Oracle[®] Revenue Management and Billing

Version 5.1.0.0.0

Upgrade Guide

Revision 24.6

F75927-01 March 2023



Oracle Revenue Management and Billing Upgrade Guide

F75927-01

Copyright Notice

Copyright © 2009, 2024 Oracle and/or its affiliates. All rights reserved.

Trademark Notice

Oracle and Java are registered trademarks of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Xeon are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Opteron, the AMD logo, and the AMD Opteron logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group.

License Restrictions Warranty/Consequential Damages Disclaimer

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or de-compilation of this software, unless required by law for interoperability, is prohibited.

Warranty Disclaimer

The information contained herein is subject to change without notice and is not warranted to be errorfree. If you find any errors, please report them to us in writing.

Restricted Rights Notice

If this software or related documentation is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, the following notice is applicable:

U.S. GOVERNMENT RIGHTS

Oracle programs, including any operating system, integrated software, any programs installed on the hardware and/or documentation delivered to U.S. Government end users are "commercial computer software" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the programs, including any operating system, integrated software, any programs installed on the hardware and/or documentation shall be subject to license terms and restrictions applicable to the programs. No other rights are granted to the U.S. Government.

Hazardous Applications Notice

This software is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy, and other measures to ensure the safe use of this software. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software in dangerous applications.

Third-Party Content, Products, and Services Disclaimer

This software and documentation may provide access to or information on content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services.

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 5.0.0.0.0 to 5.1.0.0.0	Explains how to upgrade from Oracle Revenue Management and Billing Version 5.0.0.0 to 5.1.0.0.0.
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 5.1.0.0.0.
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 5.1.0.0.0	Lists and describes the tables that are newly added in Oracle Revenue Management and Billing Version 5.1.0.0.0.
Appendix D	Existing Tables Modified in ORMB Version 5.1.0.0.0	Lists the existing tables and their columns that are modified in Oracle Revenue Management and Billing Version 5.1.0.0.0.

Section No.	Section Name	Description
Appendix E	Algorithms and Algorithm Types Dropped in ORMB Version 5.1.0.0.0	Lists the algorithms and algorithm types which are dropped in Oracle Revenue Management and Billing Version 5.1.0.0.0.
Appendix F Parameters Added or Removed from Batch Controls in ORMB Version 5.1.0.0.0		Lists the parameters which are added or removed from the batch controls in Oracle Revenue Management and Billing Version 5.1.0.0.0.
Appendix G Parameters Added or Removed from Algorithm Types in ORMB Version 5.1.0.0.0		Lists the parameters which are added or removed from the algorithm types in Oracle Revenue Management and Billing Version 5.1.0.0.0.
Appendix HOption Types Added or Removed from Feature Configurations in ORMB Version 5.1.0.0.0Lists the option removed from Oracle Reven Version 5.1.0.1		Lists the option types which are added or removed from the feature configurations in Oracle Revenue Management and Billing Version 5.1.0.0.0.
Appendix ICharacteristic Types Dropped in ORMB Version 5.1.0.0.0Lists the characteristic type dropped in Oracle Revenue and Billing Version 5.1.0.0.0.		Lists the characteristic types which are dropped in Oracle Revenue Management and Billing Version 5.1.0.0.0.
Appendix JBatch Controls Dropped in ORMBLists the batch controls which a Oracle Revenue Managemen Version 5.1.0.0.0Version 5.1.0.0.0Version 5.1.0.0.0.		Lists the batch controls which are dropped in Oracle Revenue Management and Billing Version 5.1.0.0.0.
Appendix K Changing the DB User Password		Explains how to change the database user password.
Appendix L	ORMB V5.1.0.0.0 Rollup Packs	Lists the rollup packs available for Oracle Revenue Management and Billing Version 5.1.0.0.0. It also explains how to apply a rollup pack on the application environment and database.
Appendix M	New Tables Added in OUAF Version 4.5.0.0.0	Lists and describes the tables that are newly added in Oracle Utilities Application Framework Version 4.5.0.0.0.
Appendix N	Existing Tables Modified in OUAF Version 4.5.0.0.0	Lists the existing tables and their columns that are modified in Oracle Utilities Application Framework Version 4.5.0.0.0.
Appendix O	SQL Statements for 5.0.0.0.0 to 5.1.0.0.0 Data Migration	Lists and describes the query which is used for migrating data from Oracle Revenue Management and Billing Version 5.0.0.0.0 to 5.1.0.0.0.

Conventions

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.	

The following conventions are used across the document:

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
СОМР	Completed
CNCL	Cancelled
FTP	File Transfer Protocol

Related Documents

You can refer to the following documents for more information:

Document Name	Description
Oracle Revenue Management and Billing Version 5.1.0.0.0 Release Notes	Provides a brief description about the new features, enhancements, and UI level changes introduced in the current release. The new features and enhancements are classified under three distinct heads – Generic (which is intended for both domains), Financial Services, and Health Insurance. It also contains high- level information about the supported platforms, framework upgrade, supported upgrades, and documentation updates. In addition, it contains a list of discontinued features, planned deprecation notices, customer bugs fixed or forward ported and known issues in the current release.
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.

Change Log

Revision	Last Update	Updated Section	Comments		
24.1	24-Apr-2023	Section 2.5.2: Applying the Release-Specific Patches	Updated Information		
		Section 2.6: Upgrading the ORMB Database	Updated Information		
		Section 2.6.2: Applying the Release-Specific Patches	Updated Information		
		Appendix L: ORMB V5.1.0.0.0 Rollup Packs Updated Information			
		Appendix L.1: Applying a Rollup Pack on the Updated Information Application Environment			
		Appendix L.2: Applying a Rollup Pack on the Database	Updated Information		
24.2	28-Apr-2023	Section 2.5: Installing the ORMB Application	Added Information		
		Section 2.5.4: Setting the C1-CFS Feature Configuration	Added Section		

Revision	Last Update	Updated Section Comments	
		Section 2.5.5: Setting the C1-REPORTVW Feature Configuration	Added Section
		Section 2.5.6: Setting the C1-FLUPLD Feature Configuration	Added Section
24.3	8-May-2023	Section 2.5.4: Setting the C1-CFS Feature Configuration	Updated Information
		Section 2.5.5: Setting the C1-REPORTVW Feature Configuration	Updated Information
		Section 2.5.6: Setting the C1-FLUPLD Feature Configuration	Updated Information
24.4	18-Sep-2023	Section 2.2: Downloading the OUAF and ORMB Packages	Updated Information
		Section 2.2.1: Downloading the OUAF Packages	Updated Information
		Section 2.2.2: Downloading the ORMB Packages	Updated Information
		Section 2.3.1: Pre-requisites	Added Section
		Section 2.3.2: Installing Rollup Pack for OUAF Version 4.5.0.0.0	Updated Information
		Section 2.4.2: Installing Rollup Pack for OUAF Version 4.5.0.0.0	Updated Information
		Section 2.5: Installing the ORMB Application	Updated Information
		Section 2.5.1: Installing ORMB Version 5.1.0.0.0	Updated Information
		Section 2.5.2: Applying the Release-Specific Patches	Updated Information
		Section 2.6.1: Installing ORMB Version 5.1.0.0.0	Updated Information
24.5	05-Jan-2024	Section 2.5.4: Setting the C1-CFS Feature Configuration	Updated Information
		Section 2.5.5: Setting the C1-REPORTVW Feature Configuration	Updated Information
		Section 2.5.6: Setting the C1-FLUPLD Feature Configuration	Updated Information
24.6	07-Oct-2024	Section 2.2: Downloading the OUAF and ORMB Packages	Added Information
		Section 2.7: Migrating Data Added Information	
		Appendix O: SQL Statements for 5.0.0.0.0 to 5.1.0.0.0 Data Migration	Added Information

Contents

1.	Prep	aring fo	r Upgrade	1
	1.1	Upgra	de Overview	1
	1.2	Upgra	de Pre-requisites	
	1.3	Suppo	rted Upgrades	
2.	Upgr	ading f	rom ORMB Version 5.0.0.0.0 to 5.1.0.0.0	4
	2.1	Prerec	juisites	4
	2.2	Downl	oading the OUAF and ORMB Packages	4
		2.2.1	Downloading the OUAF Packages	5
		2.2.2	Downloading the ORMB Packages	6
	2.3	Upgra	ding Framework on the Database	7
		2.3.1	Pre-requisites	7
		2.3.2	Installing Rollup Pack for OUAF Version 4.5.0.0.0	7
	2.4	Installi	ing Framework on the Application Environment	
		2.4.1	Installing OUAF Version 4.5.0.0.0	
		2.4.2	Installing Rollup Pack for OUAF Version 4.5.0.0.0	15
	2.5	Installi	ing the ORMB Application	16
		2.5.1	Installing ORMB Version 5.1.0.0.0	17
		2.5.2	Applying the Release-Specific Patches	
		2.5.3	Accessing the ORMB Application	
		2.5.4	Setting the C1-CFS Feature Configuration	
		2.5.5	Setting the C1-REPORTVW Feature Configuration	
		2.5.6	Setting the C1-FLUPLD Feature Configuration	
	2.6	Upgra	ding the ORMB Database	
		2.6.1	Installing ORMB Version 5.1.0.0.0	
		2.6.2	Applying the Release-Specific Patches	
	2.7	Migrat	ing Data	
		2.7.1	Applying the UPGRADE FROM 5.0.0.0 TO 5.1.0.0.0 Patch	
		2.7.2	Applying the Migration Script for RESEED_SW and ACCT_ID Column for ASO	
		Functi	onality Patch	
3.	Addi	tional T	asks	
	3.1	Gener	ating the Application Viewer	
	3.2	Startir	g the Thread Pool Worker	
	3.3	Buildir	ng Javadoc Index	
Арр	pendix	:A: K	nown Issues	
Арр	pendix	кВ: Т	hird-Party Software Upgrade	40
Арр	pendix	C: N	New Tables Added in ORMB Version 5.1.0.0.0	
	C.1	C1_DE	AL_APROF_CRT_HCY	

C.2	C1_[DEAL_TYPE_PC_COLMN_CONFIG	42
C.3	C1_N	MODEL_ADHOC_PRICEITEM	43
C.4	C1_N	MODEL_STND_PRICEASGN	44
C.5	C1_N	MODEL_STND_PRICELIST	45
C.6	C1_F	PRC_RULE_MEMB	46
C.7	C1_F	PRICEITEM_REL_DIV	47
Appendix	(D:	Existing Tables Modified in ORMB Version 5.1.0.0.0	49
D.1	C1_4	ACCUM_MIN_PREM_AMT	49
D.2	C1_[DEAL_APROF_HCY	49
D.3	C1_[DEAL_COMMENTS	50
D.4	C1_[DEAL_SIMULATION_DTL	50
D.5	C1_[DEAL_SIMULATION_SMRY	50
D.6	C1_[DEAL_TYPE	51
D.7	C1_N	MODEL_FIN_SUMMARY	51
D.8	C1_N	MODEL_RECM_PRICEASGN	52
D.9	CI_A	ССТ	52
Appendix	κΕ:	Algorithms and Algorithm Types Dropped in ORMB Version 5.1.0.0.0	53
E.1	Algo	rithm Types	53
E.2	Algo	rithms	53
Appendix	(F:	Parameters Added or Removed from Batch Controls in ORMB Version 5.1.0.0.0	54
Appendix	G :	Parameters Added or Removed from Algorithm Types in ORMB Version 5.1.0.0.0	55
Appendix 56	(H:	Option Types Added or Removed from Feature Configurations in ORMB Version 5.1.0.0).0
Appendix	(]:	Characteristic Types Dropped in ORMB Version 5.1.0.0.0	57
Appendix	(J:	Batch Controls Dropped in ORMB Version 5.1.0.0.0.	58
Appendix	(К:	Changing the DB User Password	59
Appendix	(L:	ORMB V5.1.0.0.0 Rollup Packs	60
L.1	Appl	ying a Rollup Pack on the Application Environment	60
L.2	Appl	ying a Rollup Pack on the Database	61
Appendix	M :	New Tables Added in OUAF Version 4.5.0.0.0	62
M.1	CI_N	1D_IDX	62
M.2	CI_N	1D_IDX_FLD	62
M.3	CI_N	1D_TBL_ADDTL	63
M.4	F1_I	WS_SVC_FLDTEXT	64
M.5	F1_I	WS_SVC_OPER_L	65
M.6	F1_I	WS_SVC_OPER_OPT	66
M.7	F1_I	WS_SVC_SCHEMA	67
M.8	F1_N	/IO_UPD_BACKLOG	68
M.9	F1_T	AG	68

M.10 F1_TAG_CHAR	59
M.11 F1_TAG_L	70
M.12 F1_TAGGED_ENTITY	71
Appendix N : Existing Tables Modified in OUAF Version 4.5.0.0.0	73
N.1 CI_NT_XID	73
N.2 CI_NT_XID_L	73
N.3 CI_PORTAL_ZONE	74
N.4 CI_XAI_SENDER	74
N.5 CI_XAI_SENDER_L	75
N.6 CI_XAI_SNDR_CTX	75
N.7 F1_BATCH_CONF_VW	75
N.8 F1_BATCH_RUN_HIST_VW	76
N.9 F1_BATCH_THD_CAP_VW	77
N.10 F1_BATCH_THD_HIST_VW	78
N.11 F1_BATCH_VOL_VW	30
N.12 F1_EXTSYS_OUTMSG_PROF	30
N.13 F1_IWS_SVC	31
N.14 F1_IWS_SVC_OPER	31
N.15 CI_CNV_DUP_KEY	31
N.16 CI_CNV_KEY_TMP	32
N.17 F1_MD_BI_TBL	32
Appendix O: SQL Statements for 5.0.0.0.0 to 5.1.0.0.0 Data Migration	33
O.1 PostProcessingScript.sql	33
O.2 ASOPERFMigrationScript.sql	35

1. Preparing for Upgrade

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

1.1 Upgrade Overview

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



Figure 1: Upgrade Process

1.2 Upgrade Pre-requisites

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

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

1.3 Supported Upgrades

In this release, we support the following upgrades:

• Upgrade from Oracle Revenue Management and Billing Version 5.0.0.0.0 to 5.1.0.0.0

Upgrade Guide

2. Upgrading from ORMB Version 5.0.0.0.0 to 5.1.0.0.0

This section explains how to upgrade from Oracle Revenue Management and Billing Version 5.0.0.0.0 to 5.1.0.0.0. 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 5.1.0.0.0, 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 5.0.0.0.0 will not happen successfully.
- Transactions which are uploaded using 5.0.0.0.0 must not be in the Initial Product Determined (INPD) status. They can be in the Uploaded (UPLD), Invalid (INVL), Error (EROR), Completed (COMP), or Cancelled (CNCL) status.
- Equal to (=) or tilde (~) symbol is not used in any existing price item parameter code or value. Otherwise, erroneous results might occur.

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

2.2 Downloading the OUAF and ORMB Packages

For upgrading from Oracle Revenue Management and Billing Version 5.0.0.0 to 5.1.0.0.0, you must download the following packages from the **Oracle Financial Services Revenue Management and Billing 5.1.0.0.0** or **Oracle Insurance Revenue Management and Billing 5.1.0.0.0** media pack which is available on <u>Oracle Software Delivery Cloud</u>:

- Oracle Financial Services Revenue Management and Billing 5.1.0.0.0 Oracle Utilities Application Framework (4.5.0.0.0) Single Fix Prerequisite Rollup
- Oracle Financial Services Revenue Management and Billing 5.1.0.0.0 Multiplatform

• Oracle Financial Services Revenue Management and Billing 5.1.0.0.0 - Oracle Database

You must also download the following package from the **Oracle Utilities Application Framework 4.5.0.0.0** media pack which is available on <u>Oracle Software Delivery Cloud</u>:

• Oracle Utilities Application Framework 4.5.0.0.0 - Application Installation Media

In addition, you must download the following patch from <u>My Oracle Support</u>:

- UPGRADE FROM 5.0.0.0 TO 5.1.0.0.0 (Patch Number: 35168757)
- MIGRATION SCRIPT FOR RESEED_SW AND ACCT_ID COLUMN FOR ASO FUNCTIONALITY (Patch Number: 36453289)

The downloaded files will be in the ZIP format.

2.2.1 Downloading the OUAF Packages

Oracle Utilities Application Framework 4.5.0.0.0 media pack can be installed on the following supported platforms:

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

The media pack includes the following packages - Oracle Utilities Application Framework 4.5.0.0.0 - Database Installation Media and Oracle Utilities Application Framework 4.5.0.0.0 - Application Installation Media.

To download the OUAF packages:

- 1. Login to <u>Oracle Software Delivery Cloud</u>.
- 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 4.5.0.0.0** 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 **Oracle Utilities Application Framework 4.5.0.0.0 Application Installation Media** package from the media pack and then click **Download**. An executable file is downloaded on your local machine.
- 13. Run the executable file. The Oracle Download Manager window appears.
- 14. Browse to the location where you want to download the package and then click **Next**. The package is downloaded on your local machine.

2.2.2 Downloading the ORMB Packages

Oracle Financial Services Revenue Management and Billing 5.1.0.0.0 and Oracle Insurance Revenue Management and Billing 5.1.0.0.0 media packs can be installed on the following supported platforms:

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

The media pack includes multiple packages. For more information, refer to the **Media Pack Contents** section in the *Oracle Revenue Management and Billing Version 5.1.0.0.0 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 (^(C)) icon corresponding to the Oracle Financial Services Revenue Management and Billing 5.1.0.0.0 or Oracle Insurance Revenue Management and Billing 5.1.0.0.0 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 5.1.0.0.0 Oracle Utilities Application Framework (4.5.0.0.0) Single Fix Prerequisite Rollup
 - Oracle Financial Services Revenue Management and Billing 5.1.0.0.0 Multiplatform
 - Oracle Financial Services Revenue Management and Billing 5.1.0.0.0 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 5.0.0.0.0 to 5.1.0.0.0, you need to install the following on the database:

1. Rollup Pack for Oracle Utilities Application Framework (OUAF) Version 4.5.0.0.0

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 4.5.0.0.0, you need to do the following:

- Set the MAX_STRING_SIZE parameter to EXTENDED For more information, refer to the Setting the MAX_STRING_SIZE Parameter to EXTENDED topic of the Initial Install or Installing Version 5.1.0.0.0 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, refer to the Enabling the DBMS_CRYPTO Package topic of the Initial Install or Installing Version 5.1.0.0.0 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, refer to 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 4.5.0.0.0

You can install the rollup pack for Oracle Utilities Application Framework Version 4.5.0.0.0 from a Windows machine or UNIX Standalone server. To install the rollup pack for Oracle Utilities Application Framework (OUAF) Version 4.5.0.0.0 on the database:

- 1. Login to the database server using the administrator's credentials.
- 2. Copy the Oracle Financial Services Revenue Management and Billing 5.1.0.0.0 Oracle Utilities Application Framework (4.5.0.0.0) Single Fix Prerequisite Rollup package to the TEMPDIR folder using the following command:

AIX, Linux:

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

Windows:

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

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

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

AIX, Linux:

cd <PATH>/TEMPDIR

Windows:

cd <PATH>\TEMPDIR

4. Unzip the Oracle Financial Services Revenue Management and Billing 5.1.0.0.0 - Oracle Utilities Application Framework (4.5.0.0.0) Single Fix Prerequisite Rollup package using the following command:

AIX, Linux:

```
unzip <filename>.zip -d <PATH>/<DESTINATION FOLDER 1>
```

Windows:

unzip <filename>.zip -d <PATH>\<DESTINATION FOLDER 1>

The contents of the zip file are extracted in the <DESTINATION_FOLDER_1> folder. The contents include the ORMB-V51000-FW-PREREQ-MultiPlatform.jar file.

5. Change to the <DESTINATION FOLDER 1> folder using the following command:

AIX, Linux:

```
cd <PATH>/<DESTINATION FOLDER 1>
```

Windows:

cd <PATH>\<DESTINATION FOLDER 1>

6. Decompress the JAR file using the following command:

```
jar -xvf ORMB-V51000-FW-PREREQ-MultiPlatform.jar
```

A sub-folder named FW-V4.5.0.0.0-Rollup is extracted. It contains the following two sub-folders:

- Application
- Database
- 7. Change to the **TEMPDIR** folder using the following command:

AIX, Linux:

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

Windows:

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

8. Create a folder named dbpatch tools using the following command:

mkdir dbpatch_tools

- 9. Create the db_patch_standalone.jar file on the application server. For more information, refer to 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 folder to the dbpatch_tools folder.

11. Change to the dbpatch tools folder using the following command:

AIX, 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:

AIX, Linux:

export TOOLSBIN=/TEMPDIR/dbpatch_tools/bin

Windows:

SET TOOLSBIN=TEMPDIR\dbpatch_tools\bin

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

AIX, Linux:

cd <DESTINATION FOLDER 1>/FW-V4.5.0.0.0-Rollup/Database

Windows:

cd <DESTINATION_FOLDER_1>\FW-V4.5.0.0.0-Rollup\Database

Note: The <DESTINATION_FOLDER_1> folder is the location where you have extracted the contents of the ORMB-V51000-FW-PREREQ-MultiPlatform.jar file.

15. Execute the ouafDatabasePatch utility using the following command:

<u>AIX, Linux:</u>

ouafDatabasePatch.sh

Windows:

ouafDatabasePatch.cmd

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

Parameter	Value
Enter the target database type	 (if you have Oracle database)
(O/M/D) [O]	OR
	M (if you have MySQL database)
Enter the username that owns	<db_user></db_user>
the schema	Example: CISADM
Enter the password for the	<db_user_password></db_user_password>
<db_user> user</db_user>	
Enter the name of the Oracle	<db_server:db_port:db_sid></db_server:db_port:db_sid>
Database Connection String	OR
	<db_server:db_port db_name=""></db_server:db_port>

Note: If you have changed the database user password, you will not be able to install the rollup pack for Oracle Utilities Application Framework Version 4.5.0.0.0. You will have to first change the database user password. For more information on how to change the database user password, refer to <u>Appendix K:</u> Changing the DB User Password.

16. Enter the required parameter values. 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 4.5.0.0.0
- 2. Rollup Pack for Oracle Utilities Application Framework (OUAF) Version 4.5.0.0.0

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

2.4.1 Installing OUAF Version 4.5.0.0.0

To install Oracle Utilities Application Framework (OUAF) Version 4.5.0.0.0 on the application environment:

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

```
mkdir TEMPDIR
```

3. Copy the **Oracle Utilities Application Framework 4.5.0.0.0 - Application Installation Media** package to the **TEMPDIR** folder using the following command:

AIX, Linux:

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

Windows:

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

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

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

AIX, Linux:

cd <PATH>/TEMPDIR

Windows:

cd <PATH>\TEMPDIR

5. Unzip the **Oracle Utilities Application Framework 4.5.0.0.0 - Application Installation Media** package using the following command:

AIX, Linux:

unzip <filename>.zip -d <PATH>/<DESTINATION FOLDER 1>

Windows:

unzip <filename>.zip -d <PATH>\<DESTINATION FOLDER 1>

The contents of the zip file are extracted in the $<DESTINATION_FOLDER_1>$ folder. The contents include a directory named FW-V4.5.0.0.0.

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, refer to 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 1.8.

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

8. Change to the FW-V4.5.0.0 folder using the following command:

AIX, Linux:

cd <DESTINATION FOLDER 1>/FW-V4.5.0.0.0

Windows:

```
cd <DESTINATION FOLDER 1>\FW-V4.5.0.0.0
```

Note: The <DESTINATION_FOLDER_1> folder is the location where you have extracted the contents of the **Oracle Utilities Application Framework 4.5.0.0.0 - Application Installation Media** package.

9. Execute the install utility using the following command:

<u>AIX, Linux:</u>

ksh ./install.sh

Windows:

install.cmd

The following message appears in the command line:

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

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

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

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

Points to Note:

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

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

For more details about these menu options, refer to 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, refer to 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, refer to 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, refer to the **Web Application Server Configuration** section in the *Oracle Revenue Management and Billing Installation Guide*.

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

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

Note: For more details about these menu options, refer to 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, refer to 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, refer to 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 4.5.0.0.0 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 <code>\$SPLEBASE/bin</code> folder. And, on the Windows machine, this utility is available in the <code>%SPLEBASE%/bin</code> folder. The following are some of the key environment variables that are set using the <code>splenviron</code> utility:

- → \$PATH
- → \$SPLEBASE (%SPLEBASE%) Indicates the <SPLDIR>/<SPLENVIRON> folder
- → \$SPLOUTPUT (%SPLOUTPUT%) Indicates the <SPLDIROUT>/<SPLENVIRON> folder
- → \$SPLENVIRON (%SPLENVIRON%) Indicates the environment name

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

AIX, Linux:

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

Windows:

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

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

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

2.4.2 Installing Rollup Pack for OUAF Version 4.5.0.0.0

To install the rollup pack for Oracle Utilities Application Framework Version 4.5.0.0.0 on the application environment:

1. Copy the Oracle Financial Services Revenue Management and Billing 5.1.0.0.0 - Oracle Utilities Application Framework (4.5.0.0.0) Single Fix Prerequisite Rollup package to the TEMPDIR folder using the following command:

<u>AIX, Linux:</u>

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

Windows:

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

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

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

AIX, Linux:

cd <PATH>/TEMPDIR

Windows:

cd <PATH>\TEMPDIR

 Unzip the Oracle Financial Services Revenue Management and Billing 5.1.0.0.0 - Oracle Utilities Application Framework (4.5.0.0.0) Single Fix Prerequisite Rollup package using the following command:

AIX, Linux:

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

Windows:

unzip <filename>.zip -d <PATH>\<DESTINATION FOLDER 2>

The contents of the zip file are extracted in the <DESTINATION_FOLDER_2> folder. The contents include the ORMB-V51000-FW-PREREQ-MultiPlatform.jar file.

4. Decompress the JAR file using the following command:

```
jar -xvf ORMB-V51000-FW-PREREQ-MultiPlatform.jar
```

A sub-folder named FW-V4.5.0.0.0-Rollup is extracted. It contains the following two sub-folders:

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

AIX, Linux:

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

Windows:

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

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

AIX, Linux:

```
cd <DESTINATION FOLDER 2>/FW-V4.5.0.0.0-Rollup/Application
```

Windows:

cd <DESTINATION FOLDER 2>\FW-V4.5.0.0.0-Rollup\Application

Note: The <DESTINATION_FOLDER_2> folder is the location where you have extracted the contents of the ORMB-V51000-FW-PREREQ-MultiPlatform.jar file.

7. Execute the installSFgroup utility using the following command:

<u>AIX, Linux:</u>

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

Windows:

installSFgroup.cmd

The following message appears in the command line:

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

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

2.5 Installing the ORMB Application

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

- 1. Oracle Revenue Management and Billing (ORMB) Version 5.1.0.0.0
- 2. Oracle Revenue Management and Billing (ORMB) Version 5.1.0.0.0 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, refer to the <u>Accessing the ORMB Application</u> section.

After accessing the application, you need to set the following feature configurations:

- <u>C1-CFS</u>
- <u>C1-REPORTVW</u>
- <u>C1-FLUPLD</u>

2.5.1 Installing ORMB Version 5.1.0.0.0

To install Oracle Revenue Management and Billing (ORMB) Version 5.1.0.0.0 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 5.1.0.0.0 Multiplatform** package to the TEMPDIR folder using the following command:

<u>AIX, Linux:</u>

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

Windows:

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

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

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

AIX, Linux:

cd <PATH>/TEMPDIR

Windows:

cd <PATH>\TEMPDIR

4. Unzip the Oracle Financial Services Revenue Management and Billing 5.1.0.0.0 - Multiplatform package using the following command:

AIX, Linux:

unzip <filename>.zip -d <PATH>/<DESTINATION FOLDER 3>

Windows:

unzip <filename>.zip -d <PATH>\<DESTINATION FOLDER 3>

The contents of the zip file are extracted in the <DESTINATION_FOLDER_3> folder. The contents include ORMB.V5.1.0.0.0 folder.

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

AIX, 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.V5.1.0.0.0 folder using the following command:

AIX, Linux:

```
cd <DESTINATION FOLDER 3>/ORMB.V5.1.0.0.0
```

Windows:

```
cd <DESTINATION FOLDER 3>\ORMB.V5.1.0.0.0
```

8. Execute the install utility using the following command:

AIX, Linux:

./install.sh

Windows:

install.cmd

The following message appears in the command line:

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

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

Points to Note:

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

AIX, Linux:

\$SPLEBASE/bin/configureEnv.sh -a

Windows:

%SPLEBASE%\bin\configureEnv.cmd -a

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

2.5.2 Applying the Release-Specific Patches

Once you install Oracle Revenue Management and Billing (ORMB) Version 5.1.0.0.0, 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, refer to the <u>ORMB V5.1.0.0.0 Patch Guide</u> (Document ID: 2941754.1) on <u>My Oracle Support</u>.

Alternatively, instead of individually applying the patches, you can download and install the rollup packs, if available, to apply a set of patches at once. For more information about the rollup packs, refer to <u>Appendix L: ORMB V5.1.0.0.0 Rollup Packs</u>.

To apply a patch:

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

AIX, Linux:

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

Windows:

unzip <filename>.zip -d <PATH>\<DESTINATION FOLDER 4>

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

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

AIX, Linux:

```
unzip <DESTINATION_FOLDER_4>/MultiPlatform.zip -d
<PATH>/<DESTINATION FOLDER 5>
```

Windows:

```
unzip <DESTINATION_FOLDER_4>\MultiPlatform.zip -d
<PATH>\<DESTINATION FOLDER 5>
```

The contents of the zip file are extracted in the <DESTINATION_FOLDER_5> folder. The contents include the V5.1.0.0.0-<PATCH NUMBER> MultiPlatform folder.

4. Change to the V5.1.0.0.0-<PATCH_NUMBER>_MultiPlatform folder using the following command:

AIX, Linux:

```
cd <DESTINATION FOLDER 5>/V5.1.0.0.0-<PATCH NUMBER> MultiPlatform
```

Windows:

```
cd <DESTINATION FOLDER 5>\V5.1.0.0.0-<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.V5.1.0.0.0-<PATCH_NUMBER>.jar and a directory named database.

5. Decompress the CCB.V5.1.0.0.0-<PATCH_NUMBER>.jar file using the following command:

jar -xvf CCB.V5.1.0.0.0-<PATCH NUMBER>.jar

The contents include two sub-folders - META-INF and CCB.V5.1.0.0.0-<PATCH_NUMBER>.

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

AIX, Linux:

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

Windows:

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

Where,

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

7. Change to the CCB.V5.1.0.0.0-<PATCH NUMBER> folder using the following command:

AIX, Linux:

```
cd <DESTINATION_FOLDER_5>/V5.1.0.0.0-
<PATCH_NUMBER>_MultiPlatform/CCB.V5.1.0.0.0-<PATCH_NUMBER>
```

Windows:

```
cd <DESTINATION_FOLDER_5>\V5.1.0.0.0-
<PATCH NUMBER> MultiPlatform\CCB.V5.1.0.0.0-<PATCH NUMBER>
```

8. Install the patch using the following command:

AIX, Linux:

./installSF.sh

Windows:

installSF.cmd

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

2.5.3 Accessing the ORMB Application

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

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

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. (**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, refer to the **Oracle Utilities Application Framework Administrative Processes** \rightarrow **Configuration Tools** \rightarrow **Miscellaneous Topics** \rightarrow **Referencing URIs** \rightarrow **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 5.1.0.0.0.
- 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	Yes
	Points to Note:	
	By default, the value is set to N .	
	You must ensure that the value of this option type is set to N in the On Premise and Cloud Service environments.	
	If the value of this option type is set to Y , you need to accordingly specify the directory paths while executing the DWLDBILC , C1-PUPSG , C1-APACK , and C1-RECUP batches. For more information, refer to the Oracle Revenue Management and Billing Batch Guide.	
ODB Extendable Lookup and Bucket	Used to specify the following information in the <file extendable="" lookup<br="" storage="">Value>/<object bucket="" storage=""> 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.</object></file>	Yes (Conditional)

Option Type	Description	Mandatory (Yes or No)
	• The bucket or container from where you want to upload the file using the On Demand Billing feature.	
	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 extendable="" lookup="" storage="" value="">/<object bucket="" storage=""> format:</object></file> 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.

2.5.5 Setting the C1-REPORTVW Feature Configuration

You need to set the **C1-REPORTVW** feature configuration only when you are using the Apache FOP Reporting framework in ORMB. It enables you to define the following properties which were earlier derived from the spl.properties file:

- ouaf.runtime.billView.directoryPath
- ouaf.runtime.reportView.directoryPath
- ouaf.application.reportingDir

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

- 1. Login to Oracle Revenue Management and Billing Version 5.1.0.0.0.
- 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-REPORTVW 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)
Report Download HTTP URL	Used to specify the HTTP servlet using which you want to download and view the FOP reports that are generated in the online mode. You must specify the URL in the following format: <u>https://ipaddress:port/ouaf/reportView</u> Note: You must override the default value as per the requirement.	Yes
Report Generation (FOP) File Path	Used to specify the directory or bucket where you want to store the FOP reports which are generated either from the user interface or through a batch process.	Yes
	If the application environment is an On Premise or Cloud Service environment, you can specify the directory name along with the following relative path:	
	 @SHARED_DIR – Used when you want to store the FOP reports in the shared directory on the server. 	
	For example, you can set the value to @SHARED_DIR/output.	
	However, if the application environment is a Cloud Service Premium Edition environment, you must specify the following information in the file-storage:// <file extendable<br="" storage="">Lookup Value>/<object bucket="" storage=""> format:</object></file>	
	 The file storage extendable lookup value from where the cloud storage compartment and connection details are retrieved while storing the FOP reports on OCI 	
	 The bucket or container where you want the system to store the FOP reports which are generated in the different formats. 	

Option Type	Description	Mandatory (Yes or No)
	Points to Note:By default, the value is set to@SHARED_DIR/splapp/reporting/output.You must change the value as per therequirement.The shared directory variable (i.e.SHARED_DIR) is case-sensitive.	
Report Generation XSL Template File Path	 Used to specify the directory or bucket from where the respective XSL file should be fetched while generating the FOP report. If the application environment is an On Premise or Cloud Service environment, you can specify the directory name along with the following relative path: @SHARED_DIR – Used when you want to fetch the XSL file from the shared directory on the server. For example, you can set the value to @SHARED_DIR/xsl. However, if the application environment is a Cloud Service Premium Edition environment, you must specify the following information in the file-storage://<file extendable="" lookup="" storage="" value="">/<object bucket="" storage=""> format: The file storage extendable lookup value from where the cloud storage compartment and connection details provide formation in the file storage bucket </object></file> 	Yes
	 are retrieved while fetching the XSL file for an FOP report. The bucket or container from where you want the system to fetch the XSL file while generating the FOP report. Points to Note: By default, the value is set to @SHARED_DIR/splapp/reporting/xsl. You must change the value as per the requirement. The shared directory variable (i.e. SHARED_DIR) is case-sensitive. Before generating an FOP report, you need to ensure that the XSL files are copied from the 	
Option Type	Description	Mandatory (Yes or No)
---	---	-----------------------
	@INSTALL_DIR/splapp/reporting/xsl directory to the specified shared directory.	
Report Generation XML Data File Path	Used to specify the directory or bucket where you want to extract the data from the system in the XML format for an FOP report. If the application environment is an On Premise or Cloud Service environment, you can	Yes
	following relative path:	
	 @SHARED_DIR – Used when you want to store the XML file in the shared directory on the server. 	
	For example, you can set the value to @SHARED_DIR/extractxml.	
	However, if the application environment is a Cloud Service Premium Edition environment, you must specify the following information in the file-storage:// <file extendable<br="" storage="">Lookup Value>/<object bucket="" storage=""> format:</object></file>	
	 The file storage extendable lookup value from where the cloud storage compartment and connection details are retrieved while storing the XML file on OCI. 	
	• The bucket or container where you want the system to store the XML file for an FOP report.	
	Points to Note:	
	By default, the value is set to @SHARED_DIR/splapp/reporting/extractxml . You must change the value as per the requirement.	
	The shared directory variable (i.e. SHARED_DIR) is case-sensitive.	

- 8. Enter the values for the required option types in the **Feature Configuration** screen.
- 9. Click the **Save** button in the **Page Title** area. The changes made to the feature configuration are saved.

2.5.6 Setting the C1-FLUPLD Feature Configuration

You need to set the **C1-FLUPLD** feature configuration only when you want to decrypt the encrypted files on the SFTP server while uploading and transforming the files through the **C1-FTRAN** batch. The **C1-FRDALG** algorithm is used to decrypt the file using the keystore. Earlier, the following properties were derived from the FW_spl.properties.keystore.truststore.include file to encrypt or decrypt the files using the keystore:

- com.oracle.ouaf.system.keystore.file
- com.oracle.ouaf.system.keystore.passwordFileName
- com.oracle.ouaf.system.keystore.type
- com.oracle.ouaf.system.keystore.padding
- com.oracle.ouaf.system.keystore.mode
- com.oracle.ouaf.system.keystore.alias
- ouaf.system.fileupload.pgp.pvt.key.filepath

Now, the **C1-FLUPLD** feature configuration enables you to specify the required details to encrypt or decrypt the files using the keystore.

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

- 1. Login to Oracle Revenue Management and Billing Version 5.1.0.0.0.
- 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-FLUPLD 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 Decryption Key Alias	Used to specify the alias (i.e. key defined in the keystore) using which you want to encrypt or decrypt the files.	Yes
	Note: By default, the value is set to ouaf.system . You can change the value as per the requirement.	
Key Store File Path	Used to specify the directory or bucket from where you want to fetch the keystore file.	Yes
	If the application environment is an On Premise or Cloud Service environment, you can specify	

Option Type	Description	Mandatory (Yes or No)
	 the directory name along with the following relative path: @SHARED_DIR – Used when you want 	
	to fetch the keystore file from the shared directory on the server.	
	For example, you can set the value to @SHARED_DIR/.ouaf_keystore.	
	However, if the application environment is a Cloud Service Premium Edition environment, you must specify the following information in the file-storage:// <file extendable="" lookup<br="" storage="">Value>/<object bucket="" storage=""> format:</object></file>	
	 The file storage extendable lookup value from where the cloud storage compartment and connection details are retrieved while fetching the keystore file on OCI. 	
	• The bucket or container from where you want the system to fetch the keystore file.	
	Points to Note:	
	By default, the value is set to @SHARED_DIR/ks/.ouaf_keystore. You must change the value as per the requirement.	
	The shared directory variable (i.e. SHARED_DIR) is case-sensitive.	
Key Store Mode	Used to specify the mode using which you want to encrypt or decrypt the files.	Yes
	Note: By default, the value is set to CBC (i.e. Cipher-block Chaining).	
Key Store Padding	Used to specify the padding using which you want to encrypt or decrypt the files.	Yes
	Note: By default, the value is set to PKCS5Padding .	
Key Store Password File Path	Used to specify the directory or bucket from where you want to fetch the keystore password file.	Yes
	it the application environment is an On Premise or Cloud Service environment, you can specify	

Option Type	Description	Mandatory (Yes or No)
	the directory name along with the following relative path:	
	 @SHARED_DIR – Used when you want to fetch the keystore password file from the shared directory on the server. 	
	For example, you can set the value to @SHARED_DIR/.ouaf_storepass.	
	However, if the application environment is a Cloud Service Premium Edition environment, you must specify the following information in the file-storage:// <file extendable="" lookup<br="" storage="">Value>/<object bucket="" storage=""> format:</object></file>	
	 The file storage extendable lookup value from where the cloud storage compartment and connection details are retrieved while fetching the keystore password file on OCI. 	
	 The bucket or container from where you want the system to fetch the keystore password file. 	
	Points to Note:	
	By default, the value is set to @SHARED_DIR/ks/.ouaf_storepass. You must change the value as per the requirement.	
	The shared directory variable (i.e. SHARED_DIR) is case-sensitive.	
Key Store Type	Used to indicate the type of keystore file.	Yes
	Note: By default, the value is set to JCEKS.	
Private Key File Path	Used to specify the directory or bucket from where you want to fetch the private key file.	Yes
	If the application environment is an On Premise or Cloud Service environment, you can specify the directory name along with the following relative path:	
	 @SHARED_DIR – Used when you want to fetch the private key file from the shared directory on the server. 	
	For example, you can set the value to @SHARED_DIR/.ouaf_storepass.	

Option Type	Description	Mandatory (Yes or No)
	However, if the application environment is a Cloud Service Premium Edition environment, you must specify the following information in the file-storage:// <file extendable="" lookup<br="" storage="">Value>/<object bucket="" storage=""> format:</object></file>	
	 The file storage extendable lookup value from where the cloud storage compartment and connection details are retrieved while fetching the private key file on OCI. 	
	• The bucket or container from where you want the system to fetch the private key file.	
	Points to Note:	
	By default, the value is set to @SHARED_DIR/ks/.ouaf_storepass . You must change the value as per the requirement. The shared directory variable (i.e. SHARED_DIR) is case-sensitive.	

- 8. Enter the values for the required option types in the Feature Configuration screen.
- 9. Click the **Save** button in the **Page Title** area. The changes made to the feature configuration are saved.

2.6 Upgrading the ORMB Database

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

While upgrading from Oracle Revenue Management and Billing Version 5.0.0.0.0 to 5.1.0.0.0, you need to install the following on the database:

- 1. Oracle Revenue Management and Billing (ORMB) Version 5.1.0.0.0
- 2. Oracle Revenue Management and Billing (ORMB) Version 5.1.0.0.0 Post Requisite Patches

Points to Note:

To view the list of patches that you need to apply on the database, refer to the <u>ORMB V5.1.0.0.0 Patch</u> <u>Guide</u> (Document ID: 2941754.1) on <u>My Oracle Support</u>.

Alternatively, instead of individually applying the patches, you can download and install the rollup packs, if available, to apply a set of patches at once. For more information about the rollup packs, refer to Appendix L: ORMB V5.1.0.0.0 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 5.1.0.0.0

To install Oracle Revenue Management and Billing (ORMB) Version 5.1.0.0.0:

- 1. Login to the database server using the administrator's credentials.
- 2. Copy the **Oracle Financial Services Revenue Management and Billing 5.1.0.0.0 Oracle Database** package to the TEMPDIR folder using the following command:

AIX, Linux:

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

Windows:

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

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

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

AIX, Linux:

cd <PATH>/TEMPDIR

Windows:

cd <PATH>\TEMPDIR

4. Unzip the Oracle Financial Services Revenue Management and Billing 5.1.0.0.0 - Oracle Database package using the following command:

AIX, Linux:

unzip <filename>.zip -d <PATH>/<DESTINATION FOLDER 2>

Windows:

unzip <filename>.zip -d <PATH>\<DESTINATION FOLDER 2>

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

• RMB

Note:

```
There might be situations when you do not want to recreate one or more table indexes. You can skip the recreation process of one or more table indexes by adding the following line in the <DESTINATION_FOLDER_3>/RMB/Upgrade/Oracle/Install-Upgrade/CDXSchUpg.inp file:
-INDEX: 'INDEX1', 'INDEX2', 'INDEX3'
For example, -INDEX: 'XXT033P0', 'XXT034P0', 'XXT035P0'
```

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

AIX, Linux:

export JAVA HOME=<JAVA HOME PATH>

Windows:

SET JAVA HOME=<JAVA HOME PATH>

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

6. Set the JAR PATH environment variable using the following command:

<u>AIX, Linux:</u>

export JAR PATH=<DESTINATION FOLDER 2>/RMB/jarfiles

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

7. Set the CLASS PATH environment variable using the following command:

<u>AIX, Linux:</u>

```
export CLASS_PATH=$JAR_PATH/commons-cli-1.4-
cl2260c.jar:$JAR_PATH/commons-codec-1.15.jar:$JAR_PATH/commons-
collections-3.2.2.jar:$JAR_PATH/jackson-annotations-2.14.0-
rc2.jar:$JAR_PATH/jackson-core-2.14.0-rc2.jar:$JAR_PATH/jackson-
databind-2.14.0-rc2.jar:$JAR_PATH/log4j-api-
2.17.1.jar:$JAR_PATH/log4j-core-2.17.1.jar:$JAR_PATH/ojdbc8-
19.3.0.0.0.jar:$JAR_PATH/spl-oradbi-4.5.0.0.1.jar:$JAR_PATH/spl-
shared-4.5.0.0.0.jar
```

Windows:

SET CLASS PATH=<DESTINATION FOLDER 2>\RMB\jarfiles*

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

AIX, Linux:

cd <DESTINATION FOLDER 2>/RMB/Upgrade/Oracle/Install-Upgrade

Windows:

cd <DESTINATION FOLDER 2>\RMB\Upgrade\Oracle\Install-Upgrade

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

AIX, Linux:

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

Windows:

```
%JAVA_HOME%\bin\java -Xmx1500M -cp %CLASS_PATH%
com.oracle.ouaf.oem.install.OraDBI -d jdbc:oracle:thin:
@<DB_SERVER_NAME>:<DB_PORT>:<DB_NAME>, <SCHEMA_NAME>,
<SCHEMA_PASSWORD>, <READWRITE_USER>, <READONLY_USER>,
<READWRITE ROLE>, <READONLY ROLE>, <SCHEMA NAME> -p
```

<READWRITE_USER_PASSWORD>, <READONLY_USER_PASSWORD> -1 1,2 -q true

The following message appears in the command line:

Ready to upgrade the target database from V5.0.0.0.0 to V5.1.0.0.0, do you want to continue (Y/N)?

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

2.6.2 Applying the Release-Specific Patches

Once you install Oracle Revenue Management and Billing Version 5.1.0.0.0, you need to apply all patches listed in the <u>ORMB V5.1.0.0.0 Patch Guide</u> (Document ID: 2941754.1). You can apply a patch from a Windows machine or UNIX Standalone server.

To apply a patch:

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

AIX, Linux:

unzip <filename>.zip -d <PATH>/<DESTINATION FOLDER 3>

Windows:

unzip <filename>.zip -d <PATH>\<DESTINATION FOLDER 3>

The contents of the zip file are extracted in the <DESTINATION_FOLDER_3> folder. The contents include three files - README.txt, MultiPlatform.zip, and Bug <PATCH NUMBER> Product Fix Design.pdf.

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

AIX, Linux:

```
unzip <DESTINATION_FOLDER_3>/MultiPlatform.zip -d
<PATH>/<DESTINATION FOLDER 4>
```

Windows:

```
unzip <DESTINATION_FOLDER_3>\MultiPlatform.zip -d
<PATH>\<DESTINATION FOLDER 4>
```

The contents of the zip file are extracted in the <DESTINATION_FOLDER_4> folder. The contents include the V5.1.0.0.0-<PATCH NUMBER> MultiPlatform folder.

4. Change to the V5.1.0.0.0-<PATCH_NUMBER>_MultiPlatform folder using the following command:

AIX, Linux:

```
cd <DESTINATION FOLDER 4>/V5.1.0.0.0-<PATCH NUMBER> MultiPlatform
```

Windows:

```
cd <DESTINATION FOLDER 4>\V5.1.0.0.0-<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.V5.1.0.0.0-<PATCH_NUMBER>.jar and a folder named database.

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

AIX, Linux:

cd database/ORACLE

Windows:

cd database\ORACLE

The contents include a zip file named CDXPatch.

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

<u>AIX, Linux:</u>

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 <code>ouafDatabasePatch</code> utility using the following command:

Windows:

ouafDatabasePatch.cmd

<u>AIX, Linux:</u>

ouafDatabasePatch.sh

2.7 Migrating Data

Once you upgrade the database, you can migrate the data from Oracle Revenue Management and Billing Version 5.0.0.0 to 5.1.0.0.0. To migrate the data from ORMB Version 5.0.0.0.0 to 5.1.0.0.0, you need to apply the following patches:

- UPGRADE FROM 5.0.0.0.0 TO 5.1.0.0.0 (Patch Number: 35168757)
- MIGRATION SCRIPT FOR RESEED_SW AND ACCT_ID COLUMN FOR ASO FUNCTIONALITY (Patch Number: 36453289)

2.7.1 Applying the UPGRADE FROM 5.0.0.0 TO 5.1.0.0.0 Patch

To apply the UPGRADE FROM 5.0.0.0 TO 5.1.0.0.0 patch:

1. Copy the **UPGRADE FROM 5.0.0.0 TO 5.1.0.0.0** patch to the **TEMPDIR** folder using the following command:

AIX, Linux:

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

Windows:

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

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

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

AIX, Linux:

cd <PATH>/TEMPDIR

Windows:

cd <PATH>\TEMPDIR

3. Unzip the UPGRADE FROM 5.0.0.0 TO 5.1.0.0.0 patch using the following command:

AIX, Linux:

unzip <filename>.zip -d <PATH>/<DESTINATION FOLDER 6>

Windows:

unzip <filename>.zip -d <PATH>\<DESTINATION FOLDER 6>

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

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

AIX, Linux:

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

Windows:

```
unzip <DESTINATION_FOLDER_6>\deploy.zip -d
<PATH>\<DESTINATION FOLDER 7>
```

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

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

cd <DESTINATION_FOLDER_7>\deploy

The contents include a folder named Migration_From_V5.0.0.0.0_To_5.1.0.0.0. This folder contains one file named PostProcessingScript.sql.

6. Change to the Migration_From_V5.0.0.0.0_To_5.1.0.0.0 folder using the following command:

```
cd
<DESTINATION_FOLDER_7>\deploy\Migration_From_V5.0.0.0_To_5.1.0.
0.0
```

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

8. Execute the following query from the Migration_From_V5.0.0.0.0_To_5.1.0.0.0 folder:

PostProcessingScript.sql

Note: For more information about the query, refer to the **<u>PostProcessingScript.sql</u>** section in <u>Appendix O:</u> <u>SQL Statements for 5.0.0.0 to 5.1.0.0.0 Data Migration</u>.

2.7.2 Applying the Migration Script for RESEED_SW and ACCT_ID Column for ASO Functionality Patch

To apply the MIGRATION SCRIPT FOR RESEED_SW AND ACCT_ID COLUMN FOR ASO FUNCTIONALITY patch:

1. Copy the **MIGRATION SCRIPT FOR RESEED_SW AND ACCT_ID COLUMN FOR ASO FUNCTIONALITY** patch to the **TEMPDIR** folder using the following command:

AIX, Linux:

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

Windows:

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

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

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

AIX, Linux:

cd <PATH>/TEMPDIR

Windows:

cd <PATH>\TEMPDIR

3. Unzip the **MIGRATION SCRIPT FOR RESEED_SW AND ACCT_ID COLUMN FOR ASO FUNCTIONALITY** patch using the following command:

<u>AIX, Linux:</u>

unzip <filename>.zip -d <PATH>/<DESTINATION FOLDER 8>

Windows:

unzip <filename>.zip -d <PATH>\<DESTINATION FOLDER 8>

The contents of the zip file are extracted in the <DESTINATION_FOLDER_8> folder. The contents include two files - README.txt and deploy.zip.

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

AIX, Linux:

```
unzip <DESTINATION_FOLDER_8>/deploy.zip -d
<PATH>/<DESTINATION FOLDER 9>
```

Windows:

```
unzip <DESTINATION_FOLDER_8>\deploy.zip -d
<PATH>\<DESTINATION FOLDER 9>
```

The contents of the zip file are extracted in the <DESTINATION_FOLDER_9> folder. The contents include a folder named Migration from 3.1.0.0.0.

5. Change to the Migration from 3.1.0.0.0 folder using the following command: cd <DESTINATION FOLDER 9>\Migration from 3.1.0.0.0

The contents include a file named ASOPERFMigrationScript.sql.

- 6. Connect to the ORMB database using a utility named SQL*Plus and the administrator's (for example, CISADM) credentials.
- 7. Execute the following query from the Migration from 3.1.0.0.0 folder: ASOPERFMigrationScript.sql

Note: For more information about the query, refer to the **ASOPERFMigrationScript.sql** section in <u>Appendix O: SQL Statements for 5.0.0.0 to 5.1.0.0 Data Migration</u>.

3. Additional Tasks

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

- 1. Generating the Application Viewer
- 2. <u>Starting the Thread Pool Worker</u>
- 3. Building Javadoc Index

3.1 Generating the Application Viewer

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

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

AIX, Linux:

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

Windows:

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

Where, <code>\$SPLEBASE</code> or <code>%SPLEBASE</code> is the path where the application environment is installed, and <code>\$SPLENVIRON</code> or <code>%SPLEBASE</code> is the name of the application environment for which you want to set the environment variables.

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

Windows:

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

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

4. Execute the genappvieweritems utility using the following command:

AIX, Linux:

\$SPLEBASE/bin/genappvieweritems.sh

Windows:

%SPLEBASE%\bin\genappvieweritems.cmd

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

5. Execute the initialSetup utility using the following command:

AIX, Linux:

\$SPLEBASE/bin/initialSetup.sh

Windows:

%SPLEBASE%\bin\initialSetup.cmd

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

3.2 Starting the Thread Pool Worker

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

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

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

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

AIX, Linux:

\$SPLEBASE/bin/threadpoolworker.sh

Windows:

%SPLEBASE%\bin\threadpoolworker.cmd

Where, **\$SPLEBASE** or **\$SPLEBASE** is the path where the application environment is installed.

3.3 Building Javadoc Index

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

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

AIX, Linux:

\$SPLEBASE/bin/buildJavadocsIndex.sh

Windows:

%SPLEBASE%\bin\buildJavadocsIndex.cmd

Where, **\$SPLEBASE** or **\$SPLEBASE** is the path where the application environment is installed.

Appendix A : Known Issues

To view a list of known issues in the current release, refer to the *Oracle Revenue Management and Billing Version 5.1.0.0.0 Release Notes*.

Appendix B : Third-Party Software Upgrade

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

Appendix C: New Tables Added in ORMB Version 5.1.0.0.0

This section lists and describes the tables that are newly added in Oracle Revenue Management and Billing Version 5.1.0.0.0.

C.1 C1_DEAL_APROF_CRT_HCY

Purpose:	Used to store the approval level criteria of a deal approval profile.
Total Number of Columns:	12

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
CRITERIA_SEQ_NO	NUMBER(5)	No	-
DEAL_APPR_PROF_CD	CHAR(8)	No	-
MAXIMUM_PROFIT	NUMBER(15,2)	Yes	-
MAXIMUM_REVENUE	NUMBER(15,2)	Yes	-
MAXIMUM_VARIATION	NUMBER(15,2)	Yes	-
MINIMUM_PROFIT	NUMBER(15,2)	Yes	-
MINIMUM_REVENUE	NUMBER(15,2)	Yes	-
MINIMUM_VARIATION	NUMBER(15,2)	Yes	-
OPERATOR_NAME	CHAR(8)	Yes	-
PROFITABILITY_TYPE	CHAR(8)	Yes	-
SEQNO	NUMBER(5, 0)	No	-
VARIATION_TYPE	CHAR(8)	Yes	-

Primary Key:

Кеу Туре	Column Name
Composite	CRITERIA_SEQ_NO
	DEAL_APPR_PROF_CD
	SEQNO

Sr. No.	Index Name	Index Type	Column Name
1.	XM572P0	Unique	CRITERIA_SEQ_NO
			DEAL_APPR_PROF_CD
			SEQNO

Indexes:

C.2 C1_DEAL_TYPE_PC_COLMN_CONFIG

Purpose:	Used to store a list of columns which are configurable for a deal (created using a particular deal type) while viewing its pricing and commitments details.
Total Number of Columns:	4

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
DEAL_TYPE_CD	VARCHAR2(20)	No	-
PNC_COLUMN_NAME_FLG	CHAR(4)	No	-
SELECTION_TYPE_FLG	CHAR(4)	No	-
SEQUENCE_NUM	NUMBER(5,0)	No	-

Primary Key:

Кеу Туре	Column Name
Composite	DEAL_TYPE_CD
	PNC_COLUMN_NAME_FLG
	SELECTION_TYPE_FLG
	SEQUENCE_NUM

Sr. No.	Index Name	Index Type	Column Name
1.	XM910P0	Unique	DEAL_TYPE_CD
			PNC_COLUMN_NAME_FLG

C.3 C1_MODEL_ADHOC_PRICEITEM

Purpose:	Used to store the details of additional price items included in a deal.
Total Number of Columns:	7

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
CRE_DTTM	DATE	No	-
DEAL_ENTITY_ID	CHAR(10)	No	-
DEAL_ENTITY_TYPE_FLG	CHAR(4)	No	-
MODEL_ID	CHAR(10)	No	-
PRICEITEM_CD	CHAR(30)	No	-
PRICEITEM_PARM_GRP_ID	NUMBER(22,0)	No	-
VERSION	NUMBER(5,0)	No	-

Primary Key:

Кеу Туре	Column Name
Composite	CRE_DTTM
	DEAL_ENTITY_ID
	DEAL_ENTITY_TYPE_FLG
	MODEL_ID
	PRICEITEM_CD
	PRICEITEM_PARM_GRP_ID
	VERSION

Sr. No.	Index Name	Index Type	Column Name	
1.	XM811P0	Unique	MODEL_ID	
			PRICEITEM_CD	
			PRICEITEM_PARM_GRP_ID	

C.4 C1_MODEL_STND_PRICEASGN

Purpose:	Used to store all standard price item pricing of an entity for a deal version.
Total Number of Columns:	7

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
DEAL_ENTITY_ID	CHAR(10)	No	-
DEAL_ENTITY_TYPE_FLG	CHAR(4)	No	-
MODEL_ID	CHAR(10)	No	-
PRICE_ASGN_ID	CHAR(10)	No	-
PRICEITEM_CD	CHAR(30)	No	-
PRICEITEM_PARM_GRP_ID	NUMBER(22,0)	No	-
STND_PRICELIST_ID	CHAR(10)	No	-

Primary Key:

Кеу Туре	Column Name
Composite	DEAL_ENTITY_ID
	DEAL_ENTITY_TYPE_FLG
	MODEL_ID
	PRICE_ASGN_ID
	PRICEITEM_CD
	PRICEITEM_PARM_GRP_ID
	STND_PRICELIST_ID

Sr. No.	Index Name	Index Type	Column Name
1.	XM909P0	Unique DEAL_ENTITY_ID	
			DEAL_ENTITY_TYPE_FLG
			MODEL_ID
			PRICE_ASGN_ID

C.5 C1_MODEL_STND_PRICELIST

Purpose:	Used to store the details of a standard price list for a deal version.
Total Number of Columns:	6

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
DEAL_ENTITY_ID	CHAR(10)	No	-
DEAL_ENTITY_TYPE_FLG	CHAR(4)	No	-
DEAL_ID	CHAR(10)	No	-
MODEL_ID	CHAR(10)	No	-
SEQNO	NUMBER(5,0)	No	-
STND_PRICELIST_ID	CHAR(10)	No	-

Primary Key:

Кеу Туре	Column Name
Composite	DEAL_ENTITY_ID
	DEAL_ENTITY_TYPE_FLG
	DEAL_ID
	MODEL_ID
	SEQNO
	STND_PRICELIST_ID

Sr. No.	Index Name	Index Type	Column Name	
1.	XM809P0	Unique	DEAL_ENTITY_ID	
			DEAL_ENTITY_TYPE_FLG	
			DEAL_ID	
			MODEL_ID	
			STND_PRICELIST_ID	

C.6 C1_PRC_RULE_MEMB

Purpose:	Used to store pricing rule start and end dates for a particular membership.
Total Number of Columns:	7

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
BATCH_NBR	NUMBER(10,0)	No	-
MEMBERSHIP_ID	CHAR(15)	(15) No	
MEMBPR_END_DT	DATE	Yes	-
MEMBPR_START_DT	DATE	No	-
PRICING_RULE_ID	CHAR(15)	No	-
PRIMARY_PRICING_RULE_ID	CHAR(15)	No	-
STATUS	CHAR(1)	No	-

Primary Key:

Кеу Туре	Column Name
Composite	BATCH_NBR
	MEMBERSHIP_ID
	MEMBPR_START_DT
	PRICING_RULE_ID
	PRIMARY_PRICING_RULE_ID
	STATUS

Sr. No.	Index Name	Index Type	Column Name	
1.	XM788P0	Unique	BATCH_NBR	
			MEMBERSHIP_ID	
			MEMBPR_START_DT	
			PRICING_RULE_ID	
			PRIMARY_PRICING_RULE_ID	
			STATUS	

Sr. No.	Index Name	Index Type	Column Name	
2.	XM788S1	Non-Unique	MEMBERSHIP_ID	
			STATUS	
3.	XM788S2	Non-Unique	MEMBERSHIP_ID	
			MEMBPR_START_DT	
			PRIMARY_PRICING_RULE_ID	

C.7 C1_PRICEITEM_REL_DIV

Purpose:	Used to store the details of price items which are associated to each other for relationship based pricing in a deal.	
Total Number of Columns:	6	

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value	
CIS_DIVISION	CHAR(5)	No	-	
PRICEITEM_CHLD_CD	CHAR(30)	No	-	
PRICEITEM_PAR_CD	CHAR(30)	No	-	
PRICEITEM_PARM_GRP_ID	NUMBER(22,0)	No	-	
PRICEITEM_REL_TYPE_FLG	CHAR(4)	No	-	
START_DT	DATE	No	-	

Primary Key:

Кеу Туре	Column Name
Composite	CIS_DIVISION
	PRICEITEM_CHLD_CD
	PRICEITEM_PAR_CD
	PRICEITEM_PARM_GRP_ID
	PRICEITEM_REL_TYPE_FLG
	START_DT

Sr. No.	Index Name	Index Type	Column Name	
1.	XM812P0	Unique	CIS_DIVISION	
			PRICEITEM_CHLD_CD	

Sr. No.	Index Name	Index Type	Column Name		
			PRICEITEM_PAR_CD		
			PRICEITEM_PARM_GRP_ID		
			PRICEITEM_REL_TYPE_FLG		
			START_DT		

This section lists the existing tables which are modified in Oracle Revenue Management and Billing Version 5.1.0.0.0. It indicates the columns that are newly added, dropped, or modified in these tables.

D.1 C1_ACCUM_MIN_PREM_AMT

The following table lists the columns that are newly added, modified, or dropped from the C1_ACCUM_MIN_PREM_AMT table:

Sr. No.	Column Name	Modification Type	Data Type in V5.0.0.0.0	Data Type in V5.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	CUL_SURPLUS_DEFICIT_AMT	Newly Added	-	NUMBER(36,18)	No	-
2.	EFFECTIVE_MPP_LIMIT	Newly Added	-	NUMBER(36,18)	No	-
3.	MONTHLY_MPP_LIMIT	Newly Added	-	NUMBER(36,18)	No	-
4.	ROLL_FWD_CHRG	Newly Added	-	NUMBER(36,18)	No	-

D.2 C1_DEAL_APROF_HCY

The following table lists the columns that are newly added, modified, or dropped from the C1_DEAL_APROF_HCY table:

Sr. No.	Column Name	Modification Type	Data Type in V5.0.0.0.0	Data Type in V5.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	SELF_APP_REQ	Newly Added	-	CHAR(4)	Yes	The column value is set to Y.

D.3 C1_DEAL_COMMENTS

The following table lists the columns that are newly added, modified, or dropped from the C1_DEAL_COMMENTS table:

Sr. No.	Column Name	Modification Type	Data Type in V5.0.0.0.0	Data Type in V5.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	DEAL_WITH_APPR	Newly Added	-	CHAR(4)	No	-

D.4 C1_DEAL_SIMULATION_DTL

The following table lists the columns that are newly added, modified, or dropped from the C1_DEAL_SIMULATION_DTL table:

Sr. No.	Column Name	Modification Type	Data Type in V5.0.0.0.0	Data Type in V5.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	LOCAL_PROFITABILITY_AMT	Newly Added	-	NUMBER(15,2)	No	-
2.	PROFITABILITY_AMT	Newly Added	-	NUMBER(15,2)	No	-

D.5 C1_DEAL_SIMULATION_SMRY

The following table lists the columns that are newly added, modified, or dropped from the C1_DEAL_SIMULATION_SMRY table:

Sr. No.	Column Name	Modification Type	Data Type in V5.0.0.0.0	Data Type in V5.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	LOCAL_PROFITABILITY_AMT	Newly Added	-	NUMBER(15,2)	No	-
2.	PROFITABILITY_AMT	Newly Added	-	NUMBER(15,2)	No	-

D.6 C1_DEAL_TYPE

The following table lists the columns that are newly added, modified, or dropped from the C1_DEAL_TYPE table:

Sr. No.	Column Name	Modification Type	Data Type in V5.0.0.0.0	Data Type in V5.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	SIML_STATS_TYPE_FLG	Newly Added	-	CHAR(4)	No	-
2.	STND_COMPARE_SW	Newly Added	-	CHAR(1)	No	-

D.7 C1_MODEL_FIN_SUMMARY

The following table lists the columns that are newly added, modified, or dropped from the C1_MODEL_FIN_SUMMARY table:

Sr. No.	Column Name	Modification Type	Data Type in V5.0.0.0.0	Data Type in V5.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	LOCAL_STND_COST	Newly Added	-	NUMBER(15,2)	No	-
2.	LOCAL_STND_PROFITABILITY_AMT	Newly Added	-	NUMBER(15,2)	No	-
3.	LOCAL_STND_REVENUE	Newly Added	-	NUMBER(15,2)	No	-
4.	PROF_DEVI_PROP_VS_STND	Newly Added	-	NUMBER(15,2)	No	-
5.	REVENUE_DEVI_PROP_VS_ACTIVE	Newly Added	-	NUMBER(15,2)	No	-
6.	REVENUE_DEVI_PROP_VS_STND	Newly Added	-	NUMBER(15,2)	No	-
7.	STND_COST	Newly Added	-	NUMBER(15,2)	No	-
8.	STND_PROFITABILITY	Newly Added	-	NUMBER(15,2)	No	-

Sr. No.	Column Name	Modification Type	Data Type in V5.0.0.0.0	Data Type in V5.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
9.	STND_PROFITABILITY_AMT	Newly Added	-	NUMBER(15,2)	No	-
10.	STND_REVENUE	Newly Added	-	NUMBER(15,2)	No	-

D.8 C1_MODEL_RECM_PRICEASGN

The following table lists the columns that are newly added, modified, or dropped from the C1_MODEL_RECM_PRICEASGN table:

Sr. No.	Column Name	Modification Type	Data Type in V5.0.0.0.0	Data Type in V5.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	PRICEITEM_CD	Newly Added	-	CHAR(30)	No	-
2.	PRICEITEM_PARM_GRP_ID	Newly Added	-	NUMBER(22)	No	-

D.9 CI_ACCT

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

Sr. No.	Column Name	Modification Type	Data Type in V5.0.0.0.0	Data Type in V5.1.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	RE_EVAL_APAY_SW	Newly Added	-	CHAR(1)	No	-

Appendix E : Algorithms and Algorithm Types Dropped in ORMB Version 5.1.0.0.0

This section lists the algorithms and algorithm types which are dropped in Oracle Revenue Management and Billing Version 5.1.0.0.0.

E.1 Algorithm Types

No algorithm types are dropped in Oracle Revenue Management and Billing Version 5.1.0.0.0.

E.2 Algorithms

No algorithms are dropped in Oracle Revenue Management and Billing Version 5.1.0.0.0.

Appendix F : Parameters Added or Removed from Batch Controls in ORMB Version 5.1.0.0.0

This section lists the parameters which are newly added or removed from the existing batch controls in Oracle Revenue Management and Billing Version 5.1.0.0.0.

Batch Control	Parameters (Removed from 5.1.0.0.0)		Parameters (Added in 5.1.0.0.0)		
	Sequence Number	Parameter	Sequence Number	Parameter	
BSGENREG	90	Thread Pool Name	100	Thread Pool Name	
	-	-	90	Regenerate Bill Segment	
C1-DISTA	20	Thread Pool Name	30	Thread Pool Name	
	-	-	20	Disaggregate Transactions From Date	
C1-DRSUA	-	-	90	Transaction Status	
C1-FCADH	-	-	50	Division	
C1-IDENT	-	-	100	Transaction Status	
C1-PDTXN	-	-	80	Transaction Status	
C1-TXNCU	-	-	110	Transaction Status	
C1-TXNSQ	-	-	70	Transaction Disaggregation Review Required	

Appendix G : Parameters Added or Removed from Algorithm Types in ORMB Version 5.1.0.0.0

No parameters are newly added or removed from the existing algorithm types in Oracle Revenue Management and Billing Version 5.1.0.0.0.

Appendix H : Option Types Added or Removed from Feature Configurations in ORMB Version 5.1.0.0.0

This section lists the option types which are newly added or removed from the existing feature configurations in Oracle Revenue Management and Billing Version 5.1.0.0.0.

Feature Configuration	Option Type (Removed from 5.1.0.0.0)	Option Type (Added in 5.1.0.0.0)
C1_PRICING	-	Associating Price Items For Relationship Type
C1-ADDRESS	-	Address Source for Refund Request
	-	Address Type for Refund Request
C1-ASOBLLNG	-	Approval Workflow Group for MPP
C1-DEAL	-	Create Bespoke Price List during Orchestration
	-	Assignment Limit for Online Deal Orchestration
	-	Deal Pricing Download
SYSDT	Environment Type	-

Appendix I : Characteristic Types Dropped in ORMB Version 5.1.0.0.0

No characteristic types are dropped in Oracle Revenue Management and Billing Version 5.1.0.0.0.

Appendix J: Batch Controls Dropped in ORMB Version 5.1.0.0.0

No batch controls are dropped in Oracle Revenue Management and Billing Version 5.1.0.0.0.

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 4.5.0.0.0:

- 1. Download and apply the single fix available for Bug 22505470 PATCHES APPEND EXTRA SPACE TO STRINGS AND ADD DB SERVICE CONNECTION SUPPORT on the application and database environments.
- 2. Perform the following steps on the application environment:
 - a. Change the DB Name using the configureEnv command.
 - b. Execute the initialSetup utility using the following command:

AIX, Linux:

\$SPLEBASE/bin/initialSetup.sh

Windows:

%SPLEBASE%\bin\initialSetup.cmd

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

AIX, Linux:

\$SPLEBASE/bin/invokeDBUpdatePatch.sh -b

Windows:

%SPLEBASE%\bin\invokeDBUpdatePatch.cmd -b

Appendix L: ORMB V5.1.0.0.0 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, refer to the <u>ORMB V5.1.0.0.0 Patch Guide</u> (Document ID: 2941754.1) on <u>My Oracle Support</u>.

L.1 Applying a Rollup Pack on the Application Environment

Once you install Oracle Revenue Management and Billing Version 5.1.0.0.0, you need to apply the rollup packs listed in the <u>ORMB V5.1.0.0.0 Patch Guide</u> (Document ID: 2941754.1). To apply a rollup pack on the application environment:

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

AIX, Linux:

unzip <filename>.zip -d <PATH>/<DESTINATION FOLDER 1>

Windows:

unzip <filename>.zip -d <PATH>\<DESTINATION FOLDER 1>

The contents of the zip file are extracted in the <DESTINATION_FOLDER_1> folder. The contents include the README.txt file and three folders named RMB_V5.1.0.0.0_App_Rollup, RMB_V5.1.0.0.0_DB_Rollup, and RMB_V5.1.0.0.0_PFDs.

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

AIX, Linux:

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

Windows:

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

Where,

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

4. Change to the RMB_V5.1.0.0.0 App_Rollup folder using the following command:

AIX, Linux:

cd <DESTINATION FOLDER 1>/RMB V5.1.0.0.0 App Rollup

Windows:

cd <DESTINATION_FOLDER_1>\RMB_V5.1.0.0.0_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:

AIX, Linux:

./installSFgroup.sh

Windows:

installSFgroup.cmd

L.2 Applying a Rollup Pack on the Database

Once you install Oracle Revenue Management and Billing Version 5.1.0.0.0, you need to apply the rollup packs listed in the <u>ORMB V5.1.0.0.0 Patch Guide</u> (Document ID: 2941754.1). You can apply a rollup pack from a Windows machine or UNIX Standalone server. To apply a rollup pack on the database:

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

AIX, Linux:

unzip <filename>.zip -d <PATH>/<DESTINATION FOLDER 1>

Windows:

unzip <filename>.zip -d <PATH>\<DESTINATION FOLDER 1>

The contents of the zip file are extracted in the <DESTINATION_FOLDER_1> folder. The contents include the README.txt file and three folders named RMB_V5.1.0.0.0_App_Rollup, RMB_V5.1.0.0.0_DB_Rollup, and RMB_V5.1.0.0.0_PFDs.

3. Change to the RMB_V5.1.0.0.0 DB_Rollup folder using the following command:

AIX, Linux:

cd <DESTINATION FOLDER 1>/RMB V5.1.0.0.0 DB Rollup

Windows:

cd <DESTINATION FOLDER 1>\RMB V5.1.0.0.0 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

AIX, Linux:

ouafDatabasePatch.sh

Appendix M : New Tables Added in OUAF Version 4.5.0.0.0

This section lists and describes the tables that are newly added in Oracle Utilities Application Framework Version 4.5.0.0.0.

M.1 CI_MD_IDX

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

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
IDX_CD	CHAR(12)	No	-
TBL_NAME	CHAR(30)	No	-
UNIQUE_SW	CHAR(1)	No	-
OWNER_FLG	CHAR(4)	No	
VERSION	NUMBER(5,0)	No	1

Primary Key:

Кеу Туре	Column Name
Simple	IDX_CD

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	F1C799P0	Unique	IDX_CD

M.2 CI_MD_IDX_FLD

Purpose:	Used to store the fields that are used to create an index.
Total Number of Columns:	5

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
IDX_CD	CHAR(12)	No	-
SEQ_NUM	NUMBER(3,0)	No	0

Column Name	Data Type	Nullable (Yes or No)	Default Value
FLD_NAME	CHAR(30)	No	-
OWNER_FLG	CHAR(4)	No	11
VERSION	NUMBER(5,0)	No	1

Primary Key:

Кеу Туре	Column Name
Composite	IDX_CD
	SEQ_NUM

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	F1C800P0	Unique	IDX_CD
			SEQ_NUM
2.	F1C800S1	Unique	IDX_CD
			FLD_NAME

M.3 CI_MD_TBL_ADDTL

Purpose:	Used to store the additional attributes of a table.
Total Number of Columns:	4

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
TBL_NAME	CHAR(30)	No	-
TBL_GEN_STATUS_FLG	CHAR(4)	No	11
OWNER_FLG	CHAR(4)	No	
VERSION	NUMBER(5,0)	No	1

Primary Key:

Кеу Туре	Column Name
Simple	TBL_NAME

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	F1C906P0	Unique	TBL_NAME

M.4 F1_IWS_SVC_FLDTEXT

Purpose:	Used to store the help text fields of an inbound web service.
Total Number of Columns:	7

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
IN_SVC_NAME	VARCHAR2(254)	No	-
TEXT_NAME	CHAR(30)	No	-
IWS_HELP_TEXT	VARCHAR2(4000)	No	-
EXAMPLE_TEXT	VARCHAR2(4000)	Yes	-
FLD_NAME	CHAR(30)	No	-
OWNER_FLG	CHAR(4)	No	11
VERSION	NUMBER(5,0)	No	1

Primary Key:

Кеу Туре	Column Name
Composite	IN_SVC_NAME
	TEXT_NAME

Sr. No.	Index Name	Index Type	Column Name
1.	F1C903P0	Unique	IN_SVC_NAME
			TEXT_NAME

M.5 F1_IWS_SVC_OPER_L

Purpose:	Used to store the description of the inbound web service operation.
Total Number of Columns:	7

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
IN_SVC_NAME	VARCHAR2(254)	No	-
OPERATION_NAME	VARCHAR2(254)	No	-
LANGUAGE_CD	CHAR(3)	No	-
DESCR	VARCHAR2(60)	No	11
DESCRLONG	VARCHAR2(4000)	Yes	-
OWNER_FLG	CHAR(4)	No	11
VERSION	NUMBER(5,0)	No	1

Primary Key:

Кеу Туре	Column Name
Composite	IN_SVC_NAME
	OPERATION_NAME
	LANGUAGE_CD

Sr. No.	Index Name	Index Type	Column Name
1.	F1C904P0	Unique	IN_SVC_NAME
			OPERATION_NAME
			LANGUAGE_CD

M.6 F1_IWS_SVC_OPER_OPT

Purpose:	Used to store the option details of an inbound web service operation.
Total Number of Columns:	7

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
IN_SVC_NAME	VARCHAR2(254)	No	-
OPERATION_NAME	VARCHAR2(254)	No	-
IWS_OPR_OPT_FLG	CHAR(4)	No	1.1
SEQ_NUM	NUMBER(3,0)	No	-
IWS_OPR_OPT_VAL	VARCHAR2(32000)	No	-
OWNER_FLG	CHAR(4)	No	1.1
VERSION	NUMBER(5,0)	No	1

Primary Key:

Кеу Туре	Column Name
Composite	IN_SVC_NAME
	OPERATION_NAME
	IWS_OPR_OPT_FLG
	SEQ_NUM
	OWNER_FLG

Sr. No.	Index Name	Index Type	Column Name
1.	F1C905P0	Unique	IN_SVC_NAME
			OPERATION_NAME
			IWS_OPR_OPT_FLG
			SEQ_NUM
			OWNER_FLG

M.7 F1_IWS_SVC_SCHEMA

Purpose:	Used to store the schema information of an inbound web service.
Total Number of Columns:	7

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
IN_SVC_NAME	VARCHAR2(254)	No	-
OPERATION_NAME	VARCHAR2(254)	No	-
IWS_OPR_OPT_FLG	CHAR(4)	No	11
SEQ_NUM	NUMBER(3,0)	No	-
IWS_OPR_OPT_VAL	VARCHAR2(32000)	No	-
OWNER_FLG	CHAR(4)	No	11
VERSION	NUMBER(5,0)	No	1

Primary Key:

Кеу Туре	Column Name
Composite	IN_SVC_NAME
	OPERATION_NAME
	IWS_OPR_OPT_FLG
	SEQ_NUM
	OWNER_FLG

Sr. No.	Index Name	Index Type	Column Name
1.	F1C905P0	Unique	IN_SVC_NAME
			OPERATION_NAME
			IWS_OPR_OPT_FLG
			SEQ_NUM
			OWNER_FLG

M.8 F1_MO_UPD_BACKLOG

Purpose:	Used to store the details of a maintenance object.
Total Number of Columns:	8

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
MAINT_OBJ_CD	CHAR(12)	No	-
PK_VALUE1	VARCHAR2(254)	No	-
PK_VALUE2	VARCHAR2(254)	Yes	-
PK_VALUE3	VARCHAR2(254)	Yes	-
PK_VALUE4	VARCHAR2(254)	Yes	-
PK_VALUE5	VARCHAR2(254)	Yes	-
ENT_KEY_HASH	NUMBER(5,0)	No	-
REC_ROW_ID	VARCHAR2(100)	Yes	-

Primary Key:

None

Indexes:

None

M.9 F1_TAG

Purpose:	Used to store the details of an entity tag.
Total Number of Columns:	8

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
ENTITY_TAG	VARCHAR2(30)	No	-
ENTITY_TAG_CLASS_FLG	CHAR(4)	No	
TAG_STATUS_FLG	CHAR(4)	No	
BUS_OBJ_CD	CHAR(30)	No	
MAINT_OBJ_CD	CHAR(12)	Yes	
OWNER_FLG	CHAR(4)	No	1.1

Column Name	Data Type	Nullable (Yes or No)	Default Value
BO_DATA_AREA	CLOB	Yes	-
VERSION	NUMBER(5,0)	No	1

Primary Key:

Кеу Туре	Column Name
Simple	ENTITY_TAG

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	F1C795P0	Unique	ENTITY_TAG

M.10 F1_TAG_CHAR

Purpose:	Used to store the characteristics of an entity tag.
Total Number of Columns:	13

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
ENTITY_TAG	VARCHAR2(30)	No	-
CHAR_TYPE_CD	CHAR(8)	No	-
SEQ_NUM	NUMBER(3,0)	No	-
CHAR_VAL	CHAR(16)	No	11
ADHOC_CHAR_VAL	VARCHAR2(254)	No	11
CHAR_VAL_FK1	VARCHAR2(50)	No	11
CHAR_VAL_FK2	VARCHAR2(50)	No	11
CHAR_VAL_FK3	VARCHAR2(50)	No	11
CHAR_VAL_FK4	VARCHAR2(50)	No	11
CHAR_VAL_FK5	VARCHAR2(50)	No	
SRCH_CHAR_VAL	VARCHAR2(50)	No	11
OWNER_FLG	CHAR(4)	No	11
VERSION	NUMBER(5,0)	No	1

Primary Key:

Кеу Туре	Column Name
Composite	ENTITY_TAG
	CHAR_TYPE_CD
	SEQ_NUM

Indexes:

Sr. No.	Index Name	Index Type	Column Name
1.	F1C797P0	Unique	ENTITY_TAG
			CHAR_TYPE_CD
			SEQ_NUM

M.11 F1_TAG_L

Purpose:	Used to store the description of an entity tag.
Total Number of Columns:	6

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
ENTITY_TAG	VARCHAR2(30)	No	-
LANGUAGE_CD	CHAR(3)	No	11
DESCR100	VARCHAR2(100)	No	11
DESCRLONG	VARCHAR2(4000)	Yes	-
OWNER_FLG	CHAR(4)	No	11
VERSION	NUMBER(5,0)	No	1

Primary Key:

Кеу Туре	Column Name
Composite	ENTITY_TAG
	LANGUAGE_CD

Sr. No.	Index Name	Index Type	Column Name
1.	F1C796P0	Unique	ENTITY_TAG
			LANGUAGE_CD

M.12 F1_TAGGED_ENTITY

Purpose:	Used to store the details of an entity tagging.	
Total Number of Columns:	11	

Column Details:

Column Name	Data Type	Nullable (Yes or No)	Default Value
ENTITY_TAG	VARCHAR2(30)	No	-
OWNER_FLG	CHAR(4)	No	11
MAINT_OBJ_CD	CHAR(12)	No	11
PK_VALUE1	VARCHAR2(254)	No	11
PK_VALUE2	VARCHAR2(254)	Yes	-
PK_VALUE3	VARCHAR2(254)	Yes	-
PK_VALUE4	VARCHAR2(254)	Yes	-
PK_VALUE5	VARCHAR2(254)	Yes	-
KEYS	VARCHAR2(200)	No	-
REFERENCE_NAME	VARCHAR2(60)	Yes	-
VERSION	NUMBER(5,0)	No	1

Primary Key:

Кеу Туре	Column Name
Composite	ENTITY_TAG
	OWNER_FLG
	MAINT_OBJ_CD
	KEYS

Sr. No.	Index Name	Index Type	Column Name
1.	F1C798P0	Unique	ENTITY_TAG
			OWNER_FLG
			MAINT_OBJ_CD
			KEYS

Sr. No.	Index Name	Index Type	Column Name
2.	F1C798S1	Non-Unique	MAINT_OBJ_CD
			PK_VALUE1
			PK_VALUE2
			PK_VALUE3
			PK_VALUE4
			PK_VALUE5

Appendix N : Existing Tables Modified in OUAF Version 4.5.0.0.0

This section lists the existing tables which are modified in Oracle Utilities Application Framework Version 4.5.0.0.0. It indicates the columns that are newly added, dropped, or modified in these tables.

N.1 CI_NT_XID

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

Sr. No.	Column Name	Modification Type	Data Type in V4.4.0.3.0	Data Type in V4.5.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	OWNER_FLG	Newly Added	-	CHAR(4)	No	-

N.2 CI_NT_XID_L

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

Sr. No.	Column Name	Modification Type	Data Type in V4.4.0.3.0	Data Type in V4.5.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	OWNER_FLG	Newly Added	-	CHAR(4)	No	-

N.3 CI_PORTAL_ZONE

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

Sr. No.	Column Name	Modification Type	Data Type in V4.4.0.3.0	Data Type in V4.5.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	ZONE_HEIGHT_FLG	Newly Added	-	CHAR(4)	No	-
2.	ZONE_LAYOUT	Newly Added	-	CHAR(4)	No	-
3.	ZONE_MAX_HEIGHT_ PCT	Newly Added	-	NUMBER(3)	No	-
4.	ZONE_ROWS	Newly Added	-	CHAR(4)	No	-
5.	ZONE_WIDTH_FLG	Newly Added	-	CHAR(4)	No	-

N.4 CI_XAI_SENDER

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

Sr. No.	Column Name	Modification Type	Data Typ V4.4.0.3.0	e in	Data V4.5.0	Туре .0.0	in	Data Requii No)	Migration red (Yes or	Column After Migration	Value Data
1.	OWNER_FLG	Newly Added	-		0	CHAR(4)			No	-	

N.5 CI_XAI_SENDER_L

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

Sr. No.	Column Name	Modification Type	Data Type in V4.4.0.3.0	Data Type in V4.5.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	OWNER_FLG	Newly Added	-	CHAR(4)	No	-

N.6 CI_XAI_SNDR_CTX

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

Sr. No.	Column Name	Modification Type	Data V4.4.0.	Туре .3.0	in	Data V4.5.0.	Туре 0.0	in	Data Requir No)	Migration ed (Yes or	Column After Migration	Value Data
1.	OWNER_FLG	Newly Added		-		С	HAR(4)			No	-	

N.7 F1_BATCH_CONF_VW

The following table lists the columns that are newly added, modified, or dropped from the F1_BATCH_CONF_VW table:

Sr. No.	Column Name	Modification Type	Data Type in V4.4.0.3.0	Data Type in V4.5.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	AVG_ELAPSED	Newly Added	-	NUMBER	No	-
2.	BATCH_CD	Newly Added	-	CHAR(8)	No	-
3.	BATCH_PERF_COUNT	Newly Added	-	NUMBER	No	_

Sr. No.	Column Name	Modification Type	Data Type in V4.4.0.3.0	Data Type in V4.5.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
4.	BEST_ELAPSED	Newly Added	-	NUMBER	No	-
5.	CONFIDENCE	Newly Added	-	NUMBER	No	-
6.	MED_ELAPSED	Newly Added	-	NUMBER	No	-
7.	SAMPLE_SIZE	Newly Added	-	NUMBER	No	-
8.	STD_DEVIATION	Newly Added	-	NUMBER	No	-
9.	WORST_ELAPSED	Newly Added	-	NUMBER	No	-

N.8 F1_BATCH_RUN_HIST_VW

The following table lists the columns that are newly added, modified, or dropped from the F1_BATCH_RUN_HIST_VW table:

Sr. No.	Column Name	Modification Type	Data Type in V4.4.0.3.0	Data Type in V4.5.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	BATCH_BUS_DT	Newly Added	-	DATE	No	-
2.	BATCH_CD	Newly Added	-	CHAR(8)	No	-
3.	BATCH_JOB_ID	Newly Added	-	CHAR(14)	No	-
4.	BATCH_NBR	Newly Added	-	NUMBER(10)	No	-
5.	BATCH_RERUN_NBR	Newly Added	-	NUMBER(10)	No	-
6.	BATCH_RUN_COUNT	Newly Added	-	NUMBER	No	-
7.	ELAPSED_TIME	Newly Added	-	NUMBER	No	-

Sr. No.	Column Name	Modification Type	Data Type in V4.4.0.3.0	Data Type in V4.5.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
8.	END_DTTM	Newly Added	-	DATE	No	-
9.	PROCESS_DT	Newly Added	-	DATE	No	-
10.	RUN_STATUS	Newly Added	-	CHAR(2)	No	-
11.	START_DTTM	Newly Added	-	DATE	No	-
12.	THREADPOOL	Newly Added	-	VARCHAR2(254)	No	-
13.	TOTAL_ERROR	Newly Added	-	NUMBER	No	-
14.	TOTAL_PROCESSED	Newly Added	-	NUMBER	No	-

N.9 F1_BATCH_THD_CAP_VW

The following table lists the columns that are newly added, modified, or dropped from the F1_BATCH_THD_CAP_VW table:

Sr. No.	Column Name	Modification Type	Data Type in V4.4.0.3.0	Data Type in V4.5.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	BATCH_BUS_DT	Newly Added	-	DATE	No	-
2.	BATCH_CD	Newly Added	-	CHAR(8)	No	-
3.	BATCH_JOB_ID	Newly Added	-	CHAR(14)	No	-
4.	BATCH_NBR	Newly Added	-	NUMBER(10)	No	-
5.	BATCH_RERUN_NBR	Newly Added	-	NUMBER(10)	No	-
6.	BATCH_THREAD_CAP_C OUNT	Newly Added	-	NUMBER	No	-

Sr. No.	Column Name	Modification Type	Data Type in V4.4.0.3.0	Data Type in V4.5.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
7.	BATCH_THREAD_NBR	Newly Added	-	NUMBER(10)	No	-
8.	END_DT	Newly Added	-	DATE	No	-
9.	END_MINUTES	Newly Added	-	NUMBER	No	-
10.	JOB_END_MINS	Newly Added	-	NUMBER	No	-
11.	JOB_START_MINS	Newly Added	-	NUMBER	No	-
12.	START_DT	Newly Added	-	DATE	No	-
13.	START_MINUTES	Newly Added	-	NUMBER	No	-
14.	SUBMIT_METH_FLG	Newly Added	-	CHAR(4)	No	-
15.	SUBMIT_USER_ID	Newly Added	-	CHAR(8)	No	-
16.	THREAD_END_DTTM	Newly Added	-	DATE	No	-
17.	THREAD_START_DTTM	Newly Added	-	DATE	No	-
18.	THREADPOOL	Newly Added	-	VARCHAR2(254)	No	-

N.10 F1_BATCH_THD_HIST_VW

The following table lists the columns that are newly added, modified, or dropped from the F1_BATCH_THD_HIST_VW table:

Sr. No.	Column Name	Modification Type	Data Type in V4.4.0.3.0	Data Type in V4.5.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	BATCH_BUS_DT	Newly Added	-	DATE	No	-

Sr. No.	Column Name	Modification Type	Data Type in V4.4.0.3.0	Data Type in V4.5.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
2.	BATCH_CD	Newly Added	-	CHAR(8)	No	-
3.	BATCH_JOB_ID	Newly Added	-	CHAR(14)	No	-
4.	BATCH_NBR	Newly Added	-	NUMBER(10)	No	-
5.	BATCH_RERUN_NBR	Newly Added	-	NUMBER(10)	No	-
6.	BATCH_RUN_THD_COUNT	Newly Added	-	NUMBER	No	-
7.	BATCH_THREAD_NBR	Newly Added	-	NUMBER(10)	No	-
8.	ELAPSED_TIME	Newly Added	-	NUMBER	No	-
9.	PROCESS_DT	Newly Added	-	DATE	No	-
10.	RECS_PER_MINUTE	Newly Added	-	NUMBER	No	-
11.	RETRY_COUNT	Newly Added	-	NUMBER	No	-
12.	RUN_STATUS	Newly Added	-	CHAR(2)	No	-
13.	THREAD_END_DTTM	Newly Added	-	DATE	No	-
14.	THREAD_START_DTTM	Newly Added	-	DATE	No	-
15.	THREAD_STATUS	Newly Added	-	CHAR(2)	No	-
16.	THREADPOOL	Newly Added	-	VARCHAR2(254)	No	-
17.	TOTAL_ERROR	Newly Added	-	NUMBER	No	-
18.	TOTAL_PROCESSED	Newly Added	-	NUMBER	No	-

N.11 F1_BATCH_VOL_VW

The following table lists the columns that are newly added, modified, or dropped from the F1_BATCH_VOL_VW table:

Sr. No.	Column Name	Modification Type	Data Type in V4.4.0.3.0	Data Type in V4.5.0.0.0	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(10)	No	-
3.	BATCH_RERUN_NBR	Newly Added	-	NUMBER(10)	No	-
4.	BATCH_THD_VOL_COUNT	Newly Added	-	NUMBER	No	-
5.	MAX_PROCESSED	Newly Added	-	NUMBER	No	-
6.	RECS_PER_MINUTE	Newly Added	-	NUMBER	No	-
7.	TOTAL_PROCESSED	Newly Added	-	NUMBER	No	-

N.12 F1_EXTSYS_OUTMSG_PROF

The following table lists the columns that are newly added, modified, or dropped from the F1_EXTSYS_OUTMSG_PROF table:

Sr. No.	Column Name	Modification Type	Data Type V4.4.0.3.0	in	Data Ty V4.5.0.0.0	ype in	Data Migration Required (Yes or No)	Column After Migratio	Value Data n
1.	OWNER_FLG	Newly Added	-		CHAI	R(4)	No	-	

N.13 F1_IWS_SVC

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

5	Sr. No.	Column Name	Modification Type	Data Type in V4.4.0.3.0	Data Type in V4.5.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
	1.	PUBLISH_FLG	Newly Added	-	CHAR(4)	No	-

N.14 F1_IWS_SVC_OPER

The following table lists the columns that are newly added, modified, or dropped from the F1_IWS_SVC_OPER table:

Sr. No.	Column Name	Modification Type	Data Type in V4.4.0.3.0	Data Type in V4.5.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	MAINT_OBJ_CD	Newly Added	-	CHAR(12)	No	-
2.	SEQ_NUM	Newly Added	-	NUMBER(3)	No	-

N.15 CI_CNV_DUP_KEY

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

Sr. No.	Column Name	Modification Type	Data Type in V4.4.0.3.0	Data Type in V4.5.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	CX_ID	Format Change	CHAR(14)	CHAR(30)	No	-

N.16 CI_CNV_KEY_TMP

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

Sr. No.	Column Name	Modification Type	Data Type in V4.4.0.3.0	Data Type in V4.5.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	CI_ID	Format Change	CHAR(14)	CHAR(30)	No	-
2.	CX_ID	Format Change	CHAR(14)	CHAR(30)	No	-
3.	INIT_ID	Format Change	VARCHAR2(14)	VARCHAR2(30)	No	-

N.17 F1_MD_BI_TBL

The following table lists the columns that are newly added, modified, or dropped from the F1_MD_BI_TBL table:

Sr. No.	Column Name	Modification Type	Data Type in V4.4.0.3.0	Data Type in V4.5.0.0.0	Data Migration Required (Yes or No)	Column Value After Data Migration
1.	F1_BI_HIER_DEFN	Format Change	VARCHAR2(4000)	VARCHAR2(32000)	No	-

Appendix O : SQL Statements for 5.0.0.0 to 5.1.0.0.0 Data Migration

This section describes the following queries which are used for migrating data from Oracle Revenue Management and Billing Version 5.0.0.0 to 5.1.0.0.0:

- PostProcessingScript
- ASOPERFMigrationScript

O.1 PostProcessingScript.sql

The PostProcessingScript.sql query does the following:

- Moves the profitability, profit, profit variation, and revenue details from the C1_DEAL_APROF_HCY table to the newly introduced table named C1_DEAL_APROF_CRT_HCY
- Sets the SELF_APP_REQ field corresponding to the existing records in the C1_DEAL_APROF_HCY table to Y

It updates the following column values of the records in the respective table:

Table Name	Column Name	Column Value After Data Migration
C1_DEAL_APROF_C RT_HCY	DEAL_APPR_PROF_CD	The column value is set to the value stored in the DEAL_APPR_PROF_CD column corresponding to the record in the C1_DEAL_APROF_HCY table.
	SEQNO	The column value is set to the value stored in the SEQNO column corresponding to the record in the C1_DEAL_APROF_HCY table.
	CRITERIA_SEQ_NO	The column value is set to 10 .
	PROFITABILITY_TYPE	If the data is present in the MIN_PROFIT_PERCENT and MAX_PROFIT_PERCENT columns of the C1_DEAL_APROF_HCY table, the column value is set to PERC corresponding to the record in the C1_DEAL_APROF_CRT_HCY table. However, if the data is not present in the MIN_PROFIT_PERCENT and MAX_PROFIT_PERCENT columns of the C1_DEAL_APROF_HCY table, the column value is set to FLAT corresponding to the record in the C1_DEAL_APROF_CRT_HCY table.
	MINIMUM_PROFIT	The column value is set to the value stored in the MIN_PROFIT_PERCENT or MIN_PROFIT_AMOUNT column (whichever is present) corresponding to the record in the C1_DEAL_APROF_HCY table.

Table Name	Column Name	Column Value After Data Migration
	MAXIMUM_PROFIT	The column value is set to the value stored in the MAX_PROFIT_PERCENT or MAX_PROFIT_AMOUNT column (whichever is present) corresponding to the record in the C1_DEAL_APROF_HCY table.
	VARIATION_TYPE	If the data is present in the MIN_DEVIATION_PERCENT and MAX_DEVIATION_PERCENT columns of the C1_DEAL_APROF_HCY table, the column value is set to PERC corresponding to the record in the C1_DEAL_APROF_CRT_HCY table. However, if the data is not present in the MIN_DEVIATION_PERCENT and MAX_DEVIATION_PERCENT columns of the C1_DEAL_APROF_HCY table, the column value is set to FLAT corresponding to the record in the C1_DEAL_APROF_CRT_HCY table.
	MINIMUM_VARIATIO N	The column value is set to the value stored in the MIN_DEVIATION_PERCENT or MIN_DEVIATION_AMOUNT column (whichever is present) corresponding to the record in the C1_DEAL_APROF_HCY table.
	MAXIMUM_VARIATIO N	The column value is set to the value stored in the MAX_DEVIATION_PERCENT or MAX_DEVIATION_AMOUNT column (whichever is present) corresponding to the record in the C1_DEAL_APROF_HCY table.
	MINIMUM_REVENUE	The column value is set to the value stored in the MINIMUM_REVENUE column corresponding to the record in the C1_DEAL_APROF_HCY table.
	MAXIMUM_REVENUE	The column value is set to the value stored in the MAXIMUM_REVENUE column corresponding to the record in the C1_DEAL_APROF_HCY table.
	OPERATOR_NAME	The column value is set to AND .
C1_DEAL_APROF_H CY	SELF_APP_REQ	The column value is set to Y .

O.2 ASOPERFMigrationScript.sql

The ASOPERFMigrationScript.sql query sets the values for the newly introduced columns in the CI_TXN_CALC_ACCUM_GRP and CI_TXN_CALC tables.

lt	updates the	following colu	mn values of the	e records in the	respective table:
•••					

Table Name	Column Name	Column Value After Data Migration
CI_TXN_CALC_ACCUM_ GRP	ACCT_ID	If the reseeding or disaggregation is not done for an account, the column value is set to the value stored in the ACCT_ID column corresponding to the record in the CI_TXN_DTL_PRITM table. However, if the reseeding or disaggregation is done for an account, the column value is set to the value stored in the ACCT_ID column corresponding to the record in the CI_TXN_CALC table.
CI_TXN_CALC	RESEED_SW	If the transaction calculation ID does not exist for the corresponding record in the CI_TXN_DTL_PRITM table, the column value is set to Y .