Oracle Financial Services Revenue Management and Billing

OR

Oracle Insurance Revenue Management and Billing

Version 26.1.0.0.0

Upgrade Guide

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Oracle Financial Services Revenue Management and Billing/Oracle Insurance Revenue Management and Billing Version 26.1.0.0.0 Upgrade Guide

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

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Preface

About This Document

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

Intended Audience

This document is intended for the following audience:

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

Organization of the Document

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

Section No.	Section Name	Description
Section 1	Preparing for Upgrade	Provides an overview of the upgrade process. It also lists the prerequisites for upgrading the application.
Section 2	Upgrading from ORMB Version 9.0.0.0.0 to 26.1.0.0.0	Explains how to upgrade from Oracle Revenue Management and Billing Version 9.0.0.0.0 to 26.1.0.0.0.
Section 3	Additional Tasks	Lists and describes the additional tasks that you need to perform after upgrading the application.
Appendix A	Known Issues	Lists the known issues in Oracle Revenue Management and Billing Version 26.1.0.0.0.
Appendix B	Third-Party Software Upgrade	Provides a list of third-party software that you need to upgrade before upgrading the application.
Appendix C	New Tables Added in ORMB Version 26.1.0.0.0	Lists and describes the tables that are newly added in Oracle Revenue Management and Billing Version 26.1.0.0.0.
Appendix D	Existing Tables Modified in ORMB Version 26.1.0.0.0	Lists the existing tables and their columns that are modified in Oracle Revenue Management and Billing Version 26.1.0.0.0.

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Section No.	Section Name	Description
Appendix E	Algorithms and Algorithm Types Dropped in ORMB Version 26.1.0.0.0	Lists the algorithms and algorithm types which are dropped in Oracle Revenue Management and Billing Version 26.1.0.0.0.
Appendix F	Parameters Added or Removed from Algorithm Types in ORMB Version 26.1.0.0.0	Lists the parameters which are added or removed from the algorithm types in Oracle Revenue Management and Billing Version 26.1.0.0.0.
Appendix G	Option Types Added or Removed from Feature Configurations in ORMB Version 26.1.0.0.0	Lists the option types which are added or removed from the feature configurations in Oracle Revenue Management and Billing Version 26.1.0.0.0.
Appendix H	Characteristic Types Dropped in ORMB Version 26.1.0.0.0	Lists the characteristic types which are dropped in Oracle Revenue Management and Billing Version 26.1.0.0.0.
Appendix I	Batch Controls Dropped in ORMB Version 26.1.0.0.0	Lists the batch controls which are dropped in Oracle Revenue Management and Billing Version 26.1.0.0.0.
Appendix J	Parameters Added or Removed from Batch Controls in ORMB Version 26.1.0.0.0	Lists the parameters which are added or removed from the batch controls in Oracle Revenue Management and Billing Version 26.1.0.0.0.
Appendix K	Changing the DB User Password	Explains how to change the database user password.
Appendix L	ORMB V26.1.0.0.0 Rollup Packs	Lists the rollup packs available for Oracle Revenue Management and Billing Version 26.1.0.0.0. It also explains how to apply a rollup pack on the application environment and database.
Appendix M	New Tables Added in OUAF Version 25.4	Lists and describes the tables that are newly added in Oracle Utilities Application Framework Version 25.4.
Appendix N	Existing Tables Modified in OUAF Version 25.4	Lists the existing tables and their columns that are modified in Oracle Utilities Application Framework Version 25.4.
Appendix O	Algorithms and Algorithm Types Dropped in OUAF Version 25.4	Lists the algorithms and algorithm types which are dropped in Oracle Utilities Application Framework Version 25.4.
Appendix P	Parameters Added or Removed from Batch Controls in OUAF Version 25.4	Lists the parameters which are added or removed from the batch controls in Oracle Utilities Application Framework Version 25.4.

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Conventions

The following conventions are used across the document:

Convention	Meaning
boldface	Boldface indicates graphical user interface elements associated with an action, or terms defined in the text.
italic	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 information that an end-user needs to enter in the application.

Acronyms

The following acronyms are used in this document:

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

Related Documents

You can see the following documents for more information:

Document Name	Description
Oracle Revenue Management and Billing Version 26.1.0.0.0 Release Notes	Lists the new features and enhancements made in this release. It contains high-level information about the supported platforms, framework upgrade, supported upgrades, unsupported integrations, and media pack downloads. It also lists the discontinued features, bug fixes, and known issues in this release.

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Document Name	Description
Oracle Revenue Management and Billing Version 26.1.0.0.0 Release Overview Guide	Describes the new features, enhancements, user interface level changes, and database level changes made in this release. The new features and enhancements are classified under three categories – Generic (which is intended for both domains), Financial Services, and Insurance. It lists and describes enhancements made in the framework. It also encloses the ORMB and OUAF deprecation notices and enables you to access the product documentation.
Oracle Revenue Management and Billing Upgrade Path Guide	Explains the path and pre-requisites for upgrading Oracle Revenue Management and Billing from one version to another.
Oracle Revenue Management and Billing Direct Database Upgrade Guide	Explains how to directly upgrade the ORMB database from 2.5.0.1.0 or any later version to the current release. It also highlights any known issues during direct database upgrade and how to handle these issues in the database.

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Contents

1. Preparing for Upgrade 1
1.1 Upgrade Overview 1
1.2 Upgrade Pre-requisites 3
1.3 Supported Upgrades 3
2. Upgrading from ORMB Version 9.0.0.0.0 to 26.1.0.0.0 4
2.1 Prerequisites 4
2.2 Downloading the OUAF and ORMB Packages 5
2.2.1 Downloading the OUAF Packages 5
2.2.2 Downloading the ORMB Packages 6
2.3 Upgrading Framework on the Database 7
2.3.1 Pre-requisites 7
2.3.2 Installing Rollup Pack for OUAF Version 25.4 7
2.4 Installing Framework on the Application Environment 10
2.4.1 Installing OUAF Version 25.4 10
2.4.2 Installing Rollup Pack for OUAF Version 25.4 15
2.5 Installing the ORMB Application 17
2.5.1 Installing ORMB Version 26.1.0.0.0 17
2.5.2 Applying the Release-Specific Patches 19
2.5.3 Accessing the ORMB Application 20
2.5.4 Setting the C1-CFS Feature Configuration 21
2.6 Upgrading the ORMB Database 23
2.6.1 Installing ORMB Version 26.1.0.0.0 23
2.6.2 Applying the Release-Specific Patches 26
2.7 Migrating Data 28
3. Additional Tasks 29
3.1 Starting the Thread Pool Worker 29
3.2 Building Javadoc Index 29
3.3 Table Partitioning 30
Appendix A : Known Issues 31
Appendix B : Third-Party Software Upgrade 32
Appendix C : New Tables Added in ORMB Version 26.1.0.0.0 33
C.1 C1_ACCT_SUMMARY 33
C.2 C1_ANOMALY_DETECTED_REASON 35
C.3 C1_BILL_APAY_DTLS_INTG 35
C.4 C1_BILL_SUMMARY 38
C.5 C1_BSEG_SUMMARY 40

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C.6 C1_BUS_RULE_ANOMALY 42
C.7 C1_DEDUCTIBLE_DTL 42
C.8 C1_GENERIC_TEMPLATE 43
C.9 C1_LPC_DTLS_INTG 44
C.10 C1_OBJ_AUDIT_DETAIL 45
C.11 C1_OBJ_AUDIT_HDR 46
C.12 C1_PAR_PRICEITEM_SUMMARY 47
C.13 C1_PER_SUMMARY 49
C.14 C1_PRICEITEM_SUMMARY 51
C.15 C1_PROD_GRP_SUMMARY 55
C.16 CI_PRICING_AMT_CHG 57
C.17 CI_PRICING_AMT_CHG_K 59
C.18 CI_PRICING_DISCREPANCY 59
C.19 CI_PRICING_DISCREPANCY_K 61
Appendix D : Existing Tables Modified in ORMB Version 26.1.0.0.0 62
D.1 C1_ACCOUNT_ANOMALY_DETECTED 62
D.2 C1_ACCT_SUMMARY 62
D.3 C1_ADJ_DTLS_INTG 63
D.4 C1_ANOMALY_DETECTED_REASON 64
D.5 C1_B_ADJ_CHAR_INTG 64
D.6 C1_B_ADJ_DTLS_INTG 64
D.7 C1_B_BCHG_CHAR_INTG 65
D.8 C1_B_BCHG_DTLS_INTG 65
D.9 C1_B_BILL_CHAR_INTG 65
D.10 C1_B_BILL_FACT_INTG 66
D.11 C1_B_BSEG_CHAR_INTG 66
D.12 C1_B_BSEG_DTLS_INTG 67
D.13 C1_B_DIM_ACCT_INTG 67
D.14 C1_B_DIM_CUST_INTG 67
D.15 C1_B_FT_GL_DTLS_INTG 68
D.16 C1_B_PER_CHAR_INTG 68
D.17 C1_BILL_APAY_DTLS_INTG 69
D.18 C1_BILL_FACT_INTG 69
D.19 C1_BILL_SUMMARY 70
D.20 C1_BSEG_SUMMARY 71
D.21 C1_DEDUCTIBLE_DTL 71
D.22 C1_DELIN_DTLS_INTG 71
D.23 C1_DELIN_PROC_TYPE_GRC_PRD_DF 72
D.24 C1_DIM_ACCT_INTG 72

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D.25 C1_FT_GL_DTLS_INTG ... 73
D.26 C1_GENERIC_TEMPLATE ... 74
D.27 C1_LPC_DTLS_INTG ... 75
D.28 C1_PAY_DTLS_INTG ... 75
D.29 C1_PER_SUMMARY ... 75
D.30 C1_RF_BASE_TXN_DTLS ... 76
D.31 C1_RF_BY_ACCT ... 76
D.32 C1_RF_BY_CUST ... 76
D.33 C1_RF_TEST_ACCT ... 77
D.34 C1_RF_TEST_CUST ... 77
D.35 C1_RF_TRAIN_ACCT ... 77
D.36 C1_RF_TRAIN_CUST ... 78
D.37 C1_RF_TTS_ACCT ... 78
D.38 C1_RF_TTS_CUST ... 78
D.39 C1_SLAB_BC_PRED ... 79
D.40 C1_SLAB_BC_TRAIN ... 79
D.41 C1_TAD_PRED ... 79
D.42 CI_FILE_REQUEST_TYPE ... 80
D.43 CI_MEMB_PRC_AUDIT ... 81
D.44 CI_PRICING_AMT_CHG ... 81
D.45 TEMP_FUTURE_DATES_ACCT ... 81
D.46 TEMP_MAX_DATES_ACCT ... 82
D.47 TEMP_PRED_EXCHRATES ... 82
D.48 TMP_UPA_IMP_BCHG ... 83
Appendix E : Algorithms and Algorithm Types Dropped in ORMB Version 26.1.0.0.0 ... 84
E.1 Algorithm Types ... 84
E.2 Algorithms ... 84
Appendix F : Parameters Added or Removed from Algorithm Types in ORMB Version 26.1.0.0.0 ... 85
Appendix G : Option Types Added or Removed from Feature Configurations in ORMB Version 26.1.0.0.0 86
Appendix H : Characteristic Types Dropped in ORMB Version 26.1.0.0.0 ... 89
Appendix I : Batch Controls Dropped in ORMB Version 26.1.0.0.0 ... 90
Appendix J : Parameters Added or Removed from Batch Controls in ORMB Version 26.1.0.0.0 ... 91
Appendix K : Changing the DB User Password ... 94
Appendix L : ORMB V26.1.0.0.0 Rollup Packs ... 95
L.1 Applying a Rollup Pack on the Application Environment ... 95
L.2 Applying a Rollup Pack on the Database ... 96
Appendix M : New Tables Added in OUAF Version 25.4 ... 98
M.1 CI_BATCH_CTRL_OPT ... 98

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M.2 F1_ATTACHMENT_DATA 99
M.3 F1_PATCH_DETAILS 99
M.4 F1_PROD_METRIC_SNPSHT 100
M.5 F1_PROD_METRIC_SNPSHT_K 101
M.6 F1_PROD_METRIC_SNPSHT_VAL 101
M.7 F1_PROD_METRIC_TYPE 102
M.8 F1_PROD_METRIC_TYPE_L 103
Appendix N : Existing Tables Modified in OUAF Version 25.4 104
N.1 C1_ADJ_DTLS_INTG 104
N.2 C1_B_ACCT_CHAR_INTG 104
N.3 C1_B_ADJ_CHAR_INTG 105
N.4 C1_B_ADJ_DTLS_INTG 106
N.5 C1_B_BCHG_CHAR_INTG 106
N.6 C1_B_BCHG_DTLS_INTG 107
N.7 C1_B_BILL_CHAR_INTG 108
N.8 C1_B_BILL_FACT_INTG 109
N.9 C1_BILL_FACT_INTG 110
N.10 C1_B_BSEG_CHAR_INTG 111
N.11 C1_B_BSEG_DTLS_INTG 112
N.12 C1_BSEG_DTLS_INTG 113
N.13 C1_B_DIM_ACCT_INTG 113
N.14 C1_B_DIM_CUST_INTG 113
N.15 C1_B_FT_GL_DTLS_INTG 114
N.16 C1_B_PER_CHAR_INTG 114
N.17 C1_DIM_ACCT_INTG 115
N.18 C1_ENT_BUS_RULE 116
N.19 C1_FILE_REQUEST_BATCH_SUMMARY 116
N.20 C1_RF_BASE_TXN_DTLS 117
N.21 C1_TAD_PRED 117
N.22 CMC_TB_AIF_EMBEDDING_METRICS 118
N.23 CMC_TB_AIF_GENERATE_METRICS 118
N.24 PLATO_DEBUG_USERS 118
N.25 TEMP_ACCT_MAX_EXCHRATES 119
N.26 TEMP_ACCT_MAX_EXCHRATES 119
N.27 CI_BATCH_CTRL 119
N.28 CI_TXN_DISAGG_REQ 120
N.29 CI_PORTAL 120
N.30 CI_ZONE 120
N.31 F1_ATTACHMENT 121

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N.32 F1_REQ_TYPE 121
N.33 F1_REQ_TYPE_L 121
N.34 F1_SIBSCH_TBLS_VW 122
Appendix O : Algorithms and Algorithm Types Dropped in OUAF Version 25.4 123
O.1 Algorithm Types 123
O.2 Algorithms 123
Appendix P : Parameters Added or Removed from Batch Controls in OUAF Version 25.4 124

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1. Preparing for Upgrade

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

1.1 Upgrade Overview

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

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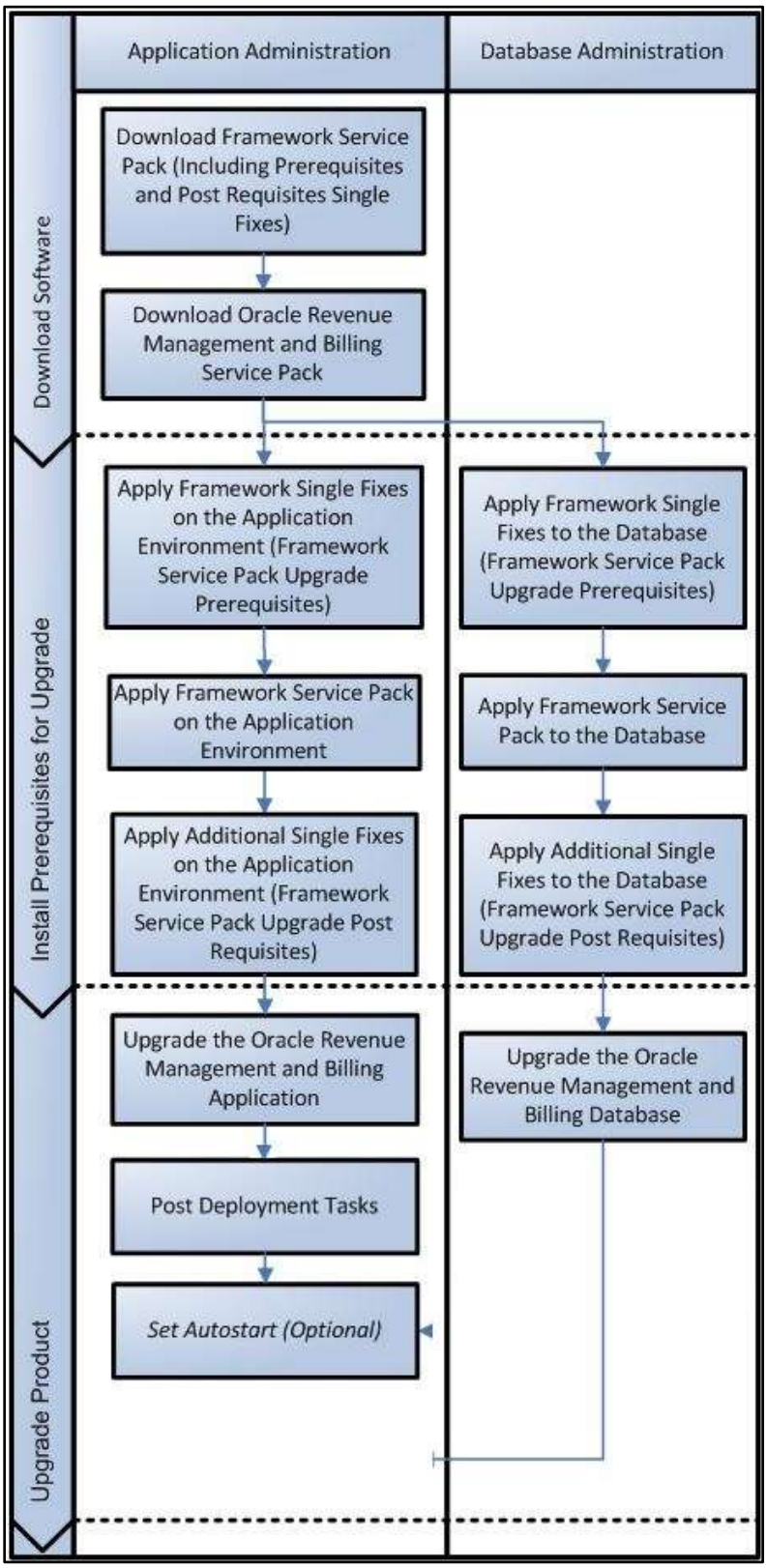


Figure 1: Upgrade Process

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1.2 Upgrade Pre-requisites

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

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

1.3 Supported Upgrades

In this release, we support the following upgrades:

- Upgrade from Oracle Revenue Management and Billing Version 9.0.0.0.0 to 26.1.0.0.0

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2. Upgrading from ORMB Version 9.0.0.0.0 to 26.1.0.0.0

This section explains how to upgrade from Oracle Revenue Management and Billing Version 9.0.0.0.0 to 26.1.0.0.0. The high-level steps include:

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

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

2.1 Prerequisites

If you are already using the Transaction Feed Management feature and want to upgrade to Oracle Revenue Management and Billing Version 26.1.0.0.0, then you need to ensure the following (before upgrading):

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

Also, ensure that no data exists in the **CI_BCHG_TEMP** table before you start the upgrade process. If there is data in the **CI_BCHG_TEMP** table, it means all billing batches are not yet executed for a set of bills.

We recommend you to either complete the billing process for such bills by executing all the billing batches or delete the data from the **CI_BCHG_TEMP** table. Otherwise, erroneous results might occur when you execute the billing batches after the upgrade.

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Note:

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

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

2.2 Downloading the OUAF and ORMB Packages

For upgrading from Oracle Revenue Management and Billing Version 9.0.0.0.0 to 26.1.0.0.0, you must download the following packages from the **Oracle Financial Services Revenue Management and Billing 26.1.0.0.0** or **Oracle Insurance Revenue Management and Billing 26.1.0.0.0** media pack which is available on Oracle Software Delivery Cloud:

- Oracle Financial Services Revenue Management and Billing 26.1.0.0.0 - Oracle Utilities Application Framework (25.4) Single Fix Prerequisite Rollup
- Oracle Financial Services Revenue Management and Billing 26.1.0.0.0 - Multiplatform
- Oracle Financial Services Revenue Management and Billing 26.1.0.0.0 - Oracle Database

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

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

The downloaded files will be in the ZIP format.

2.2.1 Downloading the OUAF Packages

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

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

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

To download the OUAF packages:

1. Login to Oracle Software Delivery Cloud.
2. Select the **Release** option from the **All Categories** list.
3. Type **Oracle Utilities Application Framework** in the corresponding text box.
4. Click **Search**. A list of media packs appears in the search results.
5. Click the **Select** ( ) icon corresponding to the **Oracle Utilities Application Framework 25.4** media pack.
6. If required, you can verify the media pack which is selected by clicking the **View Items** link.

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7. Click the **Continue** link. A page appears.
8. Select the required platform from the **Platforms/Languages** list.
9. Click **Continue**. A page appears with the license agreement.
10. Scroll and read the entire license agreement and then click the **I reviewed and accept the Oracle License Agreement** option.
11. Click **Continue**. The **File Download** page appears.
12. Select the **Oracle Utilities Application Framework 25.4 - Application Installation Media** package from the media pack.
13. Click **Download**. An executable file is downloaded on your local machine.
14. Run the executable file. The **Oracle Download Manager** window appears.
15. Browse to the location where you want to download the packages and then click **Next**. The packages are downloaded on your local machine.

2.2.2 Downloading the ORMB Packages

Oracle Financial Services Revenue Management and Billing 26.1.0.0.0 and **Oracle Insurance Revenue Management and Billing 26.1.0.0.0** media packs can be installed on the following supported platforms:

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

The media pack includes multiple packages. For more information, see the **Media Pack Contents** section in the *Oracle Revenue Management and Billing Version 26.1.0.0.0 Quick Installation Guide*.

To download the ORMB packages:

1. Login to Oracle Software Delivery Cloud.
2. Select the **Release** option from the **All Categories** list.
3. Type **Oracle Financial Services Revenue Management and Billing** or **Oracle Insurance Revenue Management and Billing** in the corresponding text box.
4. Click **Search**. A list of media packs appears in the search results.
5. Click the **Select** ( ) icon corresponding to the **Oracle Financial Services Revenue Management and Billing 26.1.0.0.0** or **Oracle Insurance Revenue Management and Billing 26.1.0.0.0** media pack.
6. If required, you can verify the media pack which is selected by clicking the **View Items** link.
7. Click the **Continue** link. A page appears.
8. Select the required platform from the **Platforms/Languages** list.
9. Click **Continue**. A page appears with the license agreement.
10. Scroll and read the entire license agreement and then click the **I reviewed and accept the Oracle License Agreement** option.
11. Click **Continue**. The **File Download** page appears.
12. Select the following packages from the media pack:
    - Oracle Financial Services Revenue Management and Billing 26.1.0.0.0 - Oracle Utilities Application Framework (25.4) Single Fix Prerequisite Rollup
    - Oracle Financial Services Revenue Management and Billing 26.1.0.0.0 - Multiplatform

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- Oracle Financial Services Revenue Management and Billing 26.1.0.0.0 - Oracle Database

13. Click **Download**. An executable file is downloaded on your local machine.
14. Run the executable file. The **Oracle Download Manager** window appears.
15. Browse to the location where you want to download the packages and then click **Next**. The packages are downloaded on your local machine.

2.3 Upgrading Framework on the Database

While upgrading from Oracle Revenue Management and Billing Version 9.0.0.0.0 to 26.1.0.0.0, you need to install the following on the database:

1. Rollup Pack for Oracle Utilities Application Framework (OUAF) Version 25.4

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

2.3.1 Pre-requisites

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

- Set the **MAX_STRING_SIZE** parameter to **EXTENDED** – For more information, see the **Setting the MAX_STRING_SIZE Parameter to EXTENDED** topic of the **Initial Install or Installing Version 26.1.0.0.0 for the First Time** section in the *Oracle Revenue Management and Billing Database Administrator's Guide*.
- Assign the **Execute** privilege for the **DBMS_CRYPTO** package to the **CISADM** user - For more information, see the **Enabling the DBMS_CRYPTO Package** topic of the **Initial Install or Installing Version 26.1.0.0.0 for the First Time** section in the *Oracle Revenue Management and Billing Database Administrator's Guide*.
- Set the interval partitioning for the **F1_MO_UPD** and **F1_MO_UPD_BACKLOG** tables – For more information, see the **Partitioning F1_MO_UPD and F1_MO_UPD_BACKLOG Tables** section of the *Oracle Revenue Management and Billing Database Administrator's Guide*.

2.3.2 Installing Rollup Pack for OUAF Version 25.4

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

1. Login to the database server using the administrator's credentials.
2. Copy the **Oracle Financial Services Revenue Management and Billing 26.1.0.0.0 - Oracle Utilities Application Framework (25.4) Single Fix Prerequisite Rollup** package to the `TEMPDIR` folder using the following command:

   Linux:

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

   Windows:

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

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

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

   Linux:

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

   Windows:

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

4. Unzip the **Oracle Financial Services Revenue Management and Billing 26.1.0.0.0 - Oracle Utilities Application Framework (25.4) Single Fix Prerequisite Rollup** package using the following command:

   Linux:

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

   Windows:

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

   The contents of the zip file are extracted in the <DESTINATION_FOLDER_1> folder. The contents include the ORMB-V261000-FW-PREREQ-MultiPlatform.jar file.

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

   Linux:

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

   Windows:

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

6. Decompress the JAR file using the following command:

   ```
   jar -xvf ORMB-V261000-FW-PREREQ-MultiPlatform.jar
   ```

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

   - Application
   - Database

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

   Linux:

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

   Windows:

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

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

   ```
   mkdir dbpatch_tools
   ```

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

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

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

    Linux:

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

    Windows:

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

12. Decompress the JAR file using the following command:

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

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

    - bin
    - config
    - lib

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

    Linux:

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

    Windows:

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

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

    Linux:

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

    Windows:

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

Note: The <DESTINATION_FOLDER_1> folder is the location where you have extracted the contents of the ORMB-V261000-FW-PREREQ-MultiPlatform.jar file.

15. Execute the ouafDatabasePatch utility using the following command:

    Windows:

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

    OR

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

    Linux:

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

    OR

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

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

```
chmod 755 ouafDatabasePatch.sh
```

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

Parameter	Value

`Enter the target database type (O/M/D) [O]`	`O (if you have Oracle database)`
	`OR`
	`M (if you have MySQL database)`

`Enter the username that owns the schema`	`<DB_USER>` Example: `CISADM`
`Enter the password for the <DB_USER> user`	`<DB_USER_PASSWORD>`

`Enter the name of the Oracle Database Connection String`	`<DB_SERVER:DB_PORT:DB_SID>`
	`OR`
	`<DB_SERVER:DB_PORT/SERVICE_NAME>`

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

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

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

2.4 Installing Framework on the Application Environment

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

1. Oracle Utilities Application Framework (OUAF) Version 25.4
2. Rollup Pack for Oracle Utilities Application Framework (OUAF) Version 25.4

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

2.4.1 Installing OUAF Version 25.4

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

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

   ```
   mkdir TEMPDIR
   ```


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

   Linux:

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

   Windows:

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

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

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

   Linux:

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

   Windows:

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

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

   Linux:

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

   Windows:

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

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

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

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

7. Set the Java_Home path using the following command:

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

Points to Note:

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

The above command is applicable only for Linux platform.

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

   Linux:

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

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Windows:

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

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

9. Execute the install utility using the following command:

   Linux:

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

   Windows:

   ```
   install.cmd
   ```

   The following message appears in the command line:

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

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

10. Type <ORACLE_CLIENT_HOME>, and then press **Enter**. The following environment installation menus appear in the command line:
    - 1. Environment ID, Roles, Third Party Software Configuration
    - 2. Keystore Options
    - 50. Environment Installation Options

Points to Note:

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

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

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

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

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

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

15. Type **50** to define values for the environment installation options, and then press **Enter**. The utility prompts you to enter values for a list of menu options.

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

Points to Note:

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

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

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

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

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

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

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

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

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

24. Type **4** to define values for the database configuration, and then press **Enter**. The utility prompts you to enter values for a list of menu options.
25. Specify the required value for menu options, and then press **Enter**. The specified values are stored in the `$SPLEBASE/etc/ENVIRON.INI` file.

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

26. Type **5** to define values for the general configuration options, and then press **Enter**. The utility prompts you to enter values for a list of menu options.
27. Specify the required value for menu options, and then press **Enter**. The specified values are stored in the `$SPLEBASE/etc/ENVIRON.INI` file.

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

28. Type **6** to define values for the OUAF TrustStore Options, and then press **Enter**. The utility prompts you to enter values for a list of menu options.
29. Specify the required value for menu options, and then press **Enter**. The specified values are stored in the `$SPLEBASE/etc/ENVIRON.INI` file.

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

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

Points to Note:

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

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

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

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

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

   → $PATH - Updated to include all the required environment scripts and objects.

   → $SPLEBASE (%SPLEBASE%) – Indicates the `<SPLDIR>/<SPLENVIRON>` folder

   → $SPLOUTPUT (%SPLOUTPUT%) - Indicates the `<SPLDIROUT>/<SPLENVIRON>` folder

   → $SPLENVIRON (%SPLENVIRON%) – Indicates the environment name

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Points to Note:

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

Linux:

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

Windows:

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

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

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

2.4.2 Installing Rollup Pack for OUAF Version 25.4

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

1. Copy the **Oracle Financial Services Revenue Management and Billing 26.1.0.0.0 - Oracle Utilities Application Framework (25.4) Single Fix Prerequisite Rollup** package to the `TEMPDIR` folder using the following command:

   Linux:

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

   Windows:

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

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

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

   Linux:

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

   Windows:

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

3. Unzip the **Oracle Financial Services Revenue Management and Billing 26.1.0.0.0 - Oracle Utilities Application Framework (25.4) Single Fix Prerequisite Rollup** package using the following command:

   Linux:

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

   Windows:

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

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The contents of the zip file are extracted in the <DESTINATION_FOLDER_2> folder. The contents include the ORMB-V261000-FW-PREREQ-MultiPlatform.jar file.

4. Decompress the JAR file using the following command:

   ```
   jar -xvf ORMB-V261000-FW-PREREQ-MultiPlatform.jar
   ```

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

   - Application
   - Database

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

   Linux:

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

   Windows:

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

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

   Linux:

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

   Windows:

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

Note: The <DESTINATION_FOLDER_2> folder is the location where you have extracted the contents of the ORMB-V261000-FW-PREREQ-MultiPlatform.jar file.

7. Execute the installSFgroup utility using the following command:

   Linux:

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

   Windows:

   ```
   installSFgroup.cmd
   ```

   The following message appears in the command line:

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

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

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2.5 Installing the ORMB Application

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

1. Oracle Revenue Management and Billing (ORMB) Version 26.1.0.0.0
2. Oracle Revenue Management and Billing (ORMB) Version 26.1.0.0.0 Post Requisite Patches

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

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

2.5.1 Installing ORMB Version 26.1.0.0.0

To install Oracle Revenue Management and Billing (ORMB) Version 26.1.0.0.0 on the application environment:

1. Login to the application server using the administrator's credentials.
2. Copy the **Oracle Financial Services Revenue Management and Billing 26.1.0.0.0 - Multiplatform** package to the `TEMPDIR` folder using the following command:

   Linux:

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

   Windows:

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

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

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

   Linux:

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

   Windows:

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

4. Unzip the **Oracle Financial Services Revenue Management and Billing 26.1.0.0.0 - Multiplatform** package using the following command:

   Linux:

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

   Windows:

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

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The contents of the zip file are extracted in the <DESTINATION_FOLDER_3> folder. The contents include ORMB.V26.1.0.0.0 folder.

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

   Linux:

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

   Windows:

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

6. Stop the managed server where the application is hosted using the Oracle WebLogic Console.
7. Change to the ORMB.V26.1.0.0.0 folder using the following command:

   Linux:

   ```
   cd <DESTINATION_FOLDER_3>/ORMB.V26.1.0.0.0
   ```

   Windows:

   ```
   cd <DESTINATION_FOLDER_3>\ORMB.V26.1.0.0.0
   ```

8. Execute the install utility using the following command:

   Linux:

   ```
   ./install.sh
   ```

   Windows:

   ```
   install.cmd
   ```

   The following message appears in the command line:

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

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

Points to Note:

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

Linux:

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

Windows:

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

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

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2.5.2 Applying the Release-Specific Patches

Once you install Oracle Revenue Management and Billing (ORMB) Version 26.1.0.0.0, you need to apply the release-specific patches on the application environment. To view the list of patches that you need to apply on the application environment, see the *ORMB V26.1.0.0.0 Patch Guide (Article ID: KB937619)* on My Oracle Support. Alternatively, instead of individually applying the patches, you can download and install the rollup packs, if available, to apply a set of patches at once. For more information about the rollup packs, see Appendix L: ORMB V26.1.0.0.0 Rollup Packs.

To apply a patch:

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

   Linux:

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

   Windows:

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

   The contents of the zip file are extracted in the `<DESTINATION_FOLDER_4>` folder. The contents include three files - `README.txt`, `MultiPlatform.zip`, and `Bug_<PATCH_NUMBER>_Product_Fix_Design.pdf`.
3. Unzip the `MultiPlatform.zip` file using the following command:

   Linux:

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

   Windows:

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

   The contents of the zip file are extracted in the `<DESTINATION_FOLDER_5>` folder. The contents include the `V26.1.0.0.0-<PATCH_NUMBER>_MultiPlatform` folder.
4. Change to the `V26.1.0.0.0-<PATCH_NUMBER>_MultiPlatform` folder using the following command:

   Linux:

   ```
   cd <DESTINATION_FOLDER_5>/V26.1.0.0.0-PATCH_NUMBER>_MultiPlatform
   ```

   Windows:

   ```
   cd <DESTINATION_FOLDER_5>\V26.1.0.0.0-PATCH_NUMBER>_MultiPlatform
   ```

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

The contents include a file named `CCB.V26.1.0.0.0-<PATCH_NUMBER>.jar` and a directory named `database`.

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5. Decompress the CCB.V26.1.0.0.0-<PATCH_NUMBER>.jar file using the following command:

   ```
   jar -xvf CCB.V26.1.0.0.0-<PATCH_NUMBER>.jar
   ```

   The contents include two sub-folders - META-INF and CCB.V26.1.0.0.0-<PATCH_NUMBER>.

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

   Linux:

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

   Windows:

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

   Where,

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

7. Change to the CCB.V26.1.0.0.0-<PATCH_NUMBER> folder using the following command:

   Linux:

   ```
   cd <DESTINATION_FOLDER_5>/V26.1.0.0.0-
   <PATCH_NUMBER>_MultiPlatform/CCB.V26.1.0.0.0-<PATCH_NUMBER>
   ```

   Windows:

   ```
   cd <DESTINATION_FOLDER_5>\V26.1.0.0.0-
   <PATCH_NUMBER>_MultiPlatform\CCB.V26.1.0.0.0-<PATCH_NUMBER>
   ```

8. Install the patch using the following command:

   Linux:

   ```
   ./installSF.sh
   ```

   Windows:

   ```
   installSF.cmd
   ```

9. Start the managed server using the Oracle WebLogic Console.

2.5.3 Accessing the ORMB Application

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

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

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2.5.4 Setting the C1-CFS Feature Configuration

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

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

1. Login to Oracle Revenue Management and Billing Version 26.1.0.0.0.
2. Click the **Admin** link in the **Application** toolbar. A list appears.
3. From the **Admin** menu, select **F** and then click **Feature Configuration**. A sub-menu appears.
4. Click the **Search** option from the **Feature Configuration** sub-menu. The **Feature Configuration Query** screen appears.
5. In the **Feature Configuration Search** zone, enter **C1-CFS** in the **Feature Name** field.
6. Click **Search**. A list of feature configurations that meet the search criteria appears in the search results.
7. In the **Search Results** section, click the link in the **Description** column corresponding to the feature configuration whose details you want to edit. The **Feature Configuration** screen appears. It contains the following option types:

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

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

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

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2.6 Upgrading the ORMB Database

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

While upgrading from Oracle Revenue Management and Billing Version 9.0.0.0.0 to 26.1.0.0.0, you need to install the following on the database:

1. Oracle Revenue Management and Billing (ORMB) Version 26.1.0.0.0
2. Oracle Revenue Management and Billing (ORMB) Version 26.1.0.0.0 Post Requisite Patches

Points to Note:

To view the list of patches that you need to apply on the database, see the *ORMB V26.1.0.0.0 Patch Guide (Article ID: KB937619)* on My Oracle Support.

Alternatively, instead of individually applying the patches, you can download and install the rollup packs, if available, to apply a set of patches at once. For more information about the rollup packs, see Appendix L: ORMB V26.1.0.0.0 Rollup Packs.

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

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

2.6.1 Installing ORMB Version 26.1.0.0.0

To install Oracle Revenue Management and Billing (ORMB) Version 26.1.0.0.0:

1. Login to the database server using the administrator's credentials.
2. Copy the **Oracle Financial Services Revenue Management and Billing 26.1.0.0.0 - Oracle Database** package to the `TEMPDIR` folder using the following command:

   Linux:

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

   Windows:

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

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

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

   Linux:

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

   Windows:

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

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4. Unzip the **Oracle Financial Services Revenue Management and Billing 26.1.0.0.0 - Oracle Database** package using the following command:

   Linux:

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

   Windows:

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

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

   - RMB

Note:

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

```
-INDEX: 'INDEX1', 'INDEX2', 'INDEX3'
-TABLE: 'TBALE1_NAME', 'TABLE2_NAME'
```

For example,

```
-INDEX: 'XXT033P0', 'XXT034P0', 'XXT035P0'
-TABLE: 'F1_WEB_SVC'
```

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

   Linux:

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

   Windows:

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

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

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

   Linux:

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

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

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

   Linux:

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

   Windows:

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

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

   Linux:

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

   Windows:

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

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

   Windows:

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

   Linux:

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

   The following message appears in the command line:

   ```
   Ready to upgrade the target database from V9.0.0.0.0 to
   V26.1.0.0.0, do you want to continue (Y/N)?
   ```

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

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2.6.2 Applying the Release-Specific Patches

Once you install Oracle Revenue Management and Billing Version 26.1.0.0.0, you need to apply all patches listed in the *ORMB V26.1.0.0.0 Patch Guide (Article ID: KB937619)*. You can apply a patch from a Windows machine or UNIX Standalone server.

To apply a patch:

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

   Linux:

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

   Windows:

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

   The contents of the zip file are extracted in the `<DESTINATION_FOLDER_3>` folder. The contents include three files - `README.txt`, `MultiPlatform.zip`, and `Bug_<PATCH_NUMBER>_Product_Fix_Design.pdf`.
3. Unzip the `MultiPlatform.zip` file using the following command:

   Linux:

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

   Windows:

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

   The contents of the zip file are extracted in the `<DESTINATION_FOLDER_4>` folder. The contents include the `V26.1.0.0.0-<PATCH_NUMBER>_MultiPlatform` folder.
4. Change to the `V26.1.0.0.0-<PATCH_NUMBER>_MultiPlatform` folder using the following command:

   Linux:

   ```
   cd <DESTINATION_FOLDER_4>/V26.1.0.0.0-
   <PATCH_NUMBER>_MultiPlatform
   ```

   Windows:

   ```
   cd <DESTINATION_FOLDER_4>\V26.1.0.0.0-
   <PATCH_NUMBER>_MultiPlatform
   ```

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

The contents include a file named `CCB.V26.1.0.0.0-<PATCH_NUMBER>.jar` and a folder named `database`.

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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.zip file using the following command:

   Linux:

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

   Windows:

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

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

7. Execute the ouafDatabasePatch utility using the following command:

   Windows:

   ```
   ouafDatabasePatch.cmd
   ```

   Linux:

   ```
   ouafDatabasePatch.sh
   ```

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

```
chmod 755 ouafDatabasePatch.sh
```

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

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

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

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

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

2.7 Migrating Data

No data migration is required while upgrading from Oracle Revenue Management and Billing Version 9.0.0.0.0 to 26.1.0.0.0.

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3. Additional Tasks

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

1. Starting the Thread Pool Worker
2. Building Javadoc Index
3. Table Partitioning

3.1 Starting the Thread Pool Worker

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

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

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

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

Linux:

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

Windows:

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

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

3.2 Building Javadoc Index

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

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

Linux:

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

Windows:

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

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

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3.3 Table Partitioning

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

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

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Appendix A : Known Issues

To view the known issues in the current release, see Known Issues.

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Appendix B : Third-Party Software Upgrade

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

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Appendix C : New Tables Added in ORMB Version 26.1.0.0.0

This section lists and describes the tables that are newly added in Oracle Revenue Management and Billing Version 26.1.0.0.0.

C.1 C1_ACCT_SUMMARY

Purpose:	Used to store summary details of an account.
Total Number of Columns:	39

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
ACCT_ID	CHAR(10)	No	-
BILL_PROFIT_ACCT_DIV_CURR_AMT	NUMBER(22,36)	Yes	-
BILL_PROFIT_AMT	NUMBER(22,36)	Yes	-
BILL_PROFIT_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
BILL_PROFITABILITY	NUMBER(22,36)	Yes	-
CIS_DIVISION	CHAR(5)	No	-
COST_SQI	NUMBER(22,36)	Yes	-
COST_SQI_CD	CHAR(8)	Yes	-
LAST_UPD_DTTM	DATE(7)	Yes	-
NET_ACCT_DIV_CURR_REV	NUMBER(22,36)	Yes	-
NET_IMPL_CURR_REV	NUMBER(22,36)	Yes	-
NET_PROFIT_AMT	NUMBER(22,36)	Yes	-
NET_PROFIT_AMT_PER_DIV_CURR_AMT	NUMBER(22,36)	Yes	-
NET_PROFIT_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
NET_PROFITABILITY	NUMBER(22,36)	Yes	-
NET_REVENUE	NUMBER(22,36)	Yes	-
PERIOD	CHAR(6)	No	-
PROFIT_ACCT_DIV_CURR_AMT	NUMBER(22,36)	Yes	-
PROFIT_AMT	NUMBER(22,36)	Yes	-
PROFIT_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-

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Column Name	Data Type	Nullable (Yes or No)	Default Value
PROFITABILITY	NUMBER(22,36)	Yes	-
SQI_CD	CHAR(8)	Yes	-
SVC_QTY	NUMBER(22,36)	Yes	-
TOT_ADJ_COUNT	NUMBER(22,36)	Yes	-
TOT_BILL_ACCT_DIV_CURR_AMT	NUMBER(22,36)	Yes	-
TOT_BILL_AMT	NUMBER(22,36)	Yes	-
TOT_BILL_COUNT	NUMBER(22,15)	Yes	-
TOT_BILL_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
TOT_BSEG_COUNT	NUMBER(22,15)	Yes	-
TOT_CAN_BILLS	NUMBER(22,15)	Yes	-
TOT_COST_ACCT_DIV_CURR_AMT	NUMBER(22,36)	Yes	-
TOT_COST_AMT	NUMBER(22,36)	Yes	-
TOT_COST_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
TOT_CYCLIC_BILLS	NUMBER(22,15)	Yes	-
TOT_DEDUCT_ACCT_DIV_CURR_AMT	NUMBER(22,36)	Yes	-
TOT_DEDUCT_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
TOT_DEDUCTIBLE_AMT	NUMBER(22,36)	Yes	-
TOT_NON_CYC_BILLS	NUMBER(22,15)	Yes	-
VERSION	NUMBER(5)	No	-

Primary Key:

Key Type	Column Name
Composite	ACCT_ID
	PERIOD

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XXT567P0	Unique	ACCT_ID
			PERIOD

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C.2 C1_ANOMALY_DETECTED_REASON

Purpose:	Used to store reason details when an anomaly is detected for an account.
Total Number of Columns:	5

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
ACCT_ID	CHAR(12)	Yes	-
REASON_ENTITY_ID	CHAR(12)	No	-
REASON_ENTITY_TYPE_FLG	CHAR(4)	No	-
REASON_FLG	CHAR(4)	No	-
VERSION	NUMBER(22,5)	Yes	1

Primary Key:

Key Type	Column Name
Composite	REASON_ENTITY_ID
	REASON_ENTITY_TYPE_FLG
	REASON_FLG

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM886P0	Unique	REASON_ENTITY_ID
			REASON_ENTITY_TYPE_FLG
			REASON_FLG

C.3 C1_BILL_APAY_DTLS_INTG

Purpose:	Used to store bill and auto pay details.
Total Number of Columns:	50

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
ACCT_APAY_ID	CHAR(10)	No	-
ACCT_ID	CHAR(10)	Yes	-
ACH_APAY_AMT	NUMBER(22,15)	Yes	-

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Column Name	Data Type	Nullable (Yes or No)	Default Value
APAY_AMT	NUMBER(22,15)	Yes	-
APAY_CLR_ID	CHAR(12)	Yes	-
APAY_CRE_DT	DATE(7)	Yes	-
APAY_DATE_CALC_ALG	CHAR(12)	Yes	-
APAY_DIST_FRZ_DT	DATE(7)	Yes	-
APAY_KEY	VARCHAR2(36)	No	-
APAY_MAX_WDRWL_AMT	NUMBER(22,15)	Yes	-
APAY_METHOD_FLG	CHAR(4)	Yes	-
APAY_RTE_TYPE_CD	CHAR(10)	Yes	-
APAY_SRC_CD	CHAR(12)	Yes	-
APAY_STAGE_UP_ID	NUMBER(22,15)	Yes	-
APAY_STOP_AMT	NUMBER(22,15)	Yes	-
APAY_STOP_CRE_DT	DATE(7)	Yes	-
APAY_STOP_DTTM	DATE(7)	Yes	-
APAY_TYPE_FLG	CHAR(4)	Yes	-
APAY_UPL_RSN_CD	CHAR(8)	Yes	-
APAY_UPL_RSN_TYPE	CHAR(4)	Yes	-
APAY_USAGE_FLG	CHAR(4)	Yes	-
BATCH_CD	CHAR(8)	Yes	-
BATCH_NBR	NUMBER(22,10)	Yes	-
BILL_ID	VARCHAR2(12)	No	-
CAN_RSN_CD	CHAR(4)	Yes	-
CHECK_NBR	CHAR(30)	Yes	-
CURRENCY_CD	CHAR(3)	Yes	-
ENCR_EXT_ACCT_ID	VARCHAR2(108)	Yes	-
END_DT	DATE(7)	Yes	-
ENTITY_NAME	VARCHAR2(254)	Yes	-
EXPIRE_DT	DATE(7)	Yes	-
EXT_ACCT_ID	VARCHAR2(50)	Yes	-
EXTRACT_BATCH_CD	CHAR(8)	Yes	-
EXTRACT_ELIG_SW	CHAR(1)	Yes	-

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Column Name	Data Type	Nullable (Yes or No)	Default Value
IN_TNDR_CTL_BAL_SW	CHAR(1)	Yes	-
PAY_EVENT_ID	CHAR(12)	Yes	-
PAY_TENDER_ID	CHAR(12)	Yes	-
PAYOR_ACCT_ID	CHAR(10)	Yes	-
PERCENT	NUMBER(22,5)	Yes	-
REF_DATE_CALC_ALG	CHAR(12)	Yes	-
SCHED_EXTRACT_DT	DATE(7)	Yes	-
SEQ_NUM	NUMBER(22)	No	-
SEQNO	NUMBER(22,5)	Yes	-
SETTLEMENT_ACCT_ID	VARCHAR2(10)	No	-
SETTLEMENT_ID_NBR	VARCHAR2(20)	Yes	-
START_DT	DATE(7)	Yes	-
TENDER_TYPE_CD	CHAR(4)	Yes	-
TNDR_CTL_ID	CHAR(10)	Yes	-
TNDR_SOURCE_CD	CHAR(8)	Yes	-
TNDR_STATUS_FLG	CHAR(2)	Yes	-

Primary Key:

Key Type	Column Name
Composite	ACCT_APAY_ID
	APAY_KEY
	BILL_ID
	SEQ_NUM
	SETTLEMENT_ACCT_ID

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XXT576P0	Unique	ACCT_APAY_ID
			APAY_KEY
			BILL_ID
			SEQ_NUM
			SETTLEMENT_ACCT_ID

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Sr. No.	Index Name	Index Type	Column Name
			ACCT_APAY_ID

C.4 C1_BILL_SUMMARY

Purpose:	Used to store summary details of a bill.
Total Number of Columns:	42

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
ACCT_ID	CHAR(10)	No	-
BILL_CANCEL_SW	CHAR(1)	Yes	-
BILL_CREATION_DT	DATE(7)	Yes	-
BILL_CYC_CD	CHAR(4)	No	-
BILL_DT	DATE(7)	Yes	-
BILL_ID	CHAR(12)	No	-
BILL_PROFIT_ACCT_DIV_CURR_AMT	NUMBER(22,36)	Yes	-
BILL_PROFIT_AMT	NUMBER(22,36)	Yes	-
BILL_PROFIT_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
BILL_PROFITABILITY	NUMBER(22,36)	Yes	-
BILLING_METHOD	VARCHAR2(10)	Yes	-
COST_SQI	NUMBER(22,36)	Yes	-
COST_SQI_CD	CHAR(8)	Yes	-
LAST_UPD_DTTM	DATE(7)	Yes	-
NET_ACCT_DIV_CURR_REV	NUMBER(22,36)	Yes	-
NET_IMPL_CURR_REV	NUMBER(22,36)	Yes	-
NET_PROFIT_ACCT_DIV_CURR_AMT	NUMBER(22,36)	Yes	-
NET_PROFIT_AMT	NUMBER(22,36)	Yes	-
NET_PROFIT_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
NET_PROFITABILITY	NUMBER(22,36)	Yes	-
NET_REVENUE	NUMBER(22,36)	Yes	-
SQI_CD	CHAR(8)	Yes	-
SVC_QTY	NUMBER(22,36)	Yes	-

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Column Name	Data Type	Nullable (Yes or No)	Default Value
TOT_ADJ_ACCT_DIV_CURR_AMT	NUMBER(22,36)	Yes	-
TOT_ADJ_AMT	NUMBER(22,36)	Yes	-
TOT_ADJ_CAN_COUNT	NUMBER(22,36)	Yes	-
TOT_ADJ_COUNT	NUMBER(22,36)	Yes	-
TOT_ADJ_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
TOT_BILL_ACCT_DIV_CURR_AMT	NUMBER(22,36)	Yes	-
TOT_BILL_AMT	NUMBER(22,36)	Yes	-
TOT_BILL_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
TOT_COST_ACCT_DIV_CURR_AMT	NUMBER(22,36)	Yes	-
TOT_COST_AMT	NUMBER(22,36)	Yes	-
TOT_COST_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
TOT_DEDUCT_ACCT_DIV_CURR_AMT	NUMBER(22,36)	Yes	-
TOT_DEDUCT_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
TOT_DEDUCTIBLE_AMT	NUMBER(22,36)	Yes	-
TOT_SEG_CAN_COUNT	NUMBER(22,36)	Yes	-
TOT_SEG_COUNT	NUMBER(22,36)	Yes	-
VERSION	NUMBER(22,36)	No	-
WIN_END_DT	DATE(7)	Yes	-
WIN_START_DT	DATE(7)	Yes	-

Primary Key:

Key Type	Column Name
Primary	BILL_ID

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XXT568P0	Unique	BILL_ID

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C.5 C1_BSEG_SUMMARY

Purpose:	Used to store summary details of a bill segment.
Total Number of Columns:	44

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
ACCT_DIV_CURR_CD	CHAR(3)	Yes	-
ACCT_DIV_CURR_EXCHRATE_ID	CHAR(10)	Yes	-
ACCT_ID	CHAR(10)	No	-
BILL_CREATION_DT	DATE(7)	Yes	-
BILL_CYC_CD	CHAR(4)	Yes	-
BILL_ID	CHAR(12)	No	-
BILL_PROFIT_ACCT_DIV_CURR_AMT	NUMBER(22,36)	Yes	-
BILL_PROFIT_AMT	NUMBER(22,36)	Yes	-
BILL_PROFIT_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
BILL_PROFITABILITY	NUMBER(22,36)	Yes	-
BSEG_ID	CHAR(12)	No	-
BSEG_STAT_FLG	CHAR(2)	No	-
COST_ACCT_DIV_CURR_AMT	NUMBER(22,36)	Yes	-
COST_AMT	NUMBER(22,36)	Yes	-
COST_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
COST_SQI	NUMBER(22,36)	Yes	-
COST_SQI_CD	CHAR(8)	Yes	-
DEDUCTIBLE_ACCT_DIV_CURR_AMT	NUMBER(22,36)	Yes	-
DEDUCTIBLE_AMT	NUMBER(22,36)	Yes	-
DEDUCTIBLE_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
END_DT	DATE(7)	Yes	-
IMPL_CURR_CD	CHAR(3)	Yes	-
IMPL_DIV_CURR_EXCHRATE_ID	CHAR(10)	Yes	-
LAST_UPD_DTTM	DATE(7)	Yes	-
NET_ACCT_DIV_CURR_REV	NUMBER(22,36)	Yes	-

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Column Name	Data Type	Nullable (Yes or No)	Default Value
NET_IMPL_CURR_REV	NUMBER(22,36)	Yes	-
NET_PROFIT_ACCT_DIV_CURR_AMT	NUMBER(22,36)	Yes	-
NET_PROFIT_AMT	NUMBER(22,36)	Yes	-
NET_PROFIT_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
NET_PROFITABILITY	NUMBER(22,36)	Yes	-
NET_REVENUE	NUMBER(22)	Yes	-
PARM_STR	VARCHAR2(4000)	Yes	-
PM_ROLE_ID	CHAR(10)	Yes	-
PRICE_ASGN_ID	CHAR(10)	Yes	-
PRICE_ASSIGNMENT_LEVEL	VARCHAR2(50)	Yes	-
PRICEITEM_CD	CHAR(30)	Yes	-
PRICEITEM_PARM_GRP_ID	NUMBER(22)	Yes	-
SQI_CD	CHAR(8)	Yes	-
START_DT	DATE(7)	Yes	-
SVC_QTY	NUMBER(22)	Yes	-
TOT_BSEG_ACCT_DIV_CURR_AMT	NUMBER(22)	Yes	-
TOT_BSEG_AMT	NUMBER(22)	Yes	-
TOT_BSEG_IMPL_CURR_AMT	NUMBER(22)	Yes	-
VERSION	NUMBER(22)	No	-

Primary Key:

Key Type	Column Name
Primary	BSEG_ID

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XXT560P0	Unique	BSEG_ID

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C.6 C1_BUS_RULE_ANOMALY

Purpose:	Used to store details of an anomaly business rule.
Total Number of Columns:	8

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
BUS_RULE_ID	CHAR(15)	No	-
FIELD_MAP_CD1	CHAR(30)	Yes	-
FIELD_MAP_CD2	CHAR(30)	Yes	-
UDF_1	VARCHAR2(254)	Yes	-
UDF_2	VARCHAR2(254)	Yes	-
UDF_3	VARCHAR2(254)	Yes	-
UDF_4	VARCHAR2(254)	Yes	-
VERSION	NUMBER(22,5)	Yes	1

Primary Key:

Key Type	Column Name
Primary	BUS_RULE_ID

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM928P0	Unique	BUS_RULE_ID

C.7 C1_DEDUCTIBLE_DTL

Purpose:	Used to store summary details for a deductible.
Total Number of Columns:	9

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
DEDUCT_ACCT_DIV_CURR_AMT	NUMBER(22,36)	Yes	-
DEDUCT_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
DEDUCTIBLE_AMT	NUMBER(22,36)	Yes	-
DEDUCTIBLE_ENTITY_ID	CHAR(30)	No	-

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Column Name	Data Type	Nullable (Yes or No)	Default Value
DEDUCTIBLE_ENTITY_TYPE_FLG	CHAR(30)	No	-
DEDUCTIBLE_TYPE_FLG	CHAR(4)	No	-
LAST_UPD_DTTM	DATE(7)	Yes	-
PERIOD	CHAR(6)	No	-
VERSION	NUMBER(22,36)	No	-

Primary Key:

Key Type	Column Name
Composite	DEDUCTIBLE_ENTITY_ID
	DEDUCTIBLE_ENTITY_TYPE_FLG
	DEDUCTIBLE_TYPE_FLG
	PERIOD

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XXT573P0	Unique	DEDUCTIBLE_ENTITY_ID
			DEDUCTIBLE_ENTITY_TYPE_FLG
			DEDUCTIBLE_TYPE_FLG
			PERIOD

C.8 C1_GENERIC_TEMPLATE

Purpose:	Used to store metadata information, including configurable text templates for generating Customer 360 and Billing Dashboard.
Total Number of Columns:	4

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
SECTION	VARCHAR2(50)	No	-
SUB_CASE	VARCHAR2(50)	No	-
TEMPLATE_TEXT	VARCHAR2(4000)	Yes	-
USECASE	VARCHAR2(50)	No	-

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Primary Key:

Key Type	Column Name
Composite	SECTION
	SUB_CASE
	USECASE

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM901P0	Unique	SECTION
			SUB_CASE
			USECASE

C.9 C1_LPC_DTLS_INTG

Purpose:	Used to store late payment charges and account details.
Total Number of Columns:	15

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
ACCT_ID	CHAR(10)	Yes	-
ACCT_NBR	VARCHAR2(30)	Yes	-
BILL_DUE_AMT	NUMBER(22,15)	Yes	-
BILL_ID	CHAR(12)	No	-
BILL_TO_ACCT_ID	CHAR(10)	Yes	-
BILLABLE_CHG_ID	CHAR(12)	No	-
CRE_DTTM	DATE(7)	Yes	-
CURR_LPC_AMT	NUMBER(22,15)	Yes	-
CURRENCY_CD	CHAR(3)	Yes	-
LPC_BILL_ID	CHAR(12)	Yes	-
LPC_ID	CHAR(12)	No	-
LPC_RATE	NUMBER(22,36)	Yes	-
PREV_LPC_AMT	NUMBER(22)	Yes	-
TOTAL_LPC	NUMBER(22)	Yes	-
UNPAID_AMT	NUMBER(22)	Yes	-

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Primary Key:

Key Type	Column Name
Composite	BILLABLE_CHG_ID
	BILL_ID
	LPC_ID

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM917P0	Unique	BILL_ID
			BILLABLE_CHG_ID
			LPC_ID

C.10 C1_OBJ_AUDIT_DETAIL

Purpose:	Used to store audit details for a business object.
Total Number of Columns:	5

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
AUDIT_ID	CHAR(12)	No	-
ILM_ARCH_SW	CHAR(1)	Yes	-
ILM_DT	DATE(7)	Yes	-
OBJECT_AUDIT_ID	CHAR(15)	No	-
VERSION	NUMBER(22,5)	Yes	-

Primary Key:

Key Type	Column Name
Composite	AUDIT_ID
	OBJECT_AUDIT_ID
	OBJECT_AUDIT_ID

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XXT582P0	Unique	AUDIT_ID
			OBJECT_AUDIT_ID

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C.11 C1_OBJ_AUDIT_HDR

Purpose:	Used to store audit header details for a business object.
Total Number of Columns:	17

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
APP_CHAIN_CD	CHAR(10)	Yes	-
APP_TXN_ID	CHAR(15)	Yes	-
AUDIT_ACTION_FLG	CHAR(2)	Yes	-
BO_GROUP_CD	CHAR(10)	Yes	-
BUS_OBJ_CD	CHAR(30)	No	-
CIS_DIVISION	CHAR(5)	Yes	-
CRE_DTTM	TIMESTAMP(6)(11)	No	-
ILM_ARCH_SW	CHAR(1)	Yes	-
ILM_DT	DATE(7)	Yes	-
OBJECT_AUDIT_ID	CHAR(15)	No	-
PK_VALUE1	VARCHAR2(254)	Yes	-
PK_VALUE2	VARCHAR2(254)	Yes	-
PK_VALUE3	VARCHAR2(254)	Yes	-
PK_VALUE4	VARCHAR2(254)	Yes	-
PK_VALUE5	VARCHAR2(254)	Yes	-
USER_ID	CHAR(8)	No	-
VERSION	NUMBER(22,5)	Yes	-

Primary Key:

Key Type	Column Name
Primary	OBJECT_AUDIT_ID

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XXT581P0	Unique	OBJECT_AUDIT_ID

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Sr. No.	Index Name	Index Type	Column Name
2.	XXT581S0	Non-Unique	CRE_DTTM
			BUS_OBJ_CD

C.12 C1_PAR_PRICEITEM_SUMMARY

Purpose:	Used to store parent price item summary details.
Total Number of Columns:	59

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
BILL_PROF_AGR_PR_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
BILL_PROFIT_AGR_PR_AMT	NUMBER(22,36)	Yes	-
BILL_PROFIT_AMT	NUMBER(22,36)	Yes	-
BILL_PROFIT_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
BILL_PROFIT_STD_PR_AMT	NUMBER(22,36)	Yes	-
BILL_PROFIT_STD_PR_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
BILL_PROFITABILITY	NUMBER(22,36)	Yes	-
BILL_PROFITABILITY_AGR_PR	NUMBER(22,36)	Yes	-
BILL_PROFITABILITY_STD_PR	NUMBER(22,36)	Yes	-
CIS_DIVISION	CHAR(5)	No	-
COST_AGR_PR_AMT	NUMBER(22,36)	Yes	-
COST_AGR_PR_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
COST_SQI	NUMBER(22,36)	Yes	-
COST_SQI_CD	CHAR(8)	Yes	-
COST_STD_PR_AMT	NUMBER(22,36)	Yes	-
COST_STD_PR_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
DEDUCT_AGR_PR_AMT	NUMBER(22,36)	Yes	-
DEDUCT_AGR_PR_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
DEDUCT_STD_PR_AMT	NUMBER(22,36)	Yes	-
DEDUCT_STD_PR_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
LAST_UPD_DTTM	DATE(7)	Yes	-
NET_AGR_PR_IMPL_CURR_REV	NUMBER(22,36)	Yes	-

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Column Name	Data Type	Nullable (Yes or No)	Default Value
NET_AGR_PR_REV	NUMBER(22,36)	Yes	-
NET_IMPL_CURR_REV	NUMBER(22,36)	Yes	-
NET_PROF_AGR_PR_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
NET_PROFIT_AGR_PR_AMT	NUMBER(22,36)	Yes	-
NET_PROFIT_AGR_PR_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
NET_PROFIT_AMT	NUMBER(22,36)	Yes	-
NET_PROFIT_AMT_PER_DIV_CURR_AMT	NUMBER(22,36)	Yes	-
NET_PROFIT_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
NET_PROFIT_STD_PR_AMT	NUMBER(22)	Yes	-
NET_PROFITABILITY	NUMBER(22)	Yes	-
NET_PROFITABILITY_AGR_PR	NUMBER(22)	Yes	-
NET_PROFITABILITY_STD_PR	NUMBER(22)	Yes	-
NET_REVENUE	NUMBER(22)	Yes	-
NET_STD_PR_IMPL_CURR_REV	NUMBER(22)	Yes	-
NET_STD_PR_REV	NUMBER(22)	Yes	-
PARENT_PRICEITEM_CD	CHAR(30)	No	-
PERIOD	CHAR(6)	No	-
PM_ROLE_ID	CHAR(10)	No	-
SQI_CD	CHAR(8)	Yes	-
SVC_QTY	NUMBER(22,36)	Yes	-
TOT_ACCT_COUNT	NUMBER(22,15)	Yes	-
TOT_AGR_PR_AMT	NUMBER(22,36)	Yes	-
TOT_AGR_PR_COUNT	NUMBER(22,15)	Yes	-
TOT_AGR_PR_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
TOT_BILL_AMT	NUMBER(22,36)	Yes	-
TOT_BILL_COUNT	NUMBER(22,15)	Yes	-
TOT_BILL_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
TOT_BSEG_COUNT	NUMBER(22,15)	Yes	-
TOT_COST_AMT	NUMBER(22,36)	Yes	-
TOT_COST_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
TOT_DEDUCT_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-

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Column Name	Data Type	Nullable (Yes or No)	Default Value
TOT_DEDUCTIBLE_AMT	NUMBER(22,36)	Yes	-
TOT_PER_COUNT	NUMBER(22,15)	Yes	-
TOT_STD_PR_AMT	NUMBER(22,36)	Yes	-
TOT_STD_PR_COUNT	NUMBER(22,15)	Yes	-
TOT_STD_PR_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
VERSION	NUMBER(22,5)	No	-

Primary Key:

Key Type	Column Name
Composite	CIS_DIVISION
	PARENT_PRICEITEM_CD
	PERIOD
	PM_ROLE_ID

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XXT572P0	Unique	CIS_DIVISION
			PARENT_PRICEITEM_CD
			PERIOD
			PM_ROLE_ID

C.13 C1_PER_SUMMARY

Purpose:	Used to store person summary details.
Total Number of Columns:	36

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
BILL_PROFIT_AMT	NUMBER(22,36)	Yes	-
BILL_PROFIT_AMT_PER_DIV_CURR_AMT	NUMBER(22,36)	Yes	-
BILL_PROFIT_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
BILL_PROFITABILITY	NUMBER(22,36)	Yes	-
CIS_DIVISION	CHAR(5)	Yes	-
COST_SQI	NUMBER(22,36)	Yes	-

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Column Name	Data Type	Nullable (Yes or No)	Default Value
COST_SQI_CD	CHAR(8)	Yes	-
CUST_SEG_FLG	CHAR(4)	Yes	-
CUST_TIER_FLG	CHAR(4)	Yes	-
LAST_UPD_DTTM	DATE(7)	Yes	-
NET_IMPL_CURR_REV	NUMBER(22,36)	Yes	-
NET_PER_DIV_CURR_REV	NUMBER(22,36)	Yes	-
NET_PROFIT_AMT	NUMBER(22,36)	Yes	-
NET_PROFIT_AMT_PER_DIV_CURR_AMT	NUMBER(22,36)	Yes	-
NET_PROFIT_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
NET_PROFITABILITY	NUMBER(22,36)	Yes	-
NET_REVENUE	NUMBER(22,36)	Yes	-
PER_ID	CHAR(10)	No	-
PERIOD	CHAR(6)	No	-
SQI_CD	CHAR(8)	Yes	-
SVC_QTY	NUMBER(22,36)	Yes	-
TOT_ACCOUNT_COUNT	NUMBER(22,15)	Yes	-
TOT_BILL_AMT	NUMBER(22,36)	Yes	-
TOT_BILL_COUNT	NUMBER(22,15)	Yes	-
TOT_BILL_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
TOT_BILL_PER_DIV_CURR_AMT	NUMBER(22,36)	Yes	-
TOT_CAN_BILLS	NUMBER(22,15)	Yes	-
TOT_COST_AMT	NUMBER(22,36)	Yes	-
TOT_COST_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
TOT_COST_PER_DIV_CURR_AMT	NUMBER(22,36)	Yes	-
TOT_CYCLIC_BILLS	NUMBER(22,15)	Yes	-
TOT_DEDUCT_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
TOT_DEDUCT_PER_DIV_CURR_AMT	NUMBER(22,36)	Yes	-
TOT_DEDUCTIBLE_AMT	NUMBER(22,36)	Yes	-
TOT_NON_CYCLIC_BILLS	NUMBER(22,15)	Yes	-
VERSION	NUMBER(22,5)	No	-

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Primary Key:

Key Type	Column Name
Composite	PER_ID
	PERIOD
	VERSION

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XXT569P0	Unique	PER_ID
			PERIOD

C.14 C1_PRICEITEM_SUMMARY

Purpose:	Used to store summary details of a price item.
Total Number of Columns:	88

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
BILL_CREATION_DT	DATE(7)	Yes	-
BILL_PROF_AGR_PR_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
BILL_PROFIT_AGR_PR_ACCT_DIV_CURR_AMT	NUMBER(22,36)	Yes	-
BILL_PROFIT_AGR_PR_AMT	NUMBER(22,36)	Yes	-
BILL_PROFIT_AGR_PR_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
BILL_PROFIT_AMT	NUMBER(22,36)	Yes	-
BILL_PROFIT_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
BILL_PROFIT_STD_PR_ACCT_DIV_CURR_AMT	NUMBER(22,36)	Yes	-
BILL_PROFIT_STD_PR_AMT	NUMBER(22,36)	Yes	-
BILL_PROFIT_STD_PR_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
BILL_PROFITABILITY	NUMBER(22,36)	Yes	-
BILL_PROFITABILITY_AGR_PR	NUMBER(22,36)	Yes	-
BILL_PROFITABILITY_STD_PR	NUMBER(22,36)	Yes	-
CIS_DIVISION	CHAR(5)	No	-
COST_AGR_PR_ACCT_DIV_CURR_AMT	NUMBER(22,36)	Yes	-

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Column Name	Data Type	Nullable (Yes or No)	Default Value
COST_AGR_PR_AMT	NUMBER(22,36)	Yes	-
COST_AGR_PR_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
COST_AMT	NUMBER(22,36)	Yes	-
COST_SQI	NUMBER(22,36)	Yes	-
COST_SQI_CD	CHAR(8)	Yes	-
COST_STD_PR_ACCT_DIV_CURR_AMT	NUMBER(22,36)	Yes	-
COST_STD_PR_AMT	NUMBER(22,36)	Yes	-
COST_STD_PR_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
DEDUCT_ACCT_DIV_CURR_AMT	NUMBER(22,36)	Yes	-
DEDUCT_AGR_PR_ACCT_DIV_CURR_AMT	NUMBER(22,36)	Yes	-
DEDUCT_AGR_PR_AMT	NUMBER(22,36)	Yes	-
DEDUCT_AGR_PR_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
DEDUCT_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
DEDUCT_STD_PR_ACCT_DIV_CURR_AMT	NUMBER(22,36)	Yes	-
DEDUCT_STD_PR_AMT	NUMBER(22,36)	Yes	-
DEDUCT_STD_PR_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
HRCHY_ENTITY_CD	CHAR(30)	Yes	-
LAST_UPD_DTTM	DATE(7)	Yes	-
NET_AGR_PR_ACCT_DIV_CURR_REV	NUMBER(22,36)	Yes	-
NET_AGR_PR_IMPL_CURR_REV	NUMBER(22,36)	Yes	-
NET_AGR_PR_REV	NUMBER(22,36)	Yes	-
NET_IMPL_CURR_REV	NUMBER(22,36)	Yes	-
NET_PROF_AGR_PR_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
NET_PROFIT_AGR_PR_ACCT_DIV_CURR_AMT	NUMBER(22,36)	Yes	-
NET_PROFIT_AGR_PR_AMT	NUMBER(22,36)	Yes	-
NET_PROFIT_AGR_PR_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
NET_PROFIT_AMT	NUMBER(22,36)	Yes	-
NET_PROFIT_AMT_PER_DIV_CURR_AMT	NUMBER(22,36)	Yes	-
NET_PROFIT_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
NET_PROFIT_STD_PR_ACCT_DIV_CURR_AMT	NUMBER(22,36)	Yes	-

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Column Name	Data Type	Nullable (Yes or No)	Default Value
NET_PROFIT_STD_PR_AMT	NUMBER(22,36)	Yes	-
NET_PROFIT_STD_PR_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
NET_PROFITABILITY	NUMBER(22,36)	Yes	-
NET_PROFITABILITY_AGR_PR	NUMBER(22,36)	Yes	-
NET_PROFITABILITY_STD_PR	NUMBER(22,36)	Yes	-
NET_REVENUE	NUMBER(22,36)	Yes	-
NET_STD_PR_ACCT_DIV_CURR_REV	NUMBER(22,36)	Yes	-
NET_STD_PR_IMPL_CURR_REV	NUMBER(22,36)	Yes	-
NET_STD_PR_REV	NUMBER(22,36)	Yes	-
PARENT_PRICEITEM_CD	CHAR(30)	Yes	-
PARM_STR	VARCHAR2(4000)	Yes	-
PERIOD	CHAR(6)	No	-
PM_ROLE_ID	CHAR(10)	Yes	-
PRICEITEM_CD	CHAR(30)	No	-
PRICEITEM_PARM_GRP_ID	NUMBER(22,36)	No	-
ROLE_ID	CHAR(10)	Yes	-
SQI_CD	CHAR(8)	Yes	-
SVC_QTY	NUMBER(22,36)	Yes	-
TOT_ACCT_COUNT	NUMBER(22,15)	Yes	-
TOT_ACCT_DIV_CURR_AMT	NUMBER(22,36)	Yes	-
TOT_AGR_PR_ACCT_DIV_CURR_AMT	NUMBER(22,36)	Yes	-
TOT_AGR_PR_AMT	NUMBER(22,36)	Yes	-
TOT_AGR_PR_COUNT	NUMBER(22,15)	Yes	-
TOT_AGR_PR_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
TOT_AMT	NUMBER(22,36)	Yes	-
TOT_BILL_ACCT_DIV_CURR_AMT	NUMBER(22,36)	Yes	-
TOT_BILL_AMT	NUMBER(22,36)	Yes	-
TOT_BILL_COUNT	NUMBER(22,15)	Yes	-
TOT_BILL_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
TOT_BSEG_COUNT	NUMBER(22,15)	Yes	-

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Column Name	Data Type	Nullable (Yes or No)	Default Value
TOT_COST_ACCT_DIV_CURR_AMT	NUMBER(22,36)	Yes	-
TOT_COST_AMT	NUMBER(22,36)	Yes	-
TOT_COST_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
TOT_DEDUCT_ACCT_DIV_CURR_AMT	NUMBER(22,36)	Yes	-
TOT_DEDUCT_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
TOT_DEDUCTIBLE_AMT	NUMBER(22,36)	Yes	-
TOT_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
TOT_PER_COUNT	NUMBER(22,15)	Yes	-
TOT_STD_PR_ACCT_DIV_CURR_AMT	NUMBER(22,36)	Yes	-
TOT_STD_PR_AMT	NUMBER(22,36)	Yes	-
TOT_STD_PR_COUNT	NUMBER(22,15)	Yes	-
TOT_STD_PR_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
VERSION	NUMBER(22,5)	No	1

Primary Key:

Key Type	Column Name
Composite	CIS_DIVISION
	PERIOD
	PRICEITEM_CD
	PRICEITEM_PARM_GRP_ID
	VERSION

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XXT570P0	Unique	CIS_DIVISION
			PERIOD
			PRICEITEM_CD
			PRICEITEM_PARM_GRP_ID
			VERSION

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C.15 C1_PROD_GRP_SUMMARY

Purpose:	Used to store summary details of product group.
Total Number of Columns:	60

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
BILL_PROFIT_AGR_PR_AMT	NUMBER(22,36)	Yes	-
BILL_PROFIT_AGR_PR_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
BILL_PROFIT_AMT	NUMBER(22,36)	Yes	-
BILL_PROFIT_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
BILL_PROFIT_STD_PR_AMT	NUMBER(22,36)	Yes	-
BILL_PROFIT_STD_PR_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
BILL_PROFITABILITY	NUMBER(22,36)	Yes	-
BILL_PROFITABILITY_AGR_PR	NUMBER(22,36)	Yes	-
BILL_PROFITABILITY_STD_PR	NUMBER(22,36)	Yes	-
CIS_DIVISION	CHAR(5)	No	-
COST_AGR_PR_AMT	NUMBER(22,36)	Yes	-
COST_AGR_PR_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
COST_SQI	NUMBER(22,36)	Yes	-
COST_SQI_CD	CHAR(8)	Yes	-
COST_STD_PR_AMT	NUMBER(22,36)	Yes	-
COST_STD_PR_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
DEDUCT_AGR_PR_AMT	NUMBER(22,36)	Yes	-
DEDUCT_AGR_PR_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
DEDUCT_STD_PR_AMT	NUMBER(22,36)	Yes	-
DEDUCT_STD_PR_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
HRCHY_ENTITY_CD	CHAR(30)	No	-
LAST_UPD_DTTM	DATE(7)	Yes	-
NET_AGR_PR_IMPL_CURR_REV	NUMBER(22,36)	Yes	-
NET_AGR_PR_REV	NUMBER(22,36)	Yes	-
NET_IMPL_CURR_REV	NUMBER(22,36)	Yes	-

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Column Name	Data Type	Nullable (Yes or No)	Default Value
NET_PROFIT_AGR_PR_AMT	NUMBER(22,36)	Yes	-
NET_PROFIT_AMT	NUMBER(22,36)	Yes	-
NET_PROFIT_AMT_PER_DIV_CURR_AMT	NUMBER(22,36)	Yes	-
NET_PROFIT_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
NET_PROFIT_STD_PR_AMT	NUMBER(22,36)	Yes	-
NET_PROFIT_STD_PR_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
NET_PROFITABILITY	NUMBER(22,36)	Yes	-
NET_PROFITABILITY_AGR_PR	NUMBER(22,36)	Yes	-
NET_PROFITABILITY_STD_PR	NUMBER(22,36)	Yes	-
NET_REVENUE	NUMBER(22,36)	Yes	-
NET_STD_PR_IMPL_CURR_REV	NUMBER(22,36)	Yes	-
NET_STD_PR_REV	NUMBER(22,36)	Yes	-
PERIOD	CHAR(6)	No	-
PM_ROLE_ID	CHAR(10)	No	-
SQI_CD	CHAR(8)	Yes	-
SVC_QTY	NUMBER(22,36)	Yes	-
TOT_ACCT_COUNT	NUMBER(22,15)	Yes	-
TOT_AGR_PR_AMT	NUMBER(22,36)	Yes	-
TOT_AGR_PR_COUNT	NUMBER(22,15)	Yes	-
TOT_AGR_PR_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
TOT_BILL_AMT	NUMBER(22,36)	Yes	-
TOT_BILL_COUNT	NUMBER(22,15)	Yes	-
TOT_BILL_IMPL_CURR_AMT	NUMBER(22,36)	Yes	-
TOT_BSEG_COUNT	NUMBER(22,15)	Yes	-
TOT_COST_AMT	NUMBER(22,36)	Yes	-
TOT_COST_IMPL_CURR_AMT	NUMBER(22)	Yes	-
TOT_DEDUCT_IMPL_CURR_AMT	NUMBER(22)	Yes	-
TOT_DEDUCTIBLE_AMT	NUMBER(22)	Yes	-
TOT_PARENT_PRICEITEM_COUNT	NUMBER(22,15)	Yes	-
TOT_PER_COUNT	NUMBER(22,15)	Yes	-
TOT_PRICEITEM_COUNT	NUMBER(22,15)	Yes	-

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Column Name	Data Type	Nullable (Yes or No)	Default Value
TOT_STD_PR_AMT	NUMBER(22)	Yes	-
TOT_STD_PR_COUNT	NUMBER(22,15)	Yes	-
TOT_STD_PR_IMPL_CURR_AMT	NUMBER(22)	Yes	-
VERSION	NUMBER(22,5)	Yes	-

Primary Key:

Key Type	Column Name
Composite	CIS_DIVISION
	HRCHY_ENTITY_CD
	PERIOD
	PM_ROLE_ID

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XXT571P0	Unique	CIS_DIVISION
			HRCHY_ENTITY_CD
			PERIOD
			PM_ROLE_ID

C.16 CI_PRICING_AMT_CHG

Purpose:	Used to store the reason for a change in the pricing amount.
Total Number of Columns:	25

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
ACCT_ID	CHAR(10)	Yes	-
AUDIT_EVENT_ID	CHAR(12)	Yes	-
AUDIT_REASON_FLG	CHAR(4)	Yes	-
BENEFIT_ID	CHAR(12)	Yes	-
BILLABLE_CHG_ID	CHAR(12)	Yes	-
CRE_DTTM	DATE(7)	Yes	-
CURR_AMT	NUMBER(22,15)	Yes	-
EFF_DT	DATE(7)	Yes	-

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Column Name	Data Type	Nullable (Yes or No)	Default Value
ILM_ARCH_SW	CHAR(1)	Yes	-
ILM_DT	DATE(7)	Yes	-
MEMBERSHIP_ID	CHAR(15)	Yes	
MESSAGE_CAT_NBR	NUMBER(22,5)	Yes	
MESSAGE_NBR	NUMBER(22,5)	Yes	
MESSAGE_PARM1	VARCHAR2(2000)	Yes	
MESSAGE_PARM2	VARCHAR2(2000)	Yes	
MESSAGE_PARM3	VARCHAR2(2000)	Yes	
MESSAGE_PARM4	VARCHAR2(2000)	Yes	
MESSAGE_PARM5	VARCHAR2(2000)	Yes	
PRC_AMT_CHG_ID	NUMBER(22,12)	No	
PRC_DISCR_STATUS_FLG	CHAR(4)	Yes	
PRC_DISCREPANCY_TYPE_FLG	CHAR(4)	No	
PRICEITEM_CD	CHAR(30)	Yes	
PRICING_RULE_ID	CHAR(30)	Yes	
PRIOR_AMT	NUMBER(22,15)	Yes	
VERSION	NUMBER(22,5)	Yes	

Primary Key:

Key Type	Column Name
Primary	PRC_AMT_CHG_ID

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM889P0	Unique	PRC_AMT_CHG_ID

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C.17 CI_PRICING_AMT_CHG_K

Purpose:	Used to store the key details which uniquely identify each pricing amount change record.
Total Number of Columns:	2

Column Details:

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

Primary Key:

Key Type	Column Name
Composite	ENV_ID
	PRC_AMT_CHG_ID

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM927P0	Unique	ENV_ID
			PRC_AMT_CHG_ID

C.18 CI_PRICING_DISCREPANCY

Purpose:	Used to store the reason for a pricing discrepancy.
Total Number of Columns:	42

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
ACCT_ID	CHAR(10)	Yes	-
AUDIT_REASON_FLG	CHAR(4)	Yes	-
BATCH_CD	CHAR(8)	Yes	-
BATCH_NBR	NUMBER(22,10)	Yes	-
BCHG_END_DT	DATE(7)	Yes	-
BCHG_START_DT	DATE(7)	Yes	-
BILLABLE_CHG_ID	CHAR(12)	Yes	-

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Column Name	Data Type	Nullable (Yes or No)	Default Value
BSEG_END_DT	DATE(7)	Yes	-
BSEG_ID	CHAR(12)	Yes	-
BSEG_START_DT	DATE(7)	Yes	-
CRE_DTTM	DATE(7)	Yes	-
DUPL_ENT_FLG	CHAR(4)	Yes	-
EFF_DT	DATE(7)	Yes	-
HEALTH_PLAN_CD	CHAR(30)	Yes	-
ILM_ARCH_SW	CHAR(1)	Yes	-
ILM_DT	DATE(7)	Yes	-
MEMB_END_DT	DATE(7)	Yes	-
MEMB_PER_END_DT	DATE(7)	Yes	-
MEMB_PER_START_DT	DATE(7)	Yes	-
MEMB_START_DT	DATE(7)	Yes	-
MEMBERSHIP_ID	CHAR(15)	Yes	-
MESSAGE_CAT_NBR	NUMBER(22,5)	Yes	-
MESSAGE_NBR	NUMBER(22,5)	Yes	-
MESSAGE_PARM1	VARCHAR2(2000)	Yes	-
MESSAGE_PARM2	VARCHAR2(2000)	Yes	-
MESSAGE_PARM3	VARCHAR2(2000)	Yes	-
MESSAGE_PARM4	VARCHAR2(2000)	Yes	-
MESSAGE_PARM5	VARCHAR2(2000)	Yes	-
PER_ID	CHAR(10)	Yes	-
PER_REL_TYPE_CD	CHAR(8)	Yes	-
PLAN_END_DT	DATE(7)	Yes	-
PLAN_ID	CHAR(15)	Yes	-
PLAN_START_DT	DATE(7)	Yes	-
POL_END_DT	DATE(7)	Yes	-
POL_START_DT	DATE(7)	Yes	-
POLICY_ID	CHAR(14)	Yes	-
PRC_DISCR_STATUS_FLG	CHAR(4)	Yes	-
PRC_DISCREPANCY_ID	NUMBER(22,12)	No	-

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Column Name	Data Type	Nullable (Yes or No)	Default Value
PRC_DISCREPANCY_TYPE_FLG	CHAR(4)	No	-
PRICEITEM_CD	CHAR(30)	Yes	-
TD_ENTRY_ID	CHAR(14)	Yes	-
VERSION	NUMBER(22,5)	Yes	-

Primary Key:

Key Type	Column Name
Primary	PRC_DISCREPANCY_ID

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM888P0	Unique	PRC_DISCREPANCY_ID

C.19 CI_PRICING_DISCREPANCY_K

Purpose:	Used to store the key details which uniquely identify each pricing discrepancy record.
Total Number of Columns:	2

Column Details:

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

Primary Key:

Key Type	Column Name
Composite	ENV_ID
	PRC_DISCREPANCY_ID

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	XM926P0	Unique	ENV_ID
			PRC_DISCREPANCY_ID

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Appendix D : Existing Tables Modified in ORMB Version 26.1.0.0.0

This section lists the existing tables which are modified in Oracle Revenue Management and Billing Version 26.1.0.0.0. It indicates the columns that are newly added, dropped, or modified in these tables.

D.1 C1_ACCOUNT_ANOMALY_DETECTED

The following table lists the columns that are newly added, modified, or dropped from the C1_ACCOUNT_ANOMALY_DETECTED table:

Sr. No.	Column Name	Modification Type	Data Type in V9.0.0.0.0	Data Type in V26.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	ANMLY_SUPPRESS_SW	Newly Added	-	CHAR(1)	No	-

D.2 C1_ACCT_SUMMARY

The following table lists the columns that are newly added, modified, or dropped from the C1_ACCT_SUMMARY table:

Sr. No.	Column Name	Modification Type	Data Type in V9.0.0.0.0	Data Type in V26.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	ACCT_ID	Newly Added	-	CHAR(1)	No	-
2.	BILL_PROFIT_ACCT_DIV_CURR_AMT	Newly Added	-	NUMBER(22,36)	No	-

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D.3 C1_ADJ_DTLS_INTG

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

Sr. No.	Column Name	Modification Type	Data Type in V9.0.0.0.0	Data Type in V26.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	ADJ_AMT	Format Change	NUMBER(22,15)	NUMBER(22,36)	No	-
2.	ADJ_CALC_LN_BASE_AMT	Newly Added	-	NUMBER(22,36)	No	-
3.	ADJ_CALC_LN_BASE_AMT_CCY	Newly Added	-	CHAR(3)	No	-
4.	ADJ_CALC_LN_CALC_AMT	Newly Added	-	NUMBER(22,36)	No	-
5.	ADJ_CALC_LN_CALC_AMT_CCY	Newly Added	-	CHAR(3)	No	-
6.	ADJ_CALC_LN_EXEMPT_AMT	Newly Added	-	NUMBER(22,36)	No	-
7.	ADJ_CALC_LN_EXEMPT_AMT_CCY	Newly Added	-	CHAR(3)	No	-
8.	ADJ_ID	Newly Added	-	CHAR(12)	No	-
9.	BASE_AMT	Format Change	NUMBER(22,36)	NUMBER(22,15)	No	-
10.	BASE_AMT_CCY	Newly Added	-	CHAR(3)	No	-
11.	CALC_AMT	Dropped	NUMBER(22,36)	-	No	-
12.	EXEMPT_AMT	Dropped	NUMBER(22,36)	-	No	-

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D.4 C1_ANOMALY_DETECTED_REASON

The following table lists the columns that are newly added, modified, or dropped from the C1_ANOMALY_DETECTED_REASON table:

Sr. No.	Column Name	Modification Type	Data Type in V9.0.0.0.0	Data Type in V26.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	ACCT_ID	Newly Added	-	CHAR(12)	No	-
2.	REASON_ENTITY_ID	Newly Added	-	CHAR(12)	No	-

D.5 C1_B_ADJ_CHAR_INTG

The following table lists the columns that are newly added, modified, or dropped from the C1_B_ADJ_CHAR_INTG table:

Sr. No.	Column Name	Modification Type	Data Type in V9.0.0.0.0	Data Type in V26.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	ADJ_ID	Newly Added	-	CHAR(12)	No	-

D.6 C1_B_ADJ_DTLS_INTG

The following table lists the columns that are newly added, modified, or dropped from the C1_B_ADJ_DTLS_INTG table:

Sr. No.	Column Name	Modification Type	Data Type in V9.0.0.0.0	Data Type in V26.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	ADJ_ID	Newly Added	-	CHAR(12)	No	-

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D.7 C1_B_BCHG_CHAR_INTG

The following table lists the columns that are newly added, modified, or dropped from the C1_B_BCHG_CHAR_INTG table:

Sr. No.	Column Name	Modification Type	Data Type in V9.0.0.0.0	Data Type in V26.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	BILLABLE_CHG_ID	Newly Added	-	CHAR(12)	No	-

D.8 C1_B_BCHG_DTLS_INTG

The following table lists the columns that are newly added, modified, or dropped from the C1_B_BCHG_DTLS_INTG table:

Sr. No.	Column Name	Modification Type	Data Type in V9.0.0.0.0	Data Type in V26.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	BILLABLE_CHG_ID	Newly Added	-	CHAR(12)	No	-

D.9 C1_B_BILL_CHAR_INTG

The following table lists the columns that are newly added, modified, or dropped from the C1_B_BILL_CHAR_INTG table:

Sr. No.	Column Name	Modification Type	Data Type in V9.0.0.0.0	Data Type in V26.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	BILL_ID	Newly Added	-	CHAR(12)	No	-

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D.10 C1_B_BILL_FACT_INTG

The following table lists the columns that are newly added, modified, or dropped from the C1_B_BILL_FACT_INTG table:

Sr. No.	Column Name	Modification Type	Data Type in V9.0.0.0.0	Data Type in V26.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	ACCT_APAY_ID	Newly Added	-	CHAR(10)	No	-
2.	ACCT_ID	Newly Added	-	CHAR(10)	No	-
3.	APAY_CLR_ID	Newly Added	-	CHAR(12)	No	-
4.	BILL_ID	Newly Added	-	CHAR(12)	No	-
5.	BILL_MSG_CD	Newly Added	-	CHAR(4)	No	-
6.	SA_ID	Newly Added	-	CHAR(10)	No	-

D.11 C1_B_BSEG_CHAR_INTG

The following table lists the columns that are newly added, modified, or dropped from the C1_B_BSEG_CHAR_INTG table:

Sr. No.	Column Name	Modification Type	Data Type in V9.0.0.0.0	Data Type in V26.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	BSEG_ID	Newly Added	-	CHAR(12)	No	-
2.	HEADER_SEQ	Newly Added	-	NUMBER(22,3)	No	-

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D.12 C1_B_BSEG_DTLS_INTG

The following table lists the columns that are newly added, modified, or dropped from the C1_B_BSEG_DTLS_INTG table:

Sr. No.	Column Name	Modification Type	Data Type in V9.0.0.0.0	Data Type in V26.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	BSEG_ID	Newly Added	-	CHAR(12)	No	-
2.	HEADER_SEQ	Newly Added	-	NUMBER(22,3)	No	-

D.13 C1_B_DIM_ACCT_INTG

The following table lists the columns that are newly added, modified, or dropped from the C1_B_DIM_ACCT_INTG table:

Sr. No.	Column Name	Modification Type	Data Type in V9.0.0.0.0	Data Type in V26.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	CUST_ID	Newly Added	-	CHAR(10)	No	-
2.	SRC_ACCT_ID	Newly Added	-	CHAR(10)	No	-

D.14 C1_B_DIM_CUST_INTG

The following table lists the columns that are newly added, modified, or dropped from the C1_B_DIM_CUST_INTG table:

Sr. No.	Column Name	Modification Type	Data Type in V9.0.0.0.0	Data Type in V26.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	CUSTOMER_ID	Newly Added	-	CHAR(10)	No	-
2.	L1_PARENT_ID	Newly Added	-	VARCHAR2(10)	No	-
3.	L2_PARENT_ID	Newly Added	-	VARCHAR2(10)	No	-

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Sr. No.	Column Name	Modification Type	Data Type in V9.0.0.0.0	Data Type in V26.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
4.	L3_PARENT_ID	Newly Added	-	VARCHAR2(10)	No	-
5.	L4_PARENT_ID	Newly Added	-	VARCHAR2(10)	No	-
6.	L5_PARENT_ID	Newly Added	-	VARCHAR2(10)	No	-

D.15 C1_B_FT_GL_DTLS_INTG

The following table lists the columns that are newly added, modified, or dropped from the C1_B_FT_GL_DTLS_INTG table:

Sr. No.	Column Name	Modification Type	Data Type in V9.0.0.0.0	Data Type in V26.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	FT_ID	Newly Added	-	CHAR(12)	No	-
2.	GL_SEQ_NBR	Newly Added	-	NUMBER(22,3)	No	-

D.16 C1_B_PER_CHAR_INTG

The following table lists the columns that are newly added, modified, or dropped from the C1_B_PER_CHAR_INTG table:

Sr. No.	Column Name	Modification Type	Data Type in V9.0.0.0.0	Data Type in V26.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	PER_ID	Newly Added	-	CHAR(10)	No	-

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D.17 C1_BILL_APAY_DTLS_INTG

The following table lists the columns that are newly added, modified, or dropped from the C1_BILL_APAY_DTLS_INTG table:

Sr. No.	Column Name	Modification Type	Data Type in V9.0.0.0.0	Data Type in V26.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	ACCT_APAY_ID	Newly Added	-	CHAR(10)	No	-
2.	ACCT_ID	Newly Added	-	CHAR(10)	No	-

D.18 C1_BILL_FACT_INTG

The following table lists the columns that are newly added, modified, or dropped from the C1_BILL_FACT_INTG table:

Sr. No.	Column Name	Modification Type	Data Type in V9.0.0.0.0	Data Type in V26.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	ACCT_ANOMALY_TODO	Newly Added	-	CHAR(14)	No	-
2.	ADHOC_BILL_SW	Newly Added	-	CHAR(1)	No	-
3.	ADJUSTMENTS_AMT	Newly Added	-	NUMBER(22,20)	No	-
4.	ADJUSTMENTS_AMT_CCY	Newly Added	-	CHAR(3)	No	-
5.	ADJUSTMENTS_IF_ANY	Dropped	NUMBER(22,20)	-	No	-
6.	BILL_CANCEL_SW	Newly Added	-	CHAR(1)	No	-
7.	BILL_STAT_FLG	Newly Added	-	CHAR(2)	No	-
8.	CORRECTIONS_AMT	Newly Added	-	NUMBER(22)	No	-
9.	CORRECTIONS_AMT_CCY	Newly Added	-	CHAR(3)	No	-

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Sr. No.	Column Name	Modification Type	Data Type in V9.0.0.0.0	Data Type in V26.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
10.	CURR_BILL_BAL_CCY	Newly Added	-	CHAR(3)	No	-
11.	MESSAGE_CAT	Newly Added	-	VARCHAR2(60)	No	-
12.	NEW_CHARGES_AMT	Newly Added	-	NUMBER(22)	No	-
13.	NEW_CHARGES_AMT_CCY	Newly Added	-	CHAR(3)	No	-
14.	PAYMENTS_RECEIVED_CURR_BILL	Newly Added	-	NUMBER(22)	No	-
15.	PAYMENTS_RECVD_CURR_BILL_CCY	Newly Added	-	CHAR(3)	No	-
16.	PAYMENTS_RECVD_LAST_BILL_CCY	Newly Added	-	CHAR(3)	No	-
17.	PREVIOUS_BALANCE_CCY	Newly Added	-	CHAR(3)	No	-
18.	REVIEW_YN	Dropped	CHAR(14)	-	No	-
19.	TOTAL_AMT	Newly Added	-	NUMBER(22)	No	-
20.	TOTAL_AMT_CCY	Newly Added	-	CHAR(3)	No	-
21.	WIN_END_DT	Newly Added	-	DATE(7)	No	-
22.	WIN_START_DT	Newly Added	-	DATE(7)	No	-

D.19 C1_BILL_SUMMARY

The following table lists the columns that are newly added, modified, or dropped from the C1_BILL_SUMMARY table:

Sr. No.	Column Name	Modification Type	Data Type in V9.0.0.0.0	Data Type in V26.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	ACCT_ID	Newly Added	-	CHAR(10)	No	-

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Sr. No.	Column Name	Modification Type	Data Type in V9.0.0.0.0	Data Type in V26.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
2.	BILL_CANCEL_SW	Newly Added	-	CHAR(1)	No	-

D.20 C1_BSEG_SUMMARY

The following table lists the columns that are newly added, modified, or dropped from the C1_BSEG_SUMMARY table:

Sr. No.	Column Name	Modification Type	Data Type in V9.0.0.0.0	Data Type in V26.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	ACCT_DIV_CURR_CD	Newly Added	-	CHAR(3)	No	-
2.	ACCT_DIV_CURR_EXCHRATE_ID	Newly Added	-	CHAR(10)	No	-

D.21 C1_DEDUCTIBLE_DTL

The following table lists the columns that are newly added, modified, or dropped from the C1_DEDUCTIBLE_DTL table:

Sr. No.	Column Name	Modification Type	Data Type in V9.0.0.0.0	Data Type in V26.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	DEDUCT_ACCT_DIV_CURR_AMT	Newly Added	-	NUMBER(22,36)	No	-
2.	DEDUCT_IMPL_CURR_AMT	Newly Added	-	NUMBER(22,36)	No	-

D.22 C1_DELIN_DTLS_INTG

The following table lists the columns that are newly added, modified, or dropped from the C1_DELIN_DTLS_INTG table:

Sr. No.	Column Name	Modification Type	Data Type in V9.0.0.0.0	Data Type in V26.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	DELIN_PROC_ID	Newly Added	-	CHAR(12)	No	-

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Sr. No.	Column Name	Modification Type	Data Type in V9.0.0.0.0	Data Type in V26.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
2.	ENTITY_ID	Newly Added	-	VARCHAR2(50)	No	-

D.23 C1_DELIN_PROC_TYPE_GRC_PRD_DF

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

Sr. No.	Column Name	Modification Type	Data Type in V9.0.0.0.0	Data Type in V26.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	ELIGIBILITY_CHECK	Newly Added	-	CHAR(1)	No	-

D.24 C1_DIM_ACCT_INTG

The following table lists the columns that are newly added, modified, or dropped from the C1_DIM_ACCT_INTG table:

Sr. No.	Column Name	Modification Type	Data Type in V9.0.0.0.0	Data Type in V26.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	ACCT_APAY_ID	Dropped	CHAR(10)	-	No	-
2.	APAY_END_DT	Dropped	DATE(7)	-	No	-
3.	APAY_EXP_DT	Dropped	DATE(7)	-	No	-
4.	APAY_MAX_WDRWL_AMT	Dropped	NUMBER(22,15)	-	No	-
5.	APAY_METHOD	Dropped	VARCHAR2(60)	-	No	-
6.	APAY_METHOD_FLG	Dropped	CHAR(4)	-	No	-
7.	APAY_PCT	Dropped	NUMBER(22,5)	-	No	-
8.	APAY_RTE_TYPE_CD	Dropped	CHAR(10)	-	No	-

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Sr. No.	Column Name	Modification Type	Data Type in V9.0.0.0.0	Data Type in V26.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
9.	APAY_SRC_CD	Dropped	CHAR(12)	-	No	-
10.	APAY_START_DT	Dropped	DATE(7)	-	No	-
11.	APAY_TYPE_FLG	Dropped	CHAR(4)	-	No	-
12.	APAY_USAGE_FLG	Dropped	DATE(7)	-	No	-
13.	BILL_MSG_CD	Newly Added	-	CHAR(4)	No	-
14.	ENCR_EXT_ACCT_ID	Dropped	VARCHAR2(108)	-	No	-
15.	EXT_ACCT_ID	Dropped	VARCHAR2(50)	-	No	-
16.	ID_TYPE_CD	Newly Added	-	CHAR(8)	No	-
17.	PER_ID_NBR	Newly Added	-	VARCHAR2(50)	No	-

D.25 C1_FT_GL_DTLS_INTG

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

Sr. No.	Column Name	Modification Type	Data Type in V9.0.0.0.0	Data Type in V26.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	ACCT_DIV_CUR_EXCHRATE_ID	Newly Added	-	CHAR(10)	No	-
2.	ACCT_DIV_CURCY_AMT	Newly Added	-	NUMBER(22,36)	No	-
3.	ACCT_DIV_CURCY_CD	Newly Added	-	CHAR(3)	No	-
4.	ACCT_DIV_EXCHRATE	Newly Added	-	NUMBER(22,36)	No	-
5.	ADJ_DERIVED_TYPE	Newly Added	-	VARCHAR2(6)	No	-
6.	BILL_CYC_CD	Newly Added	-	CHAR(4)	No	-

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Sr. No.	Column Name	Modification Type	Data Type in V9.0.0.0.0	Data Type in V26.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
7.	IMPL_CURCY_CD	Newly Added	-	CHAR(3)	No	-
8.	IMPL_CURRENCY_AMT	Newly Added	-	NUMBER(22,36)	No	-
9.	IMPL_CURRENCY_EXCHRATE	Newly Added	-	NUMBER(22,36)	No	-
10.	IMPL_CURRENCY_EXCHRATE_ID	Newly Added	-	CHAR(10)	No	-
11.	PER_DIV_CUR_EXCHRATE_ID	Newly Added	-	CHAR(10)	No	-
12.	PER_DIV_CURCY_AMT	Newly Added	-	NUMBER(22,36)	No	-
13.	PER_DIV_CURCY_CD	Newly Added	-	CHAR	No	-
14.	PER_DIV_EXCHRATE	Newly Added	-	NUMBER(22,36)	No	-

D.26 C1_GENERIC_TEMPLATE

The following table lists the columns that are newly added, modified, or dropped from the C1_GENERIC_TEMPLATE table:

Sr. No.	Column Name	Modification Type	Data Type in V9.0.0.0.0	Data Type in V26.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	SECTION	Newly Added	-	VARCHAR2(50)	No	-
2.	SUB_CASE	Newly Added	-	VARCHAR2(50)	No	-

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D.27 C1_LPC_DTLS_INTG

The following table lists the columns that are newly added, modified, or dropped from the C1_LPC_DTLS_INTG table:

Sr. No.	Column Name	Modification Type	Data Type in V9.0.0.0.0	Data Type in V26.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	ACCT_ID	Newly Added	-	CHAR(10)	No	-
2.	ACCT_NBR	Newly Added	-	VARCHAR2(30)	No	-

D.28 C1_PAY_DTLS_INTG

The following table lists the columns that are newly added, modified, or dropped from the C1_PAY_DTLS_INTG table:

Sr. No.	Column Name	Modification Type	Data Type in V9.0.0.0.0	Data Type in V26.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	PAY_TENDER_ID	Newly Added	-	CHAR(12)	No	-

D.29 C1_PER_SUMMARY

The following table lists the columns that are newly added, modified, or dropped from the C1_PER_SUMMARY table:

Sr. No.	Column Name	Modification Type	Data Type in V9.0.0.0.0	Data Type in V26.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	BILL_PROFIT_AMT	Newly Added	-	NUMBER(22,36)	No	-
2.	BILL_PROFIT_AMT_PER_DIV_CURR_AMT	Newly Added	-	NUMBER(22,36)	No	-

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D.30 C1_RF_BASE_TXN_DTLS

The following table lists the columns that are newly added, modified, or dropped from the C1_RF_BASE_TXN_DTLS table:

Sr. No.	Column Name	Modification Type	Data Type in V9.0.0.0.0	Data Type in V26.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	BILL_DT	Newly Added	-	DATE(7)	No	-
2.	BSEG_ID	Newly Added	-	CHAR(12)	No	-
3.	HEADER_SEQ	Newly Added	-	NUMBER(22,3)	No	-

D.31 C1_RF_BY_ACCT

The following table lists the columns that are newly added, modified, or dropped from the C1_RF_BY_ACCT table:

Sr. No.	Column Name	Modification Type	Data Type in V9.0.0.0.0	Data Type in V26.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	ACCT_ID	Newly Added	-	CHAR(10)	No	-
2.	PER_ID	Newly Added	-	CHAR(10)	No	-

D.32 C1_RF_BY_CUST

The following table lists the columns that are newly added, modified, or dropped from the C1_RF_BY_CUST table:

Sr. No.	Column Name	Modification Type	Data Type in V9.0.0.0.0	Data Type in V26.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	PER_ID	Newly Added	-	CHAR(10)	No	-

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D.33 C1_RF_TEST_ACCT

The following table lists the columns that are newly added, modified, or dropped from the C1_RF_TEST_ACCT table:

Sr. No.	Column Name	Modification Type	Data Type in V9.0.0.0.0	Data Type in V26.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	ACCT_ID	Newly Added	-	CHAR(10)	No	-
2.	PER_ID	Newly Added	-	CHAR(10)	No	-

D.34 C1_RF_TEST_CUST

The following table lists the columns that are newly added, modified, or dropped from the C1_RF_TEST_CUST table:

Sr. No.	Column Name	Modification Type	Data Type in V9.0.0.0.0	Data Type in V26.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	PER_ID	Newly Added	-	CHAR(10)	No	-

D.35 C1_RF_TRAIN_ACCT

The following table lists the columns that are newly added, modified, or dropped from the C1_RF_TRAIN_ACCT table:

Sr. No.	Column Name	Modification Type	Data Type in V9.0.0.0.0	Data Type in V26.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	ACCT_ID	Newly Added	-	CHAR(10)	No	-
2.	PER_ID	Newly Added	-	CHAR(10)	No	-

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D.36 C1_RF_TRAIN_CUST

The following table lists the columns that are newly added, modified, or dropped from the C1_RF_TRAIN_CUST table:

Sr. No.	Column Name	Modification Type	Data Type in V9.0.0.0.0	Data Type in V26.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	PER_ID	Newly Added	-	CHAR(10)	No	-

D.37 C1_RF_TTS_ACCT

The following table lists the columns that are newly added, modified, or dropped from the C1_RF_TTS_ACCT table:

Sr. No.	Column Name	Modification Type	Data Type in V9.0.0.0.0	Data Type in V26.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	ACCT_ID	Newly Added	-	CHAR(10)	No	-
2.	PER_ID	Newly Added	-	CHAR(10)	No	-

D.38 C1_RF_TTS_CUST

The following table lists the columns that are newly added, modified, or dropped from the C1_RF_TTS_CUST table:

Sr. No.	Column Name	Modification Type	Data Type in V9.0.0.0.0	Data Type in V26.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	PER_ID	Newly Added	-	CHAR(10)	No	-

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D.39 C1_SLAB_BC_PRED

The following table lists the columns that are newly added, modified, or dropped from the C1_SLAB_BC_PRED table:

Sr. No.	Column Name	Modification Type	Data Type in V9.0.0.0.0	Data Type in V26.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	TREND_STATUS_CODE	Newly Added	-	VARCHAR2(30)	No	-
2.	WIN_START_DT	Newly Added	-	DATE(7)	No	-

D.40 C1_SLAB_BC_TRAIN

The following table lists the columns that are newly added, modified, or dropped from the C1_SLAB_BC_TRAIN table:

Sr. No.	Column Name	Modification Type	Data Type in V9.0.0.0.0	Data Type in V26.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	BILL_CYC_DIV_KEY	Newly Added	-	VARCHAR2(32)	No	-

D.41 C1_TAD_PRED

The following table lists the columns that are newly added, modified, or dropped from the C1_TAD_PRED table:

Sr. No.	Column Name	Modification Type	Data Type in V9.0.0.0.0	Data Type in V26.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	AIML_JOB_ID	Newly Added	-	NUMBER(22,15)	No	-
2.	ANOMALY_STATUS_FLG	Newly Added	-	CHAR(4)	No	-
3.	GROUP_HASH	Newly Added	-	VARCHAR2(64)	No	-
4.	GROUP_KEY	Newly Added	-	VARCHAR2(4000)	No	-

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Sr. No.	Column Name	Modification Type	Data Type in V9.0.0.0.0	Data Type in V26.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
5.	PERIOD_END_DTTM	Newly Added	-	DATE(7)	No	-
6.	PERIOD_START_DTTM	Newly Added	-	DATE(7)	No	-
7.	PREDICTION_MODE	Newly Added	-	VARCHAR2(3)	No	-
8.	REASON_CODES	Format Change	VARCHAR2(4000)	CLOB(4000)	No	-
9.	TAD_PRED_ID	Newly Added	-	NUMBER(22,15)	No	-
10.	TXN_DETAIL_ID	Newly Added	-	NUMBER(22,15)	No	-
11.	TXN_DTTM	Newly Added	-	DATE(7)	No	-
12.	TXN_HEADER_ID	Newly Added	-	CHAR(14)	No	-

D.42 CI_FILE_REQUEST_TYPE

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

Sr. No.	Column Name	Modification Type	Data Type in V9.0.0.0.0	Data Type in V26.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	EXPCTD_FILE_CNT	Newly Added	-	NUMBER(22,4)	No	-
2.	EXPCTD_FILE_FREQ	Newly Added	-	CHAR(1)	No	-

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D.43 CI_MEMB_PRC_AUDIT

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

Sr. No.	Column Name	Modification Type	Data Type in V9.0.0.0.0	Data Type in V26.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	ENTITY_TYPE	Newly Added	-	CHAR(4)	No	-
2.	PREPRCS_REQ_ID	Newly Added	-	NUMBER(22,15)	No	-
3.	PRICING_RULE_ID	Newly Added	-	CHAR(15)	No	-

D.44 CI_PRICING_AMT_CHG

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

Sr. No.	Column Name	Modification Type	Data Type in V9.0.0.0.0	Data Type in V26.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	ACCT_ID	Newly Added	-	CHAR(10)	No	-
2.	AUDIT_EVENT_ID	Newly Added	-	CHAR(12)	No	-

D.45 TEMP_FUTURE_DATES_ACCT

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

Sr. No.	Column Name	Modification Type	Data Type in V9.0.0.0.0	Data Type in V26.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	ACCT_ID	Dropped	CHAR(10)	-	No	-
2.	PER_ID	Dropped	CHAR(10)	-	No	-

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D.46 TEMP_MAX_DATES_ACCT

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

Sr. No.	Column Name	Modification Type	Data Type in V9.0.0.0.0	Data Type in V26.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	ACCT_ID	Dropped	CHAR(10)	-	No	-
2.	PER_ID	Dropped	CHAR(10)	-	No	-

D.47 TEMP_PRED_EXCHRATES

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

Sr. No.	Column Name	Modification Type	Data Type in V9.0.0.0.0	Data Type in V26.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	CUSTOMER_NAME	Dropped	VARCHAR2(254)	-	No	-
2.	IMPL_CURCY_CD	Dropped	CHAR(3)	-	No	-
3.	PER_DIV_CURCY_AMT	Dropped	NUMBER(22)	-	No	-
4.	PER_DIV_CURCY_CD	Dropped	VARCHAR2(3)	-	No	-
5.	PER_DIV_EXCHRATE	Dropped	NUMBER(22)	-	No	-
6.	PER_ID	Dropped	CHAR(10)	-	No	-

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D.48 TMP_UPA_IMP_BCHG

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

Sr. No.	Column Name	Modification Type	Data Type in V9.0.0.0.0	Data Type in V26.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	BILLABLE_CHG_ID	Newly Added	-	CHAR(10)	No	-

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Appendix E : Algorithms and Algorithm Types Dropped in ORMB Version 26.1.0.0.0

This section lists the algorithms and algorithm types which are dropped in Oracle Revenue Management and Billing Version 26.1.0.0.0.

E.1 Algorithm Types

No algorithm types are dropped in Oracle Revenue Management and Billing Version 26.1.0.0.0.

E.2 Algorithms

No algorithms are dropped in Oracle Revenue Management and Billing Version 26.1.0.0.0.

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Appendix F : Parameters Added or Removed from Algorithm Types in ORMB Version 26.1.0.0.0

No parameters are newly added or removed from the existing algorithm types in Oracle Revenue Management and Billing Version 26.1.0.0.0.

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Appendix G : Option Types Added or Removed from Feature Configurations in ORMB Version 26.1.0.0.0

This section lists the option types which are newly added or removed from the existing feature configurations in Oracle Revenue Management and Billing Version 26.1.0.0.0:

Feature Configuration	Option Type (Removed from 26.1.0.0.0)	Option Type (Added in 26.1.0.0.0)
C1_FINTRANOP	-	Refund/Write-Off Flush Counter
	-	Refund/Write-Off Flush Counter
	-	Number of Rows Per Page
	-	Number of Rows Per Page
	-	Number of Rows Per Page
	-	Statement Construct Key Suffix Generation
C1-AIMLFC	-	Account 360 Narrative
	-	Fully Insured Billing Anomaly Detection Feature Opt-In
	-	Billing Dashboard Narrative
	-	Customer 360 Narrative
	Billing Anomaly Detection Feature Opt-In	-
C1-ASOBLLNG		Number of months in advance for Open-Ended Renewal
C1-BILLDSHB	-	Number of Rows Per Page
	-	Thread Count
C1-BRMLINOPS	-	Allowed Previous Batch Run for Prediction
	-	Suppression flag for Bseg Amount Variation
	-	Suppression Flag for SQI Variation
	-	Suppression Flag for Price Assignment Agreed Pricing

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Feature Configuration	Option Type (Removed from 26.1.0.0.0)	Option Type (Added in 26.1.0.0.0)
	-	Suppression Flag for Price Assignment Standard Pricing
C1-BRSQCDMAP	-	SQI Code - Transaction Volume
	-	SQI Code For Bill Readiness Check
C1-FLUSHCONG	-	Bill Completion
	-	Deal
	-	Deal Configuration
	-	Deal Currency
	-	Deal Flush Counter
	-	Deal Information
	-	Deal Level
	-	Deal Simulation
	-	Offset Flush Counter
	-	DB Process Instruction - Purge Criteria
	-	Pricing Rule Flush Counter
	-	Pricing Rules
	-	Purge Criteria
	-	Revenue Recognition Adjustment
	-	Refund/Write-Off Flush Counter
C1-LPCCALC	-	Billing Account Type Indicator (Values: Account Char Type)
	-	Billable charge Bill cycle alignment
	-	Calculated Amount
	-	LPC Calculation Method (Values: C, NC)
	-	Latest Billed Coverage End Date
	-	LPC Bill Eligibility Date (Value: YYYY-MM-DD)
	-	LPC Configuration Level (Values: POLICY, CUSTOMERCLASS)

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Feature Configuration	Option Type (Removed from 26.1.0.0.0)	Option Type (Added in 26.1.0.0.0)
	-	Policy Person to Account (Overdue Bill Owner Account) Financ
	-	Policy Person to Account (Overdue Bill Owner Account) Main
	-	Policy Person to LPC Billing Account Financial Responsibilit
	-	Policy Person to LPC Billing Account Main Customer Relations
	-	Policy to Person Main Customer Relationship (Values: Y, N)
	-	Product Specific Processors Record Type
	-	Policy Person - Policy Role
	-	Post Processing - Price Item Based
C1-PMDASH	-	Number of Months for Period Filter
C1-SLABFC	-	SLATE Baseline Method
	-	SLATE History Cycle Count
	-	SLATE Trend Threshold Percent
C1-TADFC	-	TAD Configuration Parameter

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Appendix H : Characteristic Types Dropped in ORMB Version 26.1.0.0.0

No characteristic types are dropped in Oracle Revenue Management and Billing Version 26.1.0.0.0.

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Appendix I : Batch Controls Dropped in ORMB Version 26.1.0.0.0

No batch controls are dropped in Oracle Revenue Management and Billing Version 26.1.0.0.0.

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Appendix J : Parameters Added or Removed from Batch Controls in ORMB Version 26.1.0.0.0

This section lists the parameters which are newly added or removed from the existing batch controls in Oracle Revenue Management and Billing Version 26.1.0.0.0:

Batch Control	Parameters (Removed from 26.1.0.0.0)		Parameters (Added in 26.1.0.0.0)	
	Sequence Number	Parameter	Sequence Number	Parameter
C1-AJEXT	50	Account Id	10	Archive File Path
	130	Algorithm Code To Move File	50	Delimiter
	80	Algorithm Name	30	File Name
	90	Chunk Size	60	File Write Chunk Size
	60	Division	20	Target File Path
	30	File Output Format	-	-
	10	File Output Name	-	-
	20	File Output Path	-	-
	70	is Header Required	-	-
	100	Is Single File	-	-
	110	Trail Count Required	-	-
	120	Trail Format String	-	-
	140	Transaction From Date	-	-
	150	Transaction To Date	-	-
C1-AUTOM	-	-	140	Coverage Specific Automaintenance
C1-CRELP	70	Thread Pool Name	70	Bill Cycle Code
	60	ToDo Type for Account Batch Errors	60	Thread Pool Name
	-	-	900	Email Mode
	-	-	910	Override Maximum Errors

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Batch Control	Parameters (Removed from 26.1.0.0.0)		Parameters (Added in 26.1.0.0.0)	
	Sequence Number	Parameter	Sequence Number	Parameter
C1-HCEXS	70	Thread Pool Name	90	Thread Pool Name
	60	Override Maximum Errors	900	Email Mode
	-	-	60	External Source Id
	-	-	70	Inbound Message Type
	-	-	80	Override Maximum Errors
C1-HLMON	-	-	70	Hold Request Type
C1-TADPR	30	Thread Pool Name	900	Thread Pool Name
	40	Email Mode	910	Email Mode
	10	Grouping Columns	80	Additional Exclusion Criteria
	50	Override Maximum Errors	60	Exceptional Grouping override
	20	Monitored Columns	70	Additional Inclusion criteria
	-	-	20	Baseline Lookback Days
	-	-	920	Override Maximum Errors
	-	-	50	Monitored Numeric Columns
	-	-	10	Prediction Mode
	-	-	90	Rule-based Anomaly Criteria
	-	-	40	Aggregate Score-through Date
	-	-	30	Aggregate Window Days
C1-UPMST	-	-	40	Bucket Count
PUPL	-	-	900	Email Mode

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Batch Control	Parameters (Removed from 26.1.0.0.0)		Parameters (Added in 26.1.0.0.0)	
	Sequence Number	Parameter	Sequence Number	Parameter
	-	-	90	ToDo Entry Creation for Error Records

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Appendix K : Changing the DB User Password

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

1. Perform the following steps on the application environment:
    a. Change the DB Name using the `configureEnv` command.
    b. Execute the `initialSetup` utility using the following command:

    Linux:

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

    Windows:

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

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

    Linux:

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

    Windows:

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


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Appendix L : ORMB V26.1.0.0.0 Rollup Packs

Instead of individually applying the patches, you can download and apply the release-specific rollup packs. To view the list of rollup packs that you need to apply on the application environment and database, see the *ORMB V26.1.0.0.0 Patch Guide (Article ID: KB937619)* on My Oracle Support.

L.1 Applying a Rollup Pack on the Application Environment

Once you install Oracle Revenue Management and Billing Version 26.1.0.0.0, you need to apply the rollup packs listed in the *ORMB V26.1.0.0.0 Patch Guide (Article ID: KB937619)*. To apply a rollup pack on the application environment:

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

   Linux:

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

   Windows:

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

   The contents of the zip file are extracted in the `<DESTINATION_FOLDER_1>` folder. The contents include the `README.txt` file and three folders named `RMB_V26.1.0.0.0_App_Rollup`, `RMB_V26.1.0.0.0_DB_Rollup`, and `RMB_V26.1.0.0.0_PFDs`.
3. Initialize the application environment (on which you want to install the rollup pack) using the following command:

   Linux:

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

   Windows:

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

   Where,

   `$SPLEBASE` or `%SPLEBASE%` is the path where the application environment is installed and `$SPLENVIRON` or `%SPLENVIRON%` is the name of the application environment.
4. Change to the `RMB_V26.1.0.0.0_App_Rollup` folder using the following command:

   Linux:

   ```
   cd <DESTINATION_FOLDER_1>/RMB_V26.1.0.0.0_App_Rollup
   ```

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Windows:

```
cd <DESTINATION_FOLDER_1>\RMB_V26.1.0.0.0_App_Rollup
```

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

5. Install the patch using the following command:

   Linux:

   ```
   ./installSFgroup.sh
   ```

   Windows:

   ```
   installSFgroup.cmd
   ```

L.2 Applying a Rollup Pack on the Database

Once you install Oracle Revenue Management and Billing Version 26.1.0.0.0, you need to apply the rollup packs listed in the *ORMB V26.1.0.0.0 Patch Guide (Article ID: KB937619)*. You can apply a rollup pack from a Windows machine or UNIX Standalone server. To apply a rollup pack on the database:

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

   Linux:

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

   Windows:

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

   The contents of the zip file are extracted in the <DESTINATION_FOLDER_1> folder. The contents include the README.txt file and three folders named RMB_V26.1.0.0.0_App_Rollup, RMB_V26.1.0.0.0_DB_Rollup, and RMB_V26.1.0.0.0_PFDs.

3. Change to the RMB_V26.1.0.0.0_DB_Rollup folder using the following command:

   Linux:

   ```
   cd <DESTINATION_FOLDER_1>/RMB_V26.1.0.0.0_DB_Rollup
   ```

   Windows:

   ```
   cd <DESTINATION_FOLDER_1>\RMB_V26.1.0.0.0_DB_Rollup
   ```

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

4. Execute the ouafDatabasePatch utility using the following command:

   Windows:

   ```
   ouafDatabasePatch.cmd
   ```

   Linux:

   ```
   ouafDatabasePatch.sh
   ```


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

```
chmod 755 ouafDatabasePatch.sh
```

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

Parameter	Value

`Enter the target database type (O/M/D) [O]`	`O (if you have Oracle database)`
	`OR`
	`M (if you have MySQL database)`

`Enter the username that owns the schema`	`<DB_USER>` Example: `CISADM`
`Enter the password for the <DB_USER> user`	`<DB_USER_PASSWORD>`

`Enter the name of the Oracle Database Connection String`	`<DB_SERVER:DB_PORT:DB_SID>`
	`OR`
	`<DB_SERVER:DB_PORT/SERVICE_NAME>`

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

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

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

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Appendix M : New Tables Added in OUAF Version 25.4

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

M.1 CI_BATCH_CTRL_OPT

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

Column Details:

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

Primary Key:

Key Type	Column Name
Composite	BATCH_CD
	BATCH_CTRL_OPT_FLG
	BATCH_CTRL_OPT_VAL
	SEQ_NUM

Indexes:

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

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M.2 F1_ATTACHMENT_DATA

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

Column Details:

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

Primary Key:

Key Type	Column Name
Composite	ATTACHMENT_ID
	ATTCH_DATA_USAGE_FLG
	SEQNO

Indexes:

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

M.3 F1_PATCH_DETAILS

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

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
APPL_VERSION	VARCHAR2(60)	No	-
BASE_REF_ID	VARCHAR2(60)	Yes	-
EXT_PATCH_REF_ID	VARCHAR2(60)	No	-
PATCH_CATEGORY	VARCHAR2(254)	Yes	-

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

Primary Key:

Key Type	Column Name
Simple	PATCH_ID

Indexes:

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

M.4 F1_PROD_METRIC_SNPSHT

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

Column Details:

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

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

Primary Key:

Key Type	Column Name
Simple	METRIC_SNAPSHOT_ID

Indexes:

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

M.5 F1_PROD_METRIC_SNPSHT_K

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

Column Details:

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

Primary Key:

Key Type	Column Name
Composite	ENV_ID
	METRIC_SNAPSHOT_ID

Indexes:

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

M.6 F1_PROD_METRIC_SNPSHT_VAL

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

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Column Details:

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

Primary Key:

Key Type	Column Name
Composite	EXT_PROD_METRIC
	METRIC_SNAPSHOT_ID

Indexes:

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

M.7 F1_PROD_METRIC_TYPE

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

Column Details:

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

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Primary Key:

Key Type	Column Name
Simple	PROD_METRIC_TYPE_CD

Indexes:

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

M.8 F1_PROD_METRIC_TYPE_L

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

Column Details:

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

Primary Key:

Key Type	Column Name
Composite	LANGUAGE_CD
	PROD_METRIC_TYPE_CD

Indexes:

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

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Appendix N : Existing Tables Modified in OUAF Version 25.4

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

N.1 C1_ADJ_DTLS_INTG

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

Sr. No.	Column Name	Modification Type	Data Type in V4.5.0.1.3	Data Type in V25.4	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	ADHOC_CHAR_VAL	Newly Added	-	NUMBER(22)	No	-

N.2 C1_B_ACCT_CHAR_INTG

The following table lists the columns that are newly added, modified, or dropped from the C1_B_ACCT_CHAR_INTG table:

Sr. No.	Column Name	Modification Type	Data Type in V4.5.0.1.3	Data Type in V25.4	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	ADHOC_CHAR_VAL	Newly Added	-	VARCHAR2(254)	No	-
2.	CHAR_TYPE_CD	Newly Added	-	CHAR(8)	No	-
3.	CHAR_VAL	Newly Added	-	CHAR(16)	No	-
4.	CHAR_VAL_FK1	Newly Added	-	VARCHAR2(50)	No	-
5.	CHAR_VAL_FK2	Newly Added	-	VARCHAR2(50)	No	-
6.	CHAR_VAL_FK3	Newly Added	-	VARCHAR2(50)	No	-

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Sr. No.	Column Name	Modification Type	Data Type in V4.5.0.1.3	Data Type in V25.4	Data Migration Required (Yes or No)	Column Value After Data Migration
7.	CHAR_VAL_FK4	Newly Added	-	VARCHAR2(50)	No	-
8.	CHAR_VAL_FK5	Newly Added	-	VARCHAR2(50)	No	-
9.	DESCR	Newly Added	-	VARCHAR2(60)	No	-
10.	EFFDT	Newly Added	-	DATE(7)	No	-
11.	VERSION	Newly Added	-	NUMBER(22,5)	No	-

N.3 C1_B_ADJ_CHAR_INTG

The following table lists the columns that are newly added, modified, or dropped from the C1_B_ADJ_CHAR_INTG table:

Sr. No.	Column Name	Modification Type	Data Type in V4.5.0.1.3	Data Type in V25.4	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	ADHOC_CHAR_VAL	Newly Added	-	VARCHAR2(254)	No	-
2.	CHAR_TYPE_CD	Newly Added	-	CHAR(8)	No	-
3.	CHAR_VAL	Newly Added	-	CHAR(16)	No	-
4.	CHAR_VAL_FK1	Newly Added	-	VARCHAR2(50)	No	-
5.	CHAR_VAL_FK2	Newly Added	-	VARCHAR2(50)	No	-
6.	CHAR_VAL_FK3	Newly Added	-	VARCHAR2(50)	No	-
7.	CHAR_VAL_FK4	Newly Added	-	VARCHAR2(50)	No	-
8.	CHAR_VAL_FK5	Newly Added	-	VARCHAR2(50)	No	-
9.	DESCR	Newly Added	-	VARCHAR2(60)	No	-

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Sr. No.	Column Name	Modification Type	Data Type in V4.5.0.1.3	Data Type in V25.4	Data Migration Required (Yes or No)	Column Value After Data Migration
10.	SEQ_NUM	Newly Added	-	NUMBER(22,3)	No	-
11.	VERSION	Newly Added	-	NUMBER(22,5)	No	-

N.4 C1_B_ADJ_DTLS_INTG

The following table lists the columns that are newly added, modified, or dropped from the C1_B_ADJ_DTLS_INTG table:

Sr. No.	Column Name	Modification Type	Data Type in V4.5.0.1.3	Data Type in V25.4	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	CRE_DT	Newly Added	-	DATE(7)	No	-
2.	DESCR	Newly Added	-	VARCHAR2(60)	No	-
3.	EFFDT	Newly Added	-	DATE(7)	No	-
4.	SEQ_NUM	Newly Added	-	NUMBER(22)	No	-

N.5 C1_B_BCHG_CHAR_INTG

The following table lists the columns that are newly added, modified, or dropped from the C1_B_BCHG_CHAR_INTG table:

Sr. No.	Column Name	Modification Type	Data Type in V4.5.0.1.3	Data Type in V25.4	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	ADHOC_CHAR_VAL	Newly Added	-	VARCHAR2(254)	No	-
2.	CHAR_TYPE_CD	Newly Added	-	CHAR(8)	No	-
3.	CHAR_VAL	Newly Added	-	CHAR(16)	No	-

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Sr. No.	Column Name	Modification Type	Data Type in V4.5.0.1.3	Data Type in V25.4	Data Migration Required (Yes or No)	Column Value After Data Migration
4.	CHAR_VAL_FK1	Newly Added	-	VARCHAR2(50)	No	-
5.	CHAR_VAL_FK2	Newly Added	-	VARCHAR2(50)	No	-
6.	CHAR_VAL_FK3	Newly Added	-	VARCHAR2(50)	No	-
7.	CHAR_VAL_FK4	Newly Added	-	VARCHAR2(50)	No	-
8.	CHAR_VAL_FK5	Newly Added	-	VARCHAR2(50)	No	-
9.	DESCR	Newly Added	-	VARCHAR2(60)	No	-
10.	EFFDT	Newly Added	-	DATE(7)	No	-
11.	SRCH_CHAR_VAL	Newly Added	-	VARCHAR2(254)	No	-
12.	VERSION	Newly Added	-	NUMBER(22,5)	No	-

N.6 C1_B_BCHG_DTLS_INTG

The following table lists the columns that are newly added, modified, or dropped from the C1_B_BCHG_DTLS_INTG table:

Sr. No.	Column Name	Modification Type	Data Type in V4.5.0.1.3	Data Type in V25.4	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	CRE_DT	Newly Added	-	DATE(7)	No	-
2.	END_DT	Newly Added	-	DATE(7)	No	-
3.	SEQ_NUM	Newly Added	-	NUMBER(22,3)	No	-
4.	START_DT	Newly Added	-	DATE(7)	No	-

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Sr. No.	Column Name	Modification Type	Data Type in V4.5.0.1.3	Data Type in V25.4	Data Migration Required (Yes or No)	Column Value After Data Migration
5.	START_TM	Newly Added	-	DATE(7)	No	-

N.7 C1_B_BILL_CHAR_INTG

The following table lists the columns that are newly added, modified, or dropped from the C1_B_BILL_CHAR_INTG table:

Sr. No.	Column Name	Modification Type	Data Type in V4.5.0.1.3	Data Type in V25.4	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	ADHOC_CHAR_VAL	Newly Added	-	VARCHAR2(254)	No	-
2.	CHAR_TYPE_CD	Newly Added	-	CHAR(8)	No	-
3.	CHAR_VAL	Newly Added	-	CHAR(16)	No	-
4.	CHAR_VAL_FK1	Newly Added	-	VARCHAR2(50)	No	-
5.	CHAR_VAL_FK2	Newly Added	-	VARCHAR2(50)	No	-
6.	CHAR_VAL_FK3	Newly Added	-	VARCHAR2(50)	No	-
7.	CHAR_VAL_FK4	Newly Added	-	VARCHAR2(50)	No	-
8.	CHAR_VAL_FK5	Newly Added	-	VARCHAR2(50)	No	-
9.	DESCR	Newly Added	-	VARCHAR2(60)	No	-
10.	SEQ_NUM	Newly Added	-	NUMBER(22,3)	No	-
11.	SRCH_CHAR_VAL	Newly Added	-	VARCHAR2(50)	No	-
12.	VERSION	Newly Added	-	NUMBER(22,5)	No	-

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N.8 C1_B_BILL_FACT_INTG

The following table lists the columns that are newly added, modified, or dropped from the C1_B_BILL_FACT_INTG table:

Sr. No.	Column Name	Modification Type	Data Type in V4.5.0.1.3	Data Type in V25.4	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	ADDRESS1	Newly Added	-	VARCHAR2(254)	No	-
2.	ADDRESS2	Newly Added	-	VARCHAR2(254)	No	-
3.	ADDRESS3	Newly Added	-	VARCHAR2(254)	No	-
4.	ADDRESS4	Newly Added	-	VARCHAR2(254)	No	-
5.	CITY	Newly Added	-	VARCHAR2(90)	No	-
6.	COMMENTS	Newly Added	-	VARCHAR2(254)	No	-
7.	COMPLETE_DTTM	Newly Added	-	DATE(7)	No	-
8.	COUNTRY	Newly Added	-	CHAR(3)	No	-
9.	COUNTY	Newly Added	-	VARCHAR2(90)	No	-
10.	CRE_DTTM	Newly Added	-	DATE(7)	No	-
11.	CURRENCY_CD	Newly Added	-	CHAR(3)	No	-
12.	EXP_MSG	Newly Added	-	VARCHAR2(254)	No	-
13.	MESSAGE_CAT_NBR	Newly Added	-	NUMBER(22,5)	No	-
14.	MESSAGE_NBR	Newly Added	-	NUMBER(22,5)	No	-
15.	MESSAGE_PARM1	Newly Added	-	VARCHAR2(2000)	No	-
16.	MESSAGE_PARM2	Newly Added	-	VARCHAR2(2000)	No	-

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Sr. No.	Column Name	Modification Type	Data Type in V4.5.0.1.3	Data Type in V25.4	Data Migration Required (Yes or No)	Column Value After Data Migration
17.	MESSAGE_PARM3	Newly Added	-	VARCHAR2(2000)	No	-
18.	MSG_PARM_VAL	Newly Added	-	VARCHAR2(2000)	No	-
19.	NUM1	Newly Added	-	CHAR(6)	No	-
20.	NUM2	Newly Added	-	CHAR(4)	No	-
21.	POSTAL	Newly Added	-	CHAR(12)	No	-
22.	SEQ_NUM	Newly Added	-	NUMBER(22,3)	No	-
23.	SEQNO	Newly Added	-	NUMBER(22,5)	No	-
24.	STATE	Newly Added	-	CHAR(6)	No	-
25.	TD_ENTRY_ID	Newly Added	-	CHAR(14)	No	-
26.	USER_ID	Newly Added	-	CHAR(8)	No	-

N.9 C1_BILL_FACT_INTG

The following table lists the columns that are newly added, modified, or dropped from the C1_BILL_FACT_INTG table:

Sr. No.	Column Name	Modification Type	Data Type in V4.5.0.1.3	Data Type in V25.4	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	EXP_MSG	Newly Added	-	VARCHAR2(254)	No	-
2.	MESSAGE_CAT_NBR	Newly Added	-	NUMBER(22,5)	No	-
3.	MESSAGE_NBR	Newly Added	-	NUMBER(22,5)	No	-
4.	TD_ENTRY_ID	Newly Added	-	CHAR(14)	No	-

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N.10 C1_B_BSEG_CHAR_INTG

The following table lists the columns that are newly added, modified, or dropped from the C1_B_BSEG_CHAR_INTG table:

Sr. No.	Column Name	Modification Type	Data Type in V4.5.0.1.3	Data Type in V25.4	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	ADHOC_CHAR_VAL	Newly Added	-	VARCHAR2(254)	No	-
2.	CHAR_TYPE_CD	Newly Added	-	CHAR(8)	No	-
3.	CHAR_VAL	Newly Added	-	CHAR(16)	No	-
4.	CHAR_VAL_FK1	Newly Added	-	VARCHAR2(50)	No	-
5.	CHAR_VAL_FK2	Newly Added	-	VARCHAR2(50)	No	-
6.	CHAR_VAL_FK3	Newly Added	-	VARCHAR2(50)	No	-
7.	CHAR_VAL_FK4	Newly Added	-	VARCHAR2(50)	No	-
8.	CHAR_VAL_FK5	Newly Added	-	VARCHAR2(50)	No	-
9.	DESCR	Newly Added	-	VARCHAR2(60)	No	-
10.	SEQNO	Newly Added	-	NUMBER(22,5)	No	-
11.	VERSION	Newly Added	-	NUMBER(22,5)	No	-

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N.11 C1_B_BSEG_DTLS_INTG

The following table lists the columns that are newly added, modified, or dropped from the C1_B_BSEG_DTLS_INTG table:

Sr. No.	Column Name	Modification Type	Data Type in V4.5.0.1.3	Data Type in V25.4	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	CHAR_TYPE_CD	Newly Added	-	CHAR(8)	No	-
2.	CHAR_VAL	Newly Added	-	CHAR(16)	No	-
3.	CRE_DTTM	Newly Added	-	DATE	No	-
4.	CURRENCY_CD	Newly Added	-	CHAR(3)	No	-
5.	EFFDT	Newly Added	-	DATE	No	-
6.	EXP_MSG	Newly Added	-	VARCHAR2(254)	No	-
7.	MESSAGE_CAT_NBR	Newly Added	-	NUMBER(22,5)	No	-
8.	MESSAGE_NBR	Newly Added	-	NUMBER(22,5)	No	-
9.	MESSAGE_PARM1	Newly Added	-	VARCHAR2(2000)	No	-
10.	MESSAGE_PARM2	Newly Added	-	VARCHAR2(2000)	No	-
11.	MESSAGE_PARM3	Newly Added	-	VARCHAR2(2000)	No	-
12.	SEQNO	Newly Added	-	NUMBER(22,5)	No	-
13.	STAT_CHG_DTTM	Newly Added	-	DATE	No	-
14.	VERSION	Newly Added	-	NUMBER(22,5)	No	-

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N.12 C1_BSEG_DTLS_INTG

The following table lists the columns that are newly added, modified, or dropped from the C1_BSEG_DTLS_INTG table:

Sr. No.	Column Name	Modification Type	Data Type in V4.5.0.1.3	Data Type in V25.4	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	MESSAGE_CAT_NBR	Newly Added	-	NUMBER(22,5)	No	-
2.	MESSAGE_NBR	Newly Added	-	NUMBER(22,5)	No	-

N.13 C1_B_DIM_ACCT_INTG

The following table lists the columns that are newly added, modified, or dropped from the C1_B_DIM_ACCT_INTG table:

Sr. No.	Column Name	Modification Type	Data Type in V4.5.0.1.3	Data Type in V25.4	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	CURRENCY_CD	Newly Added	-	CHAR(3)	No	-

N.14 C1_B_DIM_CUST_INTG

The following table lists the columns that are newly added, modified, or dropped from the C1_B_DIM_CUST_INTG table:

Sr. No.	Column Name	Modification Type	Data Type in V4.5.0.1.3	Data Type in V25.4	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	ADDRESS	Newly Added	-	VARCHAR2(254)	No	-
2.	CITY	Newly Added	-	VARCHAR2(90)	No	-
3.	COUNTY	Newly Added	-	VARCHAR2(90)	No	-
4.	HOUSE_TYPE	Newly Added	-	CHAR(2)	No	-

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N.15 C1_B_FT_GL_DTLS_INTG

The following table lists the columns that are newly added, modified, or dropped from the C1_B_FT_GL_DTLS_INTG table:

Sr. No.	Column Name	Modification Type	Data Type in V4.5.0.1.3	Data Type in V25.4	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	CHAR_TYPE_CD	Newly Added	-	CHAR(8)	No	-
2.	CHAR_VAL	Newly Added	-	CHAR(16)	No	-
3.	CRE_DTTM	Newly Added	-	DATE(7)	No	-
4.	CURRENCY_CD	Newly Added	-	CHAR(3)	No	-
5.	END_DT	Newly Added	-	DATE(7)	No	-
6.	SEQNO	Newly Added	-	NUMBER(22,5)	No	-
7.	START_DT	Newly Added	-	DATE(7)	No	-

N.16 C1_B_PER_CHAR_INTG

The following table lists the columns that are newly added, modified, or dropped from the C1_B_PER_CHAR_INTG table:

Sr. No.	Column Name	Modification Type	Data Type in V4.5.0.1.3	Data Type in V25.4	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	ADHOC_CHAR_VAL	Newly Added	-	VARCHAR2(254)	No	-
2.	CHAR_TYPE_CD	Newly Added	-	CHAR(8)	No	-
3.	CHAR_VAL	Newly Added	-	CHAR(16)	No	-

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Sr. No.	Column Name	Modification Type	Data Type in V4.5.0.1.3	Data Type in V25.4	Data Migration Required (Yes or No)	Column Value After Data Migration
4.	CHAR_VAL_FK1	Newly Added	-	VARCHAR2(50)	No	-
5.	CHAR_VAL_FK2	Newly Added	-	VARCHAR2(50)	No	-
6.	CHAR_VAL_FK3	Newly Added	-	VARCHAR2(50)	No	-
7.	CHAR_VAL_FK4	Newly Added	-	VARCHAR2(50)	No	-
8.	CHAR_VAL_FK5	Newly Added	-	VARCHAR2(50)	No	-
9.	DESCR	Newly Added	-	VARCHAR2(60)	No	-
10.	EFFDT	Newly Added	-	DATE(7)	No	-
11.	VERSION	Newly Added	-	NUMBER(22,5)	No	-

N.17 C1_DIM_ACCT_INTG

The following table lists the columns that are newly added, modified, or dropped from the C1_DIM_ACCT_INTG table:

Sr. No.	Column Name	Modification Type	Data Type in V4.5.0.1.3	Data Type in V25.4	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	ACCESS_GRP_CD	Newly Added	-	CHAR(12)	No	-

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N.18 C1_ENT_BUS_RULE

The following table lists the columns that are newly added, modified, or dropped from the C1_ENT_BUS_RULE table:

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

N.19 C1_FILE_REQUEST_BATCH_SUMMARY

The following table lists the columns that are newly added, modified, or dropped from the C1_FILE_REQUEST_BATCH_SUMMARY table:

Sr. No.	Column Name	Modification Type	Data Type in V4.5.0.1.3	Data Type in V25.4	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	BATCH_CD	Newly Added	-	CHAR(8)	No	-
2.	BATCH_NBR	Newly Added	-	NUMBER(22,10)	No	-
3.	BATCH_RERUN_NBR	Newly Added	-	NUMBER(22,10)	No	-

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N.20 C1_RF_BASE_TXN_DTLS

The following table lists the columns that are newly added, modified, or dropped from the C1_RF_BASE_TXN_DTLS table:

Sr. No.	Column Name	Modification Type	Data Type in V4.5.0.1.3	Data Type in V25.4	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	CURRENCY_CD	Newly Added	-	CHAR(3)	No	-
2.	END_DT	Newly Added	-	DATE(7)	No	-
3.	ILM_ARCH_SW	Newly Added	-	CHAR(1)	No	-
4.	SEQNO	Newly Added	-	NUMBER(22,5)	No	-
5.	START_DT	Newly Added	-	DATE(7)	No	-
6.	UPDATE_DTTM	Newly Added	-	DATE(7)	No	-

N.21 C1_TAD_PRED

The following table lists the columns that are newly added, modified, or dropped from the C1_TAD_PRED table:

Sr. No.	Column Name	Modification Type	Data Type in V4.5.0.1.3	Data Type in V25.4	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	CRE_DTTM	Newly Added	-	DATE(7)	No	-
2.	ILM_ARCH_SW	Newly Added	-	CHAR	No	-
3.	ILM_DT	Newly Added	-	DATE(7)	No	-
4.	USER_ID	Newly Added	-	CHAR	No	-
5.	VERSION	Newly Added	-	NUMBER	No	-

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N.22 CMC_TB_AIF_EMBEDDING_METRICS

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

Sr. No.	Column Name	Modification Type	Data Type in V4.5.0.1.3	Data Type in V25.4	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	USER_ID	Newly Added	-	VARCHAR2(1280)	No	-

N.23 CMC_TB_AIF_GENERATE_METRICS

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

Sr. No.	Column Name	Modification Type	Data Type in V4.5.0.1.3	Data Type in V25.4	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	USER_ID	Newly Added	-	VARCHAR2(1280)	No	-

N.24 PLATO_DEBUG_USERS

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

Sr. No.	Column Name	Modification Type	Data Type in V4.5.0.1.3	Data Type in V25.4	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	USER_ID	Newly Added	-	VARCHAR2(1280)	No	-

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N.25 TEMP_ACCT_MAX_EXCHRATES

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

Sr. No.	Column Name	Modification Type	Data Type in V4.5.0.1.3	Data Type in V25.4	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	START_DT	Newly Added	-	DATE(7)	No	-

N.26 TEMP_ACCT_MAX_EXCHRATES

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

Sr. No.	Column Name	Modification Type	Data Type in V4.5.0.1.3	Data Type in V25.4	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	START_DT	Newly Added	-	DATE(7)	No	-

N.27 CI_BATCH_CTRL

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

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

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N.28 CI_TXN_DISAGG_REQ

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

Sr. No.	Column Name	Modification Type	Data Type in V4.5.0.1.3	Data Type in V25.4	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	MESSAGE_PARM3	Newly Added	-	VARCHAR2(2000)	No	-
2.	MESSAGE_PARM4	Newly Added	-	VARCHAR2(2000)	No	-
3.	MESSAGE_PARM5	Newly Added	-	VARCHAR2(2000)	No	-

N.29 CI_PORTAL

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

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

N.30 CI_ZONE

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

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

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N.31 F1_ATTACHMENT

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

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

N.32 F1_REQ_TYPE

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

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

N.33 F1_REQ_TYPE_L

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

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

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N.34 F1_SIBSCH_TBLS_VW

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

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

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

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

O.1 Algorithm Types

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

O.2 Algorithms

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

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

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

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

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

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

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

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Batch Control	Parameters (Removed from 25.4)		Parameters (Added in 25.4)	
	Sequence Number	Parameter	Sequence Number	Parameter
F1MKT01K	-	-	900	Email Mode
F1MKT02I	-	-	900	Email Mode
F1MKT03I	-	-	900	Email Mode
F1MKT04I	-	-	900	Email Mode
F1MKT05I	-	-	900	Email Mode
F1MKT08I	-	-	900	Email Mode
F1MKTCGX	-	-	901	Email Mode
F1MKTMNR	-	-	900	Email Mode
F1MKTMNV	-	-	900	Email Mode
F1MKTMNX	-	-	901	Email Mode
F1MKTMPX	-	-	901	Email Mode
F1MKTMTR	-	-	900	Email Mode
F1MKTMTV	-	-	900	Email Mode
F1MKTMTX	-	-	901	Email Mode
F1MKTPCR	-	-	900	Email Mode
F1MKTPCV	-	-	900	Email Mode
F1MKTPCX	-	-	901	Email Mode
F1MKTPPX	-	-	901	Email Mode
F1MKTPTR	-	-	900	Email Mode
F1MKTPTV	-	-	900	Email Mode
F1MKTPTX	-	-	901	Email Mode
F1-MNTPL	-	-	900	Email Mode
F1-MPECL	-	-	900	Email Mode
F1-MPEVR	-	-	900	Email Mode
F1MSTCGX	-	-	901	Email Mode
F1NAVKYX	-	-	901	Email Mode
F1NAVOTX	-	-	901	Email Mode
F1-NDPUR	-	-	900	Email Mode
F1NTDWEX	-	-	901	Email Mode

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Batch Control	Parameters (Removed from 25.4)		Parameters (Added in 25.4)	
	Sequence Number	Parameter	Sequence Number	Parameter
F1NTDWFX	-	-	901	Email Mode
F1NTUPEX	-	-	901	Email Mode
F1NTXIDX	-	-	901	Email Mode
F1-OESCR	-	-	900	Email Mode
F1-OESMN	-	-	900	Email Mode
F1-OMCRL	-	-	900	Email Mode
F1-ORCRL	-	-	900	Email Mode
F1-OUCRL	-	-	900	Email Mode
F1OUTMPX	-	-	901	Email Mode
F1-PDBEX	-	-	960	Email Mode
F1-PDBG	-	-	900	Email Mode
F1-PDUPL	-	-	900	Email Mode
F1PERFTX	-	-	901	Email Mode
F1PERFYX	-	-	901	Email Mode
F1-PFCRL	-	-	900	Email Mode
F1PHONEX	-	-	901	Email Mode
F1PORTLX	-	-	901	Email Mode
F1PROCNX	-	-	901	Email Mode
F1RDCTEX	-	-	901	Email Mode
F1REPOTX	-	-	901	Email Mode
F1REQTEX	-	-	901	Email Mode
F1-REQTY	-	-	900	Email Mode
F1REREQX	-	-	901	Email Mode
F1-REVPR	-	-	900	Email Mode
F1RPTONX	-	-	901	Email Mode
F1-SAKRQ	-	-	900	Email Mode
F1SCHEAX	-	-	901	Email Mode
F1-SCMUP	-	-	900	Email Mode
F1-SCMUP	-	-	910	Email Mode

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

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

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