

Product Release Note
Oracle FLEXCUBE Investor Servicing
Release 12.0.3.0.0
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Version 12.0.3.0.0

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
www.oracle.com/financialservices/

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1. Release Notes

1.1 Background

Oracle Financial Services Software Limited has developed Oracle FLEXCUBE Investor Servicing Solution to enable banks to create a distributed network of branches for effective marketing and efficient handling of customer transactions. Oracle FLEXCUBE Investor Servicing 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 Investor Servicing 12.0.3.0.0

1.3 Abbreviations

Abbreviation	Description
UDE	User defined Elements
UCM	Universal Content Management
IPM	Imaging and Process Management
DMS	Document Management System
BPEL	Business Process Execution Language
BPMN	Business Process Management and Notation
BAM	Business Activity Monitoring
BRE	Business Rules Engine
FATCA	Foreign Account Tax Compliance Act
CPG	Common Payment Gateway
SDMC	Single Debit Multiple Credit
SDSC	Single Debit Single Credit
SSO	Single Sign On
ODT	Oracle Development Tool
MSAD	Microsoft Windows Active Directory

Abbreviation	Description
LDAP	Lightweight Directory Access Protocol
MSTL	Money Settlement
Bills	Various types of instruments which are in general referred as Bills
POS	Point of Sale
ELCM	Oracle FLEXCUBE Enterprise Limits and Collateral Management
FCY	Foreign Currency
FCIS	Oracle FLEXCUBE Investor Servicing

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

1.4 **Release Highlights**

The scope of the current release Oracle FLEXCUBE Investor Servicing 12.0.3.0.0 includes the introduction of FATCA functional enhancements, Negative Stock dividend, Trailer Fee and forward porting of applicable fixes related to incidences reported in previous versions.

Integration testing with Oracle FLEXCUBE Universal Banking Solution 12.0.3.0.0 and Oracle FLEXCUBE Direct Banking 12.0.3.0.0 has been completed.

1.5 **Enhancements to the Existing Modules**

1.5.1 **FATCA Enhancements**

1.5.1.1 **Foreign Account Tax Compliance Act (FATCA)**

- Foreign Account Tax Compliance Act (FATCA) is a US legislation aimed at stopping tax evasion by entities liable for US tax. The phase -1 of FATCA changes was released in previous release and handled the customer due diligence and classification. The phase – 2 changes for implementing FATCA involves the following:
 - Mandatory New field FATCA sponsor Types will be introduced in below screens.
 - Single Entity Maintenance
 - Broker Maintenance
 - Fund Rules
 - User can able to do the FATCA Classification only if FATCA Fund= Yes, going forward user should mandatorily do the FATCA Classification irrespective of FATCA Fund field value is either Yes/No.
 - GIIN details are added in the FATCA tab, single entity maintenance and broker maintenance
 - FATCA Withholding Tax - Added three new parameter for withholding tax - FATCA WHT applicable, FATCA WHT effective Date, FATCA WHT %
- Inclusion of FDAP income field in below screen
 - Fund Load Mapping @ fund rules

- Corporate Action TAB @ fund rules
- Derived Load maintenance:
- Periodic Load maintenance:

1.5.2 Trailer Fee

Trailer Fee Changes:

1. A new field will be introduced which will trigger the 'First Load to be Computed' i.e. Management Fee (MF) or Trailer (TC) Commission. This will be applicable only if both TC and MF loads are given; default value will be set to TC. However, it is applicable if the 'Netted AUM for Second Load' is 'Yes' since there is no impact if the 'Netted AUM for Second Load' is 'No'.
2. A new field will be introduced - 'Netted AUM for second load'. These will be 'Yes/No' flags and will have a validation that if the flag is on then set up at Group will be not applicable and will be only applicable if both TC and MF loads are given i.e. . Is applicable only for fund level periodic fee setup. The default value of flag will be set to 'No'
3. System will calculate MF and TC with single maintenance if 'Netted AUM for second load' is set as 'No'.
4. System will allow amendment of new fields.
5. There will be no restriction on intermediaries.- both brokers/entities will be supported
6. LEP will be out of scope

Periodic Load Accrual Changes:

1. First Load: During the process of getting return value for the first load either TC or MF will be computed. This will depend on the First Load computed value.
2. Second Load: During the process of getting return value for the second load:
 - Depending on the first load to be computed value, either TC load or MF load will be computed.
 - If the netted AUM parameter is true, the basis amount for slabs if any will be (first load AUM – first load accrued amount)
 - During the processing of second load computation, if the netted AUM parameter is true, TC with MF will be computed on the netted AUM.

1.5.3 Negative Stock Dividend

This functionality will be achieved by doing changes in the dividend processing. Whenever a negative stock dividend is declared a redemption transaction should be passed at current NAV/TXNBP 03 based on maintenance. The number of units that has to be redeemed will depend on the negative stock dividend ratio.

Few Points to be considered:

1. The transaction date of the redemption will be stock dividend processing date.
2. For the follow up redemption transaction – the transaction date of redemption date will be the clearing date.
3. These transactions will be identified by a separate ref type(RN) & there will be no settlement for these transactions- the payment mode will be in –kind & settelement date will be populated based on setup. The reference Number of the generated transaction will be "NEGDIV"
4. Only units update will happen and no accounting entries will be generated for these transactions.
5. If units are redeemed thru normal redemption before negative dividend redemption transaction, system will not generate the –ve dividend redemption transaction & these cases will be logged.
6. Before –ve stock dividend transaction allocation, if units are redeemed completely/partially and there is no sufficient units, system will log error during allocation

7. Reversals of normal & negative stock dividend will be supported
8. Backdata propagation should be impacted to take care of negative dividend & associated reversals
9. A field(stock dividend type) will be inserted at the Fund Dividend screen to indicate if it is a negative stock dividend
10. Reinvestment Processing will be impacted and this process would generate redemption transactions for negative stock dividend
11. Mock dividend will not be supported
12. Mass reprocess & selected UH will not be supported for negative stock dividend
13. Negative stock dividend will generate unit based transactions
14. Negative stock dividend is not supported for LEP.No surrender transactions will be generated
15. Negative stock dividend ref type will need to be maintained under exclude ref type for KYC list(KYC ref type restriction) to ensure- transactions is completed
16. Units for freeze holding- all basis will be supported
17. "Parent ratio should not be less than the resultant ratio for Negative stock dividend cases".
18. For Money Market Mutual Funds – the stock dividend frequency should be maintained as "Daily"

1.5.4 FCIS integration with FCUBS, FCDB

customers will place orders through FCDB system and the orders would flow into FCIS for further enrichment and unit allocation. The customer will be able to see the status of the order that he has placed. The order amount will get debited from the customer's bank account. Customer will be able to view all his assets (investments limited to Mutual Fund and Deposits) and liabilities on one screen.

The bankers also will get a 360 view of their customers in FCUBS.

We are expecting the following data to flow between the systems in the integrated scenario:

1. Static data will be operationally managed in both FCIS and FCUBS. CIF data will flow from FCUBS and will be persisted in FCIS
2. CASA details would be validated in FCIS using a 'Validate' Button
3. UH will be created and reside in FCIS. This will be a manual process.
4. Orders will be placed in FCDB and would flow to FCIS. FCIS post validating the Order and upon successful block will save the transaction and send a transaction creation success message to FCDB. Orders placement in FCDB and its validation in FCIS is an existing functionality and needs only a re - qualification. But the functionality around amount block and release, needs to be developed in FCIS.
5. Bankers can have a 360 degree view of customer's holdings in FCIS in FCUBS.

FCIS will have a client-country flag at installation level - INT_FCUBS and INT_FCUBS= Y will indicate that the FCIS system is integrated with FCUBS. . The client country code will be referred only for customer replication FCIS system and not for CASA validations.

While creating a transaction, If the client country code 'direct debit' and 'Default payment' is ON system will default the UH account details as settlement account on click of Enrich Button.

1.5.5 INFRA Enhancement

Multiple records view from summary screen

Facility provided to select multiple records from summary screen and view the detail records through a single detail screen launch having an option to navigate. This feature empowers the user to select the multiple records and navigate without double click on each record to view the details.

Formatting the Display of Number Fields

The number fields which are shown as plain numbers will be formatted either in Million Format/Lakh Format based on user preference for better readability. The number fields should be marked for formatting from ODT during screen design.

Restriction of Debug Window Option

The Debug Window option available on the landing page shall be restricted. Users who will have the Front-End Debug enabled from User maintenance screen only will have the option of Debug Window on Landing Page.

Browser Zoom-In Support

The browser zoom-in support has been provided. On browser zoom, the contents on the screen shall also be zoomed accordingly.

Audit logging thread performance

2. Components of the Software

2.1 Documents accompanying the software

The various documents accompanying the software are as follows:

- User Manuals
- Installation Guide
- Release Note
- Installer Kit

Note: User Manuals and Installation Guide can be accessed from

http://docs.oracle.com/cd/E53392_01/homepage.htm

2.2 Software Components

Software Components of Oracle FLEXCUBE 12.0.3.0.0 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)
 - Services
 - The WSDL files for the service supported
 - The XSDs of the messages involved
 - Structure (dictionary) of the XSD documented as excel sheets (Message-dictionary-xls)
 - The service documents – describing the services
- Adapters

- IS-UBS
 - FCIS MDB Adapter
 - UI Components (JS,XML)
 - Java sources
 - Stored Procedures (Packages, Functions, Procedures, Triggers, Views)
 - FCIS Callout Adapter
 - Java sources
 - Stored Procedures (Packages, Functions, Procedures, Triggers, Views)
 - FCIS Insulation Adapter
 - Java sources
 - Stored Procedures (Packages, Functions, Procedures, Triggers, Views)
- Conversion Utilities
- Installation utilities
 - Front end based installation for host
 - Script based installation for interface backend
 - Script based installation for interface application server components
 - Front end based installation for Gateway backend
 - Script based installation for gateway application server components
 - 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

Component	Deployment option	Machine	Operating System	Software	Version
Oracle FLEXCUBE Investor Servicing	UI-Host and centralized	Application server	List of operating systems are listed below the table	Oracle WebLogic Server 11g R1 (JDK 1.7 Update 51)	10.3.6
				Java HotSpot(TM) JDK (with WebLogic Application Server)	JDK 1.7 Update 51
				Open Symphony Quartz	2.1.7
				IBM websphere Application Server with inbuilt JVM (IBM JDK)	8.5.5.1
				IBM Websphere MQ Server	7.5.0
				Oracle WebCenter Content: Imaging	11.1.1.7.0
		Database Server		Oracle 11g R2 RDBMS Enterprise Edition	11.2.0.3.0
		Reporting Server		Oracle BI Publisher 11g	11.1.1.7.0
		FLEXCUBE Information server		Oracle Business Intelligence Enterprise Edition 11g (OBIEE)	11.1.1.7.0
		Client Machines		Windows 7 / 8	Internet Explorer
	Mozilla Firefox		26		
	Opera		18.0.1284.68		
	Apple Safari		5.1.7		
Google Chrome	31.0.1650.63				

Component	Deployment option	Machine	Operating System	Software	Version
Oracle FLEXCUBE Investor Servicing	UI-Host and centralized	Single Sign On Server	List of operating systems are listed below the table	JDK 1.7	JDK 1.7 Update 51
				Weblogic	10.3.6
				RCU Utility (Windows)	11.1.1.7.0_32
				Oracle Identity Management	11.1.1.5.0
				Oracle SOA	11.1.1.7.0
				Oracle Identity And Access Management	11.1.1.5.0
				Oracle Webtier Utilities	11.1.1.6
				Oracle Webtier Utilities Patch	p14264658
				Oracle Webgate	11.1.1.5
				OID Connector [File Name: OID_904140.zip]	9.0.4.14
Oracle FLEXCUBE Investor	UI	Application server	List of operating systems	Oracle WebLogic Server 11g R1 (JDK 1.7 Update 51)	10.3.6

Component	Deployment option	Machine	Operating System	Software	Version
Servicing BPEL Processes			are listed below the table	Oracle Repository Creation Utility (RCU) - To create SOA related schemas for BPEL	11.1.1.7.0_32
				Oracle SOA Suite 11gR1	11.1.1.7.0
Oracle FLEXCUBE Investor Servicing Integration Gateway	Web services (incoming)	Integration Server		Oracle WebLogic Server 11g R1 (JDK 1.7 Update 51)	10.3.6
	HTTP Servlet (incoming)			IBM websphere Application Server with inbuilt JVM (IBM JDK)	8.5.5.1
	EJB (incoming)				
	MDB (incoming)	Integration Server		Oracle WebLogic Server 11g R1 (JDK 1.7 Update 51)	10.3.6
				IBM Websphere MQ Server	7.5.0
	Notifications (outgoing)	Integration Server		Oracle WebLogic Server 11g R1 (JDK 1.7 Update 51)	10.3.6
IBM Websphere MQ Server			7.5.0		

Compatible operating systems are as follows

1. Linux X86-64
2. HP-UX Itanium
3. IBM AIX on Power Systems (64 Bit)
4. Microsoft Windows x64 (64 Bit)
5. Oracle Solaris on SPARC (64 Bit)

Oracle FLEXCUBE Investor servicing application is available in Oracle Software Delivery Cloud for the above Operating Systems

Note: During the testing exercise the Operating System used for the various components was Oracle Enterprise Linux Server 6.4 (x86 64 Bit).

4. Annexure – B: Third Party Software Details

Vendor Name	Licensed Technology	Version
Apache	Ant	1.7.1
Apache	Apache Commons Transaction 1.2	1.2
Apache	Apache POI	3.8
Apache	Apache XMLBeans	2.3
Apache	Commons Codec	1.2
Apache	Commons Pool	1.2
Apache	Commons-Collections	2.1
Apache	Jakarta Commons Http Client	3
Apache	Log4J	1.2.16
Apache	Xalan	2.7
Apache	commons-io-1.2.jar	1.3
Apache	dbcp (commons-dbcp-1.2.1.jar)	1.2.1
Apache	xercesImpl.jar	2.8.1
Fontbox	Font box	0.1.0
MetaStuff, Ltd.	Dom4j	1.6.1
Terracotta, Inc.	Quartz	2.1.7
PDFBox	PDFBox Library	0.7.3
Sean Owen	PJL Compressing Filter	1.7
Apache	xml-commons-resolver	1.1
The Apache Software Foundation	Apache Commons Logging	1.0.4
Apache	Apache Commons Net	2
The Apache Software Foundation	commons-discovery-0.2.jar	0.2
Apache	xml-apis.jar	1.3.03
Apache	Commons File Upload	1.2
Sun	Swing Layout	1.0.4
Yahoo	YUI Compressor	2.4.7
Apache	serializer-2.7.0.jar	2.7
SLF4J	slf4j-api-1.6.1.jar	1.6.1
SLF4J	slf4j-log4j12	1.6.1
Sarovar.org	JavaDBF	4.0

5. Annexure – C: Module Code and Description

Abbreviation/ Acronym	Meaning
FCIS	Oracle FLEXCUBE Investor Servicing
ID	Identification
SMS	Security Management System
ITP	Integrated Test Plan
MIS	Management Information System
WB	Web Branch
WF	Work Flow