

Product Release Note  
Oracle Banking Treasury Management  
Release 14.5.0.0.0  
May 2021





Product Release Note  
May 2021  
Version 14.5.0.0.0

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# 1. Release Notes

## 1.1 Background

Oracle Financial Services Software Limited has developed new product processor, Oracle Banking Treasury Management (OBTR), which is a comprehensive solution for managing Treasury operations for Banks.

Oracle Banking Treasury Management is an online Real-time solution and is enabled for a multi-entity, multi-currency, multi-lingual operations. OBTR is built on highly adaptable and modular architecture with leading edge industry standards and supports multi-tenancy deployments.

OBTR offers financial institutions, the flexibility to adapt to changing regulatory reforms in treasury markets and enable banks to improve their overall operational efficiency. OBTR provides end-to-end trading capabilities for diverse range of Trading Instruments in Foreign Exchange, Money Markets, Securities, Derivatives and Over-the-counter products.

OBTR is equipped with an innovative pre- settlement manager that expedites and simplifies the operational flow of the Treasury Deals.

## 1.2 Purpose

The purpose of this Release Note is to propagate the enhancements in Oracle Banking Treasury Management 14.5.0.0.0.

## 1.3 Abbreviations

Abbreviation	Description
OBTR	Oracle Banking Treasury Management
OBTF	Oracle Banking Trade Finance
OBPM	Oracle Banking Payment
OBDX	Oracle Banking Digital Experience
OFSAA	Oracle Financial Services Analytical Application
DDA	Demand Deposit Accounts
SWIFT	Society for Worldwide Interbank Financial Telecommunication
OFCUB/ FCUBS	Oracle FLEXCUBE Universal Banking
RFR	Risk Free Rates
SFTR	Securities Financing Transactions Regulation
EMIR	European Market Infrastructure Regulation
CDI	Credit Default Swap Index
CDS	Credit Default Swaps

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

## 1.4 Release Highlights

The rationale for the new product release of Oracle Banking Treasury Management version 14.5.0.0.0 is to enhance the existing product with newer treasury functionalities, enabling Banks to choose a diverse range of Treasury products designed to support multiple currencies, facilitate and manage handling of trades efficiently and to support the regulatory requirements and to have features that are essential for Capital markets.

- Oracle Banking Treasury Management has the below major modules
  - Foreign Exchange
  - Money Market
  - Securities
  - Repo and reverse repo
  - Over The Counter Currency Options
  - Over The Counter Interest Rate Options
  - Over The Counter Interest rate and Cross currency Swaps
  - Forward Rate Agreement (FRA)
  - Exchange Traded Derivatives for Commodities Futures and Options
  - Exchange Traded Derivatives for Interest Rate Futures and Options
  - Exchange Traded Derivatives for Currency Futures and Options
  - Exchange Traded Derivatives for Bonds and Equity Futures and Options
  - Exchange Traded Derivatives for Index Futures and Options
  - Islamic Money Market
  - Islamic Derivatives
- Oracle Banking Treasury Management product consists of common sub systems for processing Settlements, Messages, Tax, Brokerage, Interest, Charges, Commission and Fees and so on in the various modules mentioned above.
- Oracle Banking Treasury Management product consists of Pre-Settlement Manager layer, which can receive request from front office and the below features are available
  - Defining the rules for queue processing and for product derivation
  - Settlement pick up
  - Exception handling
  - Confirmation message generation
  - Pre-Settlement queue monitor enables the user to get a consolidated view of the exceptions and enables the resolution
- Oracle Banking Treasury Management product can work as a stand-alone system or can work in tandem with other Oracle Banking products such as OBPM, OBTF, OBDX, Oracle Banking Limits and Collateral Management and OFSAA
- Oracle Banking Treasury Management can integrate with DDA systems like Oracle FLEXCUBE Universal Banking System for DDA Posting, Accounting and MIS.
- Following are the additional 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.
- **Below section gives features that are newly added as part of the current release**

## **1.5 Release Enhancements**

### **1.5.1 New Treasury Instrument Credit Default Swaps (CDS)**

- New Treasury Instrument Credit Default Swaps is introduced.
- System enhanced to maintain default products with features to support different premium type for arrears (periodic) and advance (one-time) calculations. System enabled for CDS buy/sell trades for Trade/Hedge purposes.
- Deal level support for buy/sell with underlying capture for single or basket of securities along with credit events applicable with recovery factor definition. System will process life-cycle events along with respective accounting entries and advice support for booking of CDS contract.
- System enabled to support pre-termination of a CDS contract with associated entries and available options to the user for settlement of premium due on termination date.
- System enabled to support exercise of a CDS contract in event of a pre-agreed credit event or maturity of a CDS contract. Both the events are supported with respective settlements and accounting entries.

### **1.5.2 New Treasury Instrument Credit Default Swap Index (CDI)**

- New Treasury Instrument Credit Default Swap Index (CDI) is introduced.
- System enhanced to support CDI Instrument definition and portfolio definition for premium/upfront fee calculations and position keeping functions respectively. Product definitions available to maintain default features.
- Deal product support for various CDI buy/sell scenario for banks
- Support for trading with trading price/spread quote.
- Deal lifecycle support for Internal and External MTM, position keeping, periodic premium payments and Redemption.
- Credit Derivative Index booking process is enhanced with an advice for related contract and underlying index details.

### **1.5.3 Operational Dashboard**

- System enhanced to have Dashboard to display count of unauthorized deals in respective module grids event wise.
- User has an option to view deal details and authorize.
- Facility to capture super users and these users can view the counts of unauthorized transactions across departments.

### **1.5.4 Pre-settlement Processing for Capital Markets**

- Pre-settlement Processing for Capital Markets is introduced.
- The Pre-Settlement layer for Capital Market supports the below functionalities:

- Receive request from front office as an upload.
- Handle exceptions and move the deal to different queues accordingly.
- Support auto/ manual settlement Instructions update.
- Handling auto propagation of amended settlement Instructions.
- Generates Confirmation messages.
- Processing the deal to Security module of Product Processor.
- Pre-Settlement queue monitor enables the user to get a consolidated view of the exceptions and STP trades.
- Provision for viewing the trade exceptions with display of error codes on deals and resolving the same.

### **1.5.5 CLS Processing changes in Foreign Exchange Pre-Settlement**

- Support for checking the CLS (Continuous Linked Settlements) eligibility of the deal from Pre-Settlement layer.
- Settlement instruction pickup for a CLS deal and Confirmation message generation for CLS deals.

### **1.5.6 Negative Interest Rate Support**

- Negative interest rate support is available in Money Markets, Derivatives, Securities and Securities Repo modules.

### **1.5.7 Auto update of Net Fair Value for Derivatives**

- System enhanced to auto calculate and update Net Fair Value for Derivatives.

### **1.5.8 Capturing of Deal input time up to Milliseconds**

- System is enhanced to capture Deal input time up to Milliseconds for all treasury trades which are booked either manually from the front office system or coming from trading platform as STP deals.
- The deal execution time recorded is used for reporting purposes.

### **1.5.9 ISDA confirmation**

- Provision for ISDA confirmation check for the below modules:
  - Foreign exchange
  - Derivatives
  - Islamic Derivatives
  - Options
- Support for event wise ISDA confirmation check



### **1.5.10 ISDA New Interest Calculation Methods in Derivatives module**

- System enhanced to introduce new interest calculation methods 1/1, ACT/ICMA as per ISDA standards.

### **1.5.11 Brokerage Subsystem changes**

- Brokerage Subsystem is enhanced to support calculation and display of brokerage for multiple brokers for a deal, with flexibility to use either the ICCF or the new Brokerage.
- Introduced a new maintenance function for Brokerage setup to define rules with multiple parameters.

### **1.5.12 Settlement related enhancements in various modules**

- Enhanced Options module to generate payment messages in advance by triggering SGEN event based on the settlement days configured for the currency.
- System enhanced to allow the user to terminate an option contract for a day and settle the termination proceeds on a different future day.
- System enhanced to populate additional tags for Settlement parties in MT 54x messages generated for Securities delivery as collateral for Repo and Reverse Repo contracts.
- Enhanced the system to support Collateral Margin processing and Net Settlements using unique Master Agreements with the counterparties.
- Enhanced Derivatives module to generate payment messages in advance by triggering SGEN event based on the settlement days configured for the currency.
- System enhanced to introduce a new function to maintain Securities Delivery agents for the Counterparty for a Market or Settlement Location and use the same to populate additional tags for Settlement parties in MT 54x messages generated for Securities.

### **1.5.13 Split Settlement related enhancements**

- System enhanced to accept the split settlements for MM & SR modules and facility to generate split settlement messages.
- System enhanced to handle split settlements in FX, OT, DV and Securities for the outgoing funds on certain specific transactional amounts that are specific to respective modules.
- Pre-settlement Manager is enabled with split settlements for Capital Workflow (Securities module of Pre-Settlement Manager).

### **1.5.14 Standalone Lodge and Withdraw Messages**

- System enhanced to support generation of MT540 (Receive Free), MT541 (Receive Against Payment), MT542 (Deliver Free) and MT543 (Deliver Against Payment) on BOOK, AMND, CANC and REVR events for Standalone Lodge and Withdraw deal.

### 1.5.15 Repo and Reverse Repo collateral support changes

- Introduction of Collateral Portfolio to hold security pledged and received as part of Repo/Reverse Repo transaction.
- For a Repo transaction -
  - Provision for moving the securities pledged as part of repo either to a collateral portfolio or blocked in bank portfolio on booking.
  - Move back security from Collateral portfolio to Bank Portfolio on Repo Liquidation /Pre closure.
- For a Reverse Repo transaction -
  - Transferring securities received from counterparty to Collateral Portfolio on booking.
  - Transferring back the securities to counterparty from collateral portfolio on liquidation.

Message generation based on user choice -

- Either MT542/MT543 generated on repo booking.
- Either MT540/MT541 generated on reverse repo booking.

External/manual call for collateral revaluation supported as -

- Margin Pay/Receive for cash or securities with MT 540/542 generation for securities and MT 202/210 for cash OR Contract repricing as financial amendment.
- Margin Processing is enhanced to support if Securities pledged is Block. System to support Block Amendment to increase the Block Quantity.
- New Screen, Coupon Transfer is introduced to transfer coupon collected on the securities received as part of reverse repo deal to the reverse repo counterparty.
- A new sub screen is introduced in Securities Repo contract to view all the Securities and margin deals booked as part of contract processing life cycle and the generated messages.
- Support for generating GMRA (Global Master Repurchase Agreement) a paper-based confirmation, upon Authorization of Repo deal.

### 1.5.16 Derivatives MTM Principal reset

Interest Rate Swaps and Cross Currency Swaps are enhanced for

- Financial amendment of Principal and schedule change is supported and leads to a version increment of Derivative contract.
- Support for applying an amendment fee during deal amendment.

### 1.5.17 Capturing Additional Execution Details in Exchange Traded Derivatives

- Enhanced the Long Short and Liquidation deal booking functions to capture additional fields for Execution, including Execution Broker, Dealer, Trading Venue, Indicators for Voice and After hour trades.

### **1.5.18 Enabling FIFO/LIFO/DMAT for Futures**

- System enhanced to enable FIFO/LIFO/DMAT costing methods for Futures and Options with Future style premium. Also introduced new events for Premium settlement for Options.

### **1.5.19 MM Rollover preference change requests from Counterparties**

- Enhanced system to register the rollover preference change requests from customer on or before maturity date and use them for the next scheduled rollover event.

### **1.5.20 Future/back dated termination in OTC options**

- Enabled to capture the termination for future/back date.

### **1.5.21 Rate fixing feature in Money Market, Securities Repo, Derivatives, Options and Securities**

- Facility to capture rate fixing days and fixing date movement at the rate code and currency combination.
- Defaulting of the rate fixing parameters to Interest class, product, and contract level.
- Rate fixing schedule generation at the contract based on the defined parameters.
- Support for manual and batch rate fixing and triggering of rate fixing event on rate fixing schedule date.
- Support for bulk rate fixing manually and through gateway.
- Provision for rate fixing through Generic Interface and a facility to maintain the scheduler job for doing GI file processing automatically.
- Generation of MT320 during rate fixing in case of MM module.
- System to consider the rate for the effective date for rate revision and rate fixing and to skip the process if the rate is not available for the day. This functionality to be controlled by a parameter at branch level.

### **1.5.22 Bond Provisioning and Securities Status Processing**

- System enhanced to allow to post provisioning entries for the holdings against respective instruments.
- Status processing capabilities is brought into the system for the bank portfolio/bond instruments to support balance movement to different chart of accounts and continue accruals with different designated GLs for the adversity level and also a provision to stop accrual, if required.
- System enhanced to allow reversal of accruals (interest and discount/premium accruals) when a specific status for the instrument requires accrual reversals.

### **1.5.23 Trade Date Accounting in Securities**

- System enhanced to support Trade Date Accounting for Securities Position – Accounting for Securities Asset/Liability along with Premium/Discount Amortization for Straight line amortization and Realized PNL on the trade date itself.

- System enhanced to support Trade Date Accounting for portfolios with FIFO/LIFO costing methods and with Exponential/Constant yield amortization methods.

#### **1.5.24 Allowing Trades to be booked based on Projected Holdings in Repo**

- Enhanced the system to support booking of Repo deals based on the projected holdings as of the future initiation date, with the flexibility to book the deal even if the holdings are not known on the booking date.

#### **1.5.25 Premium for Zero Coupon bond - Securities**

- System enhanced to support premium pricing for Zero coupon bond.

#### **1.5.26 Weighted Moving Average method for Premium/Discount Amortization**

- Securities module enhanced with a new method for Amortization of Premium/Discount using Moving Average formula over remaining Months to maturity and assigning different weights for the previous year position and current year position. Also introduced a new parameter at portfolio level to reverse the amortization the next business day if configured, realizing the amortization only during Financial Year end.

#### **1.5.27 Multiple/Mixed calendar support for certain event dates**

- System enhanced to handle multiple calendar maintenances for event dates based on given preferences like multiple currencies, financial center & local holiday. This change is done across non-Islamic modules.

#### **1.5.28 Exercise/expire Currency Option based on Expiry location time zone / Time**

- System enhanced to exercise/expire currency options based on the expiry location time zone and expiry location time.

#### **1.5.29 External Revaluation for Modules Derivatives, Islamic Derivatives and OTC options**

- Support for external revaluation based on parameters defined at branch level.
- Support for MTM value upload through Generic Interface and through gateway.
- System to use the uploaded MTM value for revaluation entries in case of external revaluation.
- New event for external revaluation is introduced.

#### **1.5.30 Confirmation message enhancement in FX, MM modules**

- Support for marking a customer as a Fund type customer.
- System is enhanced to support confirmation message generation for settlement member and custodian.
- Support for sending generated messages in email as password protected PDF attachment.
- Support for below tags in SWIFT confirmation message

- 83A / 83J
  - 87A / 87J
  - 94A
  - 24D
  - 88A, D, J
  - 77D
- Support for mapping a common BIC to multiple customers for SWIFT message generation.
  - The tag, 77D to support the value /FIDU/ in MT300 and MT320 confirmation messages when the counterparty of the deal is flagged as Fiduciary.
  - 77D to support information related to Terms and Additional Condition.
  - Support for different values in 83 & 87 tags on messages sent to Custodian & Settlement member (both 300 & 320).
  - In MT 320 , support for population of tag D for fields 83 and 87.

### **1.5.31 Support for sending generated messages in email as password protected PDF attachment**

- Infra code is enhanced to support sending generated messages in email as password protected PDF attachment.

### **1.5.32 Payments product processor integration enhancements**

- System enhanced to consume Local Bank Directory details from Common Core data store to use in Local Clearing payment processing.
- System enhanced to support new OBPM SPS REST service Response Structure.
- System enhanced to integrate with OBPM for Cross border payment reversals and N92 message generation.
- System enhanced to process Payment reversal notifications received from Payments product processor and show the reversal message in Treasury Deal screens.
- Request Retry Count: System enhanced to reprocess timed out requests up to certain count based on user maintained parameter.
- Enhanced the system to capture separate Sender to Receive Information fields for Cover Message and sending the same to Payments processor during payment.

### **1.5.33 DDA product processor integration enhancements**

- Treasury system enhanced with summary web services, so that DDA system can fetch the Customer wise Treasury contracts using these web services and show in Corporate Customer 360 view function of DDA system.

### **1.5.34 FX forward linkage with external product processors**

Treasury system is enhanced to support:

- Linking of FX forward contracts to external applications (E.g. Trade Finance modules (BC, LC) contracts).
- OBTR can receive a LINK (Link), DLNK (de-link), UTIL (Utilization) and DUTL (De-Utilization) request from external applications.
- Based on the request received (LINK/DLNK/UTIL/DUTL), the value of linked amount, utilized amount and available amount of the FX forward contract would be computed.
- Existing web service OBTRFXService is added with a new operation “CreateFXLink” for the processing of these requests.

### **1.5.35 Limits and collaterals integration enhancements**

- Enhanced the System to integrate with ELCM for Limit Utilization for Treasury modules.

### **1.5.36 OFSAA integration**

- Enhanced the System to populate the required data to staging tables for OFSAA integration.

### **1.5.37 Securities Financing Transactions Regulation (SFTR)/ European Market Infrastructure Regulation (EMIR) changes**

- Introduced fields for capturing the information related to SFTR in Security Repo contract screen and Security Deal screen.
- Introduced fields to capture the data corresponding to EMIR in the contract screens of Derivative and Options.

### **1.5.38 Risk Free Rates (RFR) support in Treasury modules**

- System enabled to consume daily risk free rates from a published source and use methods applicable to respective module to calculate interest for main/ primary component. Negative interest rates are also supported in RFR.
- Below RFR methods are supported in various modules of Treasury
  - Look back
  - Payment delay
  - Lockout
  - Plain
  - Interest Rollover
  - Last Reset
  - Last Recent

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## 2. Components of the Software

### 2.1 Documents Accompanying the Software

The various documents accompanying the software are as follows:

- Product Release Note and Installer Kit
- User and Installation manuals – Refer [https://docs.oracle.com/cd/F29596\\_01/install.htm](https://docs.oracle.com/cd/F29596_01/install.htm)
- Online Help Files

### 2.2 Software Components

Software Components of Oracle Banking Treasury Management 14.5.0.0.0 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),Sub-template(xsbz))
- Java application layer
  - Java sources
  - Configuration files used for deployment
- Integration Gateway
- REST Services
  - Java application layer
    - Java sources
    - Configuration files used for deployment
- Conversion Utilities
- Installation utilities
- ADF files used by Generic Interface (GI) – incoming and outgoing
- Tools
  - ODT

## 3. Annexure – A: Environment Details

### 3.1 Teck Stack - Oracle

Component	Deployment option	Machine	Operating System	Software	Version Number
Oracle Banking Treasury Management	UI-Host and Centralized	Application Server	Oracle Enterprise Linux Server 8.3(x86 64 Bit)	Oracle Fusion Middleware Infrastructure	12.2.1.4.0
				Java HotSpot(TM) JDK (with WebLogic Application Server)	JDK 1.8 Update 281
				Open Symphony Quartz	2.3.2
		Database Server	Oracle Enterprise Linux Server 8.3 (x86 64 Bit)	Oracle RDBMS Enterprise Edition	19.10.0.0.0
		Reporting Server	Oracle Enterprise Linux Server 8.3 (x86 64 Bit)	Oracle WebLogic Server	12.2.1.4.0
				JDK	1.8 Update 281
				Oracle Analytics Server	5.9.0
			Windows 10	Mozilla Firefox	85+
				Google Chrome	88+
				Microsoft Edge	88+
			Mac OS X	Mozilla Firefox	Mozilla Firefox for Mac (85+)
				Safari	14+
				Google Chrome	88+



		Single Sign On Server	Oracle Enterprise Linux Server 8.3 (x86 64 Bit)	JDK	1.8 Update 281
				Oracle WebLogic Server	12.2.1.4.0
				Repository Creation Utility	12.2.1.4.0
				Oracle Identity Management	12.2.1.4.0
				Oracle SOA	12.2.1.4.0
				Oracle Identity And Access Management	12.2.1.4.0
				Oracle Web tier Utilities	12.2.1.4.0
				Oracle Web gate	12.2.1.4.0
Oracle Banking Treasury Management Integration Gateway	Web services (incoming)	Integration Server	Oracle Enterprise Linux Server 8.3 (x86 64 Bit)	Oracle WebLogic Server	12.2.1.4.0
	HTTP Servlet (incoming)				
	EJB (incoming)				
	MDB (incoming)				
	Notifications (outgoing)				

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## **4. Annexure – B: Third Party Software Details**

For information on the third party software details, refer to Oracle Banking Treasury 14.5.0.0.0 License Guide.

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## 5. Annexure – C: Module Code and Description

Module Code	Module Description
FX	Foreign Exchange
MM	Money market
SE	Securities
DV	Derivatives
ED	Exchange Traded Derivatives
OT	Over The Counter Derivatives
ID	Islamic Derivatives
MC	Islamic Money Markets
SR	Securities Repo and Reverse Repo

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## **6. Annexure – D: Deprecated Functionality**

None.