

Product Release Notes
Oracle FLEXCUBE Universal Banking
Release 14.8.0.0.0
Part Number : G27840-01
[April] [2025]

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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 14.8.0.0.0.

1.3 **Release Highlights**

The rationale for the product release of Oracle FLEXCUBE Universal Banking version 14.8.0.0.0 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.

- Redwood theme adoption
- Changes in CAMT Statement message
- Swift confirmation message changes
- Integration with Oracle Banking Collections
- Retry Mechanism of ECA from External System
- Support for track receivable
- Supporting track receivable for Loans against Salary
- Remarks handling in Consumer Lending Payment screen.
- Synchronous Replication of Limit Details
- Enhancements in Corporate Deposits' RFR contracts
- Amendment of active deposit account parameters
- Changes in Term Deposit (TD) Payout
- Population of settlement details during Cheque Realization
- Common Entity Data Length modification
- Liquidation based on Account Opening
- Legal Entity Identifier handling at customer input
- Additional Account Indicators for NRE/NRO accounts
- Screen for displaying tanked maintenances
- Interest Statement with additional information
- Support for BULK Accounting Upload from External System
- Inventory update integration with external system
- Retail Web Services enablement
- AI/ML Use Cases using Framework Mode
- Technical changes to product
- Other changes to product
- Support for Goods and Services Tax functionality
- Latin America Localization Feature Enhancements

1.3.1 Redwood theme adoption

- Oracle FLEXCUBE Universal Banking has adopted the Redwood User interface for application look and feel. The UI components have been moved to OJET from HTML with further enhancements on the usability and aesthetics are done.

1.3.2 Changes in CAMT Statement message

- camt.052 STP
 - Oracle FLEXCUBE has been incorporated with an feature to match the entries of an external account with those of an internal account. The Existing batches are modified to accommodate extra format and additional values to match the changes.
 - The incoming messages are parsed and nostro reconciliation can be initiated for the entries based on the transactions.
- camt.060 STP
 - Requesting alone camt.060 xml can be used to request multiple statements is supported. Generation of camt.053, camt.052 or camt.054 statement/report for account based on the request received and upload into Oracle FLEXCUBE is supported.
- For Additional Information in CAMT messages
 - Enhanced the system to send additional information about transactions in outgoing CAMT 052 / CAMT 053 messages.
- Splitting of CAMT Messages
 - Support for splitting longer messages, when message exceeds 32767 length, CAMT053 message shall be split in multiple messages.
- Debit/Credit Notification in MX format
 - Enhancement for regulatory requirement of camt. messages to support Customer Debit/Credit Notification in ISO 20022 format (camt.054)

1.3.3 Swift confirmation message changes

- Confirmation of debit and credit messages (MT900 / MT910) shall be generated at FLEXCUBE for customers requesting information for their accounts from other product processors.
- Every product processor / external system should identify their respective transactions based on a specific module.

1.3.4 Integration with Oracle Banking Collections

- Delinquency Support
 - Oracle FLEXCUBE Universal Banking is integrated with Oracle Banking Collections(OBC) product processor by providing delinquent Retail loan accounts, payment schedules, and account party details to OBC with a set of outbound Generic Interfaces. End of Day batch is introduced to manage extract such contracts / details. Factory shipped Generic Interfaces shall be generated and shared to Collection system.
- Overdue Accounts Interface

- System shall generate handoff file having limits expired and account balance in negative for Overdue Overdraft accounts to with Oracle Banking Collections(OBC) product processor. Cured accounts file sent by OBC is received.

1.3.5 Retry Mechanism of ECA from External System

- Retry of ECA block is introduced in case of previously available block is failed. Post customer account balance is updated the retry for applying the ECA block is triggered. This support is extended to Creation and modification of account.

1.3.6 Support for track receivable

- Support for tracking of charges (track receivable) when there are insufficient funds in customer account has been introduced. This is supported for new creation of customer and on any modification. Auto settlement block requests are sent for managing track receivables functionality for external entities.

1.3.7 Supporting track receivable for Loans against Salary

- Track receivable for Loans which are issued against Salary for comprehensive tracking of credits in the settlement accounts is introduced.
- Normal and salary credits are included in tracking, specific tracking of salary deposits shall yield in prioritizing loan repayments directly from the borrower's income, while normal credits can still be used to cover overdue amounts when they are available.

1.3.8 Remarks handling in Consumer Lending Payment screen.

- Remarks capturing has been introduction in Consumer Lending payment screen which would be use full for bank's user.
- These remarks entered are made displayed in screens applicable for operations such as, Transaction Enquiry, Customer Account Transaction Query, Customer Account balance, Account statement.

1.3.9 Synchronous Replication of Limit Details

- Product has been enhanced to execute synchronous replication of local utilization information to from the product to Oracle Enterprise Local Collateral Management product processor (ELCM).
- The replication will be driven based on the source code maintenance and the asynchronous mode of replication will be the default value with error handling checks in place. This feature shall be available for co-deployed setup.

1.3.10 Enhancements in Corporate Deposits' RFR contracts

- Latest amount due for RFR contract during CD Payments
 - Corporate deposit RFR contract shall recalculate and populate the latest amount due on click of populate button in payment screen.
- Effective Interest Rate before Save

- Corporate Deposits with RFR component shall display Effective Interest rate used for calculation and schedule details.
- Before authorisation of the contract, based on the modification of RFR parameters the Rate Re-Pickup would happen.

1.3.11 Amendment of active deposit account parameters

- Amendment of deposit amounts and installment frequencies for active recurring deposits has been introduced to enable flexibility in recurring deposit accounts. Based on the change system would do the recalculation of account's maturity returns.

1.3.12 Changes in Term Deposit (TD) Payout

- Term Deposit (TD) payout using type 'Local Payment' process from OBPM payment service with bank clearing code is enabled. IFSC code shall be captured and validated before sending.

1.3.13 Population of settlement details during Cheque Realization

- In Inward cheque realization under Retail bills, on selection of Bank code, system would populate settlement details based on the Clearing Bank Code maintenance.
- During settlement, based on Bank code selected system would auto populate these details.

1.3.14 Common Entity Data Length modification

- The Data Length of common entities such as Branch Code, User ID, Customer Number, Customer Name, Account Number, Account Description, GL Code, Entity Code has been modified to accommodate more characters.

1.3.15 Liquidation based on Account Opening

- Feature to enable liquidation based on account opening at IC product level for periodic liquidation at account level to happen on respective account opening date.

1.3.16 Legal Entity Identifier handling at customer input

- Provisions are made at the customer level to capture Legal Entity Identifier and expiry date which shall be queried using fine grain rest services from any external system.
- This can be incorporated as part of messages for financial transactions when participating institutions are business or banks.

1.3.17 Additional Account Indicators for NRE/NRO accounts

- Additional account type identifier is introduced for NRE/NRO accounts for availing special treatment for taxes. System is integrated with Oracle banking Payment product processor for replication of this additional account type indicator.

1.3.18 Screen for displaying tanked maintenances

- Summary screen has been introduced for displaying un-authorized maintenances for tanking enabled function id's so that appropriate action can be taken.

1.3.19 Interest Statement with additional information

- Provision to capture additional elements to accommodate more information for the Interest statements generation.

1.3.20 Support for BULK Accounting Upload from External System

- System has been enhanced to support processing of Multiple Transactions in Single Request during accounting hand-off from external system.

1.3.21 Inventory update integration with external system

- External system/product processor can call newly introduced services to order and update the required inventory.

1.3.22 Retail Web Services enablement

- Retail Teller web services support has been reactivated for functions, Authorize Transaction, Create Transaction, Query RT Product, Query Transaction, Reverse Transaction.

1.3.23 AI/ML Use Cases using Framework Mode

- Framework mode allows bank to build their own AI/ML models. The bank has freedom to choose appropriate data based on their requirements and build a model using Oracle FLEXCUBE model maintenance. This model can then be used on production data to get required insights.

1.3.24 Technical changes to product

- Changes to Common Core modules are introduced where impacts for the CORE modules are originating from FLEXCUBE and other product processors.
- Product has been successfully transitioned from using (EJB/MDB) to the Spring Framework (Spring Core/Context/JMS). The deployment method for ODT products has been updated. WAR files shall be used instead of EAR for packaging purposes.
- Support for Kafka Adapter for Notification
 - FLEXCUBE Notification framework currently supports JMS for messaging, the new enhancement shall enable FCUBS Notifications via KAKFA Adapter for those OBMA products which do not support JMS for consuming messages.
- Addition of batch type in external accounting check
 - New batch type field is introduced in the external accounting check (EAC) request, so that external system can pass the value for the same. If its value is passed as Y, FLEXCUBE shall consider the request as a batch request.
- Enabling Create, Close and Reopen Operation for GL Webservice
 - FLEXCUBE enable customer to perform operations like create, Modify, Close, authorize, re-open through webservices for various functionality.
 - Create, Close, and re-open operation for GL webservice is enabled as part of this update.
- Common core online replication

- A mechanism has been introduced in the system for real-time/ synchronous replication of common core information from FCUBS to ODT Core and OBMA Core.
- Enablement of Hot Keys for Customer related requests from Webservices
 - Customer signature, customer image, customer instructions and customer account balance can be invoked using appropriate function keys while account operations from any product processors, this is extended to standalone deployment also.

1.3.25 Other changes to product

- Multiple changes are introduced as part of quality improvement and support of the product processors.
 - Issues Resolved: Please refer FLEXCUBE bug lists which has been appended with the new bugs for the overview of the bugs which were addressed part of this release.
 - Forward Porting has been applied to manage the solutions provided against CCB and other customer request/concerns.
 - Changes to Common Core modules are introduced where impacts for the CORE modules are originating from FLEXCUBE and other product processors.

1.3.26 Support for Goods and Services Tax functionality

- Following features are introduced India Goods and Services Tax (GST) functionality in cluster mode.
 - City, District and State code maintenance for GST
 - Branch GST maintenance
 - Customer GST details maintenance
 - Tax rule maintenance for GST calculations
 - State wise GST maintenance like IGST, CGST, SGST
 - GST for Standing Instructions module
 - GST transaction processing which are common to all modules
 - GST exempt for SEZ customers.

1.3.27 Latin America Localization Feature Enhancements

- Following features are introduced in the LATAM localisation pack.
 - Inventory to track both Universal and Customized Cheque Books
 - Index Rates at Head office level and support for weekend rates
 - CNAB400 Incoming Payment file and Outgoing Log Interface file
 - Nosso Numero Generation
 - Discount and In-sequential Payments
 - Interest Accrual (D+1)
 - Feature to accrue interest of a particular day during EOD of the next working day.
 - Additional Contract Fields
 - Addition of Amount tags
 - Address Derivation
 - Additional fields and new fields for Individual and Corporate customers at Customer Maintenance screen.
 - Write-off GL Movement and Payment
 - Change Request for Payments after Write-off Balance Accounting Entry
 - Principal Readjustment
 - Interest Readjustment
 - Messages to be Generated for Re-adjustable Accounts.
 - Handling of Readjustment in Customer Correspondences
 - Modification in handling Interest Accruals
 - In-sequential payment in stop accrual status
 - Cost Annual Equivalent
 - Gastos De Cobranza
 - Rate Uploads

2. Deprecated Features

- Nil

3. Components of the Software

3.1 Documents Accompanying the Software

The various documents accompanying the software are as follows:

- Product Release Note and Installer Kit

User and Installation manuals – https://docs.oracle.com/cd/G27840_01/install.htm

- Online Help Files

3.2 Software Components

Software Components of Oracle FLEXCUBE 14.8.0.0.0 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))
- Java application layer
 - Java sources
 - Configuration files used for deployment.
- Integration Gateway
- Switch Gateway (ATM/POS/IVR)
- REST Services
- Conversion Utilities
- Installation utilities
- ADF files used by Generic Interface (GI) – incoming and outgoing.
- ODT
- Service Components

4. Tech Stack

Component	Machine	Operating System	Software	Version Number
Oracle FLEXCUBE Universal Banking	Application Server	Oracle Enterprise Linux Server 8.7 (x86 64 Bit)	Oracle WebLogic Server	14.1.2.0.0
			Java HotSpot(TM) JDK (with WebLogic Application Server)	17.0.12
	Database Server	Oracle Enterprise Linux Server 8.7 (x86 64 Bit)	Oracle RDBMS Enterprise Edition	19.25.0.0.0
	UI	Oracle Enterprise Linux Server 8.7 (x86 64 Bit)	Oracle JET	v17.0.3
	Client Machines Important - Browser Support is strictly tied to the Browser itself , and no longer based on the Operating System.		Mozilla Firefox	132+
			Microsoft Edge	131+
			Apple Safari	17+
			Google Chrome	131+
Oracle FLEXCUBE Machine Learning	Machine Learning Server	Oracle Enterprise Linux Server 8.7 (x86 64 Bit)	OML4R (Previously Oracle R Enterprise)	1.5.1
Oracle FLEXCUBE Oracle Digital Assistant Integration	Application Server	Oracle Enterprise Linux Server 8.7 (x86 64 Bit)	oda-native-client-sdk-js	20.3.1

5. Third Party Software Details

- For information on the third-party software details, refer Oracle FLEXCUBE Universal Banking 14.8.0.0.0 License Guide



April 2025

Version 14.8.0.0.0

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