Product Release Note Oracle FLEXCUBE Universal Banking Release 14.3.0.0.0 May 2019





Product Release Note May 2019 Version 14.3.0.0.0

Oracle Financial Services Software Limited Oracle Park Off Western Express Highway Goregaon (East) Mumbai, Maharashtra 400 063 India

Worldwide Inquiries: Phone: +91 22 6718 3000 Fax: +91 22 6718 3001

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1. Release Notes

1.1 Background

Oracle Financial Services Software Limited has developed Oracle FLEXCUBE Universal Banking, which 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 propagate the enhancements in Oracle FLEXCUBE Universal Banking 14.3.0.0.0.

1.3 **Abbreviations**

Abbreviation	Description				
CASA	Current account and Savings Account				
SWIFT	Society for Worldwide Interbank Financial Telecommunication				
UI	User Interface				
LC	Letter of Credit				
REST	Representational State Transfer				
DB	Database				
SBLC	Stand by Letters of Credit				
STP	Straight through processing				
API	Application Program Interface				
BIC	Bank Identifier code				
IBAN	International Bank Account Number				
ОВРМ	Oracle Banking Payment				
OFSAA	Oracle Financial Services Analytics Application				
OBCL	Oracle Banking Corporate Lending				
RM	Relationship Manager				
DDA	Demand Deposit Accounts				
LOB	Line of Business				
SCF	Silent Confirmation				
AASC	AASC – Amendment of Advice to Silent Confirmation will be triggered.				



1.4 Release Highlights

The rationale for the product release of Oracle FLEXCUBE Universal Banking version 14.3.0.0.0 is to support regulatory requirement and enhance features that are essential in competitive market.

Following are the features included in the release along with forward porting of applicable fixes related to the incidences reported in previous versions and technical qualification to comply with approved Tech Stack.

- Machine Learning for Retail modules
 - Customer Attrition
 - Customer Segmentation
 - Customer Life time Value
 - Model Administration
- Integration with Biometrics for Facial Recognition
- Corporate DDA Enhancements
 - Referral support for ECA and External accounting (EA)
 - Integration with Real Time Liquidity Management for ECA, EA and internal debits
 - Multiple Inter-branch Nostros for LOB wise segregation
- Trade Enhancements
 - ➤ SWIFT 2019/2020 changes for Guarantees/SBLCs for conventional and Islamic
 - Obligor Party for Guarantees/SBLCs for conventional and Islamic
 - Co-acceptance/ Availisation
 - > STP of MT910 for BC contract liquidation
 - Silent Confirmation
 - Import Letters of Credit Limit tracking
 - Support for Event Reversal
 - Support for Devolved status for BC contracts
 - SWIFT Message Validation on input
 - Parties Search Using BIC Code
- Customer, Customer Account and Branch Enhancements
 - Cheque Book Issue for Other Branch Accounts
 - > IBAN number support for Multi-Currency account
 - > Auto account number generation for mask with branch code
 - Account Closure Remarks
 - ► Handle for periodic rates in Tax Waiver for back value calculation
- ReST APIs for Fine Grained Services
- Treasury SWIFT 2019 Changes
 - MT 300 Foreign Exchange Confirmation
 - MT 304 Advice/Instruction of a Third Party Deal
- Multi-tenant additional changes



- Integration with other product processors
 - CD OBCL Integration Enhancement
 - Integration with OBPM using new single payment service via ReST
- Deferred Issues

1.5 Release Enhancements

1.5.1 <u>Machine Learning Retail</u>

Customer Attrition

- Attrition risk profiles of the customers are identified as,
 - High Risk
 - Medium Risk
 - Low Risk
 - Transition Risk
 - No Risk
- Customer Attrition risks are available across perspectives of
 - Bank as an Enterprise
 - Branch

Customer Segmentation

- Customer of the bank are segregated as per their profiles and transactions patterns
- Customer segmentation are available across perspectives of
 - Bank as an Enterprise
 - Branch

Customer Life time Value

- The future life time value of a customer should the relationship continue over a lifetime
- Customer life time value are available for comparative analysis across perspectives of
 - Bank as an Enterprise
 - Customer Segment
 - Individual customer

Model Administration

- The facility to trigger model building and model execution by the admin user
- The user is provided the flexibility to determine the historic period for pattern identification and model building
 - > The model building and execution is consolidated across
 - Customer Attrition



- Customer segmentation
- Customer life time value

1.5.2 <u>Integration with third party Biometrics for Facial Recognition</u>

- API for notification on RM screen when a customer walks in to the branch and a link to launch customer landing page
- A third party facial recognition system would have to call this API with customer id and image

1.5.3 Corporate DDA Enhancements

Referral support for ECA and External accounting (EA)

- ECA request and External Accounting Transactions raising accounting or account validation errors needing dual/multi authorisation are routed to various accounting referral queues
- Further processing is done based on the actions taken from the referral queue and response is sent to the external system

Integration with Real Time Liquidity Management for ECA, EA and internal debits

- Integration with Oracle Banking Liquidity Management for real time liquidity is made to fetch for funds when there is Debit in Customer Account with insufficient balance
- Transactions in which the fetch is looked are:
 - External Credit Approval (ECA) Debit (ECA)
 - Debit from External Accounting (EA)
 - Debit in Corporate transactions
- This is supported for those corporate accounts, which participate in a real time liquidity structure and are identified by a flag at account level.

Multiple Inter-branch Nostros for LOB wise segregation

- Enhancement to enable multiple inter branch Nostros for same currency so that there is a clear segregation between lines of business.
- It is achieved by adding module code and product code to the existing setup of interbranch definition

1.5.4 <u>Trade Enhancements</u>

SWIFT 2019/2020 changes for conventional and Islamic Guarantees/SBLCs

- Guarantees/SBLC's Messages enhanced to comply with SWIFT 2019/2020 latest standards with provision to support seven extension messages for Guarantee issuance (MT761) and Guarantee amendment (MT775) messages. Standard Wording, Terms and Conditions with Guarantee / Local Guarantee Type are also introduced
- Support for issuance and amendment messages for Counter-Counter Guarantees/SBLCs and validation for length of each messages are kept in place



Obligor Party for Guarantees/SBLCs for conventional and Islamic

- Feature where Obligor as a party for Guarantees/SBLCs can settle the claims in lieu to Applicant
- Collateral can be collected from Obligor and processing/refund of collateral would be based on collateral percentage from Obligor
- Funds from Applicant/Obligor settlement account will be considered for claim settlement and in case of adequate funds then creating loan for obligor can be initialized

Co-accpetance/Availisation

- System enhanced to mark an import as Co-accepted by the bank for which bank can charge commission
- Import/Export collection, Not under LC, 'Usance' bills can be marked as Co-accepted by enabling change of operation Collection to Co-acceptance

STP of MT910 for BC contract liquidation

On receipt of MT910 messages, BC liquidation will be invoked for the BC contracts. This
is supported for Export bills of both conventional and Islamic categories

Silent Confirmation

- System enhanced to support silent confirmation for export letters of credits where the bank adds the confirmation at the request of the beneficiary without the knowledge of issuing bank. This is applicable for conventional and Islamic letters of credit.
- With New operation code Silent confirmation (SCF) introduced, Export LC/LI cannot be booked with operation as SCF, whereas the operation of export LC/LI can be modified to SCF from ADV and the event AASC – Amendment of Advice to Silent Confirmation will be triggered.

Import Letters of Credit – Limit tracking

 System enhanced to track limit for liability amount minus the margin amount, during Import Letters of Credit/Islamic Letters of Credit issuance, option to track limit of liability minus margin have been enabled by introducing new amount tag Liability Minus Margin.

Event Reversal for contracts

- Event reversal for Letter of Credit, Bills and Collections, SBLC and Guarantee contracts with new event code is introduced with option of reversal of latest version with details before the version reversed being reinstated. This will be available for both Islamic and conventional modules.
- On reversal of the version-creating event, all non-version creating events that are triggered after this will also be reversed

Devolved status for BC contracts

 A new status, 'Devolved' is introduced for Bills and Collection module where an import Bill contract is liquidated using a loan, then on final liquidation of the contract the status of the contract would be changed to 'Devolved'.

SWIFT Message Validation on Input

- Provision to validate Message generation based on a preference during Contract save and provide repair reason as error message is introduced. Support provided, for LC and Guarantee in conventional and Islamic screens.
- SWIFT Character validation based on X/Z character set support for each tag with controls are brought in. Extension of this substitution is applicable for Message preview.

Parties Search Using BIC Code



- System enhanced with the provision to list BIC code values in trade operation screens
- Existing customer number LOV of the screens has been enhanced to display BIC code along with the customer details

1.5.5 <u>Customer, Customer Account and Branch Enhancements</u>

Cheque Book Issue for Other Branch Accounts

 Enhancement to allow users to issue Cheque Book for Customer Accounts belonging to other Branch

IBAN number for Multi-Currency account

Enhancement to generate/validate IBAN Number for Multicurrency

Auto account number generation for mask with branch code

Auto account number generation supported for account mask with branch code

Account Closure Remarks

 During CASA Closure, provision for entering Maker remarks and viewing them by Checker

Handle for periodic rates in Tax Waiver for back value calculation

 In case of back valued interest calculation, tax waiver calculation is enhanced to consider waiver details pertaining to back value period

1.5.6 ReST/Fine Grained APIs

- Below ReST fine grained APIs are introduced as part of this product release
 - Customer, Customer Accounts
 - Loan accounts for a customer
 - Loan account balance
 - Loan instalment details/Loan account EMI amount
 - Loan Guarantor details
 - Loan account balance
 - Loan security details
 - Corporate Deposit Details
 - Foreign Currency Exchange Details
 - Money Market Details
 - Securities Portfolio Details
 - Derivatives
 - OTC Options
 - Exchange Traded Derivatives Portfolio Details
 - Credit Card
 - Insurance
 - Mutual Funds



- LC Details
- Guarantee Details
- Standing Instructions
- Currency Exchange Rates

1.5.7 Treasury - SWIFT 2019 Changes

MT 300 Foreign Exchange Confirmation Message

 Support for generation of MT 300 Foreign Exchange Confirmation Message as per SWIFT 2019 standards

MT 304 Advice/Instruction of a Third Party Deal

 Support for generation of MT 304 Advice/Instruction of a Third Party Deal Message as per SWIFT 2019 standards

1.5.8 Multi-Tenant Changes

Multi-tenant Changes for BIC Code Maintenance

- BIC Code maintenance screen is split into two screens, similarly underlying table also is split into two tables
- Application root screen (ISDBICDE) would store data which gets uploaded from BIC directory
- Entity level screen (ISDBICPB) would have fields to store Customer Number, SWIFT Key, Telex Key, SWIFT Key Arrangement and Relations for BIC Code

Multi-tenant Remediation of STTB ACCOUNT data store

- Separate data stores similar to STTB_ACCOUNT created to store data for CASA, Loan and GL
- GL related table is "Data Linked" and other tables are "Metadata Linked"
- STTB ACCOUNT is made as a view with union of above tables

1.5.9 Integration with other product processors

CD-OBCL Integration Enhancement

 System is enhanced for fully liquidating a CD contract when the Web service is called with Pre-closure

Integration with OBPM using new single payment service via ReST

 New Single Payment Service Rest API call is made to replace single payment web service for integration with OBPM



1.5.10 <u>Deferred Issues</u>

- Consumer Lending Contract Input screen is enhanced to link Collaterals with same name created for two different Liabilities
- Commitment History screen created newly to view changes with respect to different versions of Commitment Contract
- GI Interface support provided for Journal Multi Offset Entry (DEDMJONL)
- Supported Forward Exchange Rates(CYDFWRAE) Propagation from Head Office Branch to other Branches
- Web service support provided for the screen Consolidated Amount Block (CADCAMBL)
- CL's subsystem 'Swift Message Details' enhanced to capture regulatory reporting details
- Changes to capture 'Settlement other' details for each settlement component in settlement sub system. Modified Regulatory reporting details fields from select field type to input text field type
- Next working day handling in case of calendar updates
- To support Currency Holiday and Holiday services upload through, BIC upload screen through existing source code
- System is enhanced to display all unauthorized contracts also which were previously once authorized from the function '360 Degree Corporate/Retail Customer View'



2. Deprecated Functionality

'Tax waiver Non Extensible' screen (STDTAXWV) has been deprecated.



3. Components of the Software

3.1 <u>Documents Accompanying the Software</u>

The various documents accompanying the software are as follows:

- Product Release Note and Installer Kit
- User and Installation manuals https://docs.oracle.com/cd/F18207 01/index.htm
- Online Help Files

3.2 Software Components

Software Components of Oracle FLEXCUBE 14.3.0.0.0 that form part of this release are as follows:

- Host
 - UI Components (JS,XML)
 - > Stored Procedures (Packages, Functions, Procedures, Triggers, Views)
 - Tables, Types, Sequences, INC
 - Reporting Components(Data models(xdmz), Reports(xdoz),Subtemplate(xsbz))
 - Process Framework components (BPEL,BPMN,BAM,BRE)
 - OBIEE Module RPDs
- Branch
 - Stored Procedures (Packages, Functions, Procedures, Triggers, Views)
 - UI Components (JS,XML)
 - Java sources
- Java application layer
 - Java sources
 - Configuration files used for deployment
- Integration Gateway
- Switch Gateway (ATM/POS/IVR)
- REST Services
 - Java application layer
 - → Java sources
 - Configuration files used for deployment
- Oracle FLEXCUBE Information Server
 - Stored Procedures (Packages, Functions, Procedures, Views)
 - Repositories and pre-defined Reports
- Conversion Utilities
- Installation utilities
- ADF files used by Generic Interface (GI) incoming and outgoing
- Tools
 - ODT
 - ➢ OFT



4. Tech Stack

4.1 Tech Stack - Oracle

Component	Deployment option	Machine	Operating System	Software	Version Number
		Application Server	Oracle Enterprise Linux Server 7.1 (x86 64 Bit)	Oracle Fusion Middleware Infrastructure	12.2.1.3.0
				Java HotSpot(TM) JDK (with WebLogic Application Server)	JDK 1.8 Update 202
				Open Symphony Quartz	2.3.0-d56e1d0
				Oracle Toplink	12.2.1.3.0
				Oracle WebLogic	12.2.1.3.0
	UI-Host and Centralized	Document Manageme nt System	Oracle Enterprise Linux Server 7.1 (x86 64 Bit)	JDK	JDK 1.8 Update 202
Oracle FLEXCUBE				Oracle Database (for RCU)	18.3.0.0.0
Universal Banking				Repository Creation Utility	12.2.1.3.0
				Oracle WebCenter Content Imaging	12.2.1.3.0
		Database Server	Oracle Enterprise Linux Server 7.1 (x86 64 Bit)	Oracle RDBMS Enterprise Edition	18.3.0.0.0
		Reporting Server	Oracle Enterprise Linux Server 7.1 (x86 64 Bit)	Oracle WebLogic	12.2.1.3.0
				JDK	JDK 1.8 Update 202
				Oracle BI Publisher	12.2.1.4.0



	1	T	T		
		FLEXCUB E Information Server – Analytics	Oracle Enterprise Linux Server 7.1 (x86 64 Bit)	Oracle WebLogic	12.2.1.3.0
				JDK	JDK 1.8 Update 202
				Oracle Business Intelligence Enterprise Edition (OBIEE)	12.2.1.4.0
			Oracle Enterprise	Oracle Golden Gate	12.3.0.1.4
				Oracle Database (for RCU)	18.3.0.0.0
		FLEXCUB E Information		Repository Creation Utility	12.2.1.3.0
		Server -	Linux Server 7.1	Oracle Data integrator	12.2.1.3.0
		Data warehouse	(x86 64 Bit)	Oracle Data integrator Java EE Agent	12.2.1.3.0
				Oracle Fusion Middleware Infrastructure	12.2.1.3.0
			Windows 7	Internet Explorer	11.648.171340CO
				Mozilla Firefox	60.6.1esr(32-BIT)
				Google Chrome	73.0.3683.103
			Windows 10	Internet Explorer	11.648.171340CO
				Mozilla Firefox	60.6.1esr(32-BIT)
		Client Machines [#]		Google Chrome	73.0.3683.103
				Microsoft Edge	42.17134.1.0
			Mac OS X	Mozilla Firefox	Mozilla Firefox for Mac (62+)
				Safari	Safari- 11.1 (13605.1.133.1.4)
				Google Chrome	Google Chrome Release (69+)
		Single Sign On Server	Oracle Enterprise	JDK	JDK 1.8 Update 202



			Linux Server 7.1	Oracle WebLogic	12.2.1.3.0
			(x86 64 Bit)	Repository Creation Utility	12.2.1.3.0
				Oracle Identity Management	12.2.1.3.0
				Oracle SOA	12.2.1.3.0
				Oracle Identity And Access Management	12.2.1.3.0
				Oracle Web tier Utilities	12.2.1.3.0
				Oracle Web gate	12.2.1.3.0
				OID Connector	OID 11.1.1.6.0
		Branch Application	Oracle Enterprise Linux Server 7.1 (x86 64 Bit)	JDK	1.8 Update 202
	UI Decentralized	Server – Decentraliz		Oracle WebLogic Server	12.2.1.3.0
	branch	Database Branch for Decentraliz ed mode		Oracle RDBMS Standard Edition (SE2)	18.3.0.0.0
		Application Server	Oracle Enterprise Linux Server 7.1 (x86 64 Bit)	JDK	1.8 Update 202
Oracle FLEXCUBE				Oracle WebLogic Server	12.2.1.3.0
Universal Banking BPEL/BPM				Oracle Database (for RCU)	18.3.0.0.0
N Processes and Process				Repository Creation Utility	12.2.1.3.0
Framework				Oracle SOA Suite, Oracle BPM Suite	12.2.1.3.0
Oracle	Web services (incoming)	rcoming) ITP Servlet Integration	Oracle Enterprise Linux Server 6.6 (x86 64 Bit)		12.2.1.3.0
FLEXCUBE Universal Banking Integration	HTTP Servlet (incoming)			Oracle WebLogic Server	
Gateway	EJB (incoming)				



	MDB (incoming) Notifications (outgoing)				
Oracle FLEXCUBE Universal Banking Switch Integration Gateway	Switch Integration Gateway	Integration Server	Oracle Enterprise Linux Server 7.1 (x86 64 Bit)	JDK	1.8 Update 202
Oracle			Oracle	JDK	1.8 Update 202
FLEXCUBE Universal	Web services	Integration Server	Enterprise Linux	Oracle WebLogic Server	12.2.1.3.0
Banking REST		Gerver	Server 7.1 (x86 64 Bit)	Oracle Toplink	12.2.1.3.0
Oracle FLEXCUBE Machine Learning	Manual Deployment	Machine Learning Server	Oracle Enterprise Linux server 7.1 (x86 64 bit)	Oracle R Enterprise	1.5.1

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



4.2 Tech Stack – IBM

Component	Deployment option	Machine	Operating System	Software	Version Number
		Application Server	Oracle Enterprise Linux Server 7.1 (x86 64	IBM WebSphere Application Server with inbuilt JVM (IBM JDK 1.8_64)	9.0.0.0
				IBM WebSphere MQ Server	9.0.0.0
			Bit)	Open Symphony Quartz	2.3.0-d56e1d0
	UI-Host and Centralized	Database Server	Oracle Enterprise Linux Server 7.1 (x86 64 Bit)	Oracle RDBMS Enterprise Edition	18.3.0.0.0
Oracle		Client Machines [#]	Windows 7	Internet Explorer	11.648.171340CO
FLEXCUBE Universal				Mozilla Firefox	60.6.1esr(32-BIT)
Banking				Google Chrome	73.0.3683.103
			Windows 10	Internet Explorer	11.648.171340CO
				Mozilla Firefox	60.6.1esr(32-BIT)
				Google Chrome	73.0.3683.103
				Microsoft Edge	42.17134.1.0
			Mac OS X	Mozilla Firefox	Mozilla Firefox for Mac (62+)
				Safari	Safari- 11.1 (13605.1.133.1.4)
				Google Chrome	Google Chrome Release (69+)
Oracle FLEXCUBE Universal Banking Integration Gateway	Web services (incoming)	Integration Server	Oracle Enterprise Linux Server 7.1 (x86 64 Bit)	IBM WebSphere Application Server with inbuilt JVM (IBM JDK 1.8_64)	9.0.0.0



Component	Deployment option	Machine	Operating System	Software	Version Number
	HTTP Servlet (incoming)	Integration Server	Oracle Enterprise Linux Server 7.1 (x86 64 Bit)	IBM WebSphere Application Server with inbuilt JVM (IBM JDK 1.8_64)	9.0.0.0
	EJB (incoming)	Integration Server	Oracle Enterprise Linux Server 7.1 (x86 64 Bit)	IBM WebSphere Application Server with inbuilt JVM (IBM JDK 1.8_64)	9.0.0.0
	MDB Integration (incoming) Server	Oracle Enterprise Linux Server 7.1	IBM WebSphere Application Server with inbuilt JVM (IBM JDK 1.8_64)	9.0.0.0	
	,		(x86 64 Bit)	IBM WebSphere MQ Server	9.0.0.0
	Notifications (outgoing)	Integration Server	Oracle Enterprise Linux Server 7.1	IBM WebSphere Application Server with inbuilt JVM (IBM JDK 1.8_64)	9.0.0.0
	, J J,		(x86 64 Bit)	IBM WebSphere MQ Server	9.0.0.0
Oracle FLEXCUBE Universal Banking	Switch Integration Gateway	Integration Server		JDK	IBM JDK 1.8_202
Oracle FLEXCUBE Universal	Web Integration Server	Oracle Enterprise Linux Server 7.1 (x86 64 Bit)	IBM WebSphere Application Server with inbuilt JVM (IBM JDK 1.8_64)	9.0.0.0	
Banking REST			Oracle Toplink	12.2.1.3.0	

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



5. Third Party Software Details

 For information on the third party software details, refer Oracle FLEXCUBE Universal Banking 14.3.0.0.0 License Guide

