Product Release Note
Oracle FLEXCUBE Enterprise Limits and Collateral
Management
Release 14.0.0.0.0
[November] [2017]

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FINANCIAL SERVICES

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Product Release Note
[November] [2017]
Version 14.0.0.0.0

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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 14.0.0.0.0 is enhanced on the Base Version of Oracle FLEXCUBE Enterprise Limits and Collateral Management 12.3.0.0.0.

1.2 Purpose

The purpose of this Release Note is to highlight the enhancements in Oracle FLEXCUBE Enterprise Limits and Collateral Management 14.0.0.0.0

1.3 Abbreviations

Abbreviation	Description
BC	Bills and Collection
BIP	Business Intelligence Publisher
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
LM	Limits and Collaterals
FCUBS	Oracle FLEXCUBE Universal Banking
FCY	Foreign Currency
IE	Internet Explorer
JDBC	Java Database Connectivity
JPA	Java Persistence API
LC	Letter of Credit
MM	Money Market
OBCL	Oracle Banking Corporate Lending
OD	Over Draft
ODT	Oracle Development Tool
OR	Origination
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

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

1.4 <u>Release Highlights</u>

The scope of the current release Oracle FLEXCUBE Enterprise Limits and Collateral Management 14.0 is mainly focused following enhancements:

- ELCM Integration with FCUBS and OBCL
- Value Date Based Fee Processing
- Enhancements in Facilities Maintenance
- Remediation for SQLJ in 12R2

1.4.1 <u>ELCM Integration with FCUBS and OBCL</u>

1.4.1.1 <u>Get LC Contract and Corporate Deposits to Link in Collateral</u>

In this release, ELAccountService is invoked to capture Term, LC, BC and MM contract details. During collateral creation we will be able to links these term deposits or contracts. Post linkage to apply block we will invoke the below web services based on the module.

1.4.1.2 <u>ELCM Standalone Integration with FCUBS and OBCL: Co Deployed</u>

In a co deployed system of UBS/OBCL and ELCM, the process flow between the systems happens through JPA layer. Gateway EJB bean will be invoked in the CO deployed system instead of the web service calls. Insulation layer will be calling the GatewayEJB of ELCM with same request xml.

1.4.1.3 <u>New Services for FCUBS Integration</u>

Interface between FCUBS or OBCL to ELCM supports two modes:

- ELCM with SYNC Mode
- ELCM with ASYNC Mode

In ELCM Sync mode, a new adapter layer is created in FCUBS /OBCL system to interact with ELCM through web services. Adapter layer prepares the request based on the service log entry and invokes the web service of ELCM for further processing

In Async mode during contract creation, if a limit request is created, FCUBS/OBCL logs the request to the service log tables, a job/scheduler will be processing these records from this table, creates a request xml and the send the request to ELCM for processing.

1.4.2 <u>Value Date Based Fee Processing</u>

System capability enhanced to have below points:

- The facility to store value dated balances for different balance types.

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- Configure rules, class, compute fees based on different value dated balances, accrue the fees, and liquidate the fees.
- Trigger contingent entries for limits

1.4.3 Enhancements in Facilities Maintenance

Facility provided in Enterprise Limits and Collateral Management to maintain value date at Facility level. According to the value date maintenance value dated balances for different balance types will be computed.

System capability enhanced to capture events and accounting entries triggered at facility level

1.4.4 Remediation for SQLJ in 12R2

SQLJ will no longer be supported in Oracle 12C R2 hence the SQLJ persistence components are converted to JDBC classes. A utility has been provided to convert SQLJ units to JDBC, this will be used to convert existing units.

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2. Components of the Software

2.1   <u>Documents accompanying the software</u>

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/E88409_01/index.htm

2.2   <u>Software Components</u>

Software Components of Oracle FLEXCUBE 14.0.0.0.0 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

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- ➢ 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

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3. Annexure – A: Environment Details

3.1 Tech Stack – Oracle

Component	Deployment option	Machine	Operating System	Software	Version	Remarks
Oracle FLEXCUBE Enterprise Limits and Collateral Management	Stand Alone	Application Server	Oracle Enterprise Linux Server 6.7 (x86 64 Bit)	Oracle Fusion Middleware Infrastructure	12.2.1.2.0	
				Java HotSpot(TM) JDK (with WebLogic Application Server)	JDK 1.8 Update 144	
				Open Symphony Quartz	2.3	
				Oracle Toplink	12.2.1.2.0	
				Oracle WebLogic	10.3.6	
				JDK	JDK 1.7 Update 141	
				Oracle Database (for RCU)	12.2.0.1.0 (R2)	
				Repository Creation Utility	11.1.1.9.0	
		Document Management System	Oracle Enterprise Linux Server 6.7 (x86 64 Bit)	Oracle WebCenter Content Imaging	11.1.1.9.0	
		Database Server	Oracle Enterprise Linux Server 6.7 (x86 64 Bit)	Oracle RDBMS Enterprise Edition	12.2.0.1.0 (R2)	

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			Oracle WebLogic	12.2.1.2.0	
Reporting Server	Oracle Enterprise Linux Server 6.7 (x86 64 Bit)		JDK	JDK 1.8 Update 144	
		Oracle Database (for RCU)	12.2.0.1.0 (R2)	
		Repository Creation Utility	12.2.1.2.0	
		Oracle BI Publisher	12.2.1.2.0	
FLEXCUBE Information Server	Oracle Enterprise Linux Server 6.7 (x86 64 Bit)		Oracle WebLogic	12.2.1.2.0	
		JDK	JDK 1.8 Update 144	
		Oracle Database (for RCU)	12.2.0.1.0 (R2)	
		Repository Creation Utility	12.2.1.2.0	
		Oracle Business Intelligence Enterprise Edition (OBIEE)	12.2.1.2.0	
Client Machines	Windows 7		Microsoft Internet Explorer	11.X	
		Mozilla Firefox	54+	
		Google Chrome	59+	
	Windows 8		Microsoft Internet Explorer	11.X	
		Mozilla Firefox	54+	
		Google Chrome	59+	
	Windows 10		Microsoft Edge	Microsoft Edge	
		Mozilla Firefox	54+	
		Google Chrome	59+	
	Mac OS X		Mozilla Firefox for Mac	54+	
		Safari	Safari 9.1.1	
		Google Chrome	59+	
Single Sign On Server	Oracle Enterprise Linux Server 6.7 (x86 64 Bit)		JDK	JDK 1.7 Update 141	
		Oracle WebLogic	10.3.6	
		Repository Creation Utility	11.1.1.9.0	
		Oracle Identity Management (OID)	11.1.2.3.0	
		Oracle SOA	11.1.1.9.0	

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				Oracle Identity And Access Management	11.1.2.3.0	
				Oracle Webtier Utilities	11.1.1.9.0	
				Oracle Webgate	11.1.2.3.0	
				OID Connector	OID 11.1.1.6.0	
Oracle FLEXCUBE Enterprise Limits and Collateral Management BPEL/BPMN Processes and Process Framework	Stand Alone	Application Server	Oracle Enterprise Linux Server 6.7 (x86 64 Bit)	JDK	1.8 Update 144	
				Oracle WebLogic Server	12.2.1.2.0	
				Oracle Repository Creation Utility (RCU) - To create SOA related schemas for BPEL	12.2.1.2.0	
				Oracle SOA Suite, Oracle BPM Suite	12.2.1.2.0	
Oracle FLEXCUBE Enterprise Limits and Collateral Management Integration Gateway	Web services (incoming) HTTP Servlet (incoming) EJB (incoming) MDB (incoming) Notifications (outgoing)	Integration Server	Oracle Enterprise Linux Server 6.7 (x86 64 Bit)	Oracle WebLogic Server	12.2.1.2.0	

3.2 Tech Stack – IBM

Deployment option	Machine	Operating System	Software	Version
Standalone	Application Server	Oracle Enterprise Linux Server 6.7 (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	12.2.1.2.0
			Open Symphony Quartz	2.3
			Oracle WebCenter Content: Imaging	11.1.1.9.0
	Database Server	Oracle Enterprise Linux Server 6.7 (x86 64 Bit)	Oracle RDBMS Enterprise Edition	12.2.0.1.0 (R2)
	Client Machines	Windows 7	Microsoft Internet Explorer	11.X
			Mozilla Firefox	54+
			Google Chrome	59+
		Windows 8	Microsoft Internet Explorer	11.X
			Mozilla Firefox	54+
			Google Chrome	59+
		Windows 10	Microsoft Edge	Microsoft Edge
			Mozilla Firefox	54+
			Google Chrome	59+
		Mac OS X	Mozilla Firefox for Mac	54+
			Safari	9.1.1
			Google Chrome	59+
Web services (incoming)	Integration Server	Oracle Enterprise Linux Server 6.7 (x86 64 Bit)	IBM WebSphere Application Server with inbuilt JVM (IBM JDK 1.8_64)	9.0
HTTP Servlet (incoming)	Integration Server	Oracle Enterprise Linux Server 6.7 (x86 64 Bit)	IBM WebSphere Application Server with inbuilt JVM (IBM JDK 1.8_64)	9.0
EJB (incoming)	Integration Server	Oracle Enterprise Linux Server 6.7 (x86 64 Bit)	IBM WebSphere Application Server with inbuilt JVM (IBM JDK 1.8_64)	9.0
MDB (incoming)	Integration Server	Oracle Enterprise Linux Server 6.7 (x86	IBM WebSphere Application Server with inbuilt JVM (IBM JDK 1.8_64)	9.0

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			IBM WebSphere MQ Server	9.0
		64 Bit)		
Notifications (outgoing)	Integration Server	Oracle Enterprise Linux Server 6.7 (x86 64 Bit)	IBM WebSphere Application Server with inbuilt JVM (IBM JDK 1.8_64)	9.0
			IBM WebSphere MQ Server	9.0

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4. Annexure – B: Third Party Software Details

Licensor Name	Licensed Technology	Version
Apache	Apache Commons Transaction 1.2	1.2
MetaStuff, Ltd.	Dom4j	1.6.1
Apache	xercesImpl.jar	2.11
Apache	xml-apis.jar	2.11.0
Sean Owen	PJL Compressing Filter	2.2.0
Apache	Apache XMLBeans	2.6.0
Apache	Xalan	2.7.2
Yahoo	YUI Compressor	2.4.8
Apache	XML Commons Resolver	1.2
Apache	commons-logging	1.2
The Apache Software Foundation	Serializer	2.7.2
Apache	Apache Commons Codec	1.1
Apache	Ant	1.10.1
Apache	Commons Net	3.6
Apache	commons-io	2.5
Apache	Log4J	2.8.2
Apache	Apache POI	3.16
Terracota	Quartz Job Scheduler	2.3
SLF4J	SLF4J Simple Logging Façade for Java (slf4j-api-1.7.25)	1.7.25
SLF4J	Simple Logging Façade for Java (SLF4J)	1.7.25

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5. Annexure – C: Module Code and Description

Abbreviation/ Acronym	Meaning
CO (Core)	Oracle FLEXCUBE Core
SMS	Security Management System
EL	Enterprise Limit

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