Product Release Note
Oracle FLEXCUBE Enterprise Limits and Collateral
Management
Release 14.1.0.0.0
[May] [2018]

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**Product Release Note**
**[May] [2018]**
**Version 14.1.0.0.0**

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# Table of Contents

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

## 1.2 Purpose

The purpose of this Release Note is to highlight the enhancements in Oracle FLEXCUBE Enterprise Limits and Collateral Management 14.1.0.0.0

## 1.3 Abbreviations

| Abbreviation | Description |
|---|---|
| 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 |
| 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 |
| OR | Origination |
| PII | Personally Identifiable Information |
| 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 |

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

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# 1.4 Release Highlights

The scope of the current release Oracle FLEXCUBE Enterprise Limits and Collateral Management 14.1 is mainly focused following enhancements:

- Enterprise Collateral Management-Enterprise Limits Management segregation
- Static type change to ELCM table
- Block support for all entities
- Tanking to be available for all entities
- Masking
- Granular Access
- Right to Be Forgotten

## 1.4.1 Enterprise Collateral Management-Enterprise Limits Management segregation

- All collateral related function IDs have been moved under new module code "GC". Hence, all existing collateral related function IDs have been renamed.

## 1.4.2 Static type change to ELCM table

- Static type maintenance were moved from mini core to ELCM. Hence all static maintenance related function IDs have been brought under GE module and function IDs are modified accordingly.

## 1.4.3 Block support for all entities

- Functionality added for blocking the funds for a Facility, Liability, Collateral and Collateral Pool. All the amount related validations, breach verifications are done during the block. During utilization, in case a block reference number has been provided, then the validations are skipped, corresponding block will be released and then utilized.

## 1.4.4 Tanking to be available for all entities

- Utilization of facility during batch execution in ELCM is tanked and during BOD stage, the tanked utilization is untanked. In this release, this functionality has been extended to Collateral, Pool, and Liability as well.

## 1.4.5 Masking

- Personally Identifiable Information (PII) in scoped function IDs are enhanced to display masked or unmasked values depending on the user definition
- Masking personally identifiable information is based on the policies created in database

## 1.4.6 Granular Access

- Customer and Customer Account maintenance, restricted to users based on the access group restriction attached at user level for the scoped function IDs
- User will not be able to query, view, create or amend data based on access group restriction

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### 1.4.7 <u>Right to Be Forgotten</u>

- Personally identifiable information of closed Users and Customers are permanently anonymized
- Once PII information is permanently anonymized corresponding Users and Customers cannot be queried from application
- Right to be forgotten will be processed based on the number of days to forget customer

# 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/E92997_01/index.htm

## 2.2 Software Components

Software Components of Oracle FLEXCUBE 14.1.0.0.0 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 | Remarks |
|---|---|---|---|---|---|
| | 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 171 | |
| | | | Open Symphony Quartz | 2.3.1 | |
| | | | Oracle Toplink | 12.2.1.3.0 | |
| | | | Oracle WebLogic | 12.2.1.3.0 | |
| | | | JDK | JDK 1.8 Update 171 | |
| | | | Oracle Database (for RCU) | 12.2.0.1.0 (R2) | |
| | | | Repository Creation Utility | 12.2.1.3.0 | |
| Oracle FLEXCUBE Enterprise Limits and Collateral Management - Stand Alone | Document Management System | Oracle Enterprise Linux Server 7.3 (x86 64 Bit) | Oracle WebCenter Content Imaging | 12.2.1.3.0 | As per SOD we are using Webcenter Content Imaging11.1.1.9.0 (Ref :https://support.oracle.com/epmos/faces/DocumentDisplay?_afrLoop=436533409718226&parent=WIDGET_RECENTLY_VIEWED&sourceId=&id=2064485.1&_afrWindowMode=0&_adf.ctrl-state=153v7g2erg_139) |

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| | | | | |
|---|---|---|---|---|
| Database Server | Oracle Enterprise Linux Server 7.3 (x86 64 Bit) | Oracle RDBMS Enterprise Edition | 12.2.0.1.0 (R2) | |
| Reporting Server | Oracle Enterprise Linux Server 7.3 (x86 64 Bit) | Oracle WebLogic | 12.2.1.3.0 | |
| | | JDK | JDK 1.8 Update 171 | |
| | | Oracle Database (for RCU) | 12.2.0.1.0 (R2) | |
| | | Repository Creation Utility | 12.2.1.3.0 | |
| | | Oracle BI Publisher | 12.2.1.3.0 | |
| FLEXCUBE Information Server | Oracle Enterprise Linux Server 7.3 (x86 64 Bit) | Oracle WebLogic | 12.2.1.3.0 | |
| | | JDK | JDK 1.8 Update 171 | |
| | | Oracle Database (for RCU) | 12.2.0.1.0 (R2) | |
| | | Repository Creation Utility | 12.2.1.3.0 | |
| | | Oracle Business Intelligence Enterprise Edition (OBIEE) | 12.2.1.3.0 | |
| Client Machines | Windows 7 | Microsoft Internet Explorer | 11.X | |
| | | Mozilla Firefox | 54+ | |
| | | Google Chrome | 60+ | |
| | Windows 8 | Microsoft Internet Explorer | 11.X | |
| | | Mozilla Firefox | 54+ | |
| | | Google Chrome | 60+ | |
| | Windows 10 | Microsoft Edge | Microsoft Edge | |
| | | Mozilla Firefox | 54+ | |
| | | Google Chrome | 60+ | |
| | Mac OS X | Mozilla Firefox for Mac | 54+ | |
| | | Safari | Safari 9.1.1 | |
| | | Google Chrome | 60+ | |

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| | | | JDK | JDK 1.8 Update 171 | |
|---|---|---|---|---|---|
| | | | 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 Enterprise Linux Server 7.3 (x86 64 Bit) | Oracle Webgate | 12.2.1.3.0 | |
| | Single Sign On Server | | OID Connector | 12.2.1.3.0 | 11.1.1.6.0 ( Bundled within Oracle Identity and Access Management 11.1.2.3.0 ) |
| 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 | 1.8 Update 171 | |
| | | | 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. Gateway EJB (incoming) 4. Gateway MDB (incoming) 5. Notifications (outgoing) | Integration Server | Oracle Enterprise Linux Server 7.3 (x86 64 Bit) | Oracle WebLogic Server | 12.2.1.3.0 | |

## 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 |
| | | | Oracle WebCenter Content: Imaging | 12.2.1.3.0 |
| | Database Server | Oracle Enterprise Linux Server 7.3 (x86 64 Bit) | Oracle RDBMS Enterprise Edition | 12.2.0.1.0 (R2) |

| | | | Microsoft Internet Explorer | 11.X |
|---|---|---|---|---|
| | | | Mozilla Firefox | 54+ |
| | | Windows 7 | Google Chrome | 60+ |
| | | | Microsoft Internet Explorer | 11.X |
| | | | Mozilla Firefox | 54+ |
| | | Windows 8 | Google Chrome | 60+ |
| | | | Microsoft Edge | Microsoft Edge |
| | | Windows 10 | Mozilla Firefox | 54+ |
| | | | Google Chrome | 60+ |
| | | | Mozilla Firefox for Mac | 54+ |
| | | | Safari | 9.1.1 |
| | Client Machines | Mac OS X | Google Chrome | 60+ |
| 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

| Licensor Name | Licensed Technology | Version |
|---|---|---|
| Sean Owen | PJL Compressing Filter (ZipLet) | 2.3.0 |
| Apache | commons-logging | 1.2 |
| Apache | Apache Commons Codec | 1.11 |
| Apache | Commons Net | 3.6 |
| Apache | commons-io | 2.6 |
| Apache | Ant | 1.10.1 |
| Apache | Apache POI | 3.17 |
| QOS.ch | Simple Logging Façade for Java (SLF4J) | 1.7.25 |
| Terracota | Quartz Job Scheduler | 2.3.1 |
| Apache | Log4J | 2.10.0 |
| Apache | Apache Commons Transaction 1.2 | 1.2 |
| Yahoo | YUI Compressor | 2.4.8 |
| Apache | Commons Collections | 4.1 |

# 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 |