

Product Release Note
Oracle FLEXCUBE Enterprise Limits and Collateral
Management
Release 14.2.0.0.0
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Version 14.2.0.0.0

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1. Release Notes

1.1 Background

Oracle FLEXCUBE Enterprise Limits and Collateral Management is an enterprise application that enables banks to manage their exposure by centralizing limits definition process and collateral management, and effectively managing the underlying documentation. It is a real-time, solution for exposure tracking, credit facility creation and renewal, collateral pooling and collateral valuation and is enabled for multi-currency, multi-entity, multi-instance operations. Built on SOA, Oracle FLEXCUBE Enterprise Limits and Collateral Management offers strong integration capability to coexist with the existing application landscape.

Oracle FLEXCUBE Enterprise Limits and Collateral Management 14.2.0.0.0 is enhanced on the Base Version of Oracle FLEXCUBE Enterprise Limits and Collateral Management 14.1.0.0.0.

1.2 Purpose

The purpose of this Release Note is to highlight the enhancements in Oracle FLEXCUBE Enterprise Limits and Collateral Management 14.2.0.0.0

1.3 Abbreviations

Abbreviation	Description
API	Application Programming Interface
BD	Book Dated
BIP	Business Intelligence Publisher
BOD	Beginning Of Day
BPEL	Business Process Execution Language
BPMN	Business Process Management and Notation
CO	Core Services
CPG	Common Payment Gateway
EJB	Enterprise Java Beans
ELCM	Oracle FLEXCUBE Enterprise Limits and Collateral Management
EOD	End of Day
FX	Foreign Exchange
LM	Limits and Collaterals
FCUBS	Oracle FLEXCUBE Universal Banking
FCY	Foreign Currency
IE	Internet Explorer
JDBC	Java Database Connectivity
JPA	Java Persistence API
OBCL	Oracle Banking Corporate Lending
OD	Over Draft
ODT	Oracle Development Tool
OFSA	Oracle Financial Services Analytical Applications
OR	Origination
ReST	REpresentational State Transfer
SMS	Secure Management System
SSO	Single Sign On

SQLJ	A SQLJ program is a Java program containing embedded SQL statements.
UCM	Universal Content Management
UI	User Interface
VD	Value Dated

For module code and description details, please refer Annexure C.

1.4 Release Highlights

The scope of the current release Oracle FLEXCUBE Enterprise Limits and Collateral Management 14.2.0.0.0 is mainly focused following enhancements:

- FEES
 - Advance fee functionality introduced and additional features in arrears fee incorporated.
- Contingent Entries & Derived amount tags
 - Additional amount tags for configuring contingent accounting entries introduced. New derived amount tags for reckoning VDBAL and BDBAL are made available in this release.
- Accounting Handoff
 - Feature of handoff of contingent and fees related accounting entries to host application like FCUBS using scheduler introduced.
- FX Rate Revaluation
 - Provision to fix the exchange rate for cross currency facility utilizations and reevaluate these facilities only on specific dates based on rate fixing days and frequency.
- ELCM – OFSSA Integration
 - ELCM OFSSA extracts provided.
- ReST Services
 - System enhanced to provide framework for ReST services.
- Scheduler based batch jobs
 - ELCM Batch jobs can now be configured using Quartz scheduler.
- Support for Multi-tenant using Oracle 18c Application container feature
 - This feature is used to deploy multi-tenant environment in Oracle FLEXCUBE Enterprise Limits and Collateral Management.

1.5 Enhancements to the Existing Modules

1.5.1 Fees

Arrears Fee

Arrears fees functionality enhanced with the following features

- Holiday processing to support fee liquidation
- Liquidation modes can be auto or manual
- User input fee type
- Fee amount calculated is per liquidation cycle

Advance Fee

Advance fee functionality introduced with the following features.

- Immediate liquidation of advance fee at the time facility creation
- Accrual of fees
- Fee can also be made effective from a future date.
- Rate, amount and user input types of fees are supported.
- Liquidation cycle can be scheduled based on a given date.
- Support for different frequencies for accrual/liquidation.
- Liquidation modes can auto or manual.
- New event introduced to handle differential fee calculation
- Fee amount calculated is per liquidation cycle.
- Holiday processing support for fee liquidation.

Derived Amount Tags

The following derived amount tags introduced which can be used in contingent entries configuration.

- FINAL_LIMIT_AMT
- FINAL_LIMIT_AMT_INCR
- FINAL_LIMIT_AMT_DECR
- UNAVAIL_AMT_INCR
- UNAVAIL_AMT_DECR

Derived VD Tags

The following derived VD tags are introduced.

- UNUTIL_AMT_1
- FINAL_LMT
- UTL_AMT_2
- UNUTIL_AMT_2
- OVERLINE_AMT_1
- OVERLINE_AMT_2

Derived BD tags

The following derived BD tags are introduced.

- BD_UNUTIL_AMT_1
- BD_FINAL_LMT
- BD_UTL_AMT_2
- BD_UNUTIL_AMT_2
- BD_OVERLINE_AMT_1
- BD_OVERLINE_AMT_2

1.5.2 Accounting Handoff Changes

Contingent accounting entries and fee related accounting entries can be handed over to core application like FCUBS wherein these accounts are maintained for posting, using scheduler batch process.

1.5.3 FX Rate Revaluation

Provision to fix the exchange rate for cross currency facility utilizations and revalue these facilities only on specific dates based on rate fixing days and frequency

- Provision to fix rate for given Product, Module and Currency combination.
- Rate maintained as a derived rate based on specific Rate type, Rate indicators and Rate fixing days, or as fixed rate.
- Revaluation on these currencies is based on frequency and holiday preferences captured.

1.5.4 ReST service

Oracle FLEXCUBE Enterprise Limits and Collateral Management adopted the industry standard of providing light-weight services through Representational State Transfer (popularly known as ReST) services. These lightweight services support the current trend of API based applications

System enhanced to provide framework for a list of light-weight services, additional services can be developed by the bank using the ODT tool available with ELCM.

Get and Post operations are available on the below mentioned ReST services

- BATCHSERVICE – Batch execution can be triggered.
- BLOCKSERVICE –Service to block, Facility, Collateral and Pool
- COLLCATEGORYSERVICE –Service to maintain Collateral Category.
- COLLTERALSERVICE - Service to maintain Collaterals
- COLLTERALTYPESERVICE - Service to maintain Collateral types .
- COVENANTSERVICE - Service to maintain Covenants
- CREDITAGENCYSERVICE- Service to maintain Credit Agencies
- CREDITSCORESERVICE- Service to maintain Credit Scores
- CUSTLIABSERVICE-Service to maintain Customer Liability linkages.
- EXPOSUREBLOCKSERVICE- Service to block exposures.

- EXPOSURESERVICE- Service to maintain exposures.
- FACILITYBLOCKSERVICE- Service to block facilities.
- FACILITYSERVICE- Service to maintain Facilities.
- INSURANCECOMPANYSERVICE- Service to maintain Insurance Companies.
- INSURANCETYPESERVICE- Service to maintain Insurance type.
- ISSUERSERVICE- Service to maintain Issuers.
- LIABILITYSERVICE- Service to maintain Liabilities.
- POOLSERVICE- Service to maintain Collateral pool.
- SECTORINDUSTRYSERVICE- Service to maintain sectors and industries.
- SECURITYSERVICE- Service to maintain Securities.
- UTILIZATIONSERVICE- Service for Utilization of Facility, Collateral,Pool and Liability.

1.5.5 ELCM-OFSSA Integration

ELCM OFSSA extracts provided. The transfer of data from ELCM to OFSSA is performed through Data Integration Hub (DIH) connector. Extracts provided for Parameters, maintenances, error logs and Collateral, Issuer and Security related maintenances.

1.5.6 Scheduler Jobs

ELCM Batch jobs can now be configured using Quartz scheduler. Batch jobs can also be integrated with third party scheduler with minimal configuration changes.

1.5.7 Support for Multi-tenant using Oracle 18c Application container feature

Container Database/Application Container feature of Oracle (18C) facilitates multi-tenant architecture with support for sharing of application/code and data. This feature is used to deploy multi-tenant environment in Oracle FLEXCUBE Enterprise Limits and Collateral Management.

Four deployment modes are available under this feature

- Shared Application – In this deployment mode only the application would be shared among tenants
- Shared Application with Authentication – In this deployment mode, application as well as user authentication would be shared among tenants
- Shared Application with Shared Data (Default) – In this mode, application, user authentication and reference data like country, currency, product would be shared among tenants
- Shared Application with Shared Data –(Custom) – This is an extension of default option with a choice during installation to remove some of the entities from being shared

Maintenance screens in ELCM that are enabled for APPROOT deployment are as below.

FUNCTION ID	DESCRIPTION
GCDCOLTY	Collateral Types Maintenance
GCDINSTY	Insurance Type Details
GCDSECMT	Sector - Industry Maintenance
GEDAMTAG	Amount Tag Maintenance
GEDCATGY	Category Maintenance
GEDEXPTY	Exposure Type Maintenance
GEDGROUP	Group Maintenance
GEDHCUTT	Haircut Maintenance
GEDLOCCD	Location Maintenance
GEDRESTY	Restriction Maintenance
GEDTYPES	Static Type Maintenance
GEDPROD	Product Maintenance
GEDUIDN	Unique Identifier Maintenance

2. Components of the Software

2.1 Documents accompanying the software

The various documents accompanying the software are as follows:

- Release Note
- Installer Kit

Note: User Manuals and Installation Guide can be accessed from

http://docs.oracle.com/cd/E99952_01/index.htm

2.2 Software Components

Software Components of Oracle FLEXCUBE 14.2.0.0.0 that form part of this release are as follows:

- Host
 - UI Components (JS,XML)
 - Stored Procedures (Packages, Functions, Procedures, Triggers, Views)
 - Reporting Components(Data models(xdm), Reports(xdo and rtf))
 - Process Framework components (BPEL)
- New UI Application Server
 - Java Sources
 - Configuration files used for deployment
- Interface
 - ASCII interface sources
 - Stored Procedures (Packages, Functions, Procedures, Triggers, Views)
- Gateway
- Java application layer
 - Java sources
 - Configuration files used for deployment
 - Messaging layer
 - Stored Procedures (Packages, Functions, Procedures, Triggers, Views)
- Installation utilities
 - Front end based installation for host
 - Front end based installation for Gateway backend
 - Installation documents for
 - Oracle FLEXCUBE Installer documents
 - Gateway
- SMS Related Components
- Reports

- Stored Procedures (Packages, Functions, Procedures, Views)
- Repositories and pre-defined Reports
- Online Help Files

3. Annexure – A: Environment Details

3.1 Tech Stack – Oracle

Component/Deployment option	Machine	Operating System	Software	Version
Oracle FLEXCUBE Enterprise Limits and Collateral Management Integration Gateway - Stand Alone	Application Server	Oracle Enterprise Linux Server 7.3 (x86 64 Bit)	Oracle Fusion Middleware Infrastructure	12.2.1.3.0
			Java HotSpot(TM) JDK (with WebLogic Application Server)	JDK 1.8 Update 181
			Open Symphony Quartz	2.3.1 -9f9e400
			Oracle Toplink	12.2.1.3.0
	Document Management System	Oracle Enterprise Linux Server 7.3 (x86 64 Bit)	Oracle WebLogic	12.2.1.3.0
			JDK	JDK 1.8 Update 181
			Oracle Database (for RCU)	18.3.0.0.0
			Repository Creation Utility	12.2.1.3.0
			Oracle WebCenter Content Imaging	12.2.1.3.0
	Database Server	Oracle Enterprise Linux Server 7.3 (x86 64 Bit)	Oracle RDBMS Enterprise Edition	18.3.0.0.0
	Reporting Server	Oracle Enterprise Linux Server 7.3 (x86 64 Bit)	Oracle WebLogic	12.2.1.3.0
			JDK	JDK 1.8 Update 181
			Oracle Database (for RCU)	18.3.0.0.0
			Repository Creation Utility	12.2.1.4.0
			Oracle BI Publisher	12.2.1.4.0
	FLEXCUBE Information Server	Oracle Enterprise Linux Server 7.3 (x86 64 Bit)	Oracle WebLogic	12.2.1.3.0
			JDK	JDK 1.8 Update 181
			Oracle Database (for RCU)	18.3.0.0.0
			Repository Creation Utility	12.2.1.4.0
			Oracle Business Intelligence Enterprise Edition (OBIEE)	12.2.1.4.0
Client Machines	Windows 7	Microsoft Internet Explorer	11.*	

			Mozilla Firefox	62.*	
			Google Chrome	69.*	
			Windows 8	Microsoft Internet Explorer	11.*
				Mozilla Firefox	62.*
			Windows 10	Google Chrome	69.*
				Microsoft Edge	40.*
		Mac OS X	Mozilla Firefox	62.*	
			Google Chrome	69.*	
			Safari	11.*	
		Single Sign On Server	Oracle Enterprise Linux Server 7.3 (x86 64 Bit)	JDK	JDK 1.8 Update 181
				Oracle WebLogic	12.2.1.3.0
				Repository Creation Utility	12.2.1.3.0
				Oracle Identity Management (OID)	12.2.1.3.0
Oracle SOA	12.2.1.3.0				
Oracle Identity And Access Management	12.2.1.3.0				
Oracle Webtier Utilities	12.2.1.3.0				
Oracle Webgate	12.2.1.3.0				
OID Connector	12.2.1.3.0				
Oracle FLEXCUBE Enterprise Limits and Collateral Management BPEL/BPMN Processes and Process Framework - Stand Alone	Application Server			Oracle Enterprise Linux Server 7.3 (x86 64 Bit)	JDK
		Oracle WebLogic Server	12.2.1.3.0		
		Oracle Repository Creation Utility (RCU) - To create SOA related schemas for BPEL	12.2.1.3.0		
		Oracle SOA Suite, Oracle BPM Suite	12.2.1.3.0		

Oracle FLEXCUBE Enterprise Limits and Collateral Management Integration Gateway 1. Web services (incoming) 2. HTTP Servlet (incoming) 3. EJB (incoming) 4. MDB (incoming) 5. Notifications (outgoing)	Integration Server	Oracle Enterprise Linux Server 7.3 (x86 64 Bit)	Oracle WebLogic Server	12.2.1.3.0
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3.2 Tech Stack – IBM

Component/Deployment option	Machine	Operating System	Software	Version	
Oracle FLEXCUBE Enterprise Limits and Collateral Management - Standalone	Application Server	Oracle Enterprise Linux Server 7.3 (x86 64 Bit)	IBM WebSphere Application Server with inbuilt JVM (IBM JDK 1.8_64)	9.0	
			IBM WebSphere MQ Server	9.0	
			Oracle Toplink	12.2.1.3.0	
			Open Symphony Quartz	2.3.1- 9f9e400	
			Oracle WebCenter Content: Imaging	12.2.1.3.0	
	Database Server	Oracle Enterprise Linux Server 7.3 (x86 64 Bit)	Oracle RDBMS Enterprise Edition	18.3.0.0.0	
	Client Machines	Windows 7		Microsoft Internet Explorer	11.*
				Mozilla Firefox	62.*
				Google Chrome	69.*
		Windows 8		Microsoft Internet Explorer	11.*
				Mozilla Firefox	62.*
				Google Chrome	69.*
		Windows 10		Microsoft Edge	40.*
				Mozilla Firefox	62.*
		Mac OS X		Google Chrome	69.*
Mozilla Firefox for Mac				62.*	
Safari	11.*				
			Google Chrome	69.*	

Oracle FLEXCUBE Enterprise Limits and Collateral Management Integration Gateway - Web services (incoming)	Integration Server	Oracle Enterprise Linux Server 7.3 (x86 64 Bit)	IBM WebSphere Application Server with inbuilt JVM (IBM JDK 1.8_64)	9.0
Oracle FLEXCUBE Enterprise Limits and Collateral Management Integration Gateway - HTTP Servlet (incoming)	Integration Server	Oracle Enterprise Linux Server 7.3 (x86 64 Bit)	IBM WebSphere Application Server with inbuilt JVM (IBM JDK 1.8_64)	9.0
Oracle FLEXCUBE Enterprise Limits and Collateral Management Integration Gateway - EJB (incoming)	Integration Server	Oracle Enterprise Linux Server 7.3 (x86 64 Bit)	IBM WebSphere Application Server with inbuilt JVM (IBM JDK 1.8_64)	9.0
Oracle FLEXCUBE Enterprise Limits and Collateral Management Integration Gateway - MDB (incoming)	Integration Server	Oracle Enterprise Linux Server 7.3 (x86 64 Bit)	IBM WebSphere Application Server with inbuilt JVM (IBM JDK 1.8_64)	9.0
			IBM WebSphere MQ Server	9.0
Oracle FLEXCUBE Enterprise Limits and Collateral Management Integration Gateway - Notifications (outgoing)	Integration Server	Oracle Enterprise Linux Server 7.3 (x86 64 Bit)	IBM WebSphere Application Server with inbuilt JVM (IBM JDK 1.8_64)	9.0
			IBM WebSphere MQ Server	9.0

4. Annexure – B: Third Party Software Details

For information on the third party software details, refer Oracle FLEXCUBE Enterprise Limits and Collateral Management 14.2.0.0.0 *License Guide*.

5. Annexure – C: Module Code and Description

Abbreviation/ Acronym	Meaning
CO (Core)	Oracle FLEXCUBE Core
SMS	Security Management System
EL	Enterprise Limit
GE	Global Exposure
GC	Global Collateral