
METHOD_OPT=>'FOR ALL COLUMNS SIZE AUTO', DEGREE=>32);
DBMS_STATS.GATHER_TABLE_STATS (OWNNAME=>'CISADM',
TABNAME=>'CI_TXN_DETAIL_STG', GRANULARITY=>'ALL', CASCADE=>TRUE,
METHOD_OPT=>'FOR ALL COLUMNS SIZE AUTO', DEGREE=>32);
DBMS_STATS.GATHER_TABLE_STATS (OWNNAME=>'CISADM',
TABNAME=>'CI_ROLLBACK_TXN_DETAIL', GRANULARITY=>'ALL', CASCADE=>TRUE,
METHOD_OPT=>'FOR ALL COLUMNS SIZE AUTO', DEGREE=>32);
END;
```

5.1.12 Oracle Database Implementation Guidelines

This section provides specific guidelines for implementing the Oracle database.

5.1.12.1 Oracle Partitioning

If you use a base index as the partitioning key, rename the index to CM**. If you use the primary key index of the table as the partitioning key:

- Make the index non-unique.
- Primary constraints should still exist.

The upgrade on the partitioned table works best if the partitioning key is not unique. This allows the upgrade tool to drop the PK constraints if the primary key columns are modified and recreate the PK constraints without dropping the index.

5.1.12.2 Database Statistics

During an install process, new database objects may be added to the target database. Before starting to use the database, generate the complete statistics for these new objects by using the DBMS_STATS package. You should gather statistics periodically for objects where the statistics become stale over time because of changing data volumes or changes in column values. New statistics should be gathered after a schema object's data or structure is modified in ways that make the previous statistics inaccurate. For example, after loading a significant number of rows into a table, collect new statistics on the number of rows. After updating data in a table, you do not need to collect new statistics on the number of rows, but you might need new statistics on the average row length.

A sample syntax that can be used is as follows:

```
BEGIN
SYS.DBMS_STATS.GATHER_SCHEMA_STATS (OwnName => 'CISADM',Degree =>
16,Cascade => TRUE, Method_opt => 'FOR ALL COLUMNS SIZE AUTO',
Granularity => 'ALL');
END;
/
```

5.1.13 Materialized View

Oracle Database Enterprise Edition supports query rewrite using Materialized View. If you use Oracle Database Enterprise Edition, you can create the following Materialized Views to improve the performance of the Monitor batch jobs

Prerequisite:-

Please make sure the following:

1. Set parameter QUERY_REWRITE_ENABLED=TRUE at database level.
SQL – ALTER SYSTEM SET QUERY_REWRITE_ENABLED=TRUE; OR
ALTER SYSTEM SET QUERY_REWRITE_ENABLED=TRUE SCOPE=BOTH;
2. To create a materialized view in another user's schema: You must have the CREATE ANY MATERIALIZED VIEW system privilege. The owner of the materialized view must have the CREATE TABLE system privilege. The owner must also have access to any master tables of the materialized view that the schema owner does not own (for example, if the master tables are on a remote database) and to any materialized view logs defined on those master tables, either through a SELECT object privilege on each of the tables or through the SELECT ANY TABLE system privilege
3. To create a refresh-on-commit materialized view (ON COMMIT REFRESH clause), in addition to the preceding privileges, you must have the ON COMMIT REFRESH object privilege on any master tables that you do not own or you must have the ON COMMIT REFRESH system privilege. To create the materialized view with query rewrite enabled, in addition to the preceding privileges: If the schema owner does not own the master tables, then the schema owner must have the GLOBAL QUERY REWRITE privilege or the QUERY REWRITE object privilege on each table outside the schema.

Reference:-

Oracle 11g - https://docs.oracle.com/cd/B28359_01/server.111/b28313/qrbasic.htm

Oracle 12c - <https://docs.oracle.com/database/121/DWHSG/qrbasic.htm#DWHSG01813>

Troubleshoot Materialized View –

http://docs.oracle.com/database/121/ARPLS/d_mvview.htm#ARPLS67193

```
CREATE MATERIALIZED VIEW F1_BO_LIFECYCLE_STATUS_MVW
(
BUS_OBJ_CD,
LIFE_CYCLE_BO_CD,
BO_STATUS_CD,
BATCH_CD
)
BUILD IMMEDIATE REFRESH ON COMMIT ENABLE QUERY REWRITE AS SELECT
BO2.BUS_OBJ_CD, BO.LIFE_CYCLE_BO_CD, BOSA.BO_STATUS_CD, LCBOS.BATCH_CD
as
LC_BATCH_CD
FROM
F1_BUS_OBJ BO2,
F1_BUS_OBJ BO,
F1_BUS_OBJ_STATUS LCBOS,
F1_BUS_OBJ_STATUS_ALG BOSA
WHERE
BO2.LIFE_CYCLE_BO_CD = BO.LIFE_CYCLE_BO_CD AND
BO.BUS_OBJ_CD = BOSA.BUS_OBJ_CD AND
BOSA.BO_STATUS_SEVT_FLG = 'F1AT' AND
LCBOS.BUS_OBJ_CD = BO.LIFE_CYCLE_BO_CD AND
LCBOS.BO_STATUS_CD = BOSA.BO_STATUS_CD
/
```

```
create          synonym          SPLUSR.F1_BO_LIFECYCLE_STATUS_MVW          for
SPLADM.F1_BO_LIFECYCLE_STATUS_MVW;
```

```
grant select on F1_BO_LIFECYCLE_STATUS_MVW to FW_DEV;
```

```
grant select on F1_BO_LIFECYCLE_STATUS_MVW to SPL_USER;
```

```
grant select on F1_BO_LIFECYCLE_STATUS_MVW to SPL_READ;
```

Reference:-

Oracle 11g - https://docs.oracle.com/cd/B28359_01/server.111/b28313/qrbasic.htm

Oracle 12c - <https://docs.oracle.com/database/121/DWHSG/qrbasic.htm#DWHSG01813>

Troubleshoot Materialized View –

http://docs.oracle.com/database/121/ARPLS/d_mvview.htm#ARPLS67193

Issues : -

Query Did Not Rewrite For A User Other Than The Owner Of the Materialized View (Doc ID 1594725.1) - A patch is available for bug report 14772096 for some platforms.

Query rewrite not working as expected with SELECT DISTINCT (Doc ID 7661113.8) for Oracle version – 11.2.0.1 and 11.1.0.7 Fixed in version - 12.1.0.1 (Base Release), 11.2.0.2 (Server Patch Set)

Appendix A :New Objects in the Oracle Revenue Management and Billing V2.6.0.0.0 Database

This section lists the objects that are newly added in the Oracle Revenue Management and Billing V2.6.0.0.0 database. These objects are classified under the following two sections:

- Schema Changes
- New System Data

A.1 Schema Changes

This section lists schema related changes made in the Oracle Revenue Management and Billing V2.6.0.0.0 database.

A.1.1 New Tables

The following tables are newly added in the Oracle Revenue Management and Billing V2.6.0.0.0 database:

Table	Description
C1_ACCT_ECR_ELIGIBILITY	Account Earned Credit Rate Eligibility
C1_ACCT_ECR_ELIGIBILITY_K	Account Earned Credit Rate Eligibility Key
CI_ACCT_PER_ROUTING	Account Person Routing
C1_ACCRUAL	Accrual
C1_ACCR_CYC	Accrual Cycle
C1_ACCR_CYC_L	Accrual Cycle Language
C1_ACCR_CYC_SCH	Accrual Cycle Schedule
C1_ACCRUAL_DTLS	Accrual Details
C1_ACCRUAL_K	Accrual Key
C1_ACCRUAL_LOG	Accrual Log
C1_ACCRUAL_LOG_PARM	Accrual Log Message Parameter
C1_ACCR_TYPE	Accrual Type
C1_ACCR_TYPE_ALG	Accrual Type Algorithm
C1_ACCR_TYPE_CHAR	Accrual Type Characteristic
C1_ACCR_TYPE_EXCL	Accrual Type Exclusion

Table	Description
C1_ACCR_TYPE_L	Accrual Type Language
C1_ADDRESS	Address
C1_ADDRESS_CHAR	Address Characteristics
C1_ADDRESS_ENTITY	Address Entity
C1_ADDRESS_LOG	Address Log
C1_ADDRESS_LOG_PARM	Address Log Parameter
C1_ADDRESS_K	Address key
C1_PER_DEAL	Deal Information
C1_DSPT_REQ_DTLS_ADJ	Dispute Request Adjustment Details
C1_DSPT_REQ_TYPE	Dispute Request Type
C1_DSPT_REQ_TYPE_CHAR	Dispute Request Type Characteristics
C1_DSPT_REQ_TYPE_L	Dispute Request Type Language
C1_ACCR_TYPE_DIV	Division Accrual Type Mapping
C1_FT_DISTRIBUTION	Financial Transaction Distribution
C1_FT_DISTRIBUTION_ACCT	Financial Transaction Distribution Account
C1_FT_DISTRIBUTION_CHAR	Financial Transaction Distribution Characteristic
C1_FT_DISTRIBUTION_K	Financial Transaction Distribution Key
C1_FT_DISTRIBUTION_LIST	Financial Transaction Distribution List
C1_FT_DISTRIBUTION_LOG	Financial Transaction Distribution Log
C1_FT_DISTRIBUTION_LOG_PARM	Financial Transaction Distribution Log Parameter
C1_FTDIST_OBJ_EXCLUDED	Financial Transaction Distribution Object Excluded
C1_FTDIST_OBJ_INCLUDED	Financial Transaction Distribution Object Included
C1_FTDIST_RULE	Financial Transaction Distribution Rule
C1_FTDIST_RULE_L	Financial Transaction Distribution Rule Language
C1_FTDIST_RULE_VERSION	Financial Transaction Distribution Rule Version
C1_FTDIST_RULE_VERSION_ALG	Financial Transaction Distribution Rule Version Algorithm
C1_FTDIST_RULE_VERSION_L	Financial Transaction Distribution Rule Version Language

Table	Description
C1_FTDIST_TYPE	Financial Transaction Distribution Type
C1_FTDIST_TYPE_CHAR	Financial Transaction Distribution Type Characteristic
C1_FTDIST_TYPE_L	Financial Transaction Distribution Type Language
C1_FT_EXT	Financial Transaction Extension
C1_ILM_CHILD	ILM Child
C1_ILM_ELIG_PARTITIONS	ILM Eligible Partitions
C1_ILM_PARENT	ILM Parent
C1_INBOUND_MESSAGE	Inbound Message
C1_INBOUND_MESSAGE_CHAR	Inbound Message Characteristic
C1_INBOUND_MESSAGE_K	Inbound Message Key
C1_INBOUND_MESSAGE_LOG	Inbound Message Log
C1_INBOUND_MESSAGE_LOG_PARM	Inbound Message Log Parameter
C1_INBOUND_MESSAGE_TYPE	Inbound Message Type
C1_INBOUND_MESSAGE_TYPE_CHAR	Inbound Message Type Characteristic
C1_INBOUND_MESSAGE_TYPE_L	Inbound Message Type Language
C1_OUTMSG_CHAR	Outbound Message Characteristic
C1_PA_REQ	Payment Agreement Request
C1_PA_REQ_CHAR	Payment Agreement Request Characteristics
C1_PA_REQ_DTLS	Payment Agreement Request Details
C1_PA_REQ_K	Payment Agreement Request Key
C1_PA_REQ_LOG	Payment Agreement Request Log
C1_PA_REQ_LOG_PARM	Payment Agreement Request Log Message Parameter
C1_PA_REQ_SCHED	Payment Agreement Request Schedule
C1_PA_REQ_TYPE	Payment Agreement Request Type
C1_PA_REQ_TYPE_CHAR	Payment Agreement Request Type Char
C1_PA_REQ_TYPE_L	Payment Agreement Request Type Language
C1_SA_TYPE_FTDIST_TY	Service Agreement Financial Transaction Distribution Type
CI_TXN_ARCH_DETAIL	Transaction Archival Detail

Table	Description
CI_TXN_CALC_K	Transaction Calc Detail Key

A.1.2 Added Columns

The following columns are newly added in the Oracle Revenue Management and Billing V2.6.0.0.0 database:

Table	Column	Description	Required (Yes or No)
C1_DSPT_REQ	DSPT_REQ_TYPE_CD	Dispute Request Type	Yes
C1_DSPT_REQ_DTLS	BILL_ID	Bill ID	No
C1_PRODUCT	PROD_BUNDLE_TYPE_FLG	Product Bundle Type	No
CI_ACCT	ACCR_CYC_CD	Accrual Cycle	No
	EXCL_ACCR_SW	Exclude Accrual	No
CI_BILL_ROUTING	ADDRESS_ID	Address ID	Yes
CI_CIS_DIVISION	ACCR_CYC_CD	Accrual Cycle	No
	ACCR_ELIG_SW	Eligible for Accrual	No
CI_FILE_REQUEST_DTL_MSG	STATUS_CD	Status	No
CI_FILE_REQUEST_TYPE	TRANSFORM_ALG_CD	Transform Algorithm	No
	FILE_FOOTER_SW	File Footer	No
	FILE_HEADER_SW	File Header flag	No
	FILE_LOCATION	File Location	No
	FILE_PURGE_SW	File Purge	No
	TRANSFORM_SW	File Transform	No
	FOOTER_XML_TAG	Footer XML Tag	No
	HEADER_XML_TAG	Header XML Tag	No
	ROOT_XML_TAG	Root Xml Tag	No
	TRANSFORM_ALG_CD	Transform Algorithm	No
CI_FILE_REQUEST_TYPE_SERVICE	DEFER_COMPLETION_SW	Defer Completion	No
CI_STM_CNST	ADDRESS_ID	Address ID	No
CI_TRL_BILL_ROUTING	ADDRESS_ID	Address ID	Yes

A.1.3 Dropped Tables

None.

A.1.4 Dropped Columns

The following columns were removed from the Oracle Revenue Management and Billing V2.6.0.0.0 database:

Table	Column	Description
CM_TRG_RM_CUST_ACCT_DETAIL	CUST_ID	Person ID
CM_TRG_RM_CUST_DETAIL	CUST_ID	Person ID

A.1.5 Added Views

None.

A.1.6 Column Format Change

The format of the following columns is changed in the Oracle Revenue Management and Billing V2.6.0.0.0 database:

Table	Column	From	To
C1_DSPT_REQ_LOG_PARM	MESSAGE_PARM	VARCHAR2(30)	VARCHAR2(2000)
C1_REF_WO_REQ_LOG_PARM	MESSAGE_PARM	VARCHAR2(2000)	VARCHAR2(30)
CI_FILE_REQUEST_DETAIL	BO_DATA_AREA	CLOB(4000)	VARCHAR2(32000)
	RESPONSE_OBJECT	CLOB(4000)	VARCHAR2(32000)
CI_FILE_REQUEST_DTL_SERVICE	BO_DATA_AREA	CLOB(4000)	VARCHAR2(32000)
	RESPONSE_OBJECT	CLOB(4000)	VARCHAR2(32000)
CI_FILE_REQUEST_TYPE	EXTERNAL_SYSTEM	VARCHAR2(4)	VARCHAR2(255)
CI_PRC_AC_PER_VW	REL_PATH	VARCHAR2(4000)	VARCHAR2(32767)
CI_PRC_AGRD_VW	REL_PATH	VARCHAR2(4000)	VARCHAR2(32767)
CI_PRC_INH_PL_VW	REL_PATH	VARCHAR2(4000)	VARCHAR2(32767)
CI_PRC_PER_AGRD_VW	REL_PATH	VARCHAR2(4000)	VARCHAR2(32767)
CI_PRC_PER_INH_PL_VW	REL_PATH	VARCHAR2(4000)	VARCHAR2(32767)
CI_PRC_PER_PER_VW	REL_PATH	VARCHAR2(4000)	VARCHAR2(32767)
CI_PRC_PER_PL_VW	REL_PATH	VARCHAR2(4000)	VARCHAR2(32767)
CI_PRC_PER_VW	REL_PATH	VARCHAR2(4000)	VARCHAR2(32767)
CI_PRC_PL_VW	REL_PATH	VARCHAR2(4000)	VARCHAR2(32767)

A.2 New System Data

The system data is used to configure various features in Oracle Revenue Management and Billing. This section lists the system data that is newly added in the Oracle Revenue Management and Billing V2.6.0.0.0 database.

A.2.1 Algorithm Type

The following algorithm types are newly added in the Oracle Revenue Management and Billing V2.6.0.0.0 database:

Algorithm	Description
BI	Billable Charge
C1-ACCR-INFO	Accrual Information
C1-ACCRTYVAL	Accrual Type BO Validation
C1-ACCT-ID	Account Id Derivation algorithm
C1-ACCTIDDER	To derive Account ID and preprocess it in its BO
C1-ACTY-INFO	Accrual Type Information
C1-ADDBOVAL	Address Validation
C1-ADDRFAGCH	Add Account Aging Refresh Characteristics
C1-ADDRS-INF	Address Information
C1-ADILMELIG	ILM Eligibility Algorithm for Adjustments
C1-ADJDT-REV	Adj / Current Amt = Adj, FT-GL reversal for linked Entity
C1-ADRBSFTXT	Adjustment Freeze - Create Adjustment FT Extension with Related Bill Segment Info
C1-ADREVFTXT	Create Revenue Adjustment FT Extension
C1-ADVLENVAL	Validate Adhoc Characteristic Value Length
C1-ADWOFTXGL	Create Refund/Write Off Adjustment FT Extension and GL Split
C1-APPRQTYVL	Validate Approval for Request Type
C1-ATPOLREIN	Policy Reinstatement - Auto Trigger
C1-ATPOLRNEW	Policy New/Renewal - Auto Trigger
C1-ATPOLTERM	Policy Terminate - Auto Trigger
C1-AXREVFTXT	Create Revenue adjustment ft extension with Original Adjustment info
C1-BCILMELIG	ILM Eligibility Algorithm for Billable Charges
C1-BLDCRDARR	Build Credit Distribution Array
C1-BLDDEBARR	Build Debit Distribution Array

Algorithm	Description
C1-BLILMELIG	ILM Eligibility Algorithm for Bills and Bill Segments
C1-BSEGSINFO	Bill Segment Information with Membership
C1-BSFTRVSPL	Bill Segment FT Creation - Revenue Split
C1-CCPYTSADS	Pay Tender Staging Account Distribution - Pay Oldest Bill First
C1-CHKINVRCD	Check if Invoice is Eligible for an Invoice Review
C1-CINMSGPRC	Customer Inbound Message - Processing
C1-CINMSGVAL	Customer Inbound Message - Validation
C1-CONRETVL	Contract Retroactivity Adjustment Request Validation
C1-CORREBILL	Contract Retroactivity Adjustment Request - Cancel / Re-bill Premium Bill Segments
C1-CPPCSTA	Create State Assessment Fee
C1-CRTCUSCNT	Create Customer Contact
C1-DETAPPVR	Request - Determine Approvers
C1-DISPUTSUB	Dispute Request - Validate Dispute Before Submission
C1-DPTSTAUPY	Dispute Request -Stop Auto Pay
C1-DSPAPPRVD	Dispute Request - Enter Status Algorithm for Approved
C1-DSPTAPP	Dispute Request - Create To Do for Approver
C1-DSPTHOLD	This algorithm is used to put dispute request free of overdue process
C1-DSPTPEP	Dispute Request Type - Pre-Processing
C1-DSPTREJT	Dispute Request Reject Algorithm
C1-DSPTRESUB	Dispute Request -Re-Submitting Dispute Request
C1-DSPTRQINF	Dispute Request - Information
C1-DSPTVADN	Dispute Request BO Validation
C1-DUEDTFTCV	Override Due Date for Active and Cancelled Customers
C1-ECRVAL	Retrieve the previous values of ECR
C1-ENTERADJ	This algorithm type is for creating adjustment
C1-EVALCORDR	Evaluate Contract Rider Retroactivity
C1-EVCSTSTAT	Policy - Evaluate Customer Status
C1-FMILMELIG	TFM Transaction ILM Eligibility
C1-FRDA	File Request Decryption Algorithm Type
C1-FRTA	File Request Transformation Algorithm

Algorithm	Description
C1-FTDAPRL	Apply Rule Financial Transaction Distribution
C1-FTDCANCEL	Cancel Financial Transaction Distribution
C1-FTDCOMP	Complete Financial Transaction Distribution
C1-FTDCRTCNL	Evaluate FT Distribution Creation/Cancellation
C1-FTDDIST	Distribute Financial Transaction Distribution Amount
C1-FTDEXP	Expire Financial Transaction Distribution
C1-FTDISTINF	Financial Transaction Distribution Information
C1-FTDISTRL	Financial Transaction Distribution Rule BO Validation
C1-FTDISTRLV	Financial Transaction Distribution Rule Version BO Validation
C1-FTDISTYIN	Financial Transaction Distribution Type Information
C1-FTDOEXVAL	Financial Transaction Distribution Object Characteristic Validation
C1-FTDOVAL	Financial Transaction Distribution Object BO Validation
C1-FTDREFUND	Refund Financial Transaction Distribution
C1-FTDSTDIST	Financial Transaction Distribution Rule Distribute
C1-FTDVALIDT	Financial Transaction Distribution Validate Status Monitor Algorithm
C1-FTDWRTOFF	Write Off Financial Transaction Distribution
C1-GEN-BOMNJ	Generic Business Object Status Monitor Java (With Retry Option)
C1-GETPREVAL	Retrieve the previous balance or amount
C1-INMEMEPRC	Membership Inbound Message - Processing
C1-INMEMEVAL	Membership Inbound Message - Validation
C1-INMSGINF	Inbound Message Information
C1-INVRQNWIN	Auto Trigger Invoice Request on New Install
C1-LNKECRMV	Link ECR Transfer Adjustment to Match event
C1-MATSATYP	Match by Contract Type
C1-MONCRTETD	Termination/Reinstate Request - Create To Do If Waiting Too Long
C1-PA-ACTENT	Payment Agreement Request - Validate Request before activation
C1-PA-APPENT	Payment Agreement Request - Create To Do for Approver
C1-PA-APPEXT	Payment Agreement Request - User Validation during Approval
C1-PA-BILMSG	Payment Agreement Bill Message
C1-PA-CANCRT	Payment Agreement Cancel Criteria
C1-PA-HLDACT	Payment Agreement Hold Activation

Algorithm	Description
C1-PA-INFO	Payment Agreement Request Information
C1-PA-MONTR	Payment Agreement Request - Monitor Algorithm for Kept Promise and Broken Promise Processing
C1-PA-PRE	Payment Agreement - Pre Processing
C1-PA-RESUB	Payment Agreement Request - Re-Submitting Payment Agreement Request
C1-PA-SUBMIT	Payment Agreement - Enter Status Submit
C1-PA-VAL	Payment Agreement - Validation
C1-PAINFO	Price Assignment Information
C1-PARTPEP	Payment Agreement Request Type - Pre-Processing
C1-PARTYINFO	Party Information Algorithm
C1-PAYARSPLT	Payment Segment AR and Revenue Split
C1-PAYINV	Apply Payment on Invoice Completion
C1-PER-ID	Person Id Derivation Algorithm
C1-PERIDDER	To derive PersonId and preprocess it in its BO
C1-PIINFO	Price Item Information
C1-PLAINFOM	Price List Assignment Information
C1-PLCYREIRQ	Policy - Create Reinstatement Request
C1-PLCYTRMRQ	Policy - Create Termination Request
C1-PLINFO	Price List Information
C1-POLCCMBR	Create Customer Contact For Members on Policy
C1-POLPRDCHR	Policy - Create Policy Period Characteristics
C1-PYBLPRPD	Pay Bill Weighted Distribution by Priority and Period
C1-RCCSTAF	State Assessment Fee Member Calculation
C1-RCESTAF	State Assessment Fee Member Eligibility
C1-RELACTHLD	Release Account Hold
C1-REN-DERIV	Reinstatement Upload Request - Derivation
C1-REN-PROC	Process Reinstatement Request Upload
C1-REN-VALID	Reinstatement Update Upload Request - Validation
C1-STIBOVAL	State Assessment BO Validation
C1-STMPFTINF	Stamp FT Information
C1-STMPREVFT	Cancel Financial Transaction - Stamp Revenue FT

Algorithm	Description
C1-TCILMELIG	TFM Transaction Calc Lines ILM Eligibility
C1-TL-AB-EVT	Build Adhoc Bill Events
C1-TL-DP-EVT	Build Dispute Event
C1-TL-HR-EVT	Build Hold Events
C1-TL-RB-EVT	Build Regular Bill Events
C1-TODORETRY	Retry for To Dos
C1-TRNDFLSYS	Transition to Default Next Status (If system Initiated)
C1-UDAR	Transaction Feed Management - Update Disaggregation Request Status
C1-VALECRTRN	Validate Transactions for Account ECR Eligibility
C1-VALEXPCYC	Validate Expiration Cycle
C1-VALFTDIST	Validate Financial Transaction Distribution
C1-VALFTDSTY	Validate Financial Transaction Distribution Type
C1-VALHIEDST	Validate Hierarchy Distribution
C1-VALREQACS	Validate Request User Access
C1_ACCRAPROG	Accrual - Enter Status Algorithm for Approval in Progress
C1_ACCRAPRVD	Accrual - Enter Status Algorithm for Approved
C1_ACCRSUBMT	Accrual - Enter Status Algorithm for Submitted
C1_ACCR_APPR	Accrual - Fetch Approval Profile
C1_ACCR_CAL	Accrual Calculation
C1_ACCR_CRE	Accrual Creation
C1_ACCR_ELG	Accrual Eligibility Criteria
C1_ACCR_INFO	Accrual Information
C1_ACCR_POCA	Accrual Post Calculation
C1_ACCR_PRE	Accrual Pre Processing
C1_ACCR_REV	Accrual Reversal
C1_ACCR_VAL	Accrual Validation
C1_ACCY_INFO	Accrual Cycle Information
C1_ACCY_VAL	Accrual Cycle Validation
C1_ACTY_INFO	Accrual Type Information
C1_ACTY_VAL	Accrual Type Validation
C1_FOPLTRALG	Wrapper Algorithm Type for Online Letter Display

Algorithm	Description
C1_FOPONBL	Algorithm Type is created for Online Bill View
C1_REV_POST	Accrual Reversal Post Processing
C1_REV_PRE	Accrual Reversal Pre Processing
DSPTSTAUTPY	Dispute Request -Stop Auto Pay
MC	Determine Member and Subscriber Count
PC	Determine Premium Member and Subscriber Count
PR	Proration Factor

A.2.2 Algorithm

The following algorithms are newly added in the Oracle Revenue Management and Billing V2.6.0.0.0 database:

Algorithm	Description
C1-ACCR-INFO	Accrual Information Algorithm
C1-ACCRCYMOB	Accrual Cycle Determine BO
C1-ACCRCYVAL	Accrual Cycle BO Validation Algorithm
C1-ACCRTYVAL	Accrual Type BO Validation Algorithm
C1-ACCRULMOB	Accrual Determine BO
C1-ACCRULVAL	Accrual BO Validation Algorithm
C1-ACCT-ID	Account Id Derivation algorithm
C1-ACCTIDDER	To derive Account Id and preprocess it in its BO
C1-ACCY-INFO	Accrual Cycle Information Algorithm
C1-ACRTYMOBO	Accrual Type Determine BO
C1-ACTY-INFO	Accrual Type Information Algorithm
C1-ADDBOVAL	Address Validation
C1-ADDDTBO	Determine GL Accounting Template BO
C1-ADDRFAGCH	Add Account Aging Refresh Characteristics
C1-ADDRS-INF	Address Information
C1-ADHV-NR	Validate Numeric Value 0 - 100
C1-ADILMELIG	ILM Eligibility Algorithm for Adjustments
C1-ADJDT-REV	Adj / Current Amt = Adj, FT-GL reversal for linked Entity

Algorithm	Description
C1-ADRBSFTXT	Adjustment Freeze - Create Adjustment FT Extension with Related Bill Segment Info
C1-ADREVFTXT	Create Revenue Adjustment FT Extension
C1-ADVLENVAL	Validate Adhoc Characteristic Value Length
C1-ADWOFTXGL	Create Refund/Write Off Adjustment FT Extension and GL Split
C1-APPRQTYVL	Validate Approval for Request Type
C1-AT-RQJ	Generic Business Object Status Monitor Java (With Retry Option)
C1-ATPOLREIN	Policy Reinstatement - Auto Trigger
C1-ATPOLRNEW	Policy Renewal - Auto Trigger
C1-ATPOLTERM	Policy Terminate - Auto Trigger
C1-AXREVFTXT	Create Revenue adjustment ft extension with Original Adjustment info
C1-BCILMELIG	ILM Eligibility Algorithm for Billable Charges
C1-BLDCRDARR	Build Credit Distribution Array
C1-BLDDEBARR	Build Debit Distribution Array
C1-BLILMELIG	ILM Eligibility Algorithm for Bills and Bill Segments
C1-BSEGSINFO	Bill Segment Information with Membership
C1-BSFTRVSPL	Bill Segment FT Creation - Revenue Split
C1-CCPOLRE1	Create Reinstatement 1 Customer Contact
C1-CCPYTSADS	Pay Tender Staging Account Distribution - Pay Oldest Bill First
C1-CINMSGPRC	Customer Inbound Message - Processing
C1-CINMSGVAL	Customer Inbound Message - Validation
C1-CONRETVL	Contract Retroactivity Adjustment Request Validation
C1-CORREBILL	Contract Retroactivity Adjustment Request - Cancel / Re-bill Premium Bill Segments
C1-CPPCSTA	Create State Assessment Fee
C1-DELTRMLTR	Create Delinquency Termination Customer Contact
C1-DETAPPVR	Request - Determine Approvers
C1-DISPUTSUB	Dispute Request - Validate Dispute Request Before Submission
C1-DPTSTAUPY	Dispute Request -Stop Auto Pay
C1-DSPAPPRVD	Dispute Request - Enter Status Algorithm for Approved
C1-DSPTAPP	Dispute Request - Create To Do for Approver
C1-DSPTHOLDS	This algorithm is used to put dispute request free of overdue process

Algorithm	Description
C1-DSPTPEP	Dispute Request Type - Pre-Processing
C1-DSPTREJT	Dispute Request Reject Algorithm
C1-DSPTRESUB	Dispute Request -Re-Submitting Dispute Request
C1-DSPTRQINF	Dispute Request - Information
C1-DSPTVADN	Dispute Request BO Validation
C1-DUEDTFTCV	Override Due Date for Active/Cancelled Customers
C1-ENTERADJS	This algorithm is for creating adjustment
C1-EVALCORDR	Evaluate Contract Rider Retroactivity
C1-EVCSTSTAT	Policy - Evaluate Customer Status
C1-FMILMELIG	ILM Eligibility Algorithm for TFM Transactions
C1-FOPBLEX	Documaker Banking Bill Extract Algorithm
C1-FRDA	File Request Decryption Algorithm
C1-FRTA	File Request Transformation Algorithm
C1-FTDAPRL	Apply Rule Financial Transaction Distribution
C1-FTDCANCEL	Cancel Financial Transaction Distribution
C1-FTDCOMP	Complete Financial Transaction Distribution
C1-FTDCRTCNL	Evaluate FT Distribution Creation/Cancellation
C1-FTDDIST	Distribute Financial Transaction Distribution Amount
C1-FTDEXP	Expire Financial Transaction Distribution
C1-FTDISTINF	Financial Transaction Distribution Information
C1-FTDISTRL	Financial Transaction Distribution Rule BO Validation
C1-FTDISTRLV	Financial Transaction Distribution Rule Version BO Validation
C1-FTDISTYIN	Financial Transaction Distribution Type Information
C1-FTDOEXVAL	Financial Transaction Distribution Object Characteristic Validation
C1-FTDOVAL	Financial Transaction Distribution Object BO Validation
C1-FTDREFUND	Refund Financial Transaction Distribution
C1-FTDSTDIST	Financial Transaction Distribution Rule Distribute
C1-FTDVALIDT	Financial Transaction Distribution Validate Status Monitor Algorithm
C1-FTDWRTOFF	Write Off Financial Transaction Distribution
C1-GETPREVAL	Retrieve the previous balance or amount
C1-INMEMEPRC	Membership Inbound Message - Processing

Algorithm	Description
C1-INMEMEVAL	Membership Inbound Message - Validation
C1-INMSGINF	Inbound Message Information
C1-INVRQNWIN	Auto Trigger Invoice Request on New Install
C1-INVRWSG	Invoice Review - Small Group
C1-LNKECRMV	Link ECR Offset to Match event
C1-MATBIND	Apply to Binder Contract
C1-MATONACCT	Apply to On Account
C1-MATSUSP	Apply to General Suspense
C1-MBRTRMCC	Create Customer Contacts for Member Termination Letters
C1-OVRDT-ALG	Date format (YYYY-MM-DD or MM-DD-YYYY) validation for ad hoc Characteristic value
C1-PA-ACTENT	Payment Agreement Request - Validate Request before activation
C1-PA-APPENT	Payment Agreement Request - Create To Do for Approver
C1-PA-APPEXT	Payment Agreement Request - User Validation during Approval
C1-PA-BILMSG	Payment Agreement Bill Message
C1-PA-CANCRT	Payment Agreement Cancel Criteria
C1-PA-HLDACT	Payment Agreement Hold Activation
C1-PA-INFO	Payment Agreement Request Information
C1-PA-MONTR	Payment Agreement Request - Monitor Algorithm for Kept Promise and Broken Promise Processing
C1-PA-PRE	Payment Agreement - Pre Processing
C1-PA-RESUB	Payment Agreement Request - Re-Submitting Payment Agreement Request
C1-PA-SUBMIT	Payment Agreement - Enter Status Submit
C1-PA-VAL	Payment Agreement - Validation
C1-PAINFO	Price Assignment Information
C1-PARTPEP	Payment Agreement Request Type - Pre-Processing
C1-PARTYINFO	Party Information Algorithm
C1-PAYARSPLT	Payment Segment AR Split
C1-PER-ID	Person Id Derivation Algorithm
C1-PERIDDER	To derive Person ID and preprocess it in its BO
C1-PIINFO	Price Item Information

Algorithm	Description
C1-PLAINFOM	Price List Assignment Information
C1-PLCYREIRQ	Policy - Create Reinstatement Request
C1-PLCYTRMRQ	Policy Create Terminate Request
C1-PLINFO	Price List Information
C1-POLPRDCHR	Policy - Create Policy Period Characteristics
C1-PREICRTTD	Reinstatement Request - Create To Do If Waiting Too Long
C1-PTRMCRRTD	Termination Request - Create To Do If Waiting Too Long
C1-PYBLPRPD	Pay Bill Weighted Distribution by Priority and Period
C1-PYIVBNON	Apply Binder / On Account Payments to Invoice
C1-RCCSTAF	State Assessment Fee Member Calculation
C1-RCESTAF	State Assessment Fee Member Eligibility
C1-RELACTHLD	Release Account Hold
C1-REN-DERIV	Reinstatement Upload Request - Derivation
C1-REN-PROC	Reinstatement Request Upload - Processing
C1-REN-VALID	Reinstatement Update Upload Request - Validation
C1-STIBOVAL	State Assessment BO Validation
C1-STMPFTINF	Stamp FT Information
C1-STMPREVFT	CANCEL FT - STAMP REVENUE FT
C1-TCILMELIG	ILM Eligibility Algorithm for TFM Transaction Calc Lines
C1-TDCRINMSG	To Do Entry Creation - Inbound Message
C1-TL-AB-EVT	Build Adhoc Bill Events (Open-Item Oriented)
C1-TL-DP-EVT	Build Dispute Events
C1-TL-HR-EVT	Build Hold Events
C1-TL-RB-EVT	Build Regular Bill Events (Open-Item Oriented)
C1-TODORETRY	Retry for To Dos
C1-TRNDFLSYS	Transition to Default Next Status (If system Initiated)
C1-UDAR	Transaction Feed Management - Update Disaggregation Request Status
C1-VALECRTRN	Validate Transactions for Account ECR Eligibility
C1-VALEXPCCYC	Validate Expiration Cycle
C1-VALFTDIST	Validate Financial Transaction Distribution
C1-VALFTDSTY	Validate Financial Transaction Distribution Type

Algorithm	Description
C1-VALHIEDST	Validate Hierarchy Distribution
C1-VALREQACS	Validate Request User Access
C1_ACCRAPROG	Accrual - Enter Status Algorithm for Approval In Progress
C1_ACCRAPRVD	Accrual - Enter Status Algorithm for Approved
C1_ACCRSUBMT	Accrual - Sumit Enter Status Algorithm
C1_ACCR_APPR	Accrual- algorithm to Fetch Approval Profile
C1_ACCR_CAL	Accrual Calculation Algorithm
C1_ACCR_CRE	Accrual Creation Algorithm
C1_ACCR_ELG	Accrual Eligibility Algorithm
C1_ACCR_POCA	Accrual Post Calculation Algorithm
C1_ACCR_POST	Accrual Post Processing
C1_ACCR_REV	Accrual Reversal Algorithm
C1_FOPONBL	This Algorithm is created for online bill view
DSPTSTAUTPY	Dispute Request -Stop Auto Pay

A.2.3 Business Service

The following business services are newly added in the Oracle Revenue Management and Billing V2.6.0.0.0 database:

Business Service	Description
C1-AccountBillInformation	Customer 360 Banking - Billing Information
C1-AccrualActionBS	Perform action on accrual
C1-AccrualReqButton	Retrieve Buttons based on the Accrual
C1-AcctAddress	Account Address
C1-AcctAdjustmentSummary	Get Account Adjustment Summary
C1-AcctFinAndCollSummary	Get Account Adjustment Summary
C1-AcctFinancialInformation	Customer 360 - Financial Information
C1-AcctInformation	Get Account Information
C1-AddAccrUserLog	Accrual - Add User Log
C1-AddAddrUserLog	Address - Add User Log
C1-AddFtDistLog	FT Distribution - Add User Log
C1-AddPaRequestUserLog	Payment Agreement Request - Add User Log

Business Service	Description
C1-AddUserDisputeLog	Dispute Request - Add User Log
C1-AddUserInboundMessageLog	Inbound Message - Add User Log
C1-AddressFieldDisp	Multiple Addresses - Retrieve Country Address Field
C1-BILLWRAPSVC	Bill Wrapper Business Service
C1-BKCUSDEAL	Customer Deal
C1-BKCustAddress	Customer Address
C1-BillDSPTAddAction	Add Bill for Dispute
C1-BillLineItemAddActionDisput	Add Bill Line Items for Dispute
C1-CHARTYPQ1	Get Characteristic Type given Entity
C1-CHARTYPQ2	Get Characteristic Type given Entity
C1-CONTYPDESCR	Get contact type description
C1-CurrencyDescription	Currency Description
C1-CustAddress	Customer Address
C1-DSPTADJCNTBS	Retrieve Adjustment Count for dispute Request
C1-DSPTReqButton	Retrieve Buttons based on the Dispute Request Status
C1-DealPricing	Pricing operations using Deal Management
C1-DropCreatePart	C1-DropCreatePart
C1-FetchAccrualCycle	Fetch Accrual Cycle Description
C1-FetchDsptReqStatus	Fetch Dispute Request BO Status
C1-FetchMainAdrs	List Of Address
C1-FetchThirdPrtyPayorAcct	Fetch Payor Account ID for Third Party Payor
C1-GETDSPTCOMMENTS	Fetch Comments for Dispute Reject reason
C1-GETDSPTCOMNTS	Fetch Comments for Dispute Reject reason
C1-GETPACOMNTS	Fetch Comments for PA Reject reason
C1-GET_ADDRESS_ID	Address ID Search
C1-GetAdjTypDscForAutoMntWoRf	Retrieve Adjustment Type Descriptions
C1-GetArcTxn	Get Archived Transaction
C1-GetAutoPaySwitch	Get Auto Pay Switch for Pay Method
C1-GetBOStatuses	Fetch All BO status except SUBMITTED
C1-GetBoStatusDescription	Get BO states

Business Service	Description
C1-GetDetailedAddress	Detailed Address of Country
C1-GetPartyId	Get Party Details
C1-GetThrdPtyCdDesc	Get Active Third Party Payor Descriptions
C1-HCCustAddress	Customer Address
C1-PAGetUnpaidAmt	Calculate total unpaid Amount
C1-PARQSTAT	Fetch Payment Agreement status
C1-PAREqAddAction	Add Bill request details for PA Request
C1-PAREqDeleteAction	Delete request details for PA Request
C1-PAREqDisplayButton	Retrieve Buttons based on the PA Request Status
C1-PERSEGDESCR	Get person segment
C1-PROSSWITCH	Get Prospect Switch
C1-Prospect	Prospect creation using Deal Management
C1-ReadCharTypeByBO	Characteristic Types by BO
C1-ReadCharacteristicType	Read Characteristic Type
C1-RetrieveDisputeReqTypes	Retrieve Dispute Request Types
C1-RetrieveFTDistribRuleVer	Retrieve FT Distribution Rule Version
C1-RetrieveInMsTypes	Inbound Message Active Inbound Msg Type
C1-RetrievePayAgrReqTypes	Fetch Active Pay Agreement Request Types
C1-StateDescription	State description
C1_AcctEligibility	Account Earned Credit Rate Eligibility
C1_GET_ADDRESS_ID_CHAR	Address ID Search from address_char
c1-CalcScheduleUnpaidAmount	Calculate Unpaid Amount and Schedule Amount for PA Request

A.2.4 Application Service

The following application services are newly added in the Oracle Revenue Management and Billing V2.6.0.0.0 database:

Application Service	Description
ACRLSRCH	Accrual
C1-ACCTECR	Earnings Credit Rate Eligibility
C1-CUSTINMSG	Customer Inbound Message
C1-DEALPRICING	deal management pricing
C1-FTDIST	Financial Transaction Distribution BO
C1-FTDISTRULE	Financial Transaction Distribution Rule BO
C1-FTDISTTY	Financial Transaction Distribution Type BO
C1-GENRQ	Request Monitor
C1-INMSG	Inbound Message
C1-INMSGTYPE	Inbound Message Type
C1-MEMBERINMSG	Membership Inbound Message
C1-PROSPECTCRET	prospect creation
C1ACCECR	Earnings Credit Rate Eligibility Portal
C1ACRLCL	Accrual Cycle
C1ACRLTP	Accrual Type
C1ACRMVW	Accrual
C1ADDRDP	Address Information
C1ADDRDTL	Address Detail
C1ADDRESS	Address
C1ADDRS	Address
C1ADDRSBO	Address BO
C1ADDRSDP	GL Accounting Template
C1ADDRSRC	Address Search
C1BK360	Customer 360-Degree View
C1BKAPPSER	Customer 360 for Banking
C1BKBLDT	Bill Information
C1BKSINF	Customer 360-Degree Information

Application Service	Description
C1CUS360	Customer 360-Degree View
C1DSPT	Dispute Request
C1DSPTRQ	Dispute Request
C1DSPTRT	Dispute Request Type
C1DSPTTY	Dispute Request Type
C1FTDIST	Financial Transaction Distribution Query Portal
C1FTDSRL	Financial Transaction Distribution Rule Portal
C1FTDSTT	Financial Transaction Distribution Portal
C1FTDSTY	Financial Transaction Distribution Type Portal
C1HCAPPSE	Customer 360 for Healthcare
C1HCBLDT	Bill Information
C1HCSINF	Customer 360-Degree Information
C1INMSGP	Inbound Message
C1INMSRH	Inbound Message
C1INMSTY	Inbound Message Type
C1PAREQ	Payment Agreement Request
C1PARQMN	Payment Agreement Request
C1PARQTY	Payment Agreement Request Type
C1PI	Price Item
C1PL	Price List
C1REINUPLREQ	Reinstatement Upload Request
C1_ACCRTYPE	Accrual Type
C1_ACCRUAL_SERV	Accrual application service
C1_ACTVW	Accrual Type
C1_ACTYP	Accrual
C1_ACYVW	Accrual Cycle
C1_ADVSRCHPL	Advanced Search for Price List
C1_DSPT_REQ	Dispute Request
C1_TRLIN	Trial Bill
C1_ILMARC	ILM Archival

A.2.5 Batch Control

The following batch controls are newly added in the Oracle Revenue Management and Billing V2.6.0.0.0 database:

Batch Control	Description
APYSDSFR	Distribute-Freeze Autopay(Settlement Only)
C1-ADCRL	ILM Crawler - Adjustments
C1-APPAB	Generate autopay for Payment Agreement
C1-BCCRL	ILM Crawler - Billable Charges
C1-BLCRL	ILM Crawler - Bill and Bill Segments
C1-CUSIN	Customer Inbound Message Periodic Monitor
C1-DRSUA	Update Disaggregation Request Status From Algorithm
C1-FMCRL	ILM Crawler - Transaction Feed Management
C1-FTDPR	Financial Transaction Distribution Monitor
C1-FTDRD	Financial Transaction Distribution Monitor (Deferred)
C1-FTDTS	FT Distribution Single Threaded Transition Batch
C1-FTRAN	File Transformation Batch
C1-GENRQ	Generic Request Periodic Monitor
C1-MEMIN	Membership Inbound Message Periodic Monitor
C1-PAREQ	Payment Agreement Request Periodic Monitor
C1-PUPSG	Lockbox Payment Upload - Small Group
C1-TCCRL	ILM Crawler - TFM Daily Rating Transaction Calculations
C1_ACCAL	Accrual Calculation Batch
C1_ACCRE	Accrual Creation Batch
C1_ACELG	To Do for Account without a Accrual Cycle
C1_ACREV	Accrual Reversal Batch
C1_FTDTM	Multi Threaded Status Transaction Batch
C1_FTDTTS	Single Threaded Status Transaction Batch

A.2.6 Foreign Key Reference

The following foreign key references are newly added in the Oracle Revenue Management and Billing V2.6.0.0.0 database:

Foreign Key Reference	Description
ACCOUNT	Account
C1-ACRCY	Accrual Cycle Info
C1-ACRL	Accrual FK
C1-ACTYP	Accrual Type Info
C1-ADDRS	Address
C1-BCHG	Policy Plan
C1-DISRQ	Dispute Request Type
C1-DSPT	FKRef for Dispute Request
C1-DSPTR	Dipute Request Type
C1-FTDIS	Financial Transaction Distribution
C1-FTDOB	Financial Distribution Object Extendable Lookup
C1-FTDRL	Financial Transaction Distribution Rule
C1-FTDTY	Financial Transaction Distribution Type
C1-FTODT	Financial Transaction Offset Distribution Type
C1-INMSG	Inbound Message
C1-INMTY	Inbound Message Type
C1-OVRDU	Overdue Process FK
C1-PAFRE	Offset Request
C1-PAIS	Price Assignment Info String
C1-PAREQ	Payment Agreement Request
C1-PARQT	Payment Agreement Request Type
C1-PARTY	Party Information
C1-PIIS	Price Item Info String
C1-PLAIS	Price List Assignment Info String
C1-PLIS	Price List Info String
C1-PYMET	Pay Method
C1-THDPP	Third Party Payor Desc

Foreign Key Reference	Description
C1APRTXN	Approval Transaction
C1RC-BO	BO Option - Required Characteristic Type
C1_ACRTY	Accrual Type
C1_TBSEG	Trial Bill Segment Information

A.2.7 Maintenance Object

The following maintenance objects are newly added in the Oracle Revenue Management and Billing V2.6.0.0.0 database:

Maintenance Object	Description
C1-ACCRTYPE	Accrual Type
C1-ADDRESS	Address MO
C1-DSPTRREQ	Dispute Request
C1-DSPTRQTY	Dispute Request Type
C1-INMSG	Inbound Message
C1-INMSG-TY	Inbound Message Type
C1-PAREQ	Payment Agreement Request
C1-PARQTY	Payment Agreement Request Type
C1_ACCRUALS	Accrual MO
C1_ACCR_CYC	Accrual Cycle
C1_ACCT_ECR	Account Earned Credit Rate Eligibility
C1_FTDIST	Financial Transaction Distribution
C1_FTDIST_RL	Financial Transaction Distribution Rule
C1_FTDIST_RV	Financial Transaction Distribution Rule Version
C1_FTDIST_TY	Financial Transaction Distribution Type

A.2.8 Business Object

The following business objects are newly added in the Oracle Revenue Management and Billing V2.6.0.0.0 database:

Business Object	Description
C1-ACCOUNTEligibilityECR	Earnings Credit Rate Eligibility
C1-ACCRTYPE	Accrual Type BO
C1-Address	Address Entity BO
C1-ApprWithDefOptRequestType	Approval with Deferred Option Request Type
C1-BKAccountInformation	Customer 360: Account Information
C1-BKCustomerInformation	Customer 360: Person Information
C1-Bill	Bill - Main Information
C1-BillGroupOutboundMessage	Bill Group Outbound Message
C1-ContractRetroactiveRequest	Contract Retroactivity Adjustment Request
C1-CustomerInboundMessage	Customer Inbound Message
C1-CustomerInboundMessageType	Customer Inbound Message Type
C1-DisputeReqType	Dispute Request Type
C1-DisputeRequest	Dispute Request
C1-EXPCYCLE	Expiration Cycle
C1-FTDIST	Financial Transaction Distribution
C1-FTDIST-TYPE	Financial Transaction Distribution Type
C1-FTDISTOBJECT	Financial Transaction Distribution Object
C1-FTDISTRULE	Financial Transaction Distribution Rule
C1-FTDISTRULEVER	Financial Transaction Distribution Rule Version
C1-HCAccount	Health Care Account
C1-HCAccountInformation	Account Information
C1-HCCustomer	Health Care Customer
C1-HCCustomerInformation	Customer 360: Person Information
C1-HIERARCHY	Distribution Hierarchy
C1-InboundMessage	Inbound Message

Business Object	Description
C1-MemberInboundMessage	Membership Inbound Message
C1-MemberInboundMessageType	Membership Inbound Message Type
C1-PARequestType	Payment Agreement Request Type
C1-PaymentAgreementRequest	Payment Agreement Request
C1-PolicyBOStatusReason	Policy Status Reason BO
C1-PolicyInformation	Policy Information
C1-PolicyReinstateRequest	Policy Reinstate Request
C1-PolicyTerminateRequest	Policy Terminate Request
C1-ReinstatementUploadRequest	Reinstatement Upload Request
C1-StateAssessmentLookup	State Assessment Lookup
C1_ACCRUALS	Accrual
C1_ACCR_CYC	Accrual Cycle BO

A.2.9 Script

The following scripts are newly added in the Oracle Revenue Management and Billing V2.6.0.0.0 database:

Script	Description
C1-AccGoBack	Accrual Search
C1-AccSrch	Search Account Zone - Check SQL Condition
C1-AccrCyInf	Generate Accrual Cycle Information String
C1-AccrInf	Generate Accrual Information String
C1-AccrTyInf	Generate Accrual Type Information String
C1-AcrTpMain	Accrual Type - Maintain
C1-ActEcrClr	Account ECR Clear Script
C1-ActEcrMan	Account ECR Add/Edit Maintenance Script
C1-ActNavSc	Customer 360 View - Set context and navigate to portal
C1-AddBOProc	Business Object Processing
C1-AddBSAdjD	Add Bill Line Items For Dispute
C1-AddDspLog	Dispute Request - Add User Log Entry

Script	Description
C1-AddEntrBo	Select BO from dropdown
C1-AddInMLog	Inbound Message - Add User Log Entry
C1-AddMain	Address - Maintain
C1-AddSrcVal	Zone user filter Validation - address search
C1-AddrInf	Generate Address Information String
C1-ApprRqTyV	Validate Approval for Request Type
C1-AtmWrflnf	Auto Maintenance/ WO-Refund/ Offset Activity Info
C1-BKAccSrch	Search Account Zone - Check SQL Condition
C1-BKCusSrch	Search Account Zone - Check SQL Condition
C1-BKVA360CU	Zone User Filters - Validation -360 degree View- Customer Zone
C1-BKVA360FL	Zone User Filters - Validation -360 Degree- account Zone
C1-BOProc	Business Object Processing
C1-BilAgeAmt	Determine Amount for Bill Age
C1-CalDueday	Calculate Days Past Due
C1-CalcDays	Calculate Days
C1-ConRetVal	Contract Retroactivity Adjustment Request BO Validation
C1-CustSrch	Search customer Zone
C1-DSPTAddBl	Add Bills For Dispute
C1-DSPTMain	Dispute Request - Maintain
C1-DisputTYM	Dispute Request Type - Maintain
C1-DspAdjDis	Zone visibility based on dispute request status and Bill ID
C1-DsptDtIs	Dispute Edit Actions
C1-DsptRqARC	Dispute Request - Maintain from Account Receivable Central
C1-DsptRqInf	Generate Dispute Request Information String
C1-DsptRqTyL	Dispute Request - Fetch Active Dispute Request Types
C1-DsptRqTyV	Dispute Request - Validate Dispute Request Type
C1-DsptSqlCo	Dispute Request Adjustment Details Show zone - Check SQL Condition
C1-EnterBO	Select BO from dropdown
C1-FTDRVShow	Zone Visibility - FT Distribution Rule Version Display
C1-FTDstMain	Financial Transaction Distribution Maintenance Script

Script	Description
C1-FTDsrVM	Financial Transaction Distribution Rule Version Maintenance
C1-FTDsrM	Financial Transaction Distribution Rule Maintenance
C1-FTDsrType	Financial Transaction Distribution Type Add/Edit Maintenance Script
C1-FtDistLog	Financial Transaction Distribution - Add User Log Entry
C1-GetArcTxn	Zone Visibility - Display Zone in Portal
C1-GetBoList	Get BOs With Input MO and BO Option
C1-HC360CU-1	Zone User Filters - Validation -360 degree View- Customer Zone
C1-HCVA360C	Zone User Filters - Validation -360 degree View- Customer Zone
C1-HCVA360F	Zone User Filters - Validation -360 Degree- account Zone
C1-HCVA360PO	Zone User Filters - Validation -360 degree View- Policy Zone
C1-ILMArc	ILM Archive Service Script
C1-InMSr1Val	Validate Inbound Message Search Zone 1 Filters
C1-InMSr2Val	Validate Inbound Message Search Zone 2 Filters
C1-InMstMain	Inbound Message Type - Maintain
C1-InMstTyLst	Inbound Message Type - Build Active Inbound Message Type List
C1-InMstTyV	Inbound Message - Validate Inbound Message Type
C1-InMsgMain	Inbound Message - Maintain
C1-InvFltSQL	Invoice Portal SQL Condition
C1-PABILLVAL	Delinquency Central Bill Filter Validation
C1-PARQSTAT	Fetch Payment Agreement status
C1-PARQVAL	Payment Agreement Filter Validation
C1-PARTY	Party Navigation
C1-PAReqType	Payment Agreement Request Type - Maintain
C1-PARqMain	Payment Agreement Request - Maintain
C1-PARqTyLi	Payment Agreement Request - Fetch Active Payment Agreement Request Types
C1-PARqTyV	Payment Agreement - Validate Payment Agreement Request Type
C1-PAUnpaid	C1-PAUnpaid
C1-PLACNav	Price List Assignment Person Navigation
C1-PLANav	Price List Assignment Navigation

Script	Description
C1-PaAddBill	Add Bills For Payment Agreement
C1-PaDelBill	Delete Bills For Payment Agreement
C1-PaReqInf	Generate Payment Agreement Request Information String
C1-PaReqLo	Offset Request - Add User Log Entry
C1-PaReqLog	Payment Request - Add User Log Entry
C1-PayInfo	Payment Activity Info
C1-PndBilAdj	Retrieve Details for Pending Bill Adjustments
C1-PolChDisp	Retrieve Policy Characteristic details for display
C1-PolSrch	Search Policy Zone - Check SQL Condition
C1-PriceItem	Price Item Maintenance Script
C1-PriceList	Price List Maintenance
C1-RateComp	Rate Component Maintenance
C1-SelDsptrq	Dispute Request - Select Dispute Request Type
C1-SelInMsTy	Inbound Message Type - Select Inbound Message Type
C1-ShwArcTxn	Zone Visibility - Display Zone in Portal
C1-ShwBillZn	Zone Visibility - Display Zone in Bill Portal
C1-ShwErZone	Zone Visibility - Display Zone in Portal
C1-ShwZone	Zone Visibility - Display Zone in Portal
C1-StateAss	State Assessment Post Processing
C1-StiBoVal	State Assessment BO Validation
C1-VALARCFLR	Zone User Filters - Validation for ARC
C1-ValExpCyc	Validate Expiration Cycle
C1-ValHieDst	Validate Hierarchy Distribution
C1-ValPerId	Product / Status / Membership Date - Validate filter
C1-ValPerNam	Person Name Search - Validate filter
C1-filterVal	Check Filter Value: True or False
C1AccrReqLog	Accrual - Add User Log Entry
C1AddrReqLog	Address - Add User Log Entry
C1PAMainProc	Payment Agreement Request - BO Maintenance Processing
C1SelPARqTy	Payment Agreement Request - Payment Agreement Request Type

Script	Description
C1_ACCRMAN	Accrual Cycle Maintain
C1_ACRMANUL	Accrual Manual
C1_Trialbl	Trial Bill View
C1_VIEW_EFFA	Effective Pricing Account - View/Edit Button with Label
C1_VIEW_EFFP	Effective Pricing View/Edit Button with Label
c1-adrsShow	Zone Visibility - Display Zone in Portal
c1-adrsShowC	Zone Visibility - Display Zone in Portal
c1RefWOReq	Go To Refund/Write Off Request

A.2.10 To Do Type

The following To Do types are newly added in the Oracle Revenue Management and Billing V2.6.0.0.0 database:

To Do Type	Description
C1-ACCTY	Accrual Type Batch Approval Notification
C1-ADDRS	Entities without address
C1-DSPBL	Manual Auto Payment Creation
C1-DSPSB	Dispute Request Submit
C1-FTDPR	FT Distribution Monitor To Do
C1-FTDRD	FT Distribution Monitor To Do
C1-GNREQ	Generic Request Approval
C1-IMERR	Inbound Message - Error
C1-PAREQ	Payment Agreement Request Approval Notification
C1-RPUR	Reinstate Upload Request Approval
C1-TERMR	Termination Request Waiting for Too Long
C1_ACCR	Accrual To Do Type
C1_DISAP	Dispute Request Approval
TD-ACELG	Accounts without accrual cycle

A.2.11 Portal

The following portals are newly added in the Oracle Revenue Management and Billing V2.6.0.0.0 database:

Portal	Description
ACLSRCH	Accrual
C1360PLCY	Policy
C1ACCECR	Earnings Credit Rate Eligibility
C1ACRLCL	Accrual Cycle
C1ACRLTP	Accrual Type
C1ACRMVLTB	Accrual Log
C1ACRMVW	Accrual
C1ACRULCYL	Accrual Cycle
C1ACRULTP	Accrual Type
C1ADDLOGTM	Address Log
C1ADDRDP	Address Information
C1ADDRS	Address
C1BK360	Customer 360-Degree View
C1BK360ACT	Account
C1BKBLDT	Bill Information
C1BKSINF	Customer 360-Degree Information
C1CUS360	Customer 360-Degree View
C1DEALINFO	Deal Information
C1DSPBILTM	Dispute Request - Bills Tab
C1DSPRQLOG	Dispute Request Log
C1DSPT	Dispute Request
C1DSPTRQ	Dispute Request
C1DSPTY	Dispute Request Type
C1FTDIST	Financial Transaction Distribution
C1FTDSRL	Financial Transaction Distribution Rule
C1FTDSTL	Financial Transaction Distribution Log Tab
C1FTDSTT	Financial Transaction Distribution

Portal	Description
C1FTDSTY	Financial Transaction Distribution Type
C1HC360ACT	Account
C1HC360POL	Policy 360 Information
C1HCBLDT	Bill Information
C1HCSINF	Customer 360-Degree Information
C1INMLOG	Inbound Message Log
C1INMSGP	Inbound Message
C1INMSGR	Inbound Message - Message
C1INMSRH	Inbound Message
C1INMSTY	Inbound Message Type
C1PAREQ	Payment Agreement Request
C1PARQBILL	Payment Agreement Request - Bills Tab
C1PARQLOG	Payment Agreement Request Log
C1PARQMN	Payment Agreement Request
C1PARQTY	Payment Agreement Request Type
C1PI	Price Item
C1PL	Price List
C1_ACTVW	Accrual Type
C1_ACTYP	Accrual
C1_ACYVW	Accrual Cycle
C1_TRLIN	Trial Bill
C1_ILMARC	ILM Archival

A.2.12 Portal Zone

The following portal zones are newly added in the Oracle Revenue Management and Billing V2.6.0.0.0 database:

Portal	Description
ACRLSRCH	Accrual
C1ACCECR	Earnings Credit Rate Eligibility
C1ACRLCL	Accrual Cycle

Portal	Description
C1ACRLTP	Accrual Type
C1ACRMVLTB	Accrual Log
C1ACRMVW	Accrual
C1ACRULTP	Accrual Type
C1ADDLOGTM	Address Log
C1ADDRDP	Address Information
C1ADDRS	Address
C1BK360	Customer 360-Degree View
C1BK360ACT	Account
C1BKBLDT	Bill Information
C1BKSINF	Customer 360-Degree Information
C1CUS360	Customer 360-Degree View
C1DEALINFO	Deal Information
C1DSPBILTM	Dispute Request - Bills Tab
C1DSPRQLOG	Dispute Request Log
C1DSPT	Dispute Request
C1DSPTRQ	Dispute Request
C1DSPTTY	Dispute Request Type
C1FTDIST	Financial Transaction Distribution
C1FTDSRL	Financial Transaction Distribution Rule
C1FTDSTL	Financial Transaction Distribution Log Tab
C1FTDSTT	Financial Transaction Distribution
C1FTDSTY	Financial Transaction Distribution Type
C1HC360ACT	Account
C1HC360POL	Policy 360 Information
C1HCBLDT	Bill Information
C1HCSINF	Customer 360-Degree Information
C1INMLOG	Inbound Message Log
C1INMSGP	Inbound Message
C1INMSGR	Inbound Message - Message

Portal	Description
C1INMSRH	Inbound Message
C1INMSTY	Inbound Message Type
C1PAREQ	Payment Agreement Request
C1PARQBILL	Payment Agreement Request - Bills Tab
C1PARQLOG	Payment Agreement Request Log
C1PARQMN	Payment Agreement Request
C1PARQTY	Payment Agreement Request Type
C1PI	Price Item
C1PL	Price List
C1_ACTVW	Accrual Type
C1_ACVW	Accrual Cycle
C1_TRLIN	Trial Bill
C1_ILMARC	ILM Archival

A.2.13 Zone

The following zones are newly added in the Oracle Revenue Management and Billing V2.6.0.0.0 database:

Zone	Description
C1-ACCTASUM	Billing and Adjustment Summary
C1-ACCTECR	Earnings Credit Rate Eligibility
C1-ACRLLOG	Accrual Log
C1-ACTHLDDTL	Hold Details
C1-ACTODPROC	Overdue Process Details
C1-ADDRDTL	Address Details
C1-ADDRLOG	Address Log
C1-ADDRSRC	Search Address
C1-ADJSRC	Adjustment Search
C1-ADJTYDSCR	Get Adjustment Type Descriptions
C1-ADRSDTL	Detailed Address -- Country
C1-ADRSLINEC	Address Characteristics

Zone	Description
C1-ADRSLINED	Address Entities
C1-APAYSW	Fetch Auto Pay Switch for Pay Method
C1-ASRCPER	Linked Accounts
C1-BK360ACC	Account
C1-BK360CU	Person
C1-BKACCTMN	Account Information
C1-BKCUSDEAL	Customer Deal Details
C1-BKCUST360	360-Degree Search
C1-BKCUSTMN	Person Information
C1-BKCUSTREE	Person Hierarchy
C1-BKDISREQ	Dispute Details
C1-BKPERADDR	Person Address
C1-BLDVSPD	Billed Vs Paid
C1-BLHIST	Billing History
C1-BOSTATES	Fetch Status of all Business Objects Created for a MO
C1-BOSTATS	Retrieve BO Statuses Description
C1-CHARTYPQ2	Characteristic Entity
C1-CNTRYSEL	Country Selection - Add Address
C1-CONTYP	Contact Type
C1-CURRDESC	Currency Description
C1-CUST360PO	Policy
C1-CUSTCNT	Customer Contacts
C1-DISPDET	Dispute Details
C1-DISPMAIN	Previous Dispute Requests
C1-DISPUTE	Dispute Request
C1-DIVCHAR	Division-Specific Characteristics for Price Item
C1-DIVINFO	Divisions
C1-DIVSQI	Division-Specific SQIs for Price Item
C1-DSPBILITM	Bill Line Items
C1-DSPRQSTAS	Retrieve BO Status For Dispute Request

Zone	Description
C1-DSPTADJPA	Dispute Adjustments
C1-DSPTBLITM	Disputed Bill Line Items
C1-DSPTBLSRC	Search Bills
C1-DSPTDTL	Dispute Details
C1-DSPTLOG	Dispute Request Log
C1-DSPTPRD	Bill or Price Item Details
C1-DSPTREQTY	Dispute Request Type List
C1-DSPTRQS	Search Dispute Request
C1-DSPTRQS1	Dispute Request Details
C1-DSPTRQS2	Person, Account, or Bill Details
C1-DSPTRQTDY	Dispute Request Type
C1-DSPTRQTYP	Active Dispute Request Types
C1-DSPTSRC	Bill Details
C1-EFFPACVAR	Effective Price Assignments for Account
C1-EFFPRICA	Effective Price Assignments for Account
C1-EFFPRICP	Effective Price Assignments for Person
C1-EFFPRPV	Effective Price Assignments for Person
C1-ELIGIBLE	Eligibility Criteria
C1-FINANDCOL	Account Financial and Collections Summary
C1-FRQSTRANS	File Request Status Transition
C1-FTDBOSRCH	Financial Transaction Business Object Search
C1-FTDIST	Financial Transaction Distribution Search
C1-FTDIST-RD	Financial Transaction Distribution Rule
C1-FTDIST-RL	Financial Transaction Distribution Rule List
C1-FTDIST-RV	Financial Transaction Distribution Rule Version List
C1-FTDIST-TY	Financial Transaction Distribution Type List
C1-FTDIST-VD	Financial Transaction Distribution Rule Version
C1-FTDIST1	FT Distribution ID
C1-FTDIST2	FT Distribution Type / Status / Expiry Date
C1-FTDISTLOG	Financial Transaction Distribution Log

Zone	Description
C1-FTDOEXLKP	FT Distribution Object Extendable Lookup Search
C1-FTDRLFK	Financial Transaction Distribution Rule FK Search
C1-FTDST-DSP	Financial Transaction Distribution
C1-FTDT-DSP	Financial Transaction Distribution Type
C1-FTDTYFK	Financial Transaction Distribution Type FK Search
C1-FTODTFK	Financial Transaction Offset Distribution Type FK Search
C1-GETADDRS	Get Address
C1-GETADRSID	Get Address ID for address search
C1-GETARCTXN	Get Archived Transactions
C1-GETDSPTCM	Get comments for Dispute request
C1-GETIDCHAR	Get Address ID from characteristic table
C1-GETPACMT	Get comments for Payment Agreement request
C1-GETPARTY	Get Party Information
C1-HC360ACCT	Account
C1-HC360CU	Person
C1-HCACCTADD	Account Address
C1-HCACCTMN	Account Information
C1-HCACCTPER	Account Persons
C1-HCACTAPAY	Auto Pay Details
C1-HCCUST360	360-Degree Search
C1-HCCUSTMN	Person Information
C1-HCCUSTREE	Person Hierarchy
C1-HCORELPER	Other Related Persons
C1-HCPAYHIS	Payment History
C1-HCPERADDR	Person Address
C1-HCPERCHLD	Person Child Information
C1-HCPLYPLN	Policy Plan
C1-HCPOLMAIN	Policy Information
C1-INMSG	Inbound Message
C1-INMSGCON	Inbound Message Content

Zone	Description
C1-INMSLOG	Inbound Message Log
C1-INMSSRH	Search Inbound Message
C1-INMSSRH1	Message Details
C1-INMSSRH2	Person Details
C1-INMSTLIST	Inbound Message Type List
C1-INMSTYPE	Inbound Message Type
C1-INVADJ	Adjustments
C1-INVDETC	Bill Segment Details
C1-INVDETP	Bill Segment Details
C1-INVINFO	Bill Information
C1-INVPAIDAC	Settlement Activities
C1-INVSUMC	Bill Segment Summary
C1-INVSUMP	Bill Segment Summary
C1-OPINV	Open Bills
C1-ORELPER	Other Related Persons
C1-PA-DTL	Bill Details
C1-PA-DTLS	Bill Details
C1-PA-SCHED	Payment Schedule
C1-PAAMT	Fetch Unpaid Amount and Schedule Amount for PA Request
C1-PABILLDTL	Bill Details
C1-PABILSRC	Bill Details
C1-PABILSRCH	Search Bills
C1-PAREQ	Payment Agreement Request
C1-PARQSTAT	Fetch Payment Agreement status
C1-PARQTY	Payment Agreement Request Type List
C1-PARQTYDP	Payment Agreement Request Type
C1-PARTYINFO	Account/Person Information
C1-PASRC	Search Payment Agreement Request
C1-PASRCBILL	Bill Details
C1-PASRCPA	Request Details

Zone	Description
C1-PAUNPDAMT	Fetch Unpaid Amount for PA Request
C1-PCKGSAV	Packaged Savings Code
C1-PDINV	Paid Bills
C1-PERDEAL	Deal Information
C1-PERPROS	Person Prospect
C1-PERSEG	Person Segment
C1-PERSRCH	Person Search
C1-PERSRCH1	Person Name
C1-PERSRCH2	Person Identifier
C1-PIASGNMUL	Search Price Item
C1-PIMULQRY	Search Price Item
C1-PLAMQUERY	Price List Assignments
C1-PLELIGIBL	Search Eligible Persons or Accounts
C1-PRICEITEM	Price Item
C1-PRICELIST	Price List
C1-RETINMSTY	Active Inbound Message Types
C1-SRCHPL	Price List Details
C1-SRCILM	Search
C1-STATEDESC	State Description
C1-TFMERRMSG	Division Level Information
C1-THDPTYACT	Fetch Payor Account ID for Third Party Payor
C1-THDPYDESC	Retrieve Active Third Party Payor (code + description)
C1-TMLNACNT	Timeline
C1-TRLINFO	Trial Bill Information
C1-VBTXERMSG	Transaction Details
C1ADDRSDP	Address
C1PARQLOG	Payment Agreement Request Log
C1RETPARQTY	Active Payment Agreement Request Types
C1_ACCRTYPE	Search Accrual Type
C1_ACCRUAL	Search Accrual

Zone	Description
C1_ACCRULDLT	Accrual Details
C1_ACCR_CYC	Search Accrual Cycle
C1_ACRMVW	Accrual
C1_ACTYVW	Accrual Type
C1_ACYLVW	Accrual Cycle
C1_ADVSRCHPL	Advanced Search Price List Details
C1_ASTOPLAV	Account Override Pricing
C1_ASTOPLCV	Person Override Pricing
C1_ASTOPLPV	Price List Pricing
C1_AUTOPAY	Auto Pay ID Search
C1_BNDPRD_PI	Assigned Price Items
C1_OLDPI	OLD Search Price Item
C1_PIREL	Price Item Relationship
C1_PLASGN	Current Price List Assignments
C1_PLPI	Price List Price Items
C1_PLPIV	Price List Price Items
C1_PRODPLMPV	Price List Price Items
C1_THRDPTYPY	Active Third Party Payor Search
C1_TRLBSG	Trial Bill Segment Information
C1_TRLBSGCAL	Trail Bill Segment Calc Lines
CI_CTREE	Person Legal Hierarchy

A.2.14 UI Map

The following UI maps are newly added in the Oracle Revenue Management and Billing V2.6.0.0.0 database:

UI Map	Description
C1-AccountAdjustmentSummary	Account Adjustment Summary Display
C1-AccountFinAndCollSummary	Customer 360: Account Adjustment Summary
C1-AccrualAppTxnDisplay	Display UI Map for Accrual
C1-AccrualAppTxnInput	Input UI Map for Accrual

UI Map	Description
C1-AccrualBOJScriptFrag	Accrual-Show/Hide BO Status Action
C1-AccrualDetailsDisp	Accrual details-Display UI
C1-AccrualReqCharsDispFrag	Accrual Request Characteristics - View UI
C1-AccrualReqCharsMaintFrag	Accrual Request Characteristics -Input UI
C1-AccrualRequestRejectConfM	Accrual - Enter Reject Reason
C1-AccrualSrchEntityDetails	Accrual Information
C1-AcctAddressDispFrag	Account Address details
C1-AcctCharacteristicsDpFrag	Account Characteristics - View UI
C1-AcctEcr	Earnings Credit Rate Account
C1-AddAccrRequestUserLog	Accrual - Add User Log Entry
C1-AddAddrRequestUserLog	Address - Add User Log Entry
C1-AddEntityDisp	Address Entity-Display UI
C1-AddEntityMain	Address Entity-Input UI
C1-AddFtDistLog	FT Distribution - Add User Log Entry
C1-AddPaRequestUserLog	Payment Agreement Request - Add User Log Entry
C1-AddUserDisputeLog	Disput Request - Add User Log Entry
C1-AddUserInboundMessageLog	Inbound Message - Add User Log Entry
C1-AddressAppTxnDisplay	Display UI Map for Address
C1-AddressAppTxnInput	Input UI Map for Address
C1-AddressCharValMaint	Characteristic Value Maintenance
C1-AddressCharsDispFrag	Address Characteristics - View UI
C1-AddressCharsMainFrag	Address Characteristics -Input UI
C1-AddressCountryField	Address field display based on country
C1-AddressSrchDetails	Address search
C1-AprDfOptRqCheckBoxesDispFrg	Approval with Deferred Option Request Type Check Boxes
C1-AprDfOptRqCheckBoxesMainFrg	Approval with Deferred Option Request Type Check Boxes
C1-BILLWRAPSVUI	Bill Wrapper Business Service UI
C1-BK360SrchByAcct	Customer 360 Banking - Search by Account
C1-BKCustAddressDpFrag	Customer Address Details
C1-BKCustDealFrag	Retrieve Person Deal Details

UI Map	Description
C1-CUSTCONUI	Customer Contact Search
C1-CharAddDeleteButtonPrc	Characteristics Add/Delete Button
C1-CharFilterFieldsFragment	Characteristic Search Filter Fields
C1-CharSearchHeaderFragment	Characteristic Search Header
C1-CharTypeDispFrag	Characteristics Type - View UI
C1-CharTypeMaintFrag	Characteristics Type -Input UI
C1-CharValueInputFilter	Char Value Maintenance - Filter
C1-CharValueMaintPrc	Characteristic Value Maintenance
C1-CharacteristicDispFrag	Characteristics - Display Fragment
C1-CharacteristicGridDisplay	Characteristic Grid-Display
C1-CharacteristicMaintFrag	Characteristics -Input UI
C1-CharacteristicTypeInfoFiltr	Characteristic Type Info - Filter
C1-CharacteristicTypeInfoPrc	Characteristic Type Information for Pricing
C1-Cust360AccountInfoDpFrag	Customer 360: Account information
C1-Cust360BillingInfoDpFrag	Customer 360: Billing information
C1-Cust360FinancialInfoDpFrag	Customer 360: Financial information
C1-Cust360PolicyFilter	Customer 360 Search By Policy
C1-CustAddressDispFrag	Customer Address Display
C1-CustBK360CustFilter	Customer 360 Search By Customer
C1-CustHC360CustFilter	HC 360 Search By Person
C1-DSPTBILLPRD	Dispute Request - Search Bills
C1-DSPTBILLSRC	Dispute Request - Search Bills
C1-DSPTBillItemFilterMap	Bill Line Items - User filter for dispute
C1-DetailedAddressDisp	Detailed Address -- Country
C1-DisputeBillItemFilterMap	Bill Line Items - User filter for dispute
C1-DisputeBojScriptFrag	Dispute Request - Show / Hide Business Object Status Action
C1-DisputeEdit	Edit Dispute Request
C1-DisputeReqInput	Input UI Map for Dispute request
C1-DisputeReqSrchEntityDetails	Bill or Person or Account details
C1-DisputeReqSrchReqDetails	Search Dispute Request details

UI Map	Description
C1-DisputeRequestRejectConfM	Dispute Request - Enter Reject Reason
C1-DsptReqTyBOFragDis	DisputeRequest Type - Display UI
C1-DsptReqTypeBoFrag	Dispute Request Type BO Area Data - Maintenance
C1-DsptReqTypeCharsDispFrag	Dispute Request Type Characteristics - View UI
C1-DsptReqTypeCharsMaintFrag	Dispute Request Type Characteristics -Input UI
C1-DsptRequestReSubmitConfM	Dispute Request - Enter ReSubmit Comments
C1-FRTDisplayMap	File Request Type Display Map
C1-FRTInputMap	File Request Type Input Map
C1-FTDistRuleSearch	FT Distribution Rule Search
C1-FTDistRuleVerSrch	FT Distribution Rule Version Search
C1-FTDistTypeSearch	Financial Transaction Distribution Type Search
C1-FTDistribRuleVerAlgFragD	FT Distribution Rule Version Algorithm Fragment Display
C1-FTDistribRuleVerAlgFragM	FT Distribution Rule Version Algorithm Fragment Maint
C1-FTDistribRuleVerExcFragD	FT Distribution Rule Version Excluded Objects Fragment Displ
C1-FTDistribRuleVerExcFragM	FT Distribution Rule Version Excluded Objects Fragment Maint
C1-FTDistribRuleVerIncFragD	FT Distribution Rule Version Included Objects Fragment Displ
C1-FTDistribRuleVerIncFragM	FT Distribution Rule Version Included Objects Fragment Maint
C1-FTDistributionSearch1	FT Distribution ID Search
C1-FTDistributionSearch2	Financial Transaction Distribution Search
C1-FTDistributionTypeCharDisp	FT Distribution Type Characteristics - Display
C1-FTDistributionTypeCharMaint	FT Distribution Type Characteristics - Maintenance
C1-FTDistributionTypeMaint	FT Distribution Type Maintenance
C1-FileReqTypePurgeDisplayMap	File Request Type Purge Switch Display map
C1-FileReqTypePurgeSwitch	File Request Type Purge Switch
C1-FileRequestTypeDispMap	File Request Type Display Map
C1-FileRequestTypeMap	File Request Type Input Map
C1-FtDistCharDisplayFrag	FT Distribution Characteristics - Display
C1-HC360SrchByAcct	Customer 360 - Search by Account
C1-HCCustAddressDpFrag	Person Address Details
C1-ILMArchiveUI	ILM Archive UI

UI Map	Description
C1-ILMUI	ILM interface
C1-INMSFUIM1	Inbound Message UI Map for Zone 1
C1-INMSFUIM2	Inbound Message Search UI Map for Zone 2
C1-INVOICE-DTLS	Invoice Detail - Due Date Filter
C1-InboundMessageCharDispFrag	Inbound Message Characteristics - View UI
C1-InboundMessageCharMaintFrag	Inbound Message Characteristics -Input UI
C1-InboundMessageDetails	Inbound Message - Display Message Content
C1-InboundMsgTypeCharDispFrag	Inbound MessageType Characteristics - View UI
C1-InboundMsgTypeCharMaintFrag	Inbound Message Type Characteristics - Input UI
C1-InvoiceDetailFilter	Invoice Detail - Query Filter
C1-MemInboundMsgCharDispFrag	Inbound Message Characteristics - View UI
C1-MemInboundMsgCharMaintFrag	Inbound Message Characteristics -Input UI
C1-NavigationFrag	UI Navigation Fragment
C1-PA-SCHED-AddDeleteButton	Add/Delete Button
C1-PABILL-AddDeleteButton	Add/Delete Button
C1-PABOJScriptFrag	PA Request - Show / Hide BO Status Action
C1-PABillFilter	Search By Bill Details - PA
C1-PAREqAmountDispFrag	Payment Agreement Request Amount - Display UI
C1-PAREqAmountMaintFrag	Payment Agreement Request Amount - Input UI
C1-PAREqBillFilter	Payment Agreement Request - Search Bills
C1-PAREqBillMaintFrag	Payment Agreement Request Details - Input UI
C1-PAREqCharsDispFrag	Payment Agreement Request Characteristics - View UI
C1-PAREqCharsMaintFrag	Payment Agreement Request Characteristics -Input UI
C1-PAREqRejectConfM	Payment Agreement Request - Enter Reject Reason
C1-PAREqScheduleMaintFrag	Payment Agreement Request Schedule -Input UI
C1-PAREqThrdPrtyDispFrag	Payment Agreement Request Third Party Payor - Display UI
C1-PAREqThrdPrtyMaintFrag	Payment Agreement Request Third Party Payor - Input UI
C1-PAREqTypeApprDispFrag	Payment Agreement Request Type - Display UI
C1-PAREqTypeApprMaintFrag	Payment Agreement Request Type - Input UI

UI Map	Description
C1-PAReqTypeCharsDispFrag	Payment Agreement Request Type Characteristics - View UI
C1-PAReqTypeCharsMaintFrag	Payment Agreement Request Type Char - Input UI
C1-PARequestFilter	Payment Agreement Request Filter
C1-PARequestReSubmitConfM	Payment Agreement Request - Enter ReSubmit Comments
C1-PICharsDispFrag	Price Item Characteristics - Display Fragment
C1-PIDivCharsDispFrag	Price Item Division Characteristics - Display Fragment
C1-PIRelCharsDispFrag	Price Item Relationship Characteristics - Display Fragment
C1-PLSRCH	Manage Search Product UI Frag
C1-PersonTreeFilter	Person Tree Filter
C1-PolicyBOStatusReasonMainFrg	Policy Status Reason Checkboxes Fragment UI Map
C1-PriceltemCharsMaintFrag	Price Item Characteristics - Input UI
C1-PriceltemDivsCharMaintFrag	Price Item Division Characteristics - Input UI
C1-PriceltemMaint	Price Item - Maintenance Input UI
C1-PriceltemMaintDup	Price Item - Maintenance Input UI
C1-PriceltemRelCharsMaintFrag	Price Item Relationship Characteristics - Input UI
C1-PriceListAsgnCharMaintFrag	Price List Assignment Characteristics - Input UI
C1-PriceListCharsDispFrag	Price List Characteristics - View UI
C1-PriceListEligibilityFrag	Price List Eligibility Input UI -TS
C1-PriceListMaintnUI	Price List - Maintenance Input UI
C1-PriceListMaintnUIDup	Price List - Maintenance Input UI
C1-ProductChildRelation	Parent child relationship in product
C1-RateComp	Rate Component Maint UI
C1-RateCompFlat	Rate Component Flat Maint UI
C1-RateCompStep	Rate Component Step Maint UI
C1-ReinstatementUpIReqMaint	Reinstatement Upload Request
C1-SearchByPerson	Person Search by Person Id Filter UI Map
C1-SearchByPersonId	Person Search by Person Id Filter UI Map
C1-SelectInboundMessageType	Select Inbound Message Type
C1-SelectPARequestType	PA Request - Select Payment Agreement Request Type
C1_ACTYPE_DIV	Division Accrual Type

UI Map	Description
C1_AUTO_PAY	Auto Pay ID Search
C1_AccrualCycleSearchFilter	Accrual Cycle Filter UI Map
C1_AccrualMaintDisp	Accrual-Display UI
C1_AccrualMaintFrag	Manual Accrual Maint Frag- Input UI
C1_AccrualObjectExclusion	Accrual Entity-Input UI
C1_AccrualObjectExclusionDisp	Accrual Object Excl Frag-Display Map
C1_AccrualTypeAlgoMaintFrag	Accrual Type Algo Maint Frag- Input UI
C1_AccrualTypeDispFrag	Accrual Type Display Frag- Display UI Map
C1_AccrualTypeMaintFrag	Accrual Type Maint Frag- Input UI
C1_AccrualTypeSearchFilter	Accrual Type Filter UI Map
C1_BILL_HIS	Open invoice filters
C1_DIV	Search for Division
C1_EFFPRICASGN	Effective Price Assignment - Account UI
C1_EFFPRICASGNP	Effective Price Assignment - Person UI
C1_EFFPRICASGNPV	Effective Price Assignment - Person UI
C1_EFFPRICASGNV	Effective Price Assignment - Account UI
C1_INACPLASGMP	Search Inactive Price List Assignments
C1_OPEN_INV	Open invoice filters
C1_PIREL	Price Item Relationship UI
C1_PLASGMP	Search Current Price List Assignments
C1_PRICELIST_ADV_SRCH	Manage Advanced Search Product UI Frag
C1_THRD_PTY_PAYOR	Third Party Payor Search
C1_TRLBSEG_SRCH	Trial bill segment information
CI-TRLBILL_VIEW	Trial Bill Information

A.2.15 Lookup

The following lookups are newly added in the Oracle Revenue Management and Billing V2.6.0.0.0 database:

Field	Field Value	Description
ACCH_OPT_TYP_FLG	C1AC	Account Characteristic Type
	C1ES	Bill Group External System
	C1OM	Bill Group Outbound Message Type
	C1CC	Customer Class
	C1BG	Bill Group Identifier Type
	C1PA	Previous Customer Account Characteristic Type
ACCR_CAN_RSN_CD	BKPA	Broken payment arrangement
	CRNT	Credit Note
ACCR_CRT	ACTL	Actual
	HIST	Historical
ACCR_ENTITY_FLG	ADJ	Adjustment Type
	DST	Distribution Code
	PRI	Price Item
ACCR_OBJ	ADJ	Adjustment
ACCR_SRC	TRBL	Trial Bill
	TFM	Transaction Feed

ACCR_STATUS	ACRV	Accrual Reversed
	EROR	Error
	ACCA	Ready For Accrual
	REJC	Rejected
	DRFT	Draft
	CNCL	Cancelled
	INVL	Invalid
	PRCD	Processed
	APPR	Approved
	ACRD	Accrued
	APIG	Approval in Progress
IGNR	Ignore	
ADDRESS_TYPE_FLG	SEAS	Person Seasonal
	OVRD	Account Override
	MAIN	Person Mailing
BILL_PAID_FLG	UP	Unpaid
	FP	Fully Paid
	PP	Partially Paid
C1_INVOICE_DAY_BILL_PERIOD_FLG	1	MTHPD1
	15	MTHPD15
	28	MTHPD28
C1_LBX_820_RECORD_TYPE	N1	Name
	BPR	Beginning Payment Advice/Remittance
	SE	Transaction Set Trailer
	GS	Functional Group Header
	ST	Transaction Set Header
	GE	Functional Group Trailer
	REF	Reference Identification
	RMR	Remittance Receivable

C1_LBX_REF_IDQ_LKP	MN	MICR Number
	IT	Source System Customer Number
	CK	Check Number
	12	Reference Identifier for Account Id
	EI	Reference Identifier for tax payer
	8I	Reference Identifier for FWT
	8G	Reference Identifier for ACH & OBP
	TN	Reference Identifier for CHK & CAS
C1_LBX_RMR_ID_TYPE	IV	RMR Invoice
	EI	RMR Tax Payer Identification Number
	IT	RMR Source System Customer Number
	FWT	FEDWIRE Confirmation Number
	OBP	Online Payment Trace Number
	ACH	Automated Clearinghouse
CUST_TXN_TYPE_FLG	REIN	Reinstate
	NEW	New
	TERM	Terminate
	CHNG	Change
DAY_TYPE	CADY	Calendar Day
	BSDY	Business Day
DEAL_REVIEW_FREQ	WEEK	Weekly
	ANNL	Annual
	MNTH	Monthly
DELIMITER	COMM	Comma-Separator
	PIPE	Pipe-Separator
DISPUTE_REASON_FLG	ROBL	Re-opened bills
DISTRIBUTION_OBJ_TYPE_FLG	C1TA	Transfer Adjustment
ENTITY_FLG	PERS	Person
	ACCT	Account
	ADJS	Adjustment

EXP_CYC_DURATION_FLG	YEAR	Years
	WEEK	Weeks
	DAYS	Days
	MNTH	Months
FILE_FORMAT	PRN	Fixed Position
	PSV	Pipe Separated Value
	CSV	Comma Separated Value
	XML	XML
	JSON	JSON
FT_DIST_METHOD_FLG	PRIO	Priority Based
	WEAV	Weighted Average
	FEEB	Fee Based
FT_DIST_RULE_OBJ_TYPE_FLG	ADJU	Adjustment
	PRIC	Price Item
FT_DIST_RULE_VERSION_SEVT_CD	DRPA	Apply Rule
	DRPC	Create
	DRPD	Distribute
	DRPP	Post-processing
	DRPR	Pre-processing
FT_OBJ_TYPE_FLG	C1BS	Bill Segment
	C1AD	Adjustment
HIERARCHY_FLG	PRPS	Person Relationship (Parent) Same Division
	PRCS	Person Relationship (Child) Same Division
	PRPO	Person Relationship (Parent) Other Division
	PRCO	Person Relationship (Child) Other Division
	IGAS	IGA Member Accounts Same Division
ILM_MODULE	TFM	Transaction Feed Management
	BILL	Billing

ILM_OPT_TYP_FLG	ILME	ILM Enabled
PA_LVL_FLG	PLST	Price List
	PCPI	Parent Customer Inherited Price List
	PDPL	Product Default Price List
	ACAD	Account Agreed
	ACPL	Account Price List
	CUPI	Customer Inherited Price List
	CUPL	Customer Price List
	DEPL	Default Price List
	GLPL	Global Price List
	PCAD	Parent Customer Agreed
	CUAD	Customer Agreed
	ACPI	Account Inherited Price List
	PCPL	Parent Customer Price List
POST_METH	BLLV	Bill Level
	BSLV	Bill Segment Level
PRICEITEM_PARM_USAGE_FLG	AGG	Aggregation
	PRI	Pricing
SEVT_FLG	ACCA	Accrual Calculation
	APCA	Accrual Post Calculation
	ACPO	Accrual Post Processing
	ACRE	Accrual Reversal
	ACCR	Accrual Creation
	ACPR	Accrual Pre Processing
	ACEL	Accrual Eligibility
	ARPO	Accrual Reversal Post Processing
	ARPP	Accrual Reversal Pre Processing
SOURCE_FLG	MANL	Manual
	BATC	Batch

STA_CLC_OPT_FLG	MCLC	Multiple Charge Line Codes
	SCLC	Single Charge Line Code
	HMO	HMO Charge Line Code
	NHMO	Non-HMO Charge Line Code
STA_ELIG_RULE_FLG	CPO	Check Policy State Only
	CMO	Check Member State Only
	CPM	Check Policy State & Member State
STA_RATE_OPT_FLG	PPRM	Percentage of Premium
	PEPM	Per Employee Per Month
STA_RESTRICT_TYPE_FLG	PLAN	Restrict by Plan
	RCOV	Restrict by Rate Coverage Type
	NONE	None
STATE_CLC_OPT_FLG	MCLC	Multiple Charge Line Codes
	SCLC	Single Charge Line Code
STATE_CLC_TYP_FLG	HMO	HMO Charge Line Code
	NHMO	Non-HMO Charge Line Code
STATE_ELIG_RULE_FLG	CMO	Check Member State Only
	CPM	Check Policy State & Member State
	CPO	Check Policy State Only
STATE_RATE_OPT_FLG	PPRM	Percentage of Premium
	PEPM	Per Employee Per Month
STATE_RESTRICT_TYPE_FLG	NONE	None
	PLAN	Restrict by Plan
	RCOV	Restrict by Rate Coverage Type
USER_EXIT_ACTION_FLG	HA	Handle Add
	HAC	Handle Add Or Change
	HD	Handle Delete
	PA	Prepare To Add
	PC	Prepare To Change
	HC	Handle Change

A.2.16 Characteristic Type

The following characteristic types are newly added in the Oracle Revenue Management and Billing V2.6.0.0.0 database:

Characteristic Type	Description
C1-EXADJ	Expire Adjustment
C1-FTDID	Financial Transaction Distribution ID
C1-FTDOB	Financial Transaction Distribution Object
C1-RFADJ	Refund Adjustment
C1-SIBID	Sibling Id
C1-WOADJ	Write Off Adjustment
C1ACARSH	Refresh Account Aging
C1ACCT	Account
C1ACTDIV	Account Division Code
C1APAYRT	Auto Pay Route Type
C1BILLAN	Billing Analyst
C1BILLTY	Bill Type
C1BILMET	Bill Method
C1BLFREQ	Bill Frequency
C1BLSTFE	Billed State Assessment Fee
C1BSEGID	Related Bill Segment ID
C1CASHAN	Cash Analyst
C1CDBNFT	Coordination of Benefits
C1CHRGLN	Charge Line Code
C1CLCADH	Charge Line Code (Adhoc)
C1COLLOC	Collection Location
C1COMARR	Commission Arrangement Value
C1COMPCD	Company Code
C1COUNTY	County Code
C1COVPER	Coverage Period
C1CTOFDT	Cut Off Date

Characteristic Type	Description
C1CUSTAT	Customer Status
C1CVEDDT	Coverage End Date
C1CVSTDT	Coverage Start Date
C1CVTIER	Coverage Tier
C1DEPCD	Dependent Code
C1DNONPY	Due Non Payment
C1DPRCRC	Dental Prior Carrier Code
C1DPRCRD	Dental Prior Carrier Description
C1EBDIND	Embedded Indicator
C1ELGSTA	Eligibility Status Type
C1EXNPCV	Exclude Non-Primary Coverage from State Assessment
C1FEECD	Fee Code
C1FRANCD	Franchise Code
C1FRMKSG	Frozen Market Segment
C1HMOPCT	HMO Split Percentage
C1HMOSW	HMO Indicator
C1HOIS	HOIS ID
C1HPLNID	External Health Plan Code
C1INAPPC	Inactive Policy Plan Contract
C1INDCD	SIC Code
C1INVCAT	Invoice Category
C1INVHLD	Invoice Hold Reason
C1LCKBX	Lockbox
C1LEGENT	Legal Entity Code
C1LEGFAC	Healthcare Legacy Fund Arrange Code
C1LINBUS	Healthcare Line of Business
C1LPLGEN	Lead Partner Legal Entity
C1LPOBID	Lead Partner Obligor ID
C1LPRCRC	Life Prior Carrier Code
C1LPRCRD	Life Prior Carrier Description

Characteristic Type	Description
C1LTRTMC	Letter Template Code
C1MARSTA	Marital Status
C1MEDPRM	Medicare Eligibility Indicator
C1MEENSC	Member Enrollee Status Code
C1MNMRT	Minor Market Code
C1MPCRRC	Medical Prior Carrier Code
C1MPCRCD	Medical Prior Carrier Description
C1NBPNBL	New Business - Pending Bill
C1NBRRSN	Reinstatement Reason - Number of Reinstatement
C1NOICLC	Non-Integrated Charge Line Code
C1NONHMO	Non-HMO Distribution Code
C1OBGRID	Obligor ID
C1OFCREG	Office of Registration Code
C1OFFRST	Invoice Day
C1OONIND	OON Indicator
C1OONLGE	Out of Network Legal Entity
C1OVCOLL	Override Collection Class
C1OVRWDT	Override Postpone Credit Review Date
C1PCID	PCID
C1PHOLBF	Premium Holiday Bill Factor
C1PLACDT	Plan Activity Date
C1PLDESC	Plan Description
C1PLDPRI	Plan Derivation Priority
C1PLEFDT	Plan Effective Date
C1POLICY	Policy
C1POLPLN	Policy Plan
C1POLSFX	Policy Suffix Value
C1PPENDT	Policy Period End Date
C1PPLNBO	Policy Plan BO
C1PPSTDT	Policy Period Start Date

Characteristic Type	Description
C1PRBASE	Base Policy Indicator
C1PRDCAT	Coverage Type
C1PRMHOL	Premium Holiday Indicator Distribution Code
C1PRMRSN	Premium Holiday Adjustment Reason
C1PRODTY	Product Type
C1PRODUC	Product Code
C1PRSRLT	Send Reinstatement Letter Characteristic Type
C1PRSRSN	Status Reason Codes (Termination/Reinstate)
C1PRTNRL	Proration Rule
C1PRVMNC	Previous Main Customer
C1PSNINT	Package Savings Non-Integrated Indicator
C1PVENDT	Previous End Date
C1PYRVWR	Payment Review Reason
C1RATCOV	Rate Coverage Type
C1REQID	Request ID
C1REQPRF	Revenue Adjustment Activity Request Approval Profile
C1REQUSE	Revenue Adjustment Activity Request Usage
C1RLPDCT	Related Plan Rate Coverage Type
C1RMIVID	Remittance Invoice Id
C1RMPYMT	Remittance Payment Amount
C1RMSCID	Remittance Source System Customer Number
C1RMTXID	Remittance Taxpayer Identification Number
C1RTACDT	Rate Activity Date
C1RTEFDT	Rate Effective Date
C1SAFELG	Eligible for State Assessment Fee
C1SFPREM	State Assessment Fee Premium
C1SHARRG	Shared Arrangement Code
C1SRCSID	Source System Customer Number
C1STAFEE	Member State Assessment Fee
C1STISSE	State of Issue

Characteristic Type	Description
C1TRNCAT	Transaction Type Category
C1TRPYID	Transferred From Pay Id
C1TXPYID	Taxpayer Identification Number
C1_BRTDT	Date of Birth
N/A	Not Applicable
RCBCCHT	Billable Charge on RC

A.2.17 Feature Config

The following feature configurations are newly added in the Oracle Revenue Management and Billing V2.6.0.0.0 database:

Feature Configuration	Description
C1-ACCTCHPRM	Account Change Handler Parameters
C1-BILLCYCLE	C1BC - Bill Cycle/Schedule Rule Mapping
C1_ILM	Feature Configuration for ILM
C1-BILLADJSQ	Billing Adjustment SQI

A.2.18 Zone Type

None.

Appendix B : Application Services Configured for Default User Group

This section lists the application services configured for the default user groups shipped with Oracle Revenue Management and Billing Version 2.6.0.0.0.

B.1.1 ALL_SERVICES

The following table lists all application services configured for the ALL_SERVICES user group:

Application Service	Application Service	Application Service
AFHZONE	C1-CHGTYP SA	C1-EXTSTMLOGZ
APPTXADM	C1-CNTRTPPTZ	C1-EXTSTMTAD
AUTODIAL	C1-CONTRACTCHARSVALI	C1-EXTSTMTCHAR
BILLGCONS	C1-CONTRACTTYPECHARS	C1-EXTSTMTED
BILLGRAPH	C1-CTCGSRV	C1-EXTSTMTITEM
C1-ACCBALCNT	C1-CTRLC	C1-EXTSTMTITMCHR
C1-ACCCRCHM	C1-DEFAULTPP	C1-EXTSTMTRC
C1-ACCCURDET	C1-DELPPTMP	C1-EXTSTMTRSZ
C1-ACCDETAILZ	C1-DFLTPTMP	C1-EXTSTMTZ
C1-ACCDISCREZ	C1-DRRDTLSZ	C1-GETADJ
C1-ACCNBRYPAS	C1-DUPBTN	C1-GETEFFECTVPRICING
C1-ACCOUNTCURRENT	C1-EDITPPTMP	C1-GETPPTMPL
C1-ACCQUICED	C1-EQUITYDT	C1-GETPRICING
C1-ACCREDIT	C1-EXITEMDEL	C1-INS-POLICY
C1-ACCRLOGZ	C1-EXITEMED	C1-INSDETBAK
C1-ACCSELECT	C1-EXSTMVBNF	C1-ISSUEDATEPOLICYCH
C1-ACCURERR	C1-EXTACQRYZ	C1-LINKPPTMP
C1-ACCURTEXT	C1-EXTAUTREC	C1-LINKPPTMP2
C1-ACNPOLSUMZ	C1-EXTERNALSTATEMENT	C1-MAINPINFR
C1-ACPOLSUMMZ	C1-EXTITEMAD	C1-MAINPLAN
C1-ACTCATSRV	C1-EXTPENDG	C1-MAINPPTMP
C1-ACTPPTMPL	C1-EXTREOPN	C1-MEMBSP
C1-ACURITEMD	C1-EXTSTCHM	C1-MOVEPPT

Application Service	Application Service	Application Service
C1-ADJAPPRVLREQBOAS	C1-EXTSTIMP	C1-MSGTYPBASISBOAS
C1-APAYEXPCRREQBOAS	C1-EXTSTITCH	C1-NAVACTCUR
C1-APAYEXPCRTYPEBOAS	C1-EXTSTLDB	C1-NAVTOEXST
C1-APPTXN	C1-EXTSTMBNF	C1-OUTAGE
C1-APPTXNLOG	C1-EXTSTMCAN	C1-PAY-REQ
C1-ASGNPL	C1-EXTSTMCLD	C1-PAYMENT
C1-BILLCHARGE	C1-EXTSTMCLS	C1-PAYPLAN
C1-BRD	C1-EXTSTMDTLZ	C1-PAYPLAND
C1-CASEGRPSRV	C1-EXTSTMDZ	C1-PAYPLANTMPLCOMPL
C1-PAYPLANZ	C1-PPDUP	C1-UNLINKPP
C1-PAYTEMPLATEBOAS	C1-PPEDIT	C1-UPLOADCSV
C1-PERBALCNT	C1-PPEDTTASK	C1-WRITEOFFREQ
C1-PIFVIS	C1-PPLANDET	C1ACCPOR
C1-PINFRDISP	C1-PPPROC	C1ACCRATE
C1-PINVFPOST	C1-PPSACCSRC	C1ACMACR
C1-POINFRDET	C1-PPTCNTDETZ	C1ACMACT
C1-POLCANCE	C1-PPTERROR	C1ACMARQ
C1-POLCANZ	C1-PPTMPDISP	C1ACTPER
C1-POLICY	C1-PPTMPDUP	C1ACTREE
C1-POLICYBPA	C1-PPTMPL	C1ADJSTP
C1-POLICYCANRSNSERV	C1-PPTMPLD	C1ADJUPL
C1-POLICYCHAR	C1-PPTMPLDET	C1AGING
C1-POLICYDESC	C1-PPTMPLDETZ	C1APPBOCHNZN
C1-POLICYINVOICEFREQ	C1-PPTMPLVIS	C1APPCHN
C1-POLICYPLAN	C1-PPTMPLZ	C1APPCRT
C1-POLICYSUM	C1-PPTMPPOST	C1APPTXNBOCHN
C1-POLINVDDETZ	C1-PRISIM	C1APPTXNBOCHNZN
C1-POLINVEDI	C1-PSTAKEHLD	C1APPTXNGRP
C1-POLINVFRE	C1-REFWOREQ	C1APROF
C1-POLINVFREZ	C1-REQUEST	C1BILLTD
C1-POLINVFRQ	C1-REQUEST-TYPE	C1BNKREC

Application Service	Application Service	Application Service
C1-POLI_FHZ	C1-RETURNDUP	C1BOCHN
C1-POLNOMINEZ	C1-REVRECSCHZ	C1CNTCR
C1-POLPERORLEAS	C1-RULEBOAS	C1COLDTL
C1-POLSUMZ	C1-SHDETAILSZ	C1COLTYP
C1-PPACCTSRC	C1-SRCHSCPT	C1CONSTRUCT
C1-PPACTV	C1-TXNAGG	C1CSEPOR
C1-PPBTNS	C1-TXNDTL	C1CTRLC
C1-PPDET	C1-TXNREC	C1DISAGR
C1-PPDETZ	C1-TXNSRC	C1EXCHRT
C1-PPDISP	C1-UNLINK	C1FAAUD
C1FLGRP	C1POLSRCH	C1TXNAGGRUL
C1FLRQTY	C1POLSRH	C1TXNDTL
C1FLSRCH	C1POLTYP	C1TXNREC
C1FOAUD	C1PPCARS	C1TXNSRC
C1HDRSR	C1PPLAN	C1TXRTFM
C1INSPAY	C1PPTMPL	C1VAR
C1MANAPP	C1PPTMPO	C1VARIANCE
C1MANLOG	C1PPVERSCHZ	C1VIEWURL
C1MANMOD	C1PRICEL	C1WODET
C1MANRES	C1PRISIM	C1_ACCNBALG
C1MEMBRS	C1PRODUCT	C1_ACCTCHAR
C1MEMBSP	C1PROFILESRVC	C1_ACCUR
C1MMTYPE	C1PSNAPP	C1_ACDTLRCH
C1MTRADM	C1PSNMOD	C1_ACMM
C1NCISPY	C1PSNRES	C1_ACMS
C1NCPTMP	C1PTNDRH	C1_ADDEXH
C1ODBUPR	C1PTPLP	C1_ADDPL
C1PAYPLAN	C1PYRQTY	C1_ADDPROD
C1PAYPTL	C1RECONDTL	C1_ADD_RTCMP
C1PAYREQ	C1REFSTP	C1_ADD_TIER
C1PAYRQ	C1REFUND	C1_ADMPI

Application Service	Application Service	Application Service
C1PAYSRC	C1REQSTP	C1_ANSPLTCUS
C1PAYUPL	C1REQSTS	C1_APPAD
C1PERRL	C1REQTYP	C1_APPTXN_PRICEASGN
C1PLCYPL	C1RFWORT	C1_APPWF
C1PLCYPN	C1RLCHK	C1_APUR
C1PLCYTY	C1SAPPTM	C1_APVIG
C1POINFR	C1SATYPELISTZ	C1_ASNPL
C1POLCYN	C1SCHEDU	C1_AUDIT
C1POLCYP	C1SETTHR	C1_BACCGRVAL
C1POLICYCANRSN	C1SRCHRL	C1_BACCTDETL
C1POLSCH	C1TXNAGG	C1_BACCVALID
C1_BACTSRCHM	C1_CHKBIL_PA	C1_EXCHRT
C1_BAFHZ	C1_CHKTRDFLG	C1_EXHRT
C1_BCCSH	C1_CIAM	C1_EXPPITM
C1_BCONT	C1_CIGAS	C1_EXSTD
C1_BCON_INFO	C1_CIMAPZ	C1_EXSTL
C1_BCON_SRH	C1_CLACTSRCH	C1_EXSTM
C1_BCUSACCDT	C1_CLCSESRCH	C1_EXSTS
C1_BCUSACCSR	C1_CLCTRCNTR	C1_FEED
C1_BCUSGRVAL	C1_COLLN	C1_FILEHDRSR
C1_BCUSSRCHM	C1_COM_VALID	C1_FTRS
C1_BCUSTACDT	C1_COPYBND	C1_F_ACTSRCH
C1_BCUSVALID	C1_COPYPL	C1_F_ADDBNDT
C1_BFHIS	C1_CPBUNDL	C1_F_ADDCHLD
C1_BFH_SRH	C1_CPYBD	C1_F_ADDEXCH
C1_BNDMN	C1_CPYPL	C1_F_ADDMM
C1_BNDPRD	C1_CUSTINFO	C1_F_ADDMMSS
C1_BNDPRS	C1_CUST_HR	C1_F_ADDPL
C1_BO_OPT	C1_DEL_PRD	C1_F_ADDPRBD
C1_BPAYHSRCH	C1_DEL_PROD	C1_F_ADDPRD
C1_BPH_INFO	C1_DISPUNDB	C1_F_ADDPRPL

Application Service	Application Service	Application Service
C1_BPYHS	C1_DIVPERREL	C1_F_ADDPRSS
C1_BRD_P	C1_DRRSR	C1_F_ADDRATE
C1_BSRCHOVRD	C1_DSPLY_RT	C1_F_ADMPROD
C1_BSRPT	C1_EDIT	C1_F_ADPROD
C1_BTOGGLECA	C1_EDTBUND	C1_F_ADVAL
C1_BTREESRCH	C1_EDTER	C1_F_APVDTVL
C1_BTST	C1_EDTPL	C1_F_APVNFLT
C1_BUNDLE	C1_EDTPROD	C1_F_APVRJS
C1_BUNDVAL	C1_EDT_PRITM	C1_F_ASGNCUS
C1_BVCAC	C1_EFF_PRC	C1_F_ASGNPTP
C1_CASE_USR	C1_EFF_PRICE	C1_F_CHHSRCH
C1_CCC	C1_EFPRODSRC	C1_F_CIGG3V
C1_F_CLSRCH	C1_F_IGG1MM	C1_INF_PARTY
C1_F_CNCLMM	C1_F_IGG1MS	C1_INVCN
C1_F_CNCLMR	C1_F_IGG2MM	C1_INVSR
C1_F_CONTR	C1_F_IGG2MS	C1_LIST_TIER
C1_F_CON_VAL	C1_F_IGG3MM	C1_MEMBERS
C1_F_COPYPL	C1_F_IGG3MS	C1_MIG
C1_F_COPYSS	C1_F_PLCRT	C1_MIGAS
C1_F_CPYBNDL	C1_F_PLEDT	C1_MNG
C1_F_CPYPL	C1_F_PLVAL	C1_MNGRT
C1_F_CPYPLVL	C1_F_POPITEM	C1_MNGTR
C1_F_CUSSRCH	C1_F_PRCHAR	C1_MOD
C1_F_DELEXCH	C1_F_PRCHARS	C1_MPPA
C1_F_DELSCS	C1_F_PRDVL	C1_NAVIGATE
C1_F_DTVAL	C1_F_PRODVAL	C1_NAVUGATE
C1_F_EDTBNDT	C1_F_PRODVL1	C1_NEXT_ACTION
C1_F_EDTEXHR	C1_F_RSCDVAL	C1_OVR_PRITM
C1_F_EDTMA	C1_F_RTDESC	C1_PAYUP
C1_F_EDTMMBS	C1_F_SAVESCS	C1_PERRL
C1_F_EDTMMP	C1_F_SRPLVAL	C1_PLADPR

Application Service	Application Service	Application Service
C1_F_EDTMMSS	C1_F_VAL_ACT	C1_PLAE
C1_F_EDTPL	C1_F_VAL_ACTDTL	C1_PLASNADD
C1_F_EDTPR	C1_F_VAL_CHH	C1_PLASNEDIT
C1_F_EDTPROD	C1_F_VAL_CLDTL	C1_PLASN_ADD
C1_F_EDTPRPL	C1_F_VAL_CSTDTL	C1_PLASN_EDJ
C1_F_EDTPRSS	C1_F_VAL_CUS	C1_PLASSIGN
C1_F_EXCDVAL	C1_GENERICSA	C1_PLASSIGNE
C1_F_EXCHVAL	C1_GENRCMP	C1_PLCASSIGN
C1_F_EXHVAL	C1_GETTIER	C1_PLDISEDIT
C1_F_FH_VAL	C1_GRP	C1_PLEDIT
C1_F_FINHIS	C1_IGAI	C1_PLISTRCH
C1_F_FINHIS1	C1_IGIMM	C1_PLMNG
C1_F_GENACBO	C1_IGMMB	C1_PLPTYAINF
C1_PLPTYINFO	C1_PROD_ADD	C1_TXNAR
C1_PLSRCH	C1_PROD_EDIT	C1_VWPRD
C1_PLSTOGGLE	C1_PROD_SAVE	CHGTYPE
C1_PLVAL	C1_PROD_SRCH	CHGTYPECD
C1_PLVALIDAT	C1_PROVR_EDT	CIACNBTY
C1_PLVIEW	C1_PRZCR	CIAPAYSTGUPL
C1_PL_ADD	C1_PRZTR	CIAPPACCTYPE
C1_PL_EDIT	C1_PRZ_CR	CIAPPCRIT
C1_PL_PI	C1_PRZ_TR	CIAPPTXNRSN
C1_PMPRC	C1_PTPLA	CICHGTYPE
C1_POLICYTYPE	C1_RATE_DEF	CICPAYPLAN
C1_PPEDT	C1_RECTIFYSRCH	CIDIVPERREL
C1_PPOVR	C1_RLTPM	CIFILEGRP
C1_PPOVRSRCH	C1_RLTVW	CIGETPRICING
C1_PP_DSPINF	C1_RSLV	CILAADUP
C1_PP_PLVAL	C1_RSN	CILAASCP
C1_PRCAD	C1_RTCOM_ADD	CILAAUSP
C1_PRCE_VALD	C1_RTC_VAL	CILACCDEL

Application Service	Application Service	Application Service
C1_PRCPM	C1_RTOPT	CILACCR
C1_PRC_EDIT	C1_SAVE_TIER	CILACLCP
C1_PRC_OVRD	C1_SHOW_IMG	CILACTCT
C1_PRC_TR	C1_SRCH	CILBBICP
C1_PRC_VALID	C1_SRCHPL	CILBLLP
C1_PRDPERREL	C1_SRCHPLVAL	CILBMCRP
C1_PRDREL	C1_SRCHPPL	CILBSBHP
C1_PRICE	C1_SRCHPRD	CILBSCCP
C1_PRICEPARM	C1_SRCH_PROF	CILBSEGP
C1_PRIARMREFENT	C1_SRPROD	CILBSTMP
C1_PRITSRCH	C1_STRTOLIST	CILCAAHP
C1_PROD	C1_TEMPLATE	CILCAASP
C1_PRODPL	C1_TIER_INP	CILCACCP
C1_PRODVAL	C1_TRLBL	CILCACMP
CILCACRP	CILCSCVP	CILIBDQP
CILCALZP	CILCSCZP	CILIBTVP
CILCAMRP	CILCSPZP	CILICOEP
CILCBCUP	CILCSSQP	CILINDDP
CILCBPGP	CILCSVAP	CILINPFP
CILCBRWP	CILCWOFP	CILINVVP
CILCCIP	CILDATA	CILIPDQP
CILCCZP	CILDIVET	CILIPRDP
CILCCIZP	CILDIVEXT	CILIRDQP
CILCCNSP	CILDRVWP	CILIRDSP
CILCCNXP	CILECBLP	CILISATP
CILCCSCP	CILEFKRP	CILITDDP
CILCCSHP	CILEFLDP	CILITDQP
CILCCTXP	CILEMNUP	CILITMPP
CILCDCRP	CILEMOBP	CILITPDP
CILCENRP	CILENAVP	CILKTOSP
CILCFIZP	CILENVOP	CILLCARP

Application Service	Application Service	Application Service
CILCLOAP	CILERPTP	CILLCAZP
CILCNBBP	CILESVCP	CILLCLPP
CILCPABP	CILETBLP	CILLODPP
CILCPASP	CILEUIZP	CILLWOPP
CILCPERP	CILFAFHP	CILMITMP
CILCPIZP	CILFBLCP	CILMITRP
CILCPLAS	CILFBPHP	CILMMRSP
CILCPMPP	CILFDRR	CILMMSUP
CILCPPLP	CILFFNTP	CILMRBHP
CILCPPTMPL	CILFFTBP	CILMRTXP
CILCPREP	CILFFTPP	CILMSIHP
CILCPRMP	CILFMVTP	CILMSLIP
CILCQTEP	CILFSCAP	CILMSLOP
CILCSALP	CILFSFHP	CILMSMHP
CILCSCMP	CILGENACUR	CILMTRDP
CILOAPTP	CILQCASP	CILTASGP
CILODFAP	CILQTDGP	CILTATCP
CILOFACP	CILQTDGP	CILTATPP
CILOFAZP	CILQTDLP	CILTATYP
CILOFORP	CILQTDQP	CILTBCRP
CILOFOSP	CILQTDSP	CILTBCTP
CILOFSUP	CILQTDTP	CILTBFFP
CILOOTGP	CILQTDZP	CILTBFPV
CILOSFAP	CILQTSSP	CILTBIMP
CILPAPHP	CILQTSUP	CILTBLCB
CILPAPSP	CILRCMAP	CILTBLLP
CILPARTY	CILRENGP	CILTBKBP
CILPDCNP	CILRRSMP	CILTBRTB
CILPDCSP	CILRRTCP	CILTBSTP
CILPEPLP	CILRRTSP	CILTBTCB
CILPEQAP	CILRRTVP	CILTBTRP

Application Service	Application Service	Application Service
CILPEVTP	CILRRVMP	CILTBUDP
CILPIREL	CILRULE	CILTBXTP
CILPITXNREL	CILRULTP	CILTCAGP
CILPPAYP	CILSTEXT	CILTCAMP
CILPPCAN	CILSTEXTITEM	CILTCATP
CILPPTSP	CILTACRP	CILTCCCP
CILPQADP	CILTALGP	CILTCCNP
CILPRCITMREL	CILTALTP	CILTCCTP
CILPRICEASGN	CILTAMGP	CILTCETP
CILPRICECOMP	CILTAMTP	CILTCHTP
CILPRICMPTIER	CILTAPAP	CILTCIDP
CILPRITEM	CILTAPFP	CILTCLGP
CILPRLIST	CILTAPRP	CILTCLRP
CILPRLISTASGN	CILTAPSP	CILTCLWP
CILPTCNP	CILTAROP	CILTCNTP
CILQATDP	CILTARTP	CILTCOCP
CILTCPTP	CILTMHTP	CILTSCLP
CILTCQTP	CILTMMTP	CILTSCYP
CILTCRUP	CILTMMSGP	CILTSEVP
CILTCURP	CILTNBWP	CILTSICP
CILTCUSP	CILTNCDP	CILTSMIP
CILTDARP	CILTNUXP	CILTSMTP
CILTDASP	CILTOCRP	CILTSOMP
CILTDCAP	CILTOETP	CILTSOPP
CILTDCLP	CILTOPTP	CILTSPRP
CILDIRP	CILTORAP	CILTSPTP
CILTDPRP	CILTPCRP	CILTSQIP
CILTD RTP	CILTPCTP	CILTSQRP
CILDSTP	CILTPDRP	CILTSTMP
CILDWPP	CILTPHTP	CILTSTSP
CILDWTP	CILTPIFP	CILTSVTP

Application Service	Application Service	Application Service
CILTEBRP	CILTPKGP	CILTSWLP
CILTECRP	CILTPPTP	CILTTACP
CILTETTP	CILTPROP	CILTTAXP
CILTFNDP	CILTPRTP	CILTTGRP
CILTFREP	CILTPSDP	CILTTMRP
CILTFRQP	CILTPSTP	CILTTMTP
CILTGLDP	CILTPTRP	CILTTNSP
CILTGOTP	CILTPYTP	CILTTNTP
CILTIDTP	CILTQRTP	CILTTOUP
CILTINCP	CILTREGP	CILTTSCP
CILTINSP	CILTREPP	CILTTTMP
CILITISP	CILTRGLP	CILTTZNP
CILTLDIP	CILTRLEP	CILTUOMP
CILTLETP	CILTRSCP	CILTURPP
CILTLKFP	CILTRTYP	CILTUSCP
CILTLNGP	CILTSARP	CILTUSEP
CILTMCRP	CILTSATP	CILTUSGP
CILTWCTP	CILZFNCP	CTXTZONE
CILTWDCP	CILZPORP	DEMO
CILTWETP	CILZRBPP	DISAGGP
CILTWFPF	CILZRPHP	DIV_PRICEITEMS
CILTWPTP	CILZRPOP	DIV_PRICELISTS
CILTWSCP	CILZRPTP	F1-APAYEXPCRTYPEBOAS
CILTWSDP	CILZSCMP	F1-ATTACHMENTBOAS
CILTXNCD	CILZSCRP	F1-BKTCONFIG
CILTXNCDL	CILZSCZP	F1-BOOKMARKS
CILTXNSRC	CILZTLZP	F1-DECRPTBOAS
CILTXNSRCL	CILZZOHP	F1-DFLTAPS
CILUPFTS	CILZZONP	F1-DFLTS
CILVFVDP	CIL_FAVORITES	F1-EXPUSERSREQBOAS
CILVFVSP	CIPOLICY	F1-GENPROC

Application Service	Application Service	Application Service
CILVVLEP	CIPOLPERRL	F1-MIGROBJIMP
CILVVLSL	CIPOLPERROLE	F1-OBJREVBOAS
CILWDWNP	CIPRICEACCOUNT	F1-STASKTYPE
CILWJSDP	CIPRICEPARM	F1-SVCTASK
CILWJSSP	CIPYSRCH	F1-SYNCREQ
CILWNUPP	CIRATEUPLD	F1-SYNCREQIN
CILWNUSP	CIRECON	F1-SYNCREQUESTBOAS
CILWPROP	CIRECONDTL	F1-WEBSVCBOAS
CILXNDNP	CIS_DIV_ALGS	F1ADMIN
CILXOPTP	CIS_DIV_BICIES	F1ANN
CILXSENP	CIS_DIV_CST_LNGS	F1ANNTPM
CILYASTP	CIS_DIV_ID_TYPES	F1ANNTPS
CILYDBPP	CIS_DIV_INV_CURS	F1ANNTYP
CILYDFQP	CIS_DIV_TXN_SRCS	F1APPSEC
CILYDPIP	CIS_DIV_VLD_CTIES	F1ATTACH
CILYROBP	CIVARIANCE	F1ATTACHMENT
CILZAFQP	CMAGING	F1BKTCFG
CILZAUQP	CNCLRSN	F1BKTCFQ
F1BNDLEM	F1MIGRDIMP	FWLBNDLP
F1BNDLES	F1MIGRDS	FWLCTDEP
F1BNDLIM	F1MIGROBJ	FWLFACTP
F1BNDLIS	F1MIGRPLAN	FWLSTRJP
F1BUNEXP	F1MIGRREQ	FWLTBELP
F1BUNIMP	F1MIGRTIMP	FWLTBOJP
F1CATTCH	F1MIGRTX	FWLTBSVP
F1CONFIGLOG	F1MSTCFG	FWLTDARP
F1DEBUG	F1MTXIMP	FWLTEXSP
F1EXLKP	F1OBJREV	FWLTMGCT
F1EXLKPS	F1OBJREVCTL	FWLTOMTP
F1HEALTH	F1OBJRVH	FWLTSCHP
F1HGMAPPING	F1REQ	FWLTUIMP

Application Service	Application Service	Application Service
F1IWSANM	F1REQTYP	FWLXOUTP
F1IWSDDL	F1REXHST	FWLZDEXP
F1IWSVC	F1STRDIS	FWLZWLZP
F1IWSVCP	F1STREAS	GOTOREC
F1IWSVCS	F1SUBRQQ	PERTREE
F1LCAMRP	F1SYNCRM	POLICYCANRSN
F1LEXTLKUP	F1SYNCRQ	RECDTSTA
F1LTAMTP	F1TBLEXC	RECON
F1MESSAGE	F1UIZONE	RECONDTL
F1MGDEXP	F1USERLOG	SACHGLNK
F1MGDEXS	F1USRCHKOUT	SATYPCHG
F1MGDIMP	F1USRPTL	SATYPES
F1MGDIMS	F1WBSVCM	F1_USRSCR
F1MGOIMP	F1WBSVCS	FILETYPE
F1MGPLNM	F1WEBSVC	F1MGREQS
F1MGPLNS	F1_BTST	F1MIGRDEXP
F1MGREQM	F1_USRFAVSCH	C1PLASGNM
C1-USRLOGINDTLS	C1FLRQDT	C1REFUPLREQ
C1BCHGUPLREQ	C1GETELIGPT	C1UPLDRQ
C1BILLCYCLEUPDTUPL	C1GLAT	C1UPLREQ
C1CONTRIDERUPDTUPL	C1GLATEMP	C1WOUPLREQ
C1DCDTLC	C1GLATRQ	C1_STDTL
C1DELCTL	C1HOLDUPLREQ	C1_STRTE
C1ELGPA	C1LASGN	C1_STRTY
C1FILERQ	C1PIASGN	C1STMEXCP_SERV
REQ_TYP	ACRLSRCH	C1-ACCTECR
C1-CUSTINMSG	C1ADDRS	C1HCAPPSER
C1-DEALPRICING	C1ADDRSBO	C1HCBLDT
C1-FTDIST	C1ADDRSDP	C1HCSINF
C1-FTDISTRULE	C1ADDRSRC	C1INMSGP
C1-FTDISTTY	C1BK360	C1INMSRH

Application Service	Application Service	Application Service
C1-GENRQ	C1BKAPPSE	C1INMSTY
C1-INMSG	C1BKBLDT	C1PAREQ
C1-INMSGTYPE	C1BKSINF	C1PARQMN
C1-MEMBERINMSG	C1CUS360	C1PARQTY
C1-PROSPECTRET	C1DSPT	C1PAYMAN
C1ACCECR	C1DSPTRQ	C1PI
C1ACRLCL	C1DSPTRT	C1PL
C1ACRLTP	C1DSPTTY	C1POLPEL
C1ACRMVW	C1FTDIST	C1REINUPLREQ
C1ADDRDP	C1FTDSRL	C1_ACCRTYPE
C1ADDRDTL	C1FTDSTT	C1_ACCRUAL_SERV
C1ADDRESS	C1FTDSTY	C1_ACTVW
C1_ACTYP	C1_DSPT_REQ	ILM_ARC
C1_ACYVW	C1_TRLIN	

B.1.2 C1_BSERVICES

The following table lists all application services configured for the C1_BSERVICES user group:

Application Service	Application Service	Application Service
AFHZONE	C1-PIFVIS	C1AGING
APPTXADM	C1-PINFRDISP	C1APPBOCHNZN
ARUNTEST	C1-PINVFPOST	C1APPCHN
BILLGCONS	C1-POINFRDET	C1APPCRT
BILLGRAPH	C1-POLICY	C1APPRESP
C1-ACCBALCNT	C1-POLICYINVOICEFREQ	C1APPTXNBOCHN
C1-ACCNBRTYPAS	C1-POLINVDETZ	C1APPTXNBOCHNZN
C1-ADJAPPRVLREQBOAS	C1-POLINVFRE	C1APPTXNCHAIN
C1-APAYEXPCRREQBOAS	C1-POLINVFREZ	C1APPTXNCRI
C1-APAYEXPCRTYPEBOAS	C1-POLINVFRQ	C1APPTXNCRT
C1-APAY_STG_UP	C1-PRISIM	C1APPTXNGRP
C1-APPRSN	C1-REFWOREQ	C1APROF

Application Service	Application Service	Application Service
C1-APPTXN	C1-REGENUI	C1BILLTD
C1-APPTXNLOG	C1-REQUEST	C1BNKREC
C1-ASAPU	C1-REQUEST-TYPE	C1BOCHN
C1-ASGNPL	C1-RULEBOAS	C1CASEG
C1-BRD	C1-SRCHSCPT	C1CASETYPEMP
C1-CASEASGNSRV	C1-TXNAGG	C1CHECKFT
C1-CASEGRPSRV	C1-TXNDTL	C1COLDTL
C1-CONSVPROGBOAS	C1-TXNREC	C1COLLTYP
C1-CONTRACTTYPECHARS	C1-TXNSRC	C1COLTYP
C1-CTCGSRV	C1-WRITEOFFREQ	C1CPROG
C1-GETEFFECTVPRICING	C1ACCRATE	C1CSTYSR
C1-GETPRICING	C1ACMACT	C1DISAGR
C1-MAINPINFR	C1ACTCAT	C1EXCHRT
C1-OUTAGE	C1ACTPER	C1FLGRP
C1-PAY-REQ	C1ACTREE	C1FLRQTY
C1-PAYTEMPLATEBOAS	C1ACTYRSTY	C1FLSRCH
C1-PERBALCNT	C1ADJSTP	C1IRSPP
C1-PERIDSER	C1ADJUPL	C1MANAPP
C1MANLOG	C1REQTYP	C1_ANSPLTCUS
C1MANMOD	C1RFWORT	C1_APCS
C1MANRES	C1RLCHK	C1_APPAD
C1NCISPY	C1RSTCAT	C1_APPTXN_PRICEASGN
C1NCPTMP	C1SACCOLLECT	C1_APPWF
C1ODBUPR	C1SACTHI	C1_APUR
C1PASGAPPROVE	C1SCHEDU	C1_APVIG
C1PASGREADMODIFY	C1SCHTMP	C1_ASNPL
C1PASGREADRESOLVE	C1SETTHR	C1_AUDIT
C1PAYMAN	C1SRCHRL	C1_BACCGRVAL
C1PAYPTL	C1TXNAGG	C1_BACCTDETL
C1PAYREQ	C1TXNAGGRUL	C1_BACCVALID
C1PAYRQ	C1TXNDTL	C1_BACTSRCHM

Application Service	Application Service	Application Service
C1PAYSRC	C1TXNFD	C1_BAFH
C1PAYUPL	C1TXNSRC	C1_BAFHZ
C1POINFR	C1TXRTFM	C1_BCCSH
C1PPCARS	C1UNAPPR	C1_BCONT
C1PRESTGDTLS	C1VAR	C1_BCON_INFO
C1PRISIM	C1VIEWRL	C1_BCON_SRH
C1PRODUCT	C1WODET	C1_BCUSACCDT
C1PROFILESRVC	C1_ACCNBALG	C1_BCUSACCSR
C1PSNAPP	C1_ACCNBRTYP	C1_BCUSGRVAL
C1PSNMOD	C1_ACCTCHAR	C1_BCUSSRCHM
C1PSNRES	C1_ACDTLRCH	C1_BCUSTACDT
C1PTNDRH	C1_ACMM	C1_BCUSVALID
C1PTPLP	C1_ACMS	C1_BDTLSRCHM
C1PYRQTY	C1_ADDEXH	C1_BFHIS
C1REFSTP	C1_ADDPL	C1_BFH_SRH
C1REFUND	C1_ADDPROD	C1_BNDMN
C1REQSTP	C1_ADD_RTCMP	C1_BNDPRD
C1REQSTS	C1_ADD_TIER	C1_BNDPRS
C1REQTYP	C1_ADMPI	C1_F_ADVAL
C1_BO_OPT	C1_DIVPERREL	C1_F_APVDTVL
C1_BPAYHSRCH	C1_DSPY_RT	C1_F_APVNFLT
C1_BPH_INFO	C1_EDIT	C1_F_APVRJS
C1_BPYHS	C1_EDTBD	C1_F_ASGNCUS
C1_BRD_P	C1_EDTBUND	C1_F_ASGNPTP
C1_BSRCHOVRD	C1_EDTER	C1_F_CHHSRCH
C1_BSRPT	C1_EDTPL	C1_F_CIGG3V
C1_BTOGGLECA	C1_EDTPROD	C1_F_CNCLMM
C1_BTREESRCH	C1_EDT_PRITM	C1_F_CNCLMR
C1_BTST	C1_EFF_PRC	C1_F_CONTR
C1_BUNDLE	C1_EFF_PRICE	C1_F_CON_VAL
C1_BUNDVAL	C1_EFPRODSRC	C1_F_COPYPL

Application Service	Application Service	Application Service
C1_BVCAC	C1_EXCHRT	C1_F_COPYSS
C1_CHKBIL_PA	C1_EXHRT	C1_F_CPYBN DL
C1_CHKTRDFLG	C1_EXPPITM	C1_F_CPYPL
C1_CIAM	C1_FEED	C1_F_CPYPLVL
C1_CIGAS	C1_FTRS	C1_F_CUSSRCH
C1_COLLN	C1_F_ACTSRCH	C1_F_DELEXCH
C1_COLL_NZN	C1_F_ADDBN DT	C1_F_DELS CS
C1_COM_VALID	C1_F_ADDCH LD	C1_F_DTVAL
C1_COPYBND	C1_F_ADDEX CH	C1_F_EDTBN DT
C1_COPYPL	C1_F_ADDMM	C1_F_EDTEX HR
C1_CPBUNDL	C1_F_ADDMM SS	C1_F_EDTMA
C1_CPYBD	C1_F_ADDPL	C1_F_EDTMM BS
C1_CPYPL	C1_F_ADDPR BD	C1_F_EDTM MP
C1_CUSTINFO	C1_F_ADDPR D	C1_F_EDTMM SS
C1_CUST_HR	C1_F_ADDPR PL	C1_F_EDTPL
C1_DEGREE	C1_F_ADDPR SS	C1_F_EDTP R
C1_DEL_PRD	C1_F_ADDRA TE	C1_F_EDTPRO D
C1_DEL_PROD	C1_F_ADMPRO D	C1_F_EDTPR PL
C1_DISP BUND	C1_F_ADPROD	C1_PLASSIGN E
C1_F_EDTPRSS	C1_GENRCMP	C1_PLCASSIGN
C1_F_EXCDVAL	C1_GETTIER	C1_PLDISEDIT
C1_F_EXCHVAL	C1_GRP	C1_PLEDIT
C1_F_EXHVAL	C1_IGAI	C1_PLISTSRCH
C1_F_FH_VAL	C1_IGIMM	C1_PLMNG
C1_F_FINHIS	C1_IGMMB	C1_PLPTYAINF
C1_F_FINHIS1	C1_INF_PARTY	C1_PLPTYINFO
C1_F_GENACBO	C1_INV CN	C1_PLSRCH
C1_F_IGG1MM	C1_INVSR	C1_PLSTOGGLE
C1_F_IGG1MS	C1_LIST_TIER	C1_PLVAL
C1_F_IGG2MM	C1_MEMBERS	C1_PLVALIDAT
C1_F_IGG2MS	C1_MIG	C1_PLVIEW

Application Service	Application Service	Application Service
C1_F_IGG3MM	C1_MIGAS	C1_PL_ADD
C1_F_IGG3MS	C1_MNG	C1_PL_EDIT
C1_F_PLCRT	C1_MNGRT	C1_PL_PI
C1_F_PLEDT	C1_MNGTR	C1_PMPRC
C1_F_PLVAL	C1_MOD	C1_PPEDT
C1_F_POPITEM	C1_MPPA	C1_PPOVR
C1_F_PRCHAR	C1_NAVIGATE	C1_PPOVRSRCH
C1_F_PRCHARS	C1_NAVUGATE	C1_PP_DSPINF
C1_F_PRDVL	C1_OVR_PRITM	C1_PP_PLVAL
C1_F_PRODVAL	C1_PAYUP	C1_PRCAD
C1_F_PRODVL1	C1_PAY_BTN	C1_PRCE_VALD
C1_F_RSCDVAL	C1_PERRL	C1_PRCPM
C1_F_RTDESC	C1_PLADPR	C1_PRC_EDIT
C1_F_SAVESCS	C1_PLAE	C1_PRC_OVRD
C1_F_SRPLVAL	C1_PLASNADD	C1_PRC_TR
C1_F_VAL_ACT	C1_PLASNEDIT	C1_PRC_VALID
C1_F_VAL_ACTDTL	C1_PLASN_ADD	C1_PRDPERREL
C1_F_VAL_CHH	C1_PLASN_EDI	C1_PRDREL
C1_F_VAL_CUS	C1_PLASSIGN	CILACTTY
C1_PRICE	C1_SRCHPLVAL	CILBBICP
C1_PRICEPARM	C1_SRCHPPL	CILBLLP
C1_PRITSRCH	C1_SRCHPRD	CILBSBHP
C1_PROD	C1_SRCH_PROF	CILBSCCP
C1_PRODPL	C1_SRCH_TEMP	CILBSEGP
C1_PRODVAL	C1_SRPROD	CILBSTMP
C1_PROD_ADD	C1_STRTOLIST	CILCAASP
C1_PROD_EDIT	C1_TEMPLATE	CILCACCP
C1_PROD_SAVE	C1_TIER_INP	CILCACMP
C1_PROD_SRCH	C1_TRLBL	CILCALZP
C1_PROVR_EDT	C1_TXNAR	CILCAMRP
C1_PRZCR	C1_VWPRD	CILCASEXTN

Application Service	Application Service	Application Service
C1_PRZTR	CIACNBTY	CILCBCUP
C1_PRZ_CR	CIACTTYP	CILCBRWP
C1_PRZ_TR	CIAPAYSTGUPL	CILCCCIP
C1_PTPLA	CIAPPACCTYPE	CILCCCZP
C1_PYHST	CIAPPACTTYPE	CILCCIZP
C1_RATE_DEF	CIAPPHELGBL	CILCCNSP
C1_RECTIFYSRCH	CIAPPCRIT	CILCCNXP
C1_RLTPM	CIAPPTXNCHAIN	CILCCSCP
C1_RLTVW	CIAPPTXNRSN	CILCCSHP
C1_RSLV	CIDIVPERREL	CILCCTXP
C1_RSN	CIDIVPRITMPERREL	CILCENRP
C1_RTCOM_ADD	CIFILEGRP	CILCFIZP
C1_RTC_VAL	CIGETPRICING	CILCONPREF
C1_RTOPT	CILAADUP	CILCERP
C1_RTSC	CILAASCP	CILCPLAS
C1_SAVE_TIER	CILAAUSP	CILCPPLP
C1_SHOW_IMG	CILACLCP	CILCPRMP
C1_SRCH	CILACTCT	CILCQTEP
C1_SRCHPL	CILACTHI	CILQATDP
CILCSALP	CILICOEP	CILQCASP
CILCSESA	CILITDDP	CILQTDEP
CILCSSEP	CILITDQP	CILQTDLP
CILCSVAP	CILITPDP	CILQTDQP
CILDATA	CILLCAZP	CILQTDSP
CILDIVET	CILLODPP	CILQTDTP
CILDIVEXT	CILMRBHP	CILQTDZP
CILDRVWP	CILPAPHP	CILQTSSP
CILECBLP	CILPAPSP	CILQTSUP
CILEFKRP	CILPARTY	CILRCMAP
CILEFLDP	CILPDCNP	CILRENGP
CILEMNUP	CILPDCSP	CILRRSMP

Application Service	Application Service	Application Service
CILEMOBP	CILPEPLP	CILRRTCP
CILEMPDTLS	CILPEQAP	CILRRTSP
CILENAVP	CILPEVTP	CILRRTVP
CILENVOP	CILPICHAR	CILRRVMP
CILERPTP	CILPIDIV	CILRSCAT
CILESVCP	CILPILANG	CILRSTTY
CILETBLP	CILPIREL	CILRULE
CILEUIZP	CILPITXNREL	CILRULTP
CILEXCHRATE	CILPPAYP	CILSCHEDULE
CILFAFHP	CILPPCAN	CILTACRP
CILFBLCP	CILPPTSP	CILTALGP
CILFFEXP	CILPQADP	CILTALTP
CILFFNTP	CILPRCITMREL	CILTAMGP
CILFFTBP	CILPRICELISTCHAR	CILTAMTP
CILFFTPP	CILPRITEM	CILTAPAP
CILFLGRP	CILPRLIST	CILTAPFP
CILFMVTP	CILPRLISTDIV	CILTAPRP
CILFSFHP	CILPRLISTL	CILTAPSP
CILIBTVP	CILPTCNP	CILTNGP
CILTAROP	CILTCPRP	CILTMCRP
CILTARTP	CILTCQTP	CILTMHTP
CILTASGP	CILTCRUP	CILTMMSGP
CILTATCP	CILTCURP	CILTnbrp
CILTATPP	CILTCUSP	CILTncdp
CILTATYP	CILTCVTP	CILTnuxp
CILTBCRP	CILTDARP	CILTOCRP
CILTBCTP	CILTDASP	CILTOETP
CILTBFFP	CILTDCAP	CILTOPTP
CILTBFVP	CILTDCLP	CILTORAP
CILTBIMP	CILTDIRP	CILTPCRP
CILTBLCP	CILTDLOP	CILTPCTP

Application Service	Application Service	Application Service
CILTBLLP	CILTDPRP	CILTPDRP
CILTBKNP	CILTDSTP	CILTPHTP
CILTBRTP	CILTDWPP	CILTPKGP
CILTBSTP	CILTDWTP	CILTPMDP
CILBTCP	CILTEBRP	CILTPPTP
CILBTRP	CILTECRP	CILTPROP
CILBUDP	CILTETTP	CILTPRTP
CILBXTP	CILFAAP	CILTPSDP
CILCAMP	CILFNNDP	CILTPSTP
CILCATP	CILFRQP	CILPTRP
CILCCCP	CILFWLP	CILTPYTP
CILCCTP	CILGLDP	CILTQRTP
CILCHTP	CILIDTP	CILTRGLP
CILCIDP	CILINCP	CILTRLEP
CILCLGP	CILINSP	CILTRSCP
CILCLWP	CILITTP	CILTRTYP
CILCNTP	CILLDIP	CILTSATP
CILCOCP	CILTLETP	CILTSCLP
CILCOTP	CILTLKFP	CILXJSVP
CILTSCYP	CILTWSDP	CILXNDNP
CILSICP	CILTXNDETAIL	CILXOPTP
CILSOMP	CILTXNDISAGGEXC	CILXRCVP
CILSOPP	CILTXNDISAGGREQ	CILXRTP
CILTSQIP	CILTXNHEADER	CILXSENP
CILTSQRP	CILTXNRECTYPE	CILXSVXP
CILTSVTP	CILTXNSOURCE	CILXTPCP
CILTSWLP	CILTXNSRC	CILXXSCP
CILTTACP	CILTXNSRCD	CILXXUPP
CILTTAXP	CILTXNSRCL	CILYASTP
CILTTGRP	CILUPFTS	CILYDBPP
CILTTMRP	CILVFVDP	CILYDFQP

Application Service	Application Service	Application Service
CILTTMTP	CILVFPSP	CILYDPIP
CILTTNSP	CILVVLEP	CILYENRP
CILTTNTP	CILVVLSP	CILYROBP
CILTTOUP	CILWDWNP	CILZAFQP
CILTTRAP	CILWJSDP	CILZAUQP
CILTTRCP	CILWJSSP	CILZFNCP
CILTTTTP	CILWNUPP	CILZPGRP
CILTTZNP	CILWNUSP	CILZRBPP
CILTUOMP	CILWPROP	CILZRPHP
CILTURPP	CILXADPP	CILZRPOP
CILTUSCP	CILXAIEP	CILZSCMP
CILTUSEP	CILXAIEP	CILZSCRCP
CILTUSGP	CILXCLSP	CILZSCZP
CILTWCTP	CILXCONP	CILZTLZP
CILTWDCP	CILXENHP	CILZZOHP
CILTWETP	CILXFRMP	CILZZONP
CILWFPP	CILXGRPP	CIL_FAVORITES
CILTWPTP	CILXJDBP	CIMOAPPCHAIN
CILTWSCP	CILXJMSP	F1MIGRTIMP
CIPCHT3L	F1-WEBSVCBOAS	F1MIGRTX
CIPFAFHP	F1ADMIN	F1MTXIMP
CIPOLICY	F1APPSEC	F1OBJREVCTL
CIPRICEACCOUNT	F1ATTACH	F1OBJRVH
CIPRICEPARM	F1ATTACHMENT	F1REQ
CIPYSRCH	F1BUNEXP	F1REVHST
CIRECON	F1BUNIMP	F1STRDIS
CIRECONSEG	F1CATTCH	F1STREAS
CIRSTTYP	F1CONFIGLOG	F1SUBRQQ
CIS_DIV_ALGS	F1DEBUG	F1SYNCRM
CIS_DIV_BICIES	F1EXLKP	F1SYNCRQ
CIS_DIV_CST_LNGS	F1EXLKPS	F1TBLEXC

Application Service	Application Service	Application Service
CIS_DIV_ID_TYPES	F1LCAMRP	F1UIZONE
CIS_DIV_INV_CURS	F1LEXTLKUP	F1USERLOG
CIS_DIV_TXN_SRCS	F1LTAMTP	F1USRCHKOUT
CIS_DIV_VLD_CTIES	F1MESSAGE	F1WBSVCM
CTXTZONE	F1MGDEXP	F1WBSVCS
DIVS	F1MGDEXS	F1WEBSVC
DIV_PRICEITEMS	F1MGDIMP	F1_BTST
DIV_PRICELISTS	F1MGDIMS	F1_USRFAVSCH
F1-APAYEXPCRTYPEBOAS	F1MGOIMP	FILETYPE
F1-ATTACHMENTBOAS	F1MGPLNM	FWLBNLDP
F1-DFLTAPS	F1MGPLNS	FWLCTDEP
F1-DFLTS	F1MGREQM	FWLFACTP
F1-GENPROC	F1MGREQS	FWLSTRJP
F1-MIGROBJIMP	F1MIGRDEXP	FWLTBELP
F1-STASKTYPE	F1MIGRDIMP	FWLTBOJP
F1-SVCTASK	F1MIGRDS	FWLTBSVP
F1-SYNCREQ	F1MIGROBJ	FWLTDARP
F1-SYNCREQIN	F1MIGRPLAN	GOTOREC
F1-SYNCREQUESTBOAS	F1MIGRREQ	PERTREE
FWLTEXSP	FWLXOUTP	VALIDCHARS
FWLTMGCT	FWLZDEXP	C1LASGN
FWLTOMTP	FWLZWLZP	C1PIASGN
FWLTSCHP	FWLTUIMP	C1PLASGNM
C1-BILLCHARGE	C1ELGPA	C1REFUPLREQ
C1BCHGUPLREQ	C1GETELIGPT	C1UPLDRQ
C1BILLCYCLEUPDTUPL	C1GLAT	C1UPLREQ
C1CONTRIDERUPDTUPL	C1GLATEMP	C1WOUPLREQ
C1DCDTLC	C1GLATRQ	C1_STRTE
C1DELCTL	C1HOLDUPLREQ	CILCPASP
ACRLSRCH	C1ADDRESS	C1DSPT
C1-ACCTECL	C1ADDRS	C1DSPTRQ

Application Service	Application Service	Application Service
C1-FTDIST	C1ADDRSBO	C1DSPTRT
C1-FTDISTRULE	C1ADDRSDP	C1DSPTTY
C1-FTDISTTY	C1ADDRSRC	C1FTDIST
C1-PROSPECTCRET	C1BK360	C1FTDSRL
C1ACCECR	C1BKAPPSER	C1FTDSTT
C1ACRLCL	C1BKBLDT	C1FTDSTY
C1ACRLTP	C1BKSINF	C1HCSINF
C1ACRMVW	C1PL	C1_ACTVW
C1ADDRDP	C1SAPPTM	C1_ACTYP
C1ADDRDTL	C1_ACCRUAL_SERV	C1_TRLIN
C1_ACYVW	C1_DSPT_REQ	F1-ARQPR
F1-AVALG	F1-LKPIL	F1-SICRL
F1-AVBT	F1-MGDIM	F1-SRCRL
F1-AVMO	F1-MGDPR	F1-SRLRQ
F1-AVTBL	F1-MGOAP	F1-STATSM
F1-AVTD	F1-MGOPR	F1-STCRL
F1-BFCRL	F1-MGTAP	F1-STKDF
F1-BSFLG	F1-MGTPR	F1-STKTR
F1-BUNPR	F1-NDPUR	F1-SUBRQ
F1-DTDOM	F1-ORCRL	F1-SYNEF
F1-FCTRN	F1-OUCL	F1-SYNIL
F1-FKVBP	F1-PDBEX	F1-SYNRQ
F1-FLUSH	F1-PDBG	F1-SYSRQ
F1-ILMIN	F1-REQTY	F1-TDCRL
F1-LANG	F1-REVPR	F1-TDEER
F1-LDAP	F1-SAKRQ	F1-TDPG
F1-XMLPG		

B.1.3 HCADMIN

The following table lists all application services configured for the HCADMIN user group:

Application Service	Application Service	Application Service
AFHZONE	C1-INS-POLICY	C1-SRCHSCT
APPTXADM	C1-INSDETBAK	C1-UNLINK
BILLGCONS	C1-MAINPINFR	C1-UNLINKPP
BILLGRAPH	C1-MEMBSP	C1-UPLOADCSV
C1-ACCBALCNT	C1-NAVACTCUR	C1-WRITEOFFREQ
C1-ACCCURDET	C1-NAVTOEXST	C1ACCRATE
C1-ACCDISCREZ	C1-PAY-REQ	C1ACINSP
C1-ACCURTEXT	C1-PAYMENT	C1ACTPER
C1-ACNPOLSUMZ	C1-PAYTEMPLATEBOAS	C1ACTREE
C1-ACPOLSUMMZ	C1-PERBALCNT	C1ADJSTP
C1-ADJAPPRVLREQBOAS	C1-PIFVIS	C1ADJUPL
C1-APAYEXPCRREQBOAS	C1-PINFRDISP	C1APPBOCHNZN
C1-APAYEXPCRTYPEBOAS	C1-PINVFPOST	C1APPCHN
C1-APPRSN	C1-POINFRDET	C1APPCRT
C1-APPTXN	C1-POLICYINVOICEFREQ	C1APPRESP
C1-APPTXNLOG	C1-POLICYPLAN	C1APPTXNBOCHN
C1-ASAPU	C1-POLINVDETZ	C1APPTXNBOCHNZN
C1-ASGNPL	C1-POLINVEDI	C1APPTXNCHAIN
C1-BILLCHARGE	C1-POLINVFRE	C1APPTXNCRI
C1-BRD	C1-POLINVFREZ	C1APPTXNCRT
C1-CNTRTPPTZ	C1-POLINVFRQ	C1APPTXNGRP
C1-CONTRACTCHARSVALI	C1-PPACCTSRC	C1BOCHN
C1-CONTRACTTYPECHARS	C1-PPPROC	C1FLRQTY
C1-DEFAULTPP	C1-PPTERROR	C1FLSRCH
C1-DFLTPTTMP	C1-QUICKPAGINATION	C1INSPAY
C1-DRRDTLSZ	C1-REFWOREQ	C1MANAPP
C1-DUPBTN	C1-REQUEST-TYPE	C1MANLOG

Application Service	Application Service	Application Service
C1-GETADJ	C1-RETURNDUP	C1MANMOD
C1-GETEFFECTVPRICING	C1-REVRECSCHZ	C1MANRES
C1-GETPPTMPL	C1-SHDETAILSZ	C1MEMBRS
C1MEMBSP	C1PTPLP	C1_BRD_P
C1NCISPY	C1PYRQTY	C1_BUNDLE
C1NCPTMP	C1REFSTP	C1_CHKBIL_PA
C1ODBUPR	C1REFUND	C1_CHKTRDFLG
C1PASGAPPROVE	C1REQSTS	C1_CIGAS
C1PASGREADMODIFY	C1REQTYP	C1_CIMAPZ
C1PASGREADRESOLVE	C1RFWORT	C1_COM_VALID
C1PAYMAN	C1SAPPTM	C1_COPYPL
C1PAYPTL	C1SATYPELISTZ	C1_CPBUNDL
C1PAYREQ	C1SCHEDU	C1_CPYPL
C1PAYRQ	C1VAR	C1_CUSTINFO
C1PAYSRC	C1WODET	C1_DEL_PRD
C1PAYUPL	C1_ADDEXH	C1_DEL_PROD
C1PERRL	C1_ADDPL	C1_DISPBOUND
C1PLCYPL	C1_ADDPROD	C1_DRRSR
C1PLCYPN	C1_ADD_RTCMP	C1_DSPLY_RT
C1PLCYTY	C1_ADD_TIER	C1_EDTBUND
C1POINFR	C1_ADMPI	C1_EDTER
C1POLACL	C1_ANSPLTCUS	C1_EDTPL
C1POLCYN	C1_APCS	C1_EDTPROD
C1POLCYP	C1_APPAD	C1_EDT_PRITM
C1POLPEL	C1_APPTXN_PRICEASGN	C1_EFF_PRC
C1POLSCH	C1_APPWF	C1_EFF_PRICE
C1POLSRCH	C1_APUR	C1_EFPRODSRC
C1POLTYP	C1_APVIG	C1_EXCHRT
C1PPCARS	C1_ASNPL	C1_EXHRT
C1PPDUP	C1_BACCGRVAL	C1_EXPPITM
C1PRISIM	C1_BAFHZ	C1_FTRS
C1PRODUCT	C1_BFHIS	C1_F_ADDCHLD
C1PSNAPP	C1_BNDMN	C1_F_ADDEXCH

Application Service	Application Service	Application Service
C1PSNMOD	C1_BNDPRD	C1_F_ADDPL
C1PSNRES	C1_BNDPRS	C1_F_ADDPRD
C1PTNDRH	C1_BO_OPT	C1_F_ADDPRPL
C1_F_ADDPRSS	C1_F_IGG2MS	C1_OVR_PRITM
C1_F_ADDRATE	C1_F_IGG3MM	C1_PAYUP
C1_F_ADMPROD	C1_F_IGG3MS	C1_PCUSSRCH
C1_F_ADPROD	C1_F_PERSRCH	C1_PLADPR
C1_F_APVDTVL	C1_F_PLCRT	C1_PLAE
C1_F_APVNFLT	C1_F_PLEDT	C1_PLASNADD
C1_F_ASGNCUS	C1_F_PLVAL	C1_PLASNEDIT
C1_F_ASGNPTP	C1_F_POPITEM	C1_PLASN_ADD
C1_F_CIGG3V	C1_F_PRCHAR	C1_PLASN_EDI
C1_F_COPYPL	C1_F_PRCHARS	C1_PLASSIGN
C1_F_CPYBNDL	C1_F_PRDVL	C1_PLASSIGNE
C1_F_CPYPL	C1_F_PRODVAL	C1_PLCASSIGN
C1_F_CPYPLVL	C1_F_PRODVL1	C1_PLEDIT
C1_F_CUSSRCH	C1_F_RSCDVAL	C1_PLISTSRCH
C1_F_DELEXCH	C1_F_RTDESC	C1_PLMNG
C1_F_DELSCS	C1_F_SAVESCS	C1_PLPTYAINF
C1_F_DTVAL	C1_F_SRPLVAL	C1_PLPTYINFO
C1_F_EDTEXHR	C1_F_VAL_CUS	C1_PLSRCH
C1_F_EDTMMP	C1_GENERICSA	C1_PLSTOGGLE
C1_F_EDTPL	C1_GENRCMP	C1_PLVAL
C1_F_EDTPR	C1_GETTIER	C1_PLVALIDAT
C1_F_EDTPROD	C1_GRP	C1_PLVIEW
C1_F_EDTPRPL	C1_IGMMB	C1_PL_ADD
C1_F_EDTPRSS	C1_INF_PARTY	C1_PL_EDIT
C1_F_EXCDVAL	C1_INVC	C1_PL_PI
C1_F_EXCHVAL	C1_LIST_TIER	C1_PMPRC
C1_F_EXHVAL	C1_MIG	C1_POLICYTYPE
C1_F_GENACBO	C1_MIGAS	C1_PPEDT

Application Service	Application Service	Application Service
C1_F_IGG1MM	C1_MNGRT	C1_PPOVR
C1_F_IGG1MS	C1_MNGTR	C1_PPOVRSRCH
C1_F_IGG2MM	C1_MPPA	C1_PP_DSPINF
C1_PP_PLVAL	C1_SRCHPL	CILBSBHP
C1_PRCAD	C1_SRCHPLVAL	CILBSCCP
C1_PRCE_VALD	C1_SRCHPPL	CILBSEGP
C1_PRCPM	C1_SRCHPRD	CILBSTMP
C1_PRC_EDIT	C1_SRCH_PROF	CILCAAHP
C1_PRC_OVRD	C1_SRPROD	CILCAASP
C1_PRC_TR	C1_STRTOLIST	CILCACCP
C1_PRC_VALID	C1_TEMPLATE	CILCALZP
C1_PRDREL	C1_TIER_INP	CILCAMRP
C1_PRICEPARM	C1_VWPRD	CILCBCUP
C1_PRITSRCH	CHGTYPE	CILCCCIP
C1_PROD	CHGTYPECD	CILCCCZP
C1_PRODPL	CIACNBTY	CILCCIZP
C1_PROD_ADD	CIAPAYSTGUPL	CILCCNSP
C1_PROD_EDIT	CIAPPACCTYPE	CILCCNXP
C1_PROD_SRCH	CIAPPHELGBL	CILCCSCP
C1_PROVR_EDT	CIAPPCRIT	CILCCSHP
C1_PRZCR	CIAPPTXNCHAIN	CILCCTXP
C1_PRZTR	CIAPPTXNRSN	CILCFIZP
C1_PRZ_CR	CICASE	CILCPERP
C1_PRZ_TR	CICASECREATE	CILCPLAS
C1_PTPLA	CICHGTYPE	CILCPPLP
C1_RATE_DEF	CICREATEPAYMENTS	CILCPRMP
C1_RECTIFYSRCH	CIGETPRICING	CILCSALP
C1_RSN	CILAADUP	CILCSSEP
C1_RTCOM_ADD	CILAASCP	CILCSVAP
C1_RTC_VAL	CILAAUSP	CILDATA
C1_RTOPT	CILACCDEL	CILDIVET

Application Service	Application Service	Application Service
C1_SAVE_TIER	CILACLCP	CILDIVEXT
C1_SHOW_IMG	CILBBICP	CILECBLP
C1_SRCH	CILBBLLP	CILEFKRP
CILEFLDP	CILPILANG	CILRRVMP
CILEMNUP	CILPIREL	CILSACHG
CILEMOBP	CILPITXNREL	CILTACRP
CILENAVP	CILPOLMO	CILTALGP
CILENVOP	CILPPAYP	CILTALTP
CILERPTP	CILPPCAN	CILTAMGP
CILESVCP	CILPPTSP	CILTAMTP
CILETBLP	CILPQADP	CILTAPAP
CILEUIZP	CILPRCITMREL	CILTAPFP
CILEXCHRATE	CILPRICELISTCHAR	CILTAPSP
CILFAFHP	CILPRITEM	CILTAROP
CILFBLCP	CILPRLIST	CILTARTP
CILFBPHP	CILPRLISTDIV	CILTASGP
CILFDRR	CILPRLISTL	CILTATCP
CILFFNTP	CILPTCNP	CILTATPP
CILFFTBP	CILQATDP	CILTATYP
CILFFTPP	CILQCASP	CILTBCRP
CILFLGRP	CILQTDEP	CILTBCTP
CILFMVTP	CILQTDLP	CILTBFFP
CILFSFHP	CILQTDQP	CILTBFVP
CILITPDP	CILQTDSP	CILTBIMP
CILLODPP	CILQTDTP	CILTBLCP
CILPAPHP	CILQTDZP	CILTBLLP
CILPAPSP	CILQTSSP	CILTBNKP
CILPDCNP	CILQTSUP	CILTBTRP
CILPDCSP	CILRCMAP	CILTBSTP
CILPEPLP	CILRENGP	CILBTCP
CILPEQAP	CILRRSMP	CILBTTRP

Application Service	Application Service	Application Service
CILPEVTP	CILRRTCP	CILTBXTP
CILPICHAR	CILRRTSP	CILTCAMP
CILPIDIV	CILRRTVP	CILTCATP
CILTCCCP	CILTITTP	CILTSARP
CILTCCTP	CILTLDIP	CILTSATP
CILTCHTP	CILTLETP	CILTSCLP
CILTCIDP	CILTLKFP	CILTSCYP
CILTCLGP	CILTNGP	CILTSICP
CILTCLRP	CILTMCRP	CILTSOMP
CILTCLWP	CILTMHTP	CILTSOPP
CILTCNTP	CILTMSGP	CILTSQIP
CILTCOCP	CILTNUXP	CILTSQRP
CILTCQTP	CILTOCRP	CILTSTMP
CILTCURP	CILTOETP	CILTSVTP
CILTCUSP	CILTOPTP	CILTSWLP
CILTDARP	CILTORAP	CILTTACP
CILTDASP	CILTPCRP	CILTTAXP
CILTDCAP	CILTPCTP	CILTTGRP
CILTDCLP	CILTPDRP	CILTTMRP
CILTDIRP	CILTPHTP	CILTTMTP
CILTDPRP	CILTPIFP	CILTTNSP
CILTDSTP	CILTPKGP	CILTTNTP
CILTDWPP	CILTPMDP	CILTToup
CILTDWTP	CILTPPTP	CILTTTRAP
CILTEBRP	CILTPRTP	CILTTTMP
CILTECRP	CILTPSDP	CILTTZNP
CILTETTP	CILTPSTP	CILTUOMP
CILTFNDP	CILTPTRP	CILTURPP
CILTFRQP	CILTPYTP	CILTUSCP
CILTFWLP	CILTQ RTP	CILTUSEP
CILTGLDP	CILTRGLP	CILTUSGP

Application Service	Application Service	Application Service
CILTIDTP	CILTRLEP	CILTWCTP
CILTINCP	CILTRSCP	CILTWDCP
CILTINSP	CILTRTYP	CILTWETP
CILWFPP	CILXOPTP	CISATYCHG
CILTWPTP	CILXRCVP	CTXTZONE
CILTWSCP	CILXRTPP	DIVS
CILTWSDP	CILXSENP	DIV_PRICEITEMS
CILTXNDETAIL	CILXSVXP	DIV_PRICELISTS
CILTXNSRC	CILXTPCP	F1-APAYEXPCRTYPEBOAS
CILTXNSRCD	CILXXSCP	F1-ATTACHMENTBOAS
CILTXNSRCL	CILXXUUP	F1-DECRPTBOAS
CILUPFTS	CILYASTP	F1-DFLTAPS
CILVFVDP	CILYDBPP	F1-DFLTS
CILVFVSP	CILYDFQP	F1-EXPUSERSREQBOAS
CILVVLEP	CILYDPIP	F1-GENPROC
CILVVLSL	CILYENRP	F1-MIGROBJIMP
CILWDWNP	CILYROBP	F1-STASKTYPE
CILWJSDP	CILZAFQP	F1-SVCTASK
CILWJSSP	CILZAUQP	F1-SYNCREQ
CILWNUPP	CILZFNCP	F1-SYNCREQIN
CILWNUSP	CILZPORP	F1-SYNCREQUESTBOAS
CILWPROP	CILZRBPP	F1-WEBSVCBOAS
CILXADPP	CILZRPHP	F1ADMIN
CILXAIEP	CILZRPOP	F1ATTACH
CILXAIIP	CILZRPTP	F1ATTACHMENT
CILXCLSP	CILZSCRP	F1CATTCH
CILXCONP	CILZSCZP	F1CONFIGLOG
CILXENHP	CILZTLZP	F1DEBUG
CILXFRMP	CILZZOHP	F1EXLKP
CILXGRPP	CILZZONP	F1EXLKPS
CILXJDBP	CIL_FAVORITES	F1LCAMRP

Application Service	Application Service	Application Service
CILXJMSP	CIPRICEACCOUNT	F1LEXTLKUP
CILXJSVP	CISACHG	F1LTAMTP
CILXNDNP	CISACHGTYPE	F1MGDEXP
F1MGDEXS	F1_USRFAVSCH	F1SUBRQQ
F1MGDIMP	FILETYPE	F1SYNCRM
F1MGDIMS	FWLCTDEP	F1SYNCRQ
F1MGOIMP	FWLFACTP	F1TBLEXC
F1MGPLNM	FWLSTRJP	F1UIZONE
F1MGPLNS	FWLTBELP	F1USERLOG
F1MGREQM	FWLTBOJP	F1WBSVCM
F1MGREQS	FWLTBSVP	F1WBSVCS
F1MIGRDEXP	FWLTDARP	F1WEBSVC
F1MIGRDIMP	FWLTEXSP	F1_BTST
F1MIGRDS	FWLTMGCT	F1REQTYP
F1MIGROBJ	FWLTOMTP	F1STRDIS
F1MIGRPLAN	FWLTSCHP	F1STREAS
F1MIGRREQ	FWLTUIMP	PERTREE
F1MIGRTIMP	FWLXOUTP	SACHGLNK
F1MIGRTX	FWLZDEXP	SATYPCHG
F1MTXIMP	FWLZWLZP	C1LASGN
F1REQ	GOTOREC	C1PIASGN
C1BCHGUPLREQ	C1DELCTL	C1PLASGNM
C1BILLCYCLEUPDTUPL	C1ELGPA	C1REFUPLREQ
C1CONTRIDERUPDTUPL	C1GETELIGPT	C1UPLDRQ
C1DCDTLC	C1HOLDUPLREQ	C1UPLREQ
C1WOUPLREQ	CILCPASP	C1HCSINF
C1-ACCNBRTYPAS	C1ADDRESS	C1INMSGP
C1-CUSTINMSG	C1ADDRS	C1INMSRH
C1-GENRQ	C1ADDRSBO	C1INMSTY
C1-INMSG	C1ADDRSRC	C1PAREQ
C1-INMSGTYPE	C1CUS360	C1PARQMN

Application Service	Application Service	Application Service
C1-MEMBERINMSG	C1DSPT	C1PARQTY
C1-POLPERORLEAS	C1DSPTRQ	C1PI
C1-PROSPECTCRET	C1DSPTRT	C1PL
C1-REQUEST	C1DSPTTY	C1PRICEASGN
C1ADDRDP	C1HCAPPSE	C1REINUPLREQ
C1ADDRDTL	C1HCBLDT	CILTTHDP
C1_DSPT_REQ	CIPOLPEROLE	F1-ARQPR
F1-AVALG	F1-LKPIL	F1-SICRL
F1-AVBT	F1-MGDIM	F1-SRCRL
F1-AVMO	F1-MGDPR	F1-SRLRQ
F1-AVTBL	F1-MGOAP	F1-STATSM
F1-AVTD	F1-MGOPR	F1-STCRL
F1-BFCRL	F1-MGTAP	F1-STKDF
F1-BSFLG	F1-MGTPR	F1-STKTR
F1-BUNPR	F1-NDPUR	F1-SUBRQ
F1-DTDOM	F1-ORCRL	F1-SYNEF
F1-FCTRN	F1-OUCL	F1-SYNIL
F1-FKVB	F1-PDBEX	F1-SYNRQ
F1-FLUSH	F1-PDBG	F1-SYSRQ
F1-ILMIN	F1-REQTY	F1-TDCRL
F1-LANG	F1-REVPR	F1-TDEER
F1-LDAP	F1-SAKRQ	F1-TDPG
F1-XMLPG		

B.1.4 INADMIN

The following table lists all application services configured for the INADMIN user group:

Application Service	Application Service	Application Service
AFHZONE	C1-CNTRTPPTZ	C1-EXTSTMICHZ
APPTXADM	C1-CONTRACTCHARSVALI	C1-EXTSTMLOGZ
BILLGCONS	C1-CONTRACTTYPECHARS	C1-EXTSTMTAD

Application Service	Application Service	Application Service
BILLGRAPH	C1-CTRLC	C1-EXTSTMTCHAR
C1-ACCBALCNT	C1-DEFAULTPP	C1-EXTSTMTED
C1-ACCCRCHM	C1-DELPPTMP	C1-EXTSTMTITEM
C1-ACCCURDET	C1-DFLTPTMP	C1-EXTSTMTITMCHR
C1-ACCDETAILZ	C1-DRRDLSZ	C1-EXTSTMTRC
C1-ACCDISCREZ	C1-DUPBTN	C1-EXTSTMTRSZ
C1-ACCOUNTCURRENT	C1-EDITPPTMP	C1-EXTSTMTZ
C1-ACCQUICED	C1-EQUITYDT	C1-GETADJ
C1-ACCREDIT	C1-EXITEMDEL	C1-GETEFFECTVPRICING
C1-ACCRLOGZ	C1-EXITEMED	C1-GETPPTMPL
C1-ACCSELECT	C1-EXSTMVBNF	C1-INSDETBK
C1-ACCURERR	C1-EXTACQRYZ	C1-ISSUEDATEPOLICYCH
C1-ACCURTEXT	C1-EXTAUTREC	C1-LINKPPTMP
C1-ACNPOLSUMZ	C1-EXTERNALSTATEMENT	C1-LINKPPTMP2
C1-ACPOLSUMMZ	C1-EXTITEMAD	C1-MAINPINFR
C1-ACTPPTMPL	C1-EXTPENDG	C1-MAINPPLAN
C1-ACURITEMD	C1-EXTREOPN	C1-MAINPPTMP
C1-ADJAPPRVLRREQBOAS	C1-EXTSTCHM	C1-MOVEPPT
C1-APAYEXPCRREQBOAS	C1-EXTSTIMP	C1-NAVACTCUR
C1-APAYEXPCRTYPEBOAS	C1-EXTSTITCH	C1-NAVTOEXST
C1-APPRSN	C1-EXTSTLDB	C1-PAY-REQ
C1-APPTXN	C1-EXTSTMBNF	C1-PAYMENT
C1-APPTXNLOG	C1-EXTSTMCAN	C1-PAYPLAN
C1-ASAPU	C1-EXTSTMCLD	C1-PAYPLAND
C1-ASGNPL	C1-EXTSTMCLS	C1-PAYPLANTMPLCOMPL
C1-BILLCHARGE	C1-EXTSTMDTLZ	C1-PAYPLANZ
C1-BRD	C1-EXTSTMDZ	C1-PAYPLNBPA
C1-PAYTEMPLATEBOAS	C1-PPDUP	C1ACINSP
C1-PERBALCNT	C1-PPEDIT	C1ACTPER
C1-PIFVIS	C1-PPEDTTASK	C1ACTREE
C1-PINFRDISP	C1-PPLANDET	C1ADJSTP

Application Service	Application Service	Application Service
C1-PINVFPOST	C1-PPPROC	C1ADJUPL
C1-POINFRDET	C1-PPSACCSRC	C1APPBOCHNZN
C1-POLCANCE	C1-PPTCNTDETZ	C1APPCHN
C1-POLCANZ	C1-PPTERROR	C1APPCRT
C1-POLICY	C1-PPTMPDISP	C1APPRESP
C1-POLICYBPA	C1-PPTMPDUP	C1APPTXNBOCHN
C1-POLICYCANRSNSERV	C1-PPTMPL	C1APPTXNBOCHNZN
C1-POLICYCHAR	C1-PPTMPLD	C1APPTXNCHAIN
C1-POLICYDESC	C1-PPTMPLDET	C1APPTXNCRI
C1-POLICYINVOICEFREQ	C1-PPTMPLDETZ	C1APPTXNCRT
C1-POLICYSUM	C1-PPTMPLVIS	C1APPTXNGRP
C1-POLINVDETZ	C1-PPTMPLZ	C1BOCHN
C1-POLINVEDI	C1-PPTMPPOST	C1CCACCT
C1-POLINVFRE	C1-PSTAKEHLD	C1CCPORT
C1-POLINVFREZ	C1-QUICKPAGINATION	C1CNTCR
C1-POLINVFRQ	C1-RECVAL	C1CTRLC
C1-POLI_FHZ	C1-REFWOREQ	C1FLRQTY
C1-POLNOMINEZ	C1-REQUEST-TYPE	C1FLSRCH
C1-POLPERORLEAS	C1-RETURNDUP	C1INSPAY
C1-POLREINSTSR	C1-REVRECSCHZ	C1LISTBL
C1-POLSUMZ	C1-SHDETAILSZ	C1MANAPP
C1-PPACCTSRC	C1-SRCHSCTP	C1MANLOG
C1-PPACTV	C1-UNLINK	C1MANMOD
C1-PPBTNS	C1-UNLINKPP	C1MANRES
C1-PPDET	C1-UPLOADCSV	C1NCISPY
C1-PPDETZ	C1-WRITEOFFREQ	C1NCPTMP
C1-PPDISP	C1ACCRATE	C1ODBUPR
C1PASGAPPROVE	C1PTPLP	C1_BACCGRVAL
C1PASGREADMODIFY	C1PYRQTY	C1_BAFHZ
C1PASGREADRESOLVE	C1RECDTLSTAT	C1_BFHIS
C1PAYMAN	C1RECONDTL	C1_BNDMN

Application Service	Application Service	Application Service
C1PAYPLAN	C1REFSTP	C1_BNDPRD
C1PAYPTL	C1REFUND	C1_BNDPRS
C1PAYREQ	C1REQSTS	C1_BO_OPT
C1PAYRQ	C1REQTYP	C1_BRD_P
C1PAYSRC	C1RFWORT	C1_BUNDLE
C1PAYUPL	C1SAPPTM	C1_CHKBIL_PA
C1PERRL	C1SATYPELISTZ	C1_CHKTRDFLG
C1POINFR	C1SCHEDU	C1_CIGAS
C1POLACL	C1VAR	C1_CIMAPZ
C1POLICYCANRSN	C1VARIANCE	C1_COM_VALID
C1POLPEL	C1WODET	C1_COPYPL
C1POLSRH	C1_ACCUR	C1_CPBUNDL
C1POLTYP	C1_ACUNV	C1_CPYPL
C1PPCARS	C1_ADDEXH	C1_CUSTINFO
C1PPDUP	C1_ADDPL	C1_DEL_PRD
C1PPLAN	C1_ADDPROD	C1_DEL_PROD
C1PPSRH	C1_ADD_RTCMP	C1_DISPBOUND
C1PPSRS	C1_ADD_TIER	C1_DRRSR
C1PPTMPL	C1_ADMPI	C1_DSPLY_RT
C1PPTMPO	C1_ANSPLTCUS	C1_EDTBUND
C1PPVERSCHZ	C1_APCS	C1_EDTER
C1PRISIM	C1_APPAD	C1_EDTPL
C1PRODUCT	C1_APPTXN_PRICEASGN	C1_EDTPROD
C1PSNAPP	C1_APPWF	C1_EDT_PRITM
C1PSNMOD	C1_APUR	C1_EFF_PRC
C1PSNRES	C1_APVIG	C1_EFF_PRICE
C1PTNDRH	C1_ASNPL	C1_EFPRODSRC
C1_EXCHRT	C1_F_EDTMMP	C1_F_VAL_CUS
C1_EXHRT	C1_F_EDTPL	C1_GENERICSA
C1_EXPPITM	C1_F_EDTPR	C1_GENRCMP
C1_EXSTD	C1_F_EDTPROD	C1_GETTIER

Application Service	Application Service	Application Service
C1_EXSTL	C1_F_EDTPRPL	C1_GRP
C1_EXSTM	C1_F_EDTPRSS	C1_IGMMB
C1_EXSTS	C1_F_EXCDVAL	C1_INF_PARTY
C1_FTRS	C1_F_EXCHVAL	C1_INS_SRCH
C1_F_ADDCHLD	C1_F_EXHVAL	C1_INVC
C1_F_ADDEXCH	C1_F_GENACBO	C1_LIST_TIER
C1_F_ADDPL	C1_F_IGG1MM	C1_MIG
C1_F_ADDPRD	C1_F_IGG1MS	C1_MIGAS
C1_F_ADDPRPL	C1_F_IGG2MM	C1_MNGRT
C1_F_ADDPRSS	C1_F_IGG2MS	C1_MNGTR
C1_F_ADDRATE	C1_F_IGG3MM	C1_MPPA
C1_F_ADMPROD	C1_F_IGG3MS	C1_OVR_PRITM
C1_F_ADPROD	C1_F_PERSRCH	C1_PAYUP
C1_F_APVDTV	C1_F_PLCRT	C1_PCUSSRCH
C1_F_APVNFLT	C1_F_PLEDT	C1_PLADPR
C1_F_ASGNCUS	C1_F_PLVAL	C1_PLAE
C1_F_ASGNPTP	C1_F_POLSRCH	C1_PLASNADD
C1_F_CIGG3V	C1_F_POPITEM	C1_PLASNEDIT
C1_F_COPYPL	C1_F_PRCHAR	C1_PLASN_ADD
C1_F_CPYBNDL	C1_F_PRCHARS	C1_PLASN_EDI
C1_F_CPYPL	C1_F_PRDVL	C1_PLASSIGN
C1_F_CPYPLVL	C1_F_PRODVAL	C1_PLASSIGNE
C1_F_CUSSRCH	C1_F_PRODVL1	C1_PLASSIGN
C1_F_DELEXCH	C1_F_RSCDVAL	C1_PLEDIT
C1_F_DELSCS	C1_F_RTDESC	C1_PLISTSRCH
C1_F_DTVAL	C1_F_SAVESCS	C1_PLMNG
C1_F_EDTEXHR	C1_F_SRPLVAL	C1_PLPTYAINF
C1_PLPTYINFO	C1_PRZCR	CIAPPCHELGBL
C1_PLSRCH	C1_PRZTR	CIAPPCRIT
C1_PLSTOGGLE	C1_PRZ_CR	CIAPPTXNCHAIN
C1_PLVAL	C1_PRZ_TR	CIAPPTXNRSN

Application Service	Application Service	Application Service
C1_PLVALIDAT	C1_PTPLA	CICASE
C1_PLVIEW	C1_RATE_DEF	CICASECREATE
C1_PL_ADD	C1_RECON	CICHGTYPE
C1_PL_EDIT	C1_RECTIFYSRCH	CICPAYPLAN
C1_PL_PI	C1_RSN	CICREATEPAYMENTS
C1_PMPRC	C1_RTCOM_ADD	CIGETPRICING
C1_PPEDT	C1_RTC_VAL	CILAADUP
C1_PPOVR	C1_RTOPT	CILAASCP
C1_PPOVRSRCH	C1_SAVE_TIER	CILAAUSP
C1_PP_DSPINF	C1_SHOW_IMG	CILACCDL
C1_PP_PLVAL	C1_SRCH	CILACLCP
C1_PRCAD	C1_SRCHPL	CILBBICP
C1_PRCE_VALD	C1_SRCHPLVAL	CILBLLP
C1_PRCPM	C1_SRCHPPL	CILBMCRP
C1_PRC_EDIT	C1_SRCHPRD	CILBSBHP
C1_PRC_OVRD	C1_SRCH_PROF	CILBSCCP
C1_PRC_TR	C1_SRPROD	CILBSEGP
C1_PRC_VALID	C1_STRTOLIST	CILBSTMP
C1_PRDREL	C1_TEMPLATE	CILCAAHP
C1_PRICEPARM	C1_TIER_INP	CILCAASP
C1_PRITSRCH	C1_VIEW	CILCACCP
C1_PROD	C1_VWPRD	CILCALZP
C1_PRODPL	CHGTYPE	CILCAMRP
C1_PROD_ADD	CHGTYPECD	CILCBCUP
C1_PROD_EDIT	CIACNBTY	CILCCCIP
C1_PROD_SRCH	CIAPAYSTGUPL	CILCCCZP
C1_PROVR_EDT	CIAPPACCTYPE	CILCCIZP
CILCCNSP	CILFBLCP	CILPRLIST
CILCCNXP	CILFBPHP	CILPRLISTDIV
CILCCSCP	CILFDRR	CILPRLISTL
CILCCSHP	CILFFNTP	CILPTCNP

Application Service	Application Service	Application Service
CILCCTXP	CILFFTBP	CILQATDP
CILCFIZP	CILFFTPP	CILQCASP
CILCLOAP	CILFLGRP	CILQTDEP
CILCPERP	CILFMVTP	CILQTDLP
CILCPLAS	CILFSFHP	CILQTDQP
CILCPPLP	CILITPDP	CILQTDSP
CILCPPTMPL	CILLODPP	CILQTDTP
CILCPRMP	CILPAPHP	CILQTDZP
CILCSALP	CILPAPSP	CILQTSSP
CILCSSEP	CILPDCNP	CILQTSUP
CILCSVAP	CILPDCSP	CILRCMAP
CILDATA	CILPEPLP	CILRENGP
CILDIVET	CILPEQAP	CILRRSMP
CILDIVEXT	CILPEVTP	CILRRTCP
CILECBLP	CILPICHAR	CILRRTSP
CILEFKRP	CILPIDIV	CILRRTVP
CILEFLDP	CILPILANG	CILRRVMP
CILEMNUP	CILPIREL	CILSACHG
CILEMOBP	CILPITXNREL	CILSTEXTITEM
CILENAVP	CILPOLMO	CILTACRP
CILENVOP	CILPPAYP	CILTALGP
CILERPTP	CILPPCAN	CILTALTP
CILESVCP	CILPPTSP	CILTAMGP
CILETBLP	CILPQADP	CILTAMTP
CILEUIZP	CILPRCITMREL	CILTAPAP
CILEXCHRATE	CILPRICELISTCHAR	CILTAPFP
CILFAFHP	CILPRITEM	CILTAPRP
CILTAPSP	CILTCQTP	CILTOETP
CILTAROP	CILTCURP	CILTOPTP
CILTARTP	CILTCUSP	CILTORAP
CILTASGP	CILTDARP	CILTPCRP

Application Service	Application Service	Application Service
CILTATCP	CILTDASP	CILTPDRP
CILTATPP	CILTDCAP	CILTPHTP
CILTATYP	CILTDCLP	CILTPIFP
CILTBCRP	CILDIRP	CILTPKGP
CILTBCTP	CILTDPRP	CILTPMDP
CILTBFFP	CILTDSTP	CILTPPTP
CILTBFPV	CILTDWPP	CILTPRTP
CILTBIMP	CILTDWTP	CILTPSDP
CILTBLCP	CILTEBRP	CILTPSTP
CILTBLLP	CILTECRP	CILTPTRP
CILTBNKP	CILTFNDP	CILTPYTP
CILTBRTP	CILTFRQP	CILTQ RTP
CILTBSTP	CILTFWLP	CILTRGLP
CILBTCP	CILTGLDP	CILTRLEP
CILBTTRP	CILTIDTP	CILTRSCP
CILTBXTP	CILTINCP	CILTRTYP
CILTCAMP	CILTINSP	CILTSATP
CILTCATP	CILTITTP	CILTSCLP
CILTCCCP	CILTDIP	CILTSCYP
CILTCCTP	CILTLETP	CILTSICP
CILTCHTP	CILTLKFP	CILTSOMP
CILTCIDP	CILTLNGP	CILTSOPP
CILTCLGP	CILTMCRP	CILTSQIP
CILTCLRP	CILTMHTP	CILTSQRP
CILTCLWP	CILTMMSGP	CILTSTMP
CILTCNTP	CILTNUXP	CILTSVTP
CILTCOCP	CILTOCRP	CILTSWLP
CILTTACP	CILWDWNP	CILYROBP
CILTTAXP	CILWJSDP	CILZAFQP
CILTTGRP	CILWJSSP	CILZAUQP
CILTTMRP	CILWNUPP	CILZFNCP

Application Service	Application Service	Application Service
CILTTMTP	CILWNUSP	CILZPORP
CILTTNSP	CILWPROP	CILZRBPP
CILTTNTP	CILXADPP	CILZRPHP
CILTTOUP	CILXAIEP	CILZRPOP
CILTRRAP	CILXAIEP	CILZRPTP
CILTTTMP	CILXCLSP	CILZSCRP
CILTTZNP	CILXCONP	CILZSCZP
CILTUOMP	CILXENHP	CILZTLZP
CILTURPP	CILXFRMP	CILZZOHP
CILTUSCP	CILXGRPP	CILZZONP
CILTUSEP	CILXJDBP	CIL_FAVORITES
CILTUSGP	CILXJMSP	CIPOLICY
CILTWCTP	CILXJSVP	CIPOLPERRL
CILTWDCP	CILXNDNP	CIPOLPERROLE
CILTWETP	CILXOPTP	CIPOLREINSTRSN
CILTWPTP	CILXRCVP	CIPRICEACCOUNT
CILTWSCP	CILXRTPP	CIREC
CILTWSDP	CILXSENP	CIRECCUSTSUB
CILTXNDETAIL	CILXSVXP	CIRECON
CILTXNSRC	CILXTPCP	CIRECONDTL
CILTXNSRCD	CILXXSCP	CIRECONSEG
CILTXNSRCL	CILXXUPP	CIRECPRTL
CILUPFTS	CILYASTP	CISACHG
CILVFVDP	CILYDBPP	CISACHGTYPE
CILVFVSP	CILYDFQP	CISATYCHG
CILVVLEP	CILYDPIP	CIVARIANCE
CILVVLSLSP	CILYENRP	CNCLRSN
CTXTZONE	F1MGDIMP	FILETYPE
DIVS	F1MGDIMS	FWLCTDEP
DIV_PRICEITEMS	F1MGOIMP	FWLFACTP
DIV_PRICELISTS	F1MGPLNM	FWLSTRJP

Application Service	Application Service	Application Service
F1-APAYEXPCRTYPEBOAS	F1MGPLNS	FWLTBELP
F1-ATTACHMENTBOAS	F1MGREQM	FWLTBOJP
F1-DECRPTBOAS	F1MGREQS	FWLTBSVP
F1-DFLTAPS	F1MIGRDEXP	FWLTDARP
F1-DFLTS	F1MIGRDIMP	FWLTEXSP
F1-EXPUSERSREQBOAS	F1MIGRDS	FWLTMGCT
F1-GENPROC	F1MIGROBJ	FWLTOMTP
F1-MIGROBJIMP	F1MIGRPLAN	FWLTSCHP
F1-STASKTYPE	F1MIGRREQ	FWLTUIMP
F1-SVCTASK	F1MIGRTIMP	FWLXOUTP
F1-SYNCREQ	F1MIGRTX	FWLZDEXP
F1-SYNCREQIN	F1MTXIMP	FWLZWLZP
F1-SYNCREQUESTBOAS	F1REQ	GOTOREC
F1-WEBSVCBOAS	F1REQTYP	LISTBILLVIEW
F1ADMIN	F1STRDIS	PERTREE
F1ATTACH	F1STREAS	POLICYCANRSN
F1ATTACHMENT	F1SUBRQQ	RECDTSTA
F1CATTCH	F1SYNCRM	RECON
F1CONFIGLOG	F1SYNCRQ	RECONDTL
F1DEBUG	F1TBLEXC	RSTRSN
F1EXLKP	F1UIZONE	SACHGLNK
F1EXLKPS	F1USERLOG	SATYPCHG
F1LCAMRP	F1WBSVCM	SATYPES
F1LEXTLKUP	F1WBSVCS	F1_BTST
F1LTAMTP	F1WEBSVC	F1_USRFAVSCH
F1MGDEXP	F1MGDEXS	C1LASGN
C1BCHGUPLREQ	C1DELCTL	C1PIASGN
C1BILLCYCLEUPDTUPL	C1ELGPA	C1PLASGNM
C1CONTRIDERUPDTUPL	C1GETELIGPT	C1REFUPLREQ
C1DCDTLC	C1HOLDUPLREQ	C1UPLDRQ
C1UPLREQ	C1WOUPLREQ	CILCPASP

Application Service	Application Service	Application Service
C1-PROSPECTCRET	C1ADDRS	C1DSPTTY
C1ACRLCL	C1ADDRSBO	C1PAREQ
C1ACRLTP	C1ADDRSRC	C1PARQMN
C1ADDRDP	C1DSPT	C1PARQTY
C1ADDRDTL	C1DSPTRQ	C1PI
C1ADDRESS	C1DSPTRT	C1PL
C1PRICEASGN	C1_DSPT_REQ	F1-ARQPR
F1-AVALG	F1-LKPIL	F1-SICRL
F1-AVBT	F1-MGDIM	F1-SRCRL
F1-AVMO	F1-MGDPR	F1-SRLRQ
F1-AVTBL	F1-MGOAP	F1-STATSM
F1-AVTD	F1-MGOPR	F1-STCRL
F1-BFCRL	F1-MGTAP	F1-STKDF
F1-BSFLG	F1-MGTPR	F1-STKTR
F1-BUNPR	F1-NDPUR	F1-SUBRQ
F1-DTDOM	F1-ORCRL	F1-SYNEF
F1-FCTRN	F1-OUCRL	F1-SYNIL
F1-FKVBP	F1-PDBEX	F1-SYNRQ
F1-FLUSH	F1-PDBG	F1-SYSRQ
F1-ILMIN	F1-REQTY	F1-TDCRL
F1-LANG	F1-REVPR	F1-TDEER
F1-LDAP	F1-SAKRQ	F1-XMLPG

Appendix C : 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
```


Appendix D :New Objects in the Oracle Utilities Application Framework V4.3.0.4.0 Database

This section lists the objects that are newly added in the Oracle Utilities Application Framework V4.3.0.4.0 database. These objects are classified under the following two sections:

- Schema Changes
- New System Data

D.1 Schema Changes

This section lists schema related changes made in the Oracle Utilities Application Framework V4.3.0.4.0 database.

D.1.1 New Tables

The following tables are newly added in the Oracle Utilities Application Framework V4.3.0.4.0 database:

Table	Description
F1_MIGR_REQ_INCL_REQ	Migration Request Grouping

D.1.2 Added Views

None

D.1.3 Dropped Tables

None

D.1.4 Unsupported Tables

None

D.1.5 Added Columns

The following columns are newly added in the Oracle Utilities Application Framework V4.3.0.4.0 database:

Table	Column	Required (Yes or No)
F1_OUTMSG	BO_XML_DATA_AREA	No
F1_MIGR_REQ_INSTR_ENTITY	EXT_REFERENCE_ID	No
F1_MIGR_REQ_INSTR_ENTITY	COMMENT_LONG	No
F1_MIGR_REQ	MIGR_REQ_CAT_XFLG	No
F1_MIGR_REQ	MIGR_REQ_CLASS_FLG	Yes
F1_IWS_SVC_ANN	SEQ_NUM	Yes
CI_XAI_SNDR_CTX	SEQNO	Yes
CI_XAI_RCVR_CTX	SEQNO	Yes
CI_TXN_SQ	ILM_ARCH_SW	No
CI_TXN_SQ	ILM_DT	No
CI_TXN_DTL_PRITM	ILM_ARCH_SW	No
CI_TXN_DETAIL_EXCP	ILM_ARCH_SW	No
CI_TXN_DETAIL	ILM_ARCH_SW	No
CI_TXN_CALC_LN_CHAR	ILM_ARCH_SW	No
CI_TXN_CALC_LN_CHAR	ILM_DT	No
CI_TXN_CALC_LN	ILM_ARCH_SW	No
CI_TXN_CALC_LN	ILM_DT	No
CI_TXN_CALC	ILM_ARCH_SW	No
CI_TXN_CALC	ILM_DT	No
CI_ROLLBACK_TXN_DETAIL	ILM_ARCH_SW	No
CI_FILE_REQUEST_DTL_MSG	DESCRLONG	No
CI_FILE_REQUEST_DTL_MSG	LOG_ENTRY_TYPE_FLG	No
CI_FILE_REQUEST_DETAIL	ILM_ARCH_SW	No
CI_FILE_REQUEST_DETAIL	ILM_DT	No
CI_BSEG	ILM_ARCH_SW	No
CI_BSEG	ILM_DT	No
CI_BILL_CHG	ILM_ARCH_SW	No
CI_BILL_CHG	ILM_DT	No

Table	Column	Required (Yes or No)
CI_BILL	ILM_ARCH_SW	No
CI_BILL	ILM_DT	No
CI_BATCH_CTRL	APP_SVC_ID	Yes
CI_ADJ	ILM_ARCH_SW	No
CI_ADJ	ILM_DT	No

D.1.6 Dropped Columns

None.

D.1.7 Column Format Change

The format of the following columns is changed in the Oracle Utilities Application Framework V4.3.0.4.0 database:

Table	Column	From	To
F1_EXT_LOOKUP_VAL_CHAR	F1_EXT_LOOKUP_VALUE	VARCHAR2(30)	VARCHAR2(254)

D.2 New System Data

The system data is used to configure various features in Oracle Utilities Application Framework. This section lists the system data that is newly added in the Oracle Utilities Application Framework V4.3.0.4.0 database.

D.2.1 Algorithm

The following algorithms are newly added in the Oracle Utilities Application Framework V4.3.0.4.0 database:

Algorithm	Description
F1-ETLMCINFO	ETL Mapping Control Information
F1-INSTLINFO	Installation Options Information
F1-INSTLPREC	Installation Options - Precompare
F1-LANGINFO	Language - Information
F1-LKPVALINF	Lookup Value Information
F1-MGDIMPINF	Migration Data Set Import Information

Algorithm	Description
F1-MIGREQELV	Entity List Migration Request Validation
F1-MIGREQGNV	Criteria-based Migration Request Validation
F1-MIGREQGRV	Group Migration Request Validation
F1-MIGREQINF	Migration Request Information
F1-MSGOPTINF	Message Option Information

D.2.2 Algorithm Type

The following algorithm types are newly added in the Oracle Utilities Application Framework V4.3.0.4.0 database:

Algorithm Type	Description
F1-ETLMCINFO	ETL Mapping Control Information
F1-INSTLINFO	Installation Options Information
F1-INSTLPREC	Installation Options - Precompare
F1-LANGINFO	Language - Information
F1-LKPVALINF	Lookup Value Information
F1-MGDIMPINF	Migration Data Set Import Information
F1-MIGREQELV	Entity List Migration Request Validation
F1-MIGREQGNV	Criteria-based Migration Request Validation
F1-MIGREQGRV	Group Migration Request Validation
F1-MIGREQINF	Migration Request Information
F1-MSGOPTINF	Message Option Information

D.2.3 Zone

The following zones are newly added in the Oracle Utilities Application Framework V4.3.0.4.0 database:

Zone	Description
F1-LKPVALDSC	Lookup Field Value and Description
F1-MIGRREQ2	Migration Plan
F1-MIGRREQ3	Included Migration Request
F1-MIGRREQ4	Entity
F1-MIGRREQAE	Add Entities
F1-MIGRREQEL	Migration Request Entities

Zone	Description
F1-MIGRREQEV	Migration Request Entities Exist
F1-MIGRREQR	Referencing Migration Requests
F1-MIGRREQRV	Referencing Migration Requests Exist
F1-PLCYOVR	Policy's Configurable Overrides
F1-TDTYPEQ1	To Do Type / Description
F1-TDTYPESRC	To Do Type Search
F1GETMGELMOS	Entity List Migration Request Eligible MOs

D.2.4 UI Map

The following UI maps are newly added in the Oracle Utilities Application Framework V4.3.0.4.0 database:

UI Map	Description
F1-GetMigrReqRefComments	Add Migration Request Entities
F1-MigrReqEntityAddSrchFltr	Search for Entities to Add by MO and PKs
F1-MigrReqEntityListSrchFltr	Migration Request - Entity List Filter
F1-MigrReqEntitySearchFilter	Migration Request - Filter by Entity
F1-MigrReqExportAction	Migration Request Export Action
F1-MigrReqPlanSearchFilter	Migration Request - Query by Plan Filters
F1-MigrReqReqSearchFilter	Migration Request - Query by Request
F1-SQLWLViewer	SQL Functions White Viewer

D.2.5 Maintenance Object

The following maintenance objects are newly added in the Oracle Utilities Application Framework V4.3.0.4.0 database:

Maintenance Object	Description
F1-LOOKUPVAL	Lookup Value
F1-USRGRP-SC	User Group (Without Users)

D.2.6 To Do Type

None.

D.2.7 Business Service

The following business services are newly added in the Oracle Utilities Application Framework V4.3.0.4.0 database:

Business Service	Description
F1-AddToDoEntryWithChars	Add Manual To Do Entry
F1-CheckWarning	Determine if Warnings have accumulated
F1-DBMSCancelJob	DBMS Scheduler - Cancel Job
F1-DBMSChain	DBMS Scheduler Chain Maintenance
F1-DBMSGetJobDetails	DBMS Scheduler Job Details
F1-DBMSGetJobs	DBMS Scheduler Job List
F1-DBMSJob	DBMS Scheduler Job Maintenance
F1-DBMSList	DBMS Scheduler Object List
F1-DBMSProgram	DBMS Scheduler Program Maintenance
F1-DBMSRestartChain	DBMS Scheduler - Restart Failed Chain
F1-DBMSRestartThread	DBMS Scheduler - Restart Thread
F1-DBMSSchedule	DBMS Scheduler Schedule Maintenance
F1-DBMSSubmitJob	DBMS Scheduler Job Submission
F1-GenericRetrieveRowCount	Invoke Zone to Retrieve Row Count
F1-LKPVALDSC	Get Lookup Field and Value Descriptions
F1-PLCYOVR	Policy's Configurable Overrides
F1-RetrieveCMASettings	Retrieve CMA Configuration
F1GETMGELMOS	Entity List Migration Request Eligible MOs

D.2.8 Portal

The following portal is newly added in the Oracle Utilities Application Framework V4.3.0.4.0 database:

Portal	Description
F1NAVEMP	Launching Application

D.2.9 Business Object

The following business objects are newly added in the Oracle Utilities Application Framework V4.3.0.4.0 database:

Business Object	Description
F1-EntityListMigrationRequest	Entity List Migration Request
F1-InstallationPhysicalBO	Physical BO for Installation Options
F1-JMSQueuePhysicalBO	Physical BO for JMS Queue
F1-JMSTopicPhysicalBO	Physical BO for JMS Topic
F1-JNDIServerPhysicalBO	Physical BO for JNDI Server
F1-LookupValuePhysicalBO	Physical BO for Lookup Value
F1-MessageOptionPhysicalBO	Physical BO for Message Option
F1-MigrRequestLite	Migration Request - Basic Details
F1-MigrationRequestCategory	Migration Request Category
F1-MigrationRequestGroup	Group Migration Request
F1-SetOfPolicies	Set of Policies
F1-UserGroupNoUsersPhysicalBO	Physical BO for User Group Without Users
F1-ValidPolicies	Valid Policies

D.2.10 Portal Zone

None.

D.2.11 Lookup

The following lookups are newly added in the Oracle Utilities Application Framework V4.3.0.4.0 database:

Field	Field Value	Description
DBMS_ACTION_FLG	CHNG	Change
	READ	Read
	DEL	Delete
	ADD	Add
DBMS_JOB_STAT_SRCH_FLG	COMP	Completed
	RUN	In Progress

Field	Field Value	Description
DBMS_OBJ_TYPE_FLG	SCHD	DBMS Schedule
	JOB	DBMS Job
	PROG	DBMS Program
	CHAN	DBMS Chain
MIGR_REQ_CLASS_FLG	F1EL	Entity List
	F1AL	Criteria-based
	F1GR	Group

D.2.12 Foreign Key Reference

The following foreign key references are newly added in the Oracle Utilities Application Framework V4.3.0.4.0 database:

Foreign Key Reference	Description
F1-LKPVL	Lookup Value
F1-USRGP	User Group
F1DM-MO	MO Option - Default Migration Plan
F1ETLMPC	ETL Mapping Control
F1INSTL	Installation Options
F1JMSQ	JMS Queue
F1JMSTPC	JMS Topic
F1JNDISV	JNDI Server
F1MSGOPT	Message Option

D.2.13 Batch Control

None.

D.2.14 Application Service

The following application services are newly added in the Oracle Utilities Application Framework V4.3.0.4.0 database:

Application Service	Description
F1-ARQPR	Request Monitor
F1-AVALG	Application Viewer - Extract Algorithms

Application Service	Description
F1-AVBT	Application Viewer - Extract Batch Control
F1-AVMO	Application Viewer - Extract MOs
F1-AVTBL	Application Viewer - Extract Table data
F1-AVTD	Application Viewer - Extract To Do Types
F1-BFCRL	ILM Crawler - Business Flag
F1-BSFLG	Business Flag Monitor
F1-BUNPR	Bundle Monitor
F1-DTDOM	Outbound Message Error To Do Entry Cleanup
F1-PDBG	Plug-in Driven Generic Template
F1-REQTY	Request Type Monitor
F1-RETRCMASETTINGSSC	Retrieve CMA Configuration BS
F1-REVPR	Object Revision Monitor
F1-SAKRQ	Sync Request Allocate Keys Monitor
F1-SICRL	ILM Crawler - Inbound Sync Request
F1-SRCRL	ILM Crawler - Sync Request
F1-SRLRQ	Sync Request Load Records Monitor
F1-STATSM	Statistics Control Monitor
F1-STCRL	ILM Crawler - Service Task
F1-STKDF	Service Task Monitor (Deferred)
F1-STKTR	Service Task Monitor
F1-SUBRQ	Request Monitor (Deferred)
F1-SYNEF	Sync Request Extract
F1-SYNIL	Sync Request Initial Load
F1-SYNRQ	Sync Request Monitor
F1-SYSRQ	Sync Request Monitor (Deferred)
F1-TDCRL	ILM Crawler - To Do Entry
F1-TDEER	To Do Entry External Routing
F1-TDPG	Purge Completed To Do Entries
F1-XMLPG	XAI Upload Staging Records Cleanup
F1NAVEMP	Launching Application

D.2.15 Characteristic Type

The following characteristic type is newly added in the Oracle Utilities Application Framework V4.3.0.4.0 database:

Characteristic Type	Description
F1-PLOVR	Policy Configuration Overrides

Appendix E : Oracle Utilities Application Framework System Table Guide

This section lists the system tables owned by Oracle Utilities Application Framework V4.3.0.4.0 and explains the data standards of the system tables. The data standards are required for the installation of Oracle Utilities Application Framework, development within Oracle Utilities Application Framework, and for the configuration and customization of Oracle Utilities products. Adhering to the data standards is a prerequisite for seamless upgrade to future releases.

This section includes:

- About System Tables
- System Table Standards
- Guidelines for System Table Updates
- System Table List

E.1 About System Tables

System tables are a subset of the tables that must be populated at the time of installation of the product is installed. They include metadata and configuration tables. The data stored in the system tables are the information that Oracle Utilities Application Framework product operations are based on.

As the product adds more functionality, the list of system tables can grow. The complete list of the system tables can be found in the System Table List section.

E.2 System Table Standards

System table standards must be observed for the following reasons:

- The product installation and upgrade process and customer modification data extract processes depend on the data prefix and owner flag values to determine the system data owned by each product.
- The standards ensure that there will be no data conflict in the product being developed and the future Oracle Utilities Application Framework release.
- The standards ensure that there will be no data conflict between customer modifications and future Oracle Utilities product releases.
- The data prefix is used to prevent test data from being released to production.

Developer's Note: All test data added to the system data tables must be prefixed by ZZ (all upper case) in order for the installation and upgrade utility to recognize them as test data.

E.3 Guidelines for System Table Updates

This section describes guidelines regarding the updating of the system table properties.

E.3.1 Business Configuration Tables

The majority of data in the tables in this group belongs to the customer. But these tables are shipped with some initial data in order for the customer to login to the system and begin configuring the product. Unless specified otherwise, the initial data is maintained by Oracle Utilities Application Framework and subject to subsequent upgrade.

E.3.1.1 Application Security and User Profile

These tables define the access rights of a User Group to Application Services and Application Users.

Properties	Description
Tables	SC_ACCESS_CNTL, SC_USER, SC_USR_GRP_PROF, SC_USR_GRP_USR, SC_USER_GROUP, SC_USER_GROUP_L
Initial Data	User Group ALL_SERVICES and default system user SYSUSER. Upon installation the system default User Group ALL_SERVICES is given unrestricted accesses to all services defined in Oracle Utilities Application Framework.

Developer's Note: When a new service is added to the system, all actions defined for the service must be made available to the User Group ALL_SERVICES.

E.3.1.2 Currency Code

The ISO 4217 three-letter codes are taken as the standard code for the representation of the currency.

Properties	Description
Tables	CI_CURRENCY_CD, CI_CURRENCY_CD_L
Initial Data	United States Dollar (USD).

E.3.1.3 Display Profile

The Display Profile Code is referenced in the User (SC_USER) table.

Properties	Description
Tables	CI_DISP_PROF, CI_DISP_PROF_L
Initial Data	North America (NORTHAM), HIJRI Format (HIJRI) and Europe (EURO).

Configuration Note: In order to use HIJRI Format display profile, additional configuration is needed to define the mappings between Hijri and Gregorian dates. Refer to the Display Profile documentation for more information.

E.3.1.4 Installation Options

Installation option has only one row that is shipped with the initial installation of Oracle Utilities Application Framework. The updatable columns in these tables are customer data and will not be overridden by the upgrade process unless a special script is written and included in the upgrade process.

Properties	Description
Tables	F1_INSTALLATION, CI_INSTALL_ALG, CI_INSTALL_MSG, CI_INSTALL_MSG_L, CI_INSTALL_PROD
Initial Data	Option 11111.

Developer's Note: The system data owner of an environment is defined in the Installation Option. This Owner Flag value is stamped on all system data that is added to this environment. The installation default value is Customer Modification (CM). This value must be changed in the base product development environments.

E.3.1.5 Language Code

Language code must be a valid code defined in ISO 639-2 Alpha-3. Adding a new language code to the table without translating all language dependent objects in the system can cause errors when a user chooses the language.

Properties	Description
Tables	CI_LANGUAGE
Initial Data	English (ENG).

E.3.1.6 To Do Priority and Role

New To Do Types released will be linked to the default To Do Role and set to the product assigned priority value initially. These initial settings can be overridden by the implementation.

Properties	Description
Tables	CI_ROLE(L), CI_TD_VAL_ROLE
Initial Data	F1_DFLT

E.3.2 Development and Implementation System Tables

This section defines the standards for the system tables that contain data for application development. The data in these tables implement business logic and UI functions shared by various products and product extensions in the same database.

E.3.2.1 Standards

When adding new data, the owner flag value of the environment must prefix certain fields of these tables. For example, when a developer adds a new algorithm type to an Oracle Revenue Management and Billing environment, C1 should prefix the new Algorithm Type code. The fields that are subject to this rule are listed in Standard Data Fields property.

The data that is already in these tables cannot be modified if the data owner is different than the environment owner. This prevents the developers from accidentally modifying system data that belongs to Oracle Utilities Application Framework or the base products. However, some fields are exempt from this rule and can be modified by Customer Modification. These fields are listed in the Customer Modification Fields property.

Note that the system supports a system upgrade rule called Override Owner flag. If duplicate data rows (data row with same primary key values) are found at the time of upgrade, the owner flag values will get overridden. The lower level application system data will override the upper level system data. For example, F1 overrides C1, F1&C1 override CM, and so on. This rule will be applied to the following tables: CI_CHAR_ENTITY, CI_MD_MO_ALG, C1_PORTAL_OPT, F1_BUS_OBJ_ALG, F1_BUS_OBJ_STATUS_ALG, CI_MD_MO_OPT, F1_BUS_OBJ_OPT, F1_BUS_OBJ_STATUS_OPT, F1_BUS_OBJ_STATUS, and F1_BUS_OBJ_STATUS_L.

E.3.2.2 Algorithm Type

Properties	Description
Tables	CI_ALG_TYPE, CI_ALG_TYPE_L, CI_ALG_TYPE_PRM, CI_ALG_TYPE_PRM_L
Standard Data Fields	Algorithm Type (ALG_TYPE_CD)
Customer Modification	None

E.3.2.3 Algorithm

Properties	Description
Tables	CI_ALG, CI_ALG_L, CI_ALG_PARM, CI_ALG_VER
Standard Data Fields	Algorithm (ALG_CD)
Customer Modification	None

E.3.2.4 Application Security

Properties	Description
Tables	SC_APP_SERVICE, SC_APP_SERVICE_L, CI_APP_SVC_ACC
Standard Data Fields	Application Service ID (APP_SVC_ID). Note: Oracle Revenue Management and Billing prior to version 2.0 will continue to use CI as a prefix for the application service.
Customer Modification	None

E.3.2.5 Batch Control

Properties	Description
Tables	CI_BATCH_CTRL, CI_BATCH_CTRL_L, CI_BATCH_CTRL_P, CI_BATCH_CTRL_P_L
Standard Data Fields	Batch Process (BATCH_CD), Program Name (PROGRAM_NAME)
Customer Modification	Next Batch Number (NEXT_BATCH_NBR), Last Update Instance (LAST_UPDATE_INST), Last Update Date time (LAST_UPDATE_DTTM) and the batch process update these columns. Time Interval (TIMER_INTERVAL), Thread Count (BATCH_THREAD_CNT), Maximum Commit Records (MAX_COMMIT_RECS), User (USER_ID), Language (LANGUAGE_CD), Email Address (EMAILID), Start program debug tracing (TRC_PGM_STRT_SW), End Program Debug trace (TRC_PGM_END_SW), SQL debug tracing (TRC_SQL_SW) and Standard debug tracing (TRC_STD_SW) on CI_BATCH_CTRL Table. Batch Parameter Value (BATCH_PARM_VAL) and Security flag (TEXT_SECURITY_FLG) on Batch Control Parameters Table (CI_BATCH_CTRL_P)

E.3.2.6 Business Object

Properties	Description
Tables	F1_BUS_OBJ, F1_BUS_OBJ_L, F1_BUS_OBJ_ALG, F1_BUS_OBJ_OPT, F1_BUS_OBJ_STATUS, F1_BUS_OBJ_STATUS_L, F1_BUS_OBJ_STATUS_ALG, F1_BUS_OBJ_STATUS_OPT, F1_BUS_OBJ_STATUS_RSN, F1_BUS_OBJ_STATUS_RSN_L, F1_BUS_OBJ_STATUS_RSN_CHAR F1_BUS_OBJ_TR_RULE, F1_BUS_OBJ_TR_RULE_L
Standard Data Fields	Business Object (BUS_OBJ_CD), Status Reason (BO_STATUS_REASON_CD)
Customer Modification	Batch Control (BATCH_CD), Alert (BO_ALERT_FLG), Sequence (SORT_SEQ5), Status Reason (STATUS_REASON_FLG) fields on Business Object Status Table (F1_BUS_OBJ_STATUS). Instance Control (INSTANCE_CTRL_FLG), Application Service (APP_SVC_ID) on Business Object Table (F1_BUS_OBJ). Status Reason Selection (STATUS_REASON_SELECT_FLG) on Status Reason Table (F1_BUS_OBJ_STATUS_RSN).

E.3.2.7 Business Service

Properties	Description
Tables	F1_BUS_SVC, F1_BUS_SVC_L
Standard Data Fields	Business Service (BUS_SVC_CD)
Customer Modification	Application Service (APP_SVC_ID)

E.3.2.8 Characteristics

Properties	Description
Tables	CI_CHAR_TYPE, CI_CHAR_TYPE_L, CI_CHAR_ENTITY, CI_CHAR_VAL, CI_CHAR_VAL_L
Standard Data Fields	Characteristic Type (CHAR_TYPE_CD), Characteristic Value (CHAR_VAL) on CI_CHAR_VAL Note: If the characteristic type is customizable, the customer can insert a new characteristic value. CM must be prefixed when the implementation team introduces a new characteristic value.
Customer Modification	Adhoc Characteristic Value Validation Rule (ADHOC_VAL_ALG_CD), Allow Search by Characteristic Value (SEARCH_FLG)

E.3.2.9 Configuration Migration Assistant

Properties	Description
Tables	F1_MIGR_PLAN, F1_MIGR_PLAN_L, F1_MIGR_PLAN_INSTR, F1_MIGR_PLAN_INSTR_L, F1_MIGR_PLAN_INSTR_ALG, F1_MIGR_REQ, F1_MIGR_REQ_L, F1_MIGR_REQ_INSTR, F1_MIGR_REQ_INST R_L, F1_MIGR_REQ_INSTR_ENTITY, F1_MIGR_REQ_INCL_REQ
Standard Data Fields	Migration Plan Code (MIGR_PLAN_CD), Migration Request Code (MIGR_REQ_CD)
Customer Modification	None

E.3.2.10 Data Area

Properties	Description
Tables	F1_DATA_AREA, F1_DATA_AREA_L
Standard Data Fields	Data Area Code (DATA_AREA_CD)
Customer Modification	None

E.3.2.11 Display Icon

Properties	Description
Tables	CI_DISP_ICON, CI_DISP_ICON_L
Standard Data Fields	Display Icon Code (DISP_ICON_CD)
Customer Modification	None

E.3.2.12 Extendable Lookup

Properties	Description
Tables	F1_EXT_LOOKUP_VAL, F1_EXT_LOOKUP_VAL_L, F1_EXT_LOOKUP_VAL_CHAR
Standard Data Fields	Business Object (BUS_OBJ_CD), Extendable Lookup Value (F1_EXT_LOOKUP_VALUE)
Customer Modification	Business Object Data Area (BO_DATA_AREA) Override Description (DESCR_OVRD) on Extendable Lookup Field Value Language Table (F1_EXT_LOOKUP_VAL_L) Note: When the product releases base owned records in Extendable Lookup, if there are additional elements the business object will map the element to the BO_DATA_AREA if the value is allowed to be modified by the implementation team.

E.3.2.13 Foreign Key Reference

Properties	Description
Tables	CI_FK_REF, CI_FK_REF_L
Standard Data Fields	FK reference code (FK_REF_CD)
Customer Modification	Info Program Name (INFO_PRG), Zone (ZONE_CD)

E.3.2.14 Inbound Web Service

Properties	Description
Tables	F1_IWS_SVC_L, F1_IWS_SVC, F1_IWS_SVC_OPER_L, F1_IWS_SVC_OPER, F1_IWS_ANN_L, F1_IWS_ANN_PARM, F1_IWS_ANN, F1_IWS_ANN_TYPE_L, F1_IWS_ANN_TYPE, F1_IWS_ANN_TYPE_PARM, F1_IWS_ANN_TYPE_PARM_L
Standard Data Fields	Webservice Name (IN_SVC_NAME), Annotation (ANN_CD), Annotation Type (ANN_TYPE_CD)
Customer Modification	Debug (DEBUG_SW), Active (ACTIVE_SW), Trace (TRACE_SW), Request XSL (REQUEST_XSL), Response XSL (RESPONSE_XSL)

E.3.2.15 Legacy Object

Properties	Description
Tables	F1_LGCY_OBJ
Standard Data Fields	Legacy Object ID (LGCY_OBJ_ID)
Customer Modification	

E.3.2.16 Lookup

Properties	Description
Tables	CI_LOOKUP_FIELD, CI_LOOKUP_VAL, CI_LOOKUP_VAL_L
Standard Data Fields	<p>Field Name (FIELD_NAME)</p> <ul style="list-style-type: none"> A lookup field name must have corresponding field metadata. The name of the lookup field column must be assigned to avoid conflicts among different products. If you follow the standards for database field names, a Customer Modification lookup field name will be automatically Customer Modification prefixed. <p>Field Value (FIELD_VALUE)</p> <ul style="list-style-type: none"> If a lookup field is customizable, Customer Modification can insert new lookup values. X or Y must prefix when implementers introduce a new lookup value. Product development may add lookup values to Oracle Utilities Application Framework owned lookup field's value. When extended new value is added, the Owner Flag is used to prefix the value. For example, when the Oracle Revenue Management and Billing product adds a new value to the algorithm entity flag (ALG_ENTITY_FLG), it is prefixed with C1.
Customer Modification	Override Description (DESCR_OVRD) on Lookup Field Value Language Table (CI_LOOKUP_VAL_L)

E.3.2.17 Map

Properties	Description
Tables	F1_MAP, F1_MAP_L
Standard Data Fields	UI Map (MAP_CD)
Customer Modification	None

E.3.2.18 Managed Content

Properties	Description
Tables	F1_MANAG_CONTENT, F1_MANAG_CONTENT_L
Standard Data Fields	Managed Content (MANAG_CONTENT_CD)
Customer Modification	None

E.3.2.19 Messages

Properties	Description
Tables	CI_MSG_CATEGORY, CI_MSG_CATEGORY_L, CI_MSG, CI_MSG_L
Standard Data Fields	<p>Message Category (MESSAGE_CAT_NBR)</p> <ul style="list-style-type: none"> • Messages are grouped in categories and each category has message numbers between 1 and 99999. A range of message categories is assigned to a product. An implementation may only use categories assigned for customization use. • Implementer Message Categories are 80000 and 90000 • Reserved for Tests – 99999 <p>Message Number (MESSAGE_NBR) for message categories</p> <ul style="list-style-type: none"> • Message numbers below 1000 are reserved for common messages. Implementers must not use message numbers below 1000. <p>Message Number (MESSAGE_NBR) for Java message categories</p> <ul style="list-style-type: none"> • Subsystem Standard Messages - 00001 thru 02000 • Reserved - 02001 thru 09999 • Published Messages - 10001 thru 11000 • Package Messages - 10001 thru 90000 • Reserved - 90001 thru 99999 • Each package is allocated 100 message numbers, each starting from 101. • Published Messages are messages that are special-interest messages that implementations need to know about and are therefore published in the user docs. Examples of these include messages that are highly likely to be changed for an implementation or messages that are embedded into other texts/messages and therefore the message number is never shown. • Reserved message number ranges are for future use and therefore must not be used by all products.
Customer Modification	Override Description (DESCRLONG_OVRD), Message Text Override (MESSAGE_TEXT_OVRD)

E.3.2.20 Meta Data - Table and Field

Properties	Description
Tables	CI_MD_TBL, CI_MD_TBL_FLD, CI_MD_TBL_L, CI_MD_TBL_FLD_L, CI_MD_FLD, CI_MD_FLD_L, F1_DB_OBJECTS_REPO
Standard Data Fields	Table Name (TBL_NAME) <ul style="list-style-type: none"> Table names must match with the physical table name or view name in the database. Field Name (FLD_NAME) Field name must match with the physical column name in the database unless the field is a work field. Field name does not have to follow the prefixing standard unless the field is a work field or customer modification field. F1_DB_OBJECTS_REPO Table stores information about Indexes, Sequences, Triggers and other database objects excluding Tables and Fields (as they are already stored in the other Metadata tables)
Customer Modification	Audit Switches (AUDIT_INSERT_SW, AUDIT_UPDATE_SW, AUDIT_DELETE_SW), Override label (OVRD_LABEL) on MD Table Field Table (CI_MD_TBL_FLD). Audit Program Name (AUDIT_PGM_NAME), Audit Table Name (AUDIT_TBL_NAME), Audit Program Type (AUDIT_PGM_TYPE_FLG), Key Validation (KEY_VALIDATION_FLG) and Caching strategy (CACHE_FLG) on MD Table (CI_MD_TBL). Override Label (OVRD_LABEL) and Customer Specific Description (DESCRLONG_OVRD) on Field Table.

E.3.2.21 Meta Data – Constraints

Properties	Description
Tables	CI_MD_CONST, CI_MD_CONST_FLD
Standard Data Fields	Constraint Id (CONST_ID) <ul style="list-style-type: none"> Index Name for Primary Constraints <Index Name>Rnn for Foreign Key Constraints Where nn: integer, 01 through 99
Customer Modification	None

E.3.2.22 Meta Data - Menu

Menus can be extended to support multiple products by adding a new menu line to an existing menu. The sequence number on the menu line language table (CI_MD_MENU_LINE_L) determines the order the menu lines appear. Within the same sequence, alphabetic sorting is used.

Properties	Description
Tables	CI_MD_MENU, CI_MD_MENU_L, CI_MD_MENU_ITEM, CI_MD_MENU_ITEM_L, CI_MD_MENU_LINE, CI_MD_MENU_LINE_L
Standard Data Fields	Menu Name (MENU_NAME), Menu Item Id (MENU_ITEM_ID), Menu Line Id (MENU_LINE_ID)
Customer Modification	Override Label (OVRD_LABEL) on Menu Line Language Table (CI_MD_MENU_LINE_L)

E.3.2.23 Meta Data - Program, Location and Services

Properties	Description
Tables	CI_MD_PRG_COM, CI_MD_PRG_LOC, CI_MD_SVC, CI_MD_SVC_L, CI_MD_SVC_PRG, CI_MD_PRG_MOD, CI_MD_PRG_EL_AT, CI_MD_PRG_ELEM, CI_MD_PRG_SEC, CI_MD_PRG_SQL, CI_MD_PRG_VAR, CI_MD_PRG_TAB
Standard Data Fields	Program Component Id (PROG_COM_ID), Location Id (LOC_ID), Program Component Name (PROG_COM_NAME), Service Name (SVC_NAME), Navigation Key (NAVIGATION_KEY)
Customer Modification	User Exit Program Name (USER_EXIT_PGM_NAME) on Program Components Table (CI_MD_PRG_COM),

E.3.2.24 Meta Data - Maintenance Object

Properties	Description
Tables	CI_MD_MO, CI_MD_MO_L, CI_MD_MO_TBL, CI_MD_MO_OPT, CI_MD_MO_ALG
Standard Data Fields	Maintenance Object (MAINT_OBJ_CD)
Customer Modification	None

E.3.2.25 Meta Data - Work Tables

Properties	Description
Tables	CI_MD_WRK_TBL, CI_MD_WRK_TBL_L, CI_MD_WRK_TBLFLD, CI_MD_MO_WRK
Standard Data Fields	Work Table Name (WRK_TBL_NAME)
Customer Modification	None

E.3.2.26 Meta Data - Search Object

Properties	Description
Tables	CI_MD_SO, CI_MD_SO_L, CI_MD_SO_RSFLD, CI_MD_SO_RSFLDAT, CI_MD_SOCG, CI_MD_SOCG_FLD, CI_MD_SOCG_FLDAT, CI_MD_SOCG_L, CI_MD_SOCG_SORT
Standard Data Fields	Search Object (SO_CD)
Customer Modification	None

E.3.2.27 Navigation Option

Properties	Description
Tables	CI_NAV_OPT, CI_NAV_OPT_L, CI_NAV_OPT_CTXT, CI_NAV_OPT_USG, CI_MD_NAV
Standard Data Fields	Navigation Option Code (NAV_OPT_CD), Navigation Key (NAVIGATION_KEY)
Customer Modification	None

E.3.2.28 Portal and Zone

Properties	Description
Tables	CI_PORTAL, CI_PORTAL_L, CI_PORTAL_ZONE, CI_ZONE, C1_PORTAL_OPT, CI_ZONE_L, CI_ZONE_PRM, CI_ZONE_HDL, CI_ZONE_HDL_L, CI_ZONE_HDL_PRM, CI_ZONE_HDL_PRM_L, CI_UI_ZONE, CI_PORTAL_OPT
Standard Data Fields	Portal Code (PORTAL_CD), Zone Code (ZONE_CD), Zone Type Code (ZONE_HDL_CD) <ul style="list-style-type: none"> • A new Zone can be added to the Product owned Portal Pages. • The existing Zones cannot be removed from the Product owned Portal Pages.
Customer Modification	Sort Sequence (SORT_SEQ) on Context Sensitive Zone Table (CI_UI_ZONE). Show on Portal Preferences (USER_CONFIG_FLG) on Portal Table (CI_PORTAL). Override Sequence (SORT_SEQ_OVRD) on Portal Zone Table (CI_PORTAL_ZONE). Customer Specific Description (DESCRLONG_OVRD) on Zone Language Table (CI_ZONE_L). Override Parameter Value (ZONE_HDL_PARM_OVRD) on Zone Type Parameters Table (CI_ZONE_HDL_PRM). Override Parameter Value (ZONE_PARM_VAL_OVRD) on Zone Parameters Table (CI_ZONE_PRM).

E.3.2.29 Sequence

Properties	Description
Tables	CI_SEQ
Standard Data Fields	Sequence Name (SEQ_NAME)
Customer Modification	Sequence Number (SEQ_NBR) This field is updated by the application process and must be set to 1 initially.

E.3.2.30 Schema

Properties	Description
Tables	F1_SCHEMA
Standard Data Fields	Schema Name (SCHEMA_NAME)
Customer Modification	None

E.3.2.31 Script

Properties	Description
Tables	CI_SCR, CI_SCR_L, CI_SCR_CRT, CI_SCR_CRT_GRP, CI_SCR_CRT_GRP_L, CI_SCR_DA, CI_SCR_FLD_MAP, CI_SCR_PRMPPT, CI_SCR_PRMPPT_L, CI_SCR_STEP, CI_SCR_STEP_L
Standard Data Fields	Script (SCR_CD)
Customer Modification	None

E.3.2.32 To Do Type

Properties	Description
Tables	CI_TD_TYPE, CI_TD_TYPE_L, CI_TD_SRTKEY_TY, CI_TD_DRLKEY_TY, CI_TD_SRTKEY_TY_L
Standard Data Fields	To Do Type (TD_TYPE_CD)
Customer Modification	Creation Batch Code (CRE_BATCH_CD), Route Batch Code (RTE_BATCH_CD), Priority Flag (TD_PRIORITY_FLG) on To Do Type Table (CI_TD_TYPE)

E.3.2.33 XAI Configuration

Properties	Description
Tables	CI_XAI_ADAPTER, CI_XAI_ADAPTER_L, CI_XAI_CLASS, CI_XAI_CLASS_L, CI_XAI_ENV_HNDL, CI_XAI_ENV_HNDL_L, CI_XAI_FORMAT, CI_XAI_FORMAT_L, CI_XAI_RCVR, CI_XAI_RCVR_L, CI_XAI_RCVR_CTX, CI_XAI_RCVR_RSP, CI_XAI_RCVR_RGRP, CI_XAI_SENDER, CI_XAI_SERNDER_L, CI_XAI_SNDR_CTX, CI_XAI_OPTION
Standard Data Fields	Adapter Id (XAI_ADAPTER_ID), Class Id (XAI_CLASS_ID), Envelope Handler Id (XAI_ENV_HNDL_ID), XAI Format Id (XAI_FORMAT_ID), Receiver Id (XAI_RCVR_ID), Sender Id (XAI_SENDER_ID)
Customer Modification	Option Value (OPTION_VALUE) on Message Option Table (CI_XAI_OPTION)

E.3.2.34 XAI Services

Properties	Description
Tables	CI_XAI_IN_SVC, CI_XAI_IN_SVC_L, CI_XAI_SVC_PARM
Standard Data Fields	XAI Inbound Service Id (XAI_IN_SVC_ID), XAI Inbound Service Name (XAI_IN_SVC_NAME)
Customer Modification	XAI Version (XAI_VERSION_ID), Trace (TRACE_SW), Debug (DEBUG_SW), Request XSL (INPUT_XSL), Response XSL (RESPONSE_XSL), Record XSL (RECORD_XSL and Post Error (POST_ERROR_SW) on XAI Inbound Service Table (CI_XAI_IN_SVC)

E.3.3 Oracle Utilities Application Framework only Tables

All data of the tables in this group belong to Oracle Utilities Application Framework. No data modification or addition is allowed for these tables by base product development and customer modification. When an environment is upgraded to the next release of Oracle Utilities Application Framework, the upgrade process will refresh the data in these tables.

- CI_MD_AT_DTL / CI_MD_AT_DTL_L
- CI_MD_ATT_TY
- CI_MD_CTL / CI_MD_CTL_L
- CI_MD_CTL_TMPL
- CI_MD_ELTY / CI_MD_ELTY_L
- CI_MD_ELTY_AT
- CI_MD_LOOKUP_F
- CI_MD_PDF / CI_MD_PDF_VAL
- CI_MD_MSG / CI_MD_MSG_L
- CI_MD_SRC_TYPE / CI_MD_SRC_TYPE_L
- CI_MD_TMPL / CI_MD_TMPL_L
- CI_MD_TMPL_ELTY
- CI_MD_TMPL_VAR / CI_MD_TMPL_VAR_L
- CI_MD_VAR / CI_MD_VAR_DTL / CI_MD_VAR_DTL_L
- CI_XAI_EXECUTER / CI_XAI_EXECUTER_L

E.4 System Table List

This section contains the names of system tables, upgrade actions, and a brief description of the tables. The upgrade actions are explained below.

Keep (KP): The data of the table in the customer's database is kept untouched. No insert or delete is performed to this table by the upgrade process. The initial installation will add necessary data for the system.

Merge (MG): The non-base product data of the table in the database is kept untouched. If the data belongs to the base product, any changes pertaining to the new version of the software are performed.

Refresh (RF): The existing data in the table is replaced with the data from the base product table.

Note: New product data is also inserted into tables marked as 'Merge'. If implementers add rows for a customer specific enhancement, it can cause duplication when the system data gets upgraded to the next version. We strongly recommend following the guidelines on how to use designated range of values or prefixes to segregate the implementation data from the base product data.

Table Name	Upgrade Action	Description
CI_ALG	MG	Algorithm
CI_ALG_L	MG	Algorithm Language
CI_ALG_PARM	MG	Algorithm Parameters
CI_ALG_TYPE	MG	Algorithm Type
CI_ALG_TYPE_L	MG	Algorithm Type Language
CI_ALG_TYPE_PRM	MG	Algorithm Type Parameter
CI_ALG_TYPE_PRM_L	MG	Algorithm Type Parameter Language
CI_ALG_VER	MG	Algorithm Version
CI_APP_SVC_ACC	MG	Application Service Access Mode
CI_BATCH_CTRL	MG	Batch Control
CI_BATCH_CTRL_ALG	MG	Batch Control Algorithm
CI_BATCH_CTRL_L	MG	Batch Control Language
CI_BATCH_CTRL_P	MG	Batch Control Parameters
CI_BATCH_CTRL_P_L	MG	Batch Control Parameters Language
CI_CHAR_ENTITY	MG	Characteristic Type Entity
CI_CHAR_TYPE	MG	Characteristic Type
CI_CHAR_TYPE_L	MG	Characteristic Type Language
CI_CHAR_VAL	MG	Characteristic Type Value
CI_CHAR_VAL_L	MG	Characteristic Type Value Language
CI_DISP_ICON	MG	Display Icon
CI_DISP_ICON_L	MG	Display Icon Language
CI_FK_REF	MG	Foreign Key Reference
CI_FK_REF_L	MG	Foreign Key Reference Language
CI_LANGUAGE	MG	Language Code
CI_LOOKUP_FIELD	MG	Lookup Field

Table Name	Upgrade Action	Description
CI_LOOKUP_VAL	MG	Lookup Field Value
CI_LOOKUP_VAL_L	MG	Lookup Field Value Language
CI_MD_CONST	MG	Constraints
CI_MD_CONST_FLD	MG	Constraint Fields
CI_MD_FLD	MG	Field
CI_MD_FLD_L	MG	Field Language
CI_MD_MENU	MG	Menu Information
CI_MD_MENU_IMOD	MG	Menu Item Module Maint
CI_MD_MENU_ITEM	MG	Menu Item
CI_MD_MENU_ITEM_L	MG	Menu Item Language
CI_MD_MENU_L	MG	Menu Language
CI_MD_MENU_LINE	MG	Menu Line
CI_MD_MENU_LINE_L	MG	Menu Line Language
CI_MD_MENU_MOD	MG	Menu Product Components
CI_MD_MO	MG	Maintenance Object
CI_MD_MO_ALG	MG	Maintenance Object Algorithm
CI_MD_MO_L	MG	Maintenance Object Language
CI_MD_MO_OPT	MG	Maintenance Object Option
CI_MD_MO_TBL	MG	Maintenance Object Table
CI_MD_MO_WRK	MG	Maintenance Object Work Tables
CI_MD_NAV	MG	Navigation Key
CI_MD_PRG_COM	MG	Program Components
CI_MD_PRG_ELEM	MG	UI Page Elements
CI_MD_PRG_EL_AT	MG	UI Page Element Attributes
CI_MD_PRG_LOC	MG	Program Location
CI_MD_PRG_MOD	MG	Program Module
CI_MD_PRG_SEC	MG	UI Page Sections
CI_MD_PRG_SQL	MG	MD SQL Meta Data
CI_MD_PRG_TAB	MG	UI Tab Meta Data
CI_MD_PRG_VAR	MG	Program Variable
CI_MD_SO	MG	Search Object

Table Name	Upgrade Action	Description
CI_MD_SOCG	MG	Search Object Criteria Group
CI_MD_SOCG_FLD	MG	Search Object Criteria Group Field
CI_MD_SOCG_FLDAT	MG	Search Criteria Group Field Attribute
CI_MD_SOCG_L	MG	Search Object Criteria Group Language
CI_MD_SOCG_SORT	MG	Search Criteria Group Result Sort Order
CI_MD_SO_L	MG	Search Object Language
CI_MD_SO_RSFLD	MG	Search Object Result Field
CI_MD_SO_RSFLDAT	MG	Search Object Result Field Attribute
CI_MD_SVC	MG	MD Service
CI_MD_SVC_L	MG	MD Service Language
CI_MD_SVC_PRG	MG	MD Service Program
CI_MD_TAB_MOD	MG	UI Tab Module
CI_MD_TBL	MG	MD Table
CI_MD_TBL_FLD	MG	MD Table Field
CI_MD_TBL_FLD_L	MG	MD Table Field Language
CI_MD_TBL_L	MG	MD Table Language
CI_MD_WRK_TBL	MG	Work Table
CI_MD_WRK_TBLFLD	MG	Work Table Field
CI_MD_WRK_TBL_L	MG	Work Table Language
CI_MSG	MG	Message
CI_MSG_CATEGORY	MG	Message Category
CI_MSG_CATEGORY_L	MG	Message Category Language
CI_MSG_L	MG	Message Language
CI_NAV_OPT	MG	Navigation Option
CI_NAV_OPT_CTXT	MG	Navigation Option Context
CI_NAV_OPT_L	MG	Navigation Option Language
CI_NAV_OPT_USG	MG	Navigation Option Usage
CI_PORTAL	MG	Portal
CI_PORTAL_L	MG	Portal Language
CI_PORTAL_OPT	MG	Portal Option
CI_PORTAL_ZONE	MG	Portal Zone

Table Name	Upgrade Action	Description
CI_SCR	MG	Script
CI_SCR_CRT	MG	Script Criteria
CI_SCR_CRT_GRP	MG	Script Criteria Group
CI_SCR_CRT_GRP_L	MG	Script Criteria Group Language
CI_SCR_DA	MG	Script Data Area
CI_SCR_FLD_MAP	MG	Script Field Mapping
CI_SCR_L	MG	Script Language
CI_SCR_PRMPPT	MG	Script Prompt
CI_SCR_PRMPPT_L	MG	Script Prompt Language
CI_SCR_STEP	MG	Script Step
CI_SCR_STEP_L	MG	Script Step Language
CI_SEQ	MG	Sequence
CI_TD_DRLKEY_TY	MG	To Do Type Drill Key
CI_TD_SRTKEY_TY	MG	To Do Type Sort Key
CI_TD_SRTKEY_TY_L	MG	To Do Type Sort Key Language
CI_TD_TYPE	MG	To Do Type
CI_TD_TYPE_L	MG	To Do Type Language
CI_UI_ZONE	MG	Context Sensitive Zone
CI_USR_NAV_LINK	MG	User Favorite Links
CI_XAI_ADAPTER	MG	XAI Adapter
CI_XAI_ADAPTER_L	MG	XAI Adapter Lang
CI_XAI_CLASS	MG	Message Class
CI_XAI_CLASS_L	MG	Message Class Language
CI_XAI_ENV_HNDL	MG	XAI Envelope Handler
CI_XAI_ENV_HNDL_L	MG	XAI Envelope Handler Language
CI_XAI_IN_SVC	MG	XAI Inbound Service
CI_XAI_IN_SVC_L	MG	XAI Inbound Service Language
CI_XAI_SVC_PARM	MG	XAI Inbound Service Parameters
CI_ZONE	MG	Zone
CI_ZONE_HDL	MG	Zone Type
CI_ZONE_HDL_L	MG	Zone Type Language

Table Name	Upgrade Action	Description
CI_ZONE_HDL_PRM	MG	Zone Type Parameters
CI_ZONE_HDL_PRM_L	MG	Zone Type Parameters Language
CI_ZONE_L	MG	Zone Language
CI_ZONE_PRM	MG	Zone Parameters
F1_BUS_OBJ	MG	Business Object
F1_BUS_OBJ_ALG	MG	Business Object Algorithm
F1_BUS_OBJ_L	MG	Business Object Language
F1_BUS_OBJ_OPT	MG	Business Object Option
F1_BUS_OBJ_STATUS	MG	Business Object Status
F1_BUS_OBJ_STATUS_ALG	MG	Business Object Status Algorithm
F1_BUS_OBJ_STATUS_L	MG	Business Object Status Language
F1_BUS_OBJ_STATUS_OPT	MG	Business Object Status Option
F1_BUS_OBJ_STATUS_RSN	MG	Status Reason
F1_BUS_OBJ_STATUS_RSN_L	MG	Status Reason Language
F1_BUS_OBJ_TR_RULE	MG	Business Object Transition Rule
F1_BUS_OBJ_TR_RULE_L	MG	Business Object Transition Rule Language
F1_BUS_SVC	MG	Business Service
F1_BUS_SVC_L	MG	Business Service Language
F1_DATA_AREA	MG	Data Area
F1_DATA_AREA_L	MG	Data Area Language
F1_DB_OBJECTS_REPO	MG	Database Objects Repository
F1_EXT_LOOKUP_VAL	MG	Extendable Lookup
F1_EXT_LOOKUP_VAL_L	MG	Extendable Lookup Language
F1_EXT_LOOKUP_VAL_CHAR	MG	Extendable Lookup Characteristics
F1_IWS_ANN	MG	Web Service Annotation
F1_IWS_ANN_L	MG	Web Service Annotation Language
F1_IWS_ANN_PARM	MG	Web Service Annotation Parameter
F1_IWS_ANN_TYPE	MG	Web Service Annotation Type
F1_IWS_ANN_TYPE_L	MG	Web Service Annotation Type Language
F1_IWS_ANN_TYPE_PARM	MG	Web Service Annotation Type Parm

Table Name	Upgrade Action	Description
F1_IWS_ANN_TYPE_PARM_L	MG	Web Service Annotation Type Parameter Language
F1_IWS_SVC	MG	Inbound Web Service
F1_IWS_SVC_L	MG	Inbound Web Service Language
F1_IWS_SVC_OPER	MG	Inbound Web Service Operations
F1_IWS_SVC_OPER_L	MG	Inbound Web Service Operations Language
F1_MANAG_CONTENT	MG	Managed Content
F1_MANAG_CONTENT_L	MG	Managed Content Language
F1_MAP	MG	UI Map
F1_MAP_L	MG	UI Map Language
F1_MIGR_PLAN	MG	Migration Plan
F1_MIGR_PLAN_INSTR	MG	Migration Plan Instruction
F1_MIGR_PLAN_INSTR_ALG	MG	Migration Plan Instruction Algorithm
F1_MIGR_PLAN_INSTR_L	MG	Migration Plan Instruction Language
F1_MIGR_PLAN_L	MG	Migration Plan Language
F1_MIGR_REQ	MG	Migration Request
F1_MIGR_REQ_INSTR	MG	Migration Request Instruction
F1_MIGR_REQ_INSTR_ENTITY	MG	Migration Request Instruction Entity
F1_MIGR_REQ_INSTR_L	MG	Migration Request Instruction Language
F1_MIGR_REQ_L	MG	Migration Request Language
F1_MIGR_REQ_INCL_REQ	MG	Migration Request Grouping
F1_SCHEMA	MG	Schema
SC_ACCESS_CNTL	MG	User Group Access Control
SC_APP_SERVICE	MG	Application Service
SC_APP_SERVICE_L	MG	Application Service Language
SC_USR_GRP_PROF	MG	User Group Profile
CI_ACC_GRP	KP	Access Group
CI_ACC_GRP_DAR	KP	Access Group / Data Access Group
CI_ACC_GRP_L	KP	Access Group Language
CI_APP_SVC_SCTY	KP	Security Type Application Service
CI_CAL_HOL	KP	Work Calendar Holidays

Table Name	Upgrade Action	Description
CI_CAL_HOL_L	KP	Work Calendar Holidays Language
CI_CAL_WORK	KP	Work Calendar
CI_CAL_WORK_L	KP	Work Calendar Language
CI_CHTY_TDTY	KP	To Do Type Template Characteristics
CI_COUNTRY	KP	Country
CI_COUNTRY_L	KP	Country Language
CI_CURRENCY_CD	KP	Currency Code
CI_CURRENCY_CD_L	KP	Currency Code Language
CI_DAR	KP	Data Access Role
CI_DAR_L	KP	Data Access Language
CI_DAR_USR	KP	Data Access User
CI_DISP_PROF	KP	Display Profile
CI_DISP_PROF_L	KP	Display Profile Language
CI_FUNC	KP	Function
CI_FUNC_FLD	KP	Function Field
CI_FUNC_FLD_L	KP	Function Field Language
CI_FUNC_L	KP	Function Language
CI_GEO_TYPE	KP	Geographic Type
CI_GEO_TYPE_L	KP	Geographic Type Language
CI_INSTALL_ALG	KP	Installation Algorithm
CI_INSTALL_MSG	KP	Installation Message
CI_INSTALL_MSG_L	KP	Installation Message Language
CI_INSTALL_PROD	KP	Installation Product
CI_MD_RPT	KP	Report Definition
CI_MD_RPT_L	KP	Report Language
CI_MD_RPT_LBL	KP	Report Labels
CI_MD_RPT_PARM	KP	Report Parameters
CI_MD_RPT_PARM_L	KP	Report Parameters Language
CI_MD_TOOLREP_XML	KP	MD Tool Reference XML
CI_MD_TOOL_REP	KP	MD Tool Reference
CI_NT_DNTY_CTXT	KP	Notification Download Type Context

Table Name	Upgrade Action	Description
CI_NT_DWN_FORM	KP	Notification Download Format
CI_NT_DWN_FORM_L	KP	Notification Download Format Language
CI_NT_DWN_PROF	KP	Notification Download Profile
CI_NT_DWN_PROF_L	KP	Notification Download Profile Language
CI_NT_DWN_TYPE	KP	Notification Download Type
CI_NT_DWN_TYPE_L	KP	Notification Download Type Language
CI_NT_UP_XTYPE	KP	Notification Upload Type
CI_NT_UP_XTYPE_L	KP	Notification Upload Type Language
CI_NT_XID	KP	External System
CI_NT_XID_L	KP	External System Language
CI_PHONE_TYPE	KP	Phone Type
CI_PHONE_TYPE_L	KP	Phone Type Language
CI_ROLE	KP	Role
CI_ROLE_L	KP	Role Language
CI_ROLE_USER	KP	Role User
CI_RPT_OPTION	KP	Report Options
CI_SC_AUTH_LVL	KP	Security Type Auth Level
CI_SC_AUTH_LVL_L	KP	Security Type Auth Level Language
CI_SC_TYPE	KP	Security Type
CI_SC_TYPE_L	KP	Security Type Language
CI_SEAS_SHIFT	KP	Seasonal Time Shift Schedule
CI_SEAS_TM_SHIFT	KP	Seasonal Time Shift
CI_SEAS_TM_SHIFT_L	KP	Seasonal Shift Language
CI_STATE	KP	State
CI_STATE_L	KP	State Language
CI_TD_EX_LIST	KP	To Do Type Message Overrides
CI_TD_TYPE_ALG	KP	To Do Type Algorithms
CI_TD_TYPE_CHAR	KP	To Do Type Characteristic
CI_TD_VAL_ROLE	KP	To Do Type Role
CI_TIME_ZONE	KP	Time Zone
CI_TIME_ZONE_L	KP	Time Zone Language

Table Name	Upgrade Action	Description
CI_USR_GRP_SC	KP	User Group Security Type
CI_USR_BOOKMARK	KP	User Bookmarks
CI_USR_PORTAL	KP	User Portal
CI_USR_SCR	KP	User Scripts
CI_USR_ZONE	KP	User Zone
CI_USR_ZONE_SAVE	KP	User Zone Save
CI_WFM	KP	Feature Configuration
CI_WFM_L	KP	Feature Configuration Language
CI_WFM_MSG	KP	Feature Configuration Message
CI_WFM_OPT	KP	Feature Configuration Options
CI_WF_EVT_TYPE	KP	WF Event Type
CI_WF_EVT_TYPE_L	KP	WF Event Type Language
CI_WF_PP	KP	WF Process Profile
CI_WF_PP_L	KP	WF Process Profile Language
CI_WF_PP_NT	KP	WF Process Notification
CI_WF_PP_NT_CRT	KP	WF Process Notification Criteria
CI_WF_PROC_SCHED	KP	WF Process Creation Schedule
CI_WF_PROC_SCHED_K	KP	WF Process Creation Schedule Key
CI_WF_PROC_TMPL	KP	WF Process Template
CI_WF_PROC_TMPL_L	KP	WF Process Template Language
CI_WF_RESP	KP	WF Response
CI_WF_RESP_DEP	KP	WF Response Dependency
CI_XAI_JDBC_CON	KP	XAI JDBC Connection
CI_XAI_JDBC_CON_L	KP	XAI JDBC Connection Language
CI_XAI_JMS_CON	KP	XAI JMS Connection
CI_XAI_JMS_CON_L	KP	XAI JMS Connection Language
CI_XAI_JMS_Q	KP	XAI JMS Queue
CI_XAI_JMS_Q_L	KP	XAI JMS Queue Language
CI_XAI_JMS_TPC	KP	XAI JMS Topic
CI_XAI_JMS_TPC_L	KP	XAI JMS Topic Language
CI_XAI_JNDI_SVR	KP	XAI JNDI Server

Table Name	Upgrade Action	Description
CI_XAI_JNDI_SVR_L	KP	XAI JNDI Server Language
CI_XAI_OPTION	KP	Message Option
CI_XAI_RCVR	KP	XAI Receiver
CI_XAI_RCVR_CTX	KP	XAI Receiver Context
CI_XAI_RCVR_L	KP	XAI Receiver Language
CI_XAI_RCVR_RGRP	KP	XAI Receiver Rule Group
CI_XAI_RCVR_RSP	KP	XAI Receiver Response
CI_XAI_RGRP	KP	XAI Rule Group
CI_XAI_RGRP_ATT	KP	XAI Rule Group Attachment
CI_XAI_RGRP_L	KP	XAI Rule Group Language
CI_XAI_ROUTING	KP	XAI Routing
CI_XAI_RT_TYPE	KP	XAI Route Type
CI_XAI_RT_TYPE_L	KP	XAI Route Type Language
CI_XAI_RULE	KP	XAI Rule
CI_XAI_SENDER	KP	Message Sender
CI_XAI_SENDER_L	KP	Message Sender Language
CI_XAI_SNDR_CTX	KP	Message Sender Context
F1_BKT_CONFIG	KP	Bucket Configuration
F1_BKT_CONFIG_L	KP	Bucket Configuration Language
F1_BKT_CONFIG_REL_OBJ	KP	Bucket Configuration Related Object
F1_BKT_CONFIG_VAL	KP	Bucket Configuration Value
F1_BKT_CONFIG_VAL_L	KP	Bucket Configuration Value Language
F1_BUS_OBJ_STATUS_RSN_CHAR	KP	Status Reason Characteristic
F1_EXTSYS_OUTMSG_PROF	KP	External System Outbound Message Type
F1_INSTALLATION	KP	Installation Option - Framework
F1_IWS_ANN_CHAR	KP	Web Service Annotation Characteristics
F1_IWS_ANN_TYPE_CHAR	KP	Web Service Annotation Type Characteristics
F1_IWS_SVC_ANN	KP	Inbound Web Service Link to Annotation
F1_IWS_SVC_CHAR	KP	Inbound Web Service Characteristics
F1_IWS_SVC_LOG	KP	Inbound Web Service Log

Table Name	Upgrade Action	Description
F1_IWS_SVC_LOG_PARM	KP	Inbound Web Service Log Parameter
F1_MAP_OVRD	KP	UI Map Override
F1_MD_DB_OBJ	KP	MD Database Object
F1_MST_CONFIG	KP	Master Configuration
F1_OUTMSG_TYPE	KP	Outbound Message Type
F1_OUTMSG_TYPE_L	KP	Outbound Message Type Language
F1_REQ_TYPE	KP	Request Type
F1_REQ_TYPE_L	KP	Request Type Language
F1_REQ_TYPE_LOG	KP	Request Type Log
F1_REQ_TYPE_LOG_PARM	KP	Request Type Log Parameters
F1_SVC_TASK_TYPE	KP	Service Task Type
F1_SVC_TASK_TYPE_CHAR	KP	Service Task Type Characteristics
F1_SVC_TASK_TYPE_L	KP	Service Task Type Language
F1_WEB_SVC	KP	Web Service Adapter
F1_WEB_SVC_CHAR	KP	Web Service Adapter Characteristics
F1_WEB_SVC_L	KP	Web Service Adapter Language
F1_WEB_SVC_LOG	KP	Web Service Adapter Log
F1_WEB_SVC_LOG_PARM	KP	Web Service Adapter Log Parameter
F1_WEB_SVC_OPERATIONS	KP	Web Service Adapter Operations
SC_USER	KP	User
SC_USER_CHAR	KP	User Characteristic
SC_USER_GROUP	KP	User Group
SC_USER_GROUP_L	KP	User Group Language
SC_USR_GRP_USR	KP	User Group User
CI_MD_ATT_TY	RF	MD Element Attribute Type
CI_MD_AT_DTL	RF	MD Element Attribute Type Detail
CI_MD_AT_DTL_L	RF	MD Element Attribute Type Detail Language
CI_MD_CTL	RF	Generator Control
CI_MD_CTL_L	RF	Generator Control Language
CI_MD_CTL_TMPL	RF	Generator Control Template

Table Name	Upgrade Action	Description
CI_MD_ELTY	RF	MD Element Type
CI_MD_ELTY_AT	RF	Element Type Attributes
CI_MD_ELTY_L	RF	Element Type Language
CI_MD_LOOKUP_F	RF	MD Lookup Field
CI_MD_MSG	RF	MD Message
CI_MD_MSG_L	RF	MD Message Language
CI_MD_PDF	RF	Predefined Fields
CI_MD_PDF_VAL	RF	Predefined Values
CI_MD_SRC_TYPE	RF	Source Type
CI_MD_SRC_TYPE_L	RF	Source Type Language
CI_MD_TMPL	RF	Template
CI_MD_TMPL_ELTY	RF	Template Element Types
CI_MD_TMPL_L	RF	Template Language
CI_MD_TMPL_VAR	RF	Template Variable
CI_MD_TMPL_VAR_L	RF	Template Variable Language
CI_MD_VAR	RF	Variable
CI_MD_VAR_DTL	RF	Variable Detail
CI_MD_VAR_DTL_L	RF	Variable Detail Language
CI_XAI_EXECUTER	RF	XAI Executer
CI_XAI_EXECUTER_L	RF	XAI Executer Language

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- Notice Concerning Usage of Concurrent
- Notice Concerning Usage of DOM4J
- Notice Concerning Usage of International Components for Unicode (ICU4J)
- Notice Concerning Usage of Jaxen
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- Notice Concerning Usage of SLF4J
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