

Product Release Note
Oracle FLEXCUBE Universal Banking
Release 11.83.03.0.0
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Version 11.83.03.0.0

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TABLE OF CONTENTS

- 1. RELEASE NOTES 1-1**
 - 1.1 BACKGROUND 1-1
 - 1.2 PURPOSE..... 1-1
 - 1.3 ABBREVIATIONS 1-1
 - 1.4 RELEASE HIGHLIGHTS 1-2
 - 1.5 REGULARIZED FUNCTIONAL ENHANCEMENTS..... 1-2
 - 1.5.1 *Consumer Lending Changes*..... 1-2
 - 1.5.2 *ELCM Changes*..... 1-3
 - 1.5.3 *Technical Qualification Changes* 1-4
- 2. COMPONENTS OF THE SOFTWARE 2-5**
 - 2.1 DOCUMENTS ACCOMPANYING THE SOFTWARE 2-5
 - 2.2 SOFTWARE COMPONENTS 2-5
- 3. ANNEXURE – A: TECH STACK FOR RELEASE..... 3-1**
- 4. ANNEXURE – B: THIRD PARTY SOFTWARE DETAILS..... 4-3**
- 5. ANNEXURE – C: MODULE CODE AND DESCRIPTION 5-4**

1. Release Notes

1.1 Background

Oracle Financial Services Software Limited has developed Oracle FLEXCUBE Universal Banking to enable banks to create a distributed network of branches for effective marketing and efficient handling of customer transactions. Oracle FLEXCUBE Universal Banking is a real-time online solution, enabled for multi-currency, multilingual, multi-entity, multi-instance operations. Its mission-critical and robust architecture and use of leading-edge industry standard products ensure almost limitless scalability.

1.2 Purpose

The purpose of this Release Note is to highlight the enhancements in Oracle FLEXCUBE Universal Banking 11.83.03.0.0 release for LATAM region.

1.3 Abbreviations

Abbreviation	Description
UDE	User defined Elements
BIP	Business Intelligence Publisher
ELCM	Oracle FLEXCUBE Enterprise Limits and Collateral Management
EOD	End of Day
FCY	Foreign Currency
IE	Internet Explorer
ODT	Oracle Development Tool
SSO	Single Sign On
UCM	Universal Content Management
SDE	System defined Elements
UI	User Interface
MLIQ	Manual Liquidation
OBIEE	Oracle Business Intelligence Enterprise Edition
GMF	Gravamen a los Movimientos Financieros
IVA	Impuesto Sobre El Valor Añadido (The Value Added Tax)
VAMI	Value dated amendment initiation
FNG	National Collateral
BMS	Bank Management System

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

1.4 Release Highlights

Oracle FLEXCUBE Universal Banking 11.83.03.0.0 is a consolidated release to regularize enhancements done for LATAM region. Highlights of the release are below.

- Regularization of consumer lending related changes from LATAM Cluster.
- Regularization of ELCM changes related to Collateral, Limit line Definition & Classification.
- Qualify on latest red stack applications (i.e. latest versions of DB, Java, BIP, OBIEE etc.).
- Retrofit of security fixes related to incidences reported in other releases

1.5 Regularized Functional Enhancements

1.5.1 Consumer Lending Changes

1.5.1.1 Customer Agreement and Loan Account changes

- System enhanced to maintain loan agreement wherein required provisions and conditions of an agreement can be recorded, so that these details are used in loan account creation
- System enhanced to provide following provisions at loan account changes :
 - Refinancing - Provision to cancel an existing loan of the customer, which was sanctioned under the same agreement, by disbursing a new loan.
 - Provision to associate a loan account with an agreement
- Bulk disbursement details can be captured with multimode settlements using a new user interface

1.5.1.2 Loan account changes to support two different interest modalities

- System enhanced for creation of a single loan with two interest modalities as,
 - 'Discounted' in the Initial Period,
 - 'Bearing' in the final period
- The Discounted loan will be rolled over to Bearing loan if the Discounted loan is not liquidated on its maturity date
- Final maturity date and payment date are considered for refund amount calculations when transactions hit the customer account or deposit account or loan account.

1.5.1.3 Changes to handle Cierre

System is enhanced to prevent the schedules of a Loan account from becoming overdue when the difference between amount due and amount settled is considerably small, based on configured data at product level.

1.5.1.4 Gastos (Insurance)

- System enhanced to stop calculating the insurance for goods/vehicle/unemployment type of insurances based on the parameterized number of overdue days defined in the product.
- System enhanced to progressively build post maturity insurance premium based on configuration.
- System enhanced to track recoveries in respect of FNG payment where it is supposed to be recovered out of payment from customers.

1.5.1.5 Penalty Interest

- System enhanced to trigger penal calculation on the overdue of single or multiple components based on the product parameter.
- Penal calculation is enhanced to add the previous day penal amount to the base amount for the next day's calculation, if the customer is not paying the dues on the due date. This helps in reducing the bad loans portfolio for the banks.

1.5.1.6 Payments

System enhanced to achieve the following

- Query for payment balances
- Validations based on channels for payment, settlement modes and status of current accounts and savings accounts.

- Advance instalment payment.
- Logic of re-computation basis 'reduce tenor'/'change instalment' extended to bearing loans as well which is currently restricted to amortized loans.
- Grouping of charge components during allocation of payment
- New user interfaces introduced for indirect payment and for application of indirect payments in bulk.

1.5.1.7 Discounted Schedule Components

System enhanced to support discounted tenor and discounted with schedules type of insurances, where by allowing refund of discounted life insurance on prepayment yielding to closure of loan and refund discounted interest on excess payment is supported

1.5.1.8 Special Concepts (Repayment Schedule Generation)

System enhanced to generate Schedules of loan account based on the combination of product level parameters – Fixed Due Date, Working Day and Minimum Days for First Schedule.

1.5.1.9 Special Conditions

- System enhanced to capture special condition codes along with the list of events restricted and collection agency assigned, in case of Judicial Type condition.
- System enhanced
 - To block credit facilities of customers so as to prevent them from performing transactions like booking a new loan, Disbursement of loan and Amendment of loan.
 - To capture the number of overdue days after which an overdue account is reported to the Bank's BMS system.

1.5.1.10 Accounting Logic

- Accounting logic is enhanced to achieve dynamic resolution of accounting heads by introducing new SDEs and UDFs to define RTH rules.
- System enhanced to trigger accrual only on schedule Start date, based on the new product component parameter.

1.5.1.11 Fomento (Refinanced) Loans

System enhanced to support Fomento Loans, wherein for each loan request by customer, system generates two loans linked to one another. One corresponds to the loan that the Bank gives to the customer (Asset Loan) and the other corresponds to the loan that the financing entity (FE) grants to the bank (Liability Loan).

1.5.1.12 ControlDeTasa (Rate Control):

- System enhanced to enable the bank to maintain maximum remuneratory rate and Usura Rate (the maximum limit with which an individual or a financial entity can bill interests on a loan) at product class level, and control the interest rate during the life cycle of a loan.
- Introduced concept of 'economic destination', which along with the mapped product class, decides the various control rates applicable to a loan based on the 'economic destination' in loan account.

1.5.1.13 Conversion De Tasa (Rate Conversion):

- System enhanced to capture/maintain rates with certain characteristics but calculate interest using different characteristics of the same rate which is often decided at contract level.
- System will generate an alert for rate codes that are nearing expiry date based on the defined validity period for a given rate code
- Bank will be able to define rounding preference for interest rates and express penalty interest rate as annual daily rate

1.5.2 ELCM Changes

1.5.2.1 Limit line Definition and Classification

System enhanced to support the following functionality w.r.t Limits:

- Sharing of a limit line by multiple customers where one limit line can have multiple beneficiaries who do not share common liability number also. Support for temporary increase or decrease of limit amount is provided.
- Facility to allow/disallow single or multiple products to limit lines
- Automatic generation of limit line number
- Classification of Limit lines into different types like Indebtedness level, Specific limits and Restrictions.

1.5.2.2 Collateral Creation, Modification and Cancellation

- System enhanced to make banks to maintain different types of collaterals and associate them for a loan during loan creation or loan amendment
- System enhanced to achieve the following functionalities w.r.t to collaterals
 - Collateral association during hold/ active loan creation and loan account amendment before or after the disbursement
 - Manual collateral disassociation through loan account amendment operation.
 - Bank will be able to associate collateral to loan accounts from external applications and collateral utilization will be collateral contribution percentage of principal amount.
 - Bank will be able to achieve collateral accounting.
 - Bank will be able to achieve collateral appraisal through FLEXCUBE Collateral revaluation functionality which is enhanced to support variations such as depreciation.
 - Bank will be able to do capture special collateral recovery and claim details.
 - Bank will be able to do collateral query and collateral accounting handoff to people soft system.

1.5.3 Technical Qualification Changes

- Qualification of the Installer, ODT with LATAM Cluster
- 12c Database (12.1.0.2.0) qualification and 12c changes related to column data type conversion from long to CLOB and usage of dbms_scheduler instead of dbms_job.
- BIP Reports, OBIEE Repositories Qualification with 12c
- Upgrade to latest tech stack like Weblogic 12.2.1.1 with JDK upgrade to 1.8 u111
- IE11 Compatibility Changes

2. Components of the Software

2.1 Documents accompanying the software

The various documents accompanying the software are as follows:

Release Note

Installer Kit

User Manuals and Installation manuals - These can be accessed from the link

https://docs.oracle.com/cd/E80246_01/homepage.htm

2.2 Software Components

Software Components for Oracle FLEXCUBE Universal Banking 11.83.03.0.0 that form part of this release are as follows:

- Host
 - New UI Components (JS,XML)
 - Stored Procedures (Packages, Functions, Procedures, Triggers, Views)
- New UI Application Server
 - Java Sources
 - Config files used for deployment
- Branch
 - Stored Procedures (packages, functions, Procedures, Triggers, Views)
 - UI Components (JS,XML)
 - Java sources
- Gateway
 - Java application layer
 - Java sources
 - Configuration files used for deployment
 - Messaging layer
 - Stored Procedures (Packages, Functions, Procedures, Triggers, Views)
 - Services
 - The WSDL files for the service supported
 - The XSDs of the messages involved
 - The service documents – describing the services
- Conversion Utilities
- Installation utilities
 - Front end based installation for host
 - Front end based installation for branch database
 - Front end based installation for branch front end
 - Front end based installation for Gateway backed
 - Installation documents for
 - FCUBS Installer documents
 - OBIEE deployment
 - BIP
 - OIM,OAM
 - Gateway
 - Switch Interface
 - Switch Simulator
- SMS Related Components
- Backend Scripts and Procedures
- Help Files

3. Annexure – A: Tech stack for release

Component	Deployment option	Machine	Operating System	Software	Version
Oracle FLEXCUBE Universal Banking	UI-Host and centralized	Application server	Oracle Enterprise Linux Server 6.6 (x86 64 Bit)	Oracle WebLogic Server	12.2.1.1.0
				Java HotSpot(TM) JDK (with WebLogic Application Server)	JDK 1.8 Update 111
				Open Symphony Quartz	2.2.3
				Oracle WebCenter Content: Imaging	11.1.1.9.0
				Oracle 12c RDBMS Enterprise Edition	12.1.0.2.0
				Oracle BI Publisher 12c	12.2.1.1
		Oracle Business Intelligence Enterprise Edition 12c(OBIEE)	12.2.1.1.0		
		#Client Machines	#Supported Browsers	Internet Explorer	11.*
				Mozilla Firefox	Mozilla Firefox Release(44+)
				Google Chrome	Google Chrome Release(48+)
Oracle FLEXCUBE Universal Banking	UI-Host and centralized	Single Sign On Server	Oracle Enterprise Linux Server 6.6 (x86 64 Bit)	JDK 1.7	JDK 1.7 Update 99
				Oracle WebLogic Server 11g	10.3.6
Oracle FLEXCUBE Universal Banking	UI-Host and centralized	Single Sign On Server	Oracle Enterprise Linux Server 6.6 (x86 64 Bit)	Repository Creation Utility	11.1.1.9.0
				Oracle Identity Manager	11.1.2.3.0
				Oracle SOA	11.1.1.9.0
				Oracle Access Manager	11.1.2.3.0
				Oracle Webtier Utilities	11.1.1.9.0
				Oracle Webgate	11.1.2.3.0

Component	Deployment option	Machine	Operating System	Software	Version
				OID Connector	OID 11.1.1.6.0
	UI Decentralized branch	Database Branch for Decentralized mode	Oracle Enterprise Linux Server 6.6 (x86 64 Bit)	Oracle 12c RDBMS Enterprise Edition	12.1.0.2.0
Oracle FLEXCUBE Universal Banking Integration Gateway	Web services (incoming)	Integration Server	Oracle Enterprise Linux Server 6.6 (x86 64 Bit)	Oracle WebLogic Server 12c (JDK 1.8 Update 111)	12.2.1.1.0
	HTTP Servlet (incoming)				
	EJB (incoming)				
	MDB (incoming)	Integration Server		Oracle WebLogic Server 12c (JDK 1.8 Update111)	12.2.1.1.0
	Notifications (outgoing)	Integration Server		Oracle WebLogic Server 12c (JDK 1.8 Update111)	12.2.1.1.0
Oracle FLEXCUBE Universal Banking Switch Integration Gateway	Switch Integration Gateway	Integration Server	JDK 1.8	JDK 1.8 Update 111	
			Apache Ant	1.9.7	

Browser support is no longer based on Operating Systems but strictly tied to the browser themselves, no matter which Operating Systems they are installed on. Current release is certified on client workstations with Windows 7, 8, 10.

4. Annexure – B: Third Party Software Details

Licensor Name	Licensed Technology	Version
Apache	Log4J	2.6.2
Apache	serializer-2.7.2.jar	2.7.2
Apache	Apache Commons Net	3.5
Apache	Apache Commons Transaction 1.2	1.2
Apache	commons-io-2.5.jar	2.5
Apache	Commons Codec	1.10
The Apache Software Foundation	Apache Commons Logging	1.2
OpenSymphony	Quartz Enterprise Job Scheduler (quartz-all-2.2.3.jar)	2.2.3
Apache	Xalan	2.7.2
Apache	xercesImpl.jar	2.11
Apache	xml-apis.jar	2.11.0
Apache	Ant	1.9.7
Oracle	Java Transaction API (jta.jar)	1.1
Apache	Commons FileUpload	1.3.2
Apache	Apache HttpComponents HttpClient	4.5.2
Apache	Apache POI	3.15

5. Annexure – C: Module Code and Description

Module Code	Module Description
AM	Asset Management
BC	Bills & Collections
CL	Consumer Lending
CD	Corporate Deposits
CE	Core Entities
CN	Collection
CS	Core Services
DE	Data Entry
DV	Derivatives
ED	Exchange Traded Derivatives
EG	Enterprise GL
FA	Fixed Assets
FC	FLEXCUBE Corporate
FT	Funds Transfer
FX	Foreign Exchange
IC	Interest & Charges
IF	Interface
ILM	Integrated Liquidity Management
IV	Inventory
CO (Core)	FLEXCUBE Core
CASA	Current and Savings accounts
SE	Securities
LC	Letters of Credit
LD	Loans and Deposits
LM	Limits Maintenance
LE	Leasing
MIS	Management Information System
MO	Mortgages
PC	Payments & Collections
OT	Options
LS	Loan Syndication
RE	Nostro Reconciliation
RP	Reports
SE	Securities
SI	Standing Instructions
SF	Structured Deposits
WB	Web Branch
WF	Work Flow
XP	Expense Processing
LQ	Liquidation Management