

Product Release Notes
Oracle Banking Origination
Release 14.6.0.0.0
Part Number F57153-01
May 2022





Product Release Notes

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

<https://www.oracle.com/industries/financial-services/index.html>

Copyright © 2021, 2022, Oracle and/or its affiliates. All rights reserved.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

U.S. GOVERNMENT END USERS: Oracle programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, delivered to U.S. Government end users are "commercial computer software" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, shall be subject to license terms and license restrictions applicable to the programs. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate failsafe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

This software or hardware and documentation may provide access to or information on content, products and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services.

Table of Contents

1	Release Notes	1-1
1.1	Background	1-1
1.2	Purpose	1-1
1.3	Abbreviation	1-1
1.4	Release Highlights	1-2
1.5	Release Enhancements	1-4
1.5.1	Support for Small and Medium Business	1-4
1.5.2	Decision Service Support	1-5
1.5.3	Disbursement/Repayment Related Enhancements	1-9
1.5.4	Service Level Agreement (SLA) Enhancements	1-10
1.5.5	Party Enhancements	1-10
1.5.6	Advice Enhancements	1-11
1.5.7	Collateral Related Enhancements	1-12
1.5.8	Document Upload Enhancements	1-13
1.5.9	Other Enhancements	1-13
1.5.10	Integrations	1-17
2	Components of the Software	2-1
2.1	Documents Accompanying the Software	2-1
2.2	Software Components	2-1
3	Annexure - A: Environment Details	3-1
3.1	Tech Stack – Oracle Banking Origination	3-1
4	Annexure - B: Third-Party Software	4-1

1 Release Notes

1.1 Background

Oracle Financial Services Software Limited has developed Oracle Banking Origination to offer seamless flexibility to financial institutions for easy adaptability to market needs and to enable banks to streamline their operations using Task based workflows and improve their overall operational efficiency while onboarding various Banking products across Savings Accounts, Current Accounts, Term Deposit Accounts, Loan Accounts and Credit Cards.

Oracle Banking Origination is the middle office banking solution with a comprehensive coverage of Retail Banking origination processes. It enables Banks to deliver improved user experience for various Bank personas handling defined functions in the lifecycle of the various product originations.

1.2 Purpose

The purpose of this Release Note is to propagate the enhancements in Oracle Banking Origination Release 14.6.0.0.0 (which was earlier called as "Oracle FLEXCUBE Onboarding").

1.3 Abbreviation

Abbreviation	Description
IPA	In-Principle Approval
UI	User Interface
CAOD	Current Account with Overdraft
CASA	Current Account / Savings Account
DS	Data Segment
GL	General Ledger
NLP	Natural Language Processing
OCR	Optical Character Recognition
OD	Overdraft
FOP	Formatting Objects Processor
SMB	Small and Medium Business
SLA	Service Level Agreement

1.4 Release Highlights

The rationale for the product release of Oracle Banking Origination Release 14.6.0.0.0 is to further enhance the origination features of the existing products supported such as Savings Accounts, Current Accounts, Credit Cards, Term Deposits and Loans and help improve the competitiveness of our product in the 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.

Support for Small and Medium Business

- Origination of Liability Products for Small and Medium Business
- Stake Holder details – Onboarding for new SMB customer
- Origination of Loans for Small and Medium Business

Decision Service Support

- Decision Support, Risk Based Pricing and Workflow Changes for Loans
- Introduction of new stages after Assessment stage
- Changes in the Assessment Workflow based on Decision Service Recommendation
- Integration with enhanced features of Decision Service and Bureau Integration Service
- Strategy Definition for Pricing & Decision service
- Credit Decision and Risk Based Pricing for Current Account with Overdraft
- Credit Decisioning for IPA from Decision Service
- Decision Service for Credit Card Origination
- Pricing (Debit Interest) related enhancements – Asset product Originations
- Pricing (Default Limit Interest Rates) related enhancements
- Debt to Income Ratio (DTI) to include the existing loan instalments in addition to the proposed loan installment

Disbursement/Repayment Related Enhancements

- Ability to capture the future date for first disbursement and ability to select GL account for disbursement
- Loan disbursements to third parties
- Ability to capture the repayment instruction subsequent to assessment

Service Level Agreement (SLA) Enhancements

- Service Level Agreement – Maintenance
- Dashboard - SLA Widgets

Party Enhancements

- Party De-Dupe
- Customer Signature Capture
- Customer Information Details UI enhancements

Advice Enhancements

- Oracle Banking Microservices Architecture Advice Services
- Application Printing – CASA / TD / Loans

Collateral Related Enhancements

- Collateral Integration and Mapping of Limit Types for Current Account with Overdraft
- Inclusion of Bank's own Term Deposit Account in Collateral Linkage
- Skipping of Underwrite and Assessment stages in Loan Origination where Bank's own Term deposit is used as Collateral
- Collateral - Term Deposit – Warning message for near maturity

Document Upload Enhancements

- Documents upload – Enhancement of View, Expiry and Delete Features
- Loan Documents Captured in Oracle Banking Origination linked to Loan Account

Other Enhancements

- Application De-Dupe
- Task Allocation
- Loan Origination – Full application data capture feature in Initiate stage
- Multiple Business Product linkage in Business Process Definition
- Approval Task – Inclusion of the previous Data Segments in View mode for Term Deposits, Savings Accounts, Current Accounts, Loans and Credit Card
- Regrouping of commonly used Data Segments
- Additional Fields for Expenses in Financial Data Segment
- Change of Charges Data Segment from Grid Structure to Box Structure
- AI-ML – Forecasting of expected Account opening date
- Loans – Addition of Requested Amount

Integrations

- Integration with Decision Service for getting the Total Weighted Score, Assessment Decision and Risk Based Pricing for IPA, Current Account with Overdraft Applications, SMB CASA – Overdraft applications, Loan Applications and Credit Cards
- Oracle Banking Microservices Architecture Advice Services & Migration of existing Oracle Banking Origination Advices to FOP
- Bureau service Integration for bringing in Bureau score.
- Oracle Banking Digital Experience Integration – for IPA enablement
- OCR / NLP – Integration for uploading Customer Information details.

1.5 Release Enhancements

1.5.1 Support for Small and Medium Business

1. Origination of Liability Products for Small and Medium Business

Oracle Banking Origination now supports all liability products originations for SMB type of customers. The following are the Product lines supported

- Savings Account
- Current Account without Overdraft
- Current Account with Overdraft
- Term Deposit

An additional field –Product category- has been introduced in the Business Product configuration with the option to select Individual or SMB Category

Business process definition will now have the option to select the Product Category based on which the Business Product Codes can be selected and tagged to the Business process definition

The Customer information DS will now have the option to select the Customer type based on which the relevant screens will be rendered for data capture. The Customer Information DS will now have the following Customer types as drop-down values

- Individuals
- Small and Medium Business

Stake holder details can now be captured as part of the Small and Medium Business customer on boarding process. The following are the stake holder types supported for capturing relevant data

- Owner
- Authorized Signatory
- Guarantor
- Supplier

SMB – Current Account with Overdraft origination workflow will use the Credit Decision Service and provide the recommendation as part of the Assessment. The workflow will also have the flexibility of routing through Manual Credit Assessment and Decision, based on the recommendation provided by the Credit Decision Service.

2. Stake Holder details – Onboarding for new SMB customer

Onboarding of new SMB stakeholders is possible from the release. Oracle Banking Origination will support capturing of new customer data for all given types of stake holders – Owner / Authorized signatory / Supplier / Guarantors - in the Stake holder details DS.

Oracle Banking Origination will generate a unique reference number for these records respectively. This will be available in the Free task grid. The same must be actioned by a user who has been given the role / access to process / onboard such Party records. Such new SMB stakeholders will be onboarded as a NON-CUSTOMER in Party Module, and the record / Data will be held only as a PARTY in Party Module.

3. Origination of Loans for Small and Medium Business

The origination workflow for Business Loans and Term Loans is now available for Small and Medium Business (SMB) customer categories. The modus operandi will be similar to that of the existing Loan Origination workflow referenced for Individual Customer category.

Process Code - A referenced Process code configuration with the relevant set of origination stages for Business loans is made available.

Business Process definition - will now have the SMB in the Product category LOV and continue to use the same lifecycle code for Loans. All other validations and definitions remain unchanged.

Business Product configuration - will now support Small and Medium Business under Product Category and Business and Term Loans will be the corresponding values for the Product Sub-Types. The Product preferences section will now have a refreshed demography details to be captured for SMB. All other configurations in the Business product with the relevant features remains unchanged.

Product Catalog – the SMB tab will now have the Product Loans and the respective Product Sub-Type (Business Loans and Term Loans). All actions like Apply, Compare, Add-to-cart operations remains unchanged.

1.5.2 Decision Service Support

1. Decision Support, Risk Based Pricing and Workflow Changes for Loans

Oracle Banking Origination now has the feature to configure facts, rules, scoring features, scoring models and decision matrix along with Pricing as part of the enhanced decision engine service which is capable of providing the Approval decision along with risk-based pricing for Loan Applications.

The integration with Decision service provided by Decision Service has further strengthened the origination workflow in terms of guided evaluation and credit appraisals for Loan applications.

The following Decision Service Configurations screens have been included in Oracle Banking Origination menu options to support the above feature:

- Facts and Rules Configuration
- Scoring Feature Configuration
- Scoring Model Configuration
- Decision Grade Matrix Configuration
- Pricing Configuration

Additionally, the option to use only Decision Service for Credit Decisions or with a combination of using the Decision Service along with Bureau Integration Service is also made available.

Business product changes have been introduced to support Decision Service integration.

Oracle Banking Origination can also initiate Pricing call subsequent to manual credit assessment.

2. Introduction of a new stages after Assessment stage

Manual Credit Assessment and Manual Credit Decision Stages

Where the system recommendation for applications are marked as 'Manual', such applications will be routed into a new stage – Manual Credit Assessment Stage – upon submit of Assessment stage. For these applications the Approved Loan Amount will have to be handled manually after due diligence by the Credit / Loan officer. Loan officer can either recommend for approval or reject the application. If the Loan officer recommends for approval and submits the stage, the process moves to Manual Credit Decision Stage.

Multi-level approval stage(s) can be configured for Authorizing the sanction of Loan, with the ability to re-route the application back into Manual Credit Assessment stage.

Account Parameter Setup Stage

A New stage has been made available after the Assessment stage, to provide flexibility and handle pricing changes, if any.

The data segments which are tagged in this new stage are similar to the Application Enrichment stage data segments. While the Enrichment stage would be made non-mandatory, this Account Parameter setup stage would be a Mandatory stage. The practicality of this move is to help the business to further fine tune the Interest / Charges (Pricing) changes, on a case-to-case basis and also capture the borrower's Disbursement / Repayment Account details which would be readily available by this stage of Loan Origination.

3. Changes in the Assessment Workflow based on Decision Service Recommendation

Upon the introduction of the Decision Service to provide the Assessment recommendations, the following enhancements have been done in the Assessment stage and also to the workflows subsequent to the Assessment outcomes.

- Assessment DS will display the Decision Service provided System recommendation for the given application based on its evaluation.
 - Approved
 - Manual
 - Rejected
- The Execution summary will be fetched from the Decision Service and displayed for the Application. The following details will be available on the screen:
 - Total Weightage Score
 - Weightage score will be displayed per Applicant
 - Weighted score vs Features details will be displayed – graphical presentation
 - Stacked Graph representing the Feature scores on an percentage scale
 - Scoring Matrix Grid – Details of Range and Scores
 - Grade
- Risk based pricing (recommended Interest rate for the Loan) based on Grade
- Approved Loan Amount would be made available only for Approved Applications.

The following are the workflow changes on submit of Assessment stage introduced based on the approval recommendations provided by the decision engine.

System Recommendation - Approved

Submit of the Assessment Stage for Approved Applications will route the Applications to a new stage – **Account Parameter Setup** stage.

Account Parameter Setup stage is a Mandatory stage. The practicality of this move is to help the business to further fine tune the Interest / Charges (Pricing) changes, on a case to case basis and also capture the borrower's Disbursement / Repayment Account details which would be readily available by this stage of Loan Origination.

Any change in Pricing will route the application into an Approval stage, where it can be either approved or declined. Approved applications will be successfully routed to the next logical stage - Offer issue stage - (representative and factory shipped). The declined ones will go back to the Account Parameter Setup stage for the user to take necessary action.

System Recommendation - Manual

Submit of the Assessment Stage for Manual Credit Assessment – Manual - will route the Applications to a new stage – **Manual Credit Assessment** stage.

Multi-level approval stage(s) can be configured for Authorizing the sanction of Loan, with the ability to re-route the application back into Manual Credit Assessment stage.

Ability to initiate Decision Service and Pricing call subsequent to successful manual credit assessment.

Manually approved applications will take the route of going into the Account Parameter Setup stage, eventually after they are approved and moved into the next logical stage – viz., Offer issue

System Recommendation - Rejected

Applications which are recommended by the decision service as Reject will be terminated upon submit of Assessment stage. The following improvements have been made in the workflow

- Reject letter generation – and notification to the Applicant
- Storing of Reject letter in DMS
- Capturing of Reject reason (free text)

Applications which are rejected in the course of Manual Credit Assessment will take precedence of the same workflow as explained above.

4. Integration with enhanced features of Decision Service and Bureau Integration Service

Decision service features have been further enhanced to include the following

- **Borrowing Capacity** – Ability to compute maximum lendable amount based on user defined rules
- **Logical Model** –Facts like Age, Bureau, Income, etc. can be used as threshold in this model to eliminate / consider the eligible applications for further processing
- **Questionnaire** – Set of questions and answers can be configured which can be used in the Qualitative scoring model
- **Qualitative Scoring Model** – Linking of Questionnaire and defining of scores
- **Quantitative Scoring Model** – Linking of Features and defining of scores
- **Decision Grade Matrix** configuration based on any Numeric Fact(s) - the configuration now supports usage of quantitative and qualitative scores with an appropriate range which can be tagged with the relevant decision outcome – Approve / Manual / Reject

5. Strategy Definition for Pricing & Decision service

- Decision Service can be called for the multiple purposes like Logical Check, Borrowing Capacity, Pricing and Decision, and for the combinations like Score and Decision or Borrowing Capacity and Pricing, etc.
- In this menu, Oracle Banking Origination will be able to configure the strategy as per its requirement like whether the logical check should be done or not when Decision Service is called for Borrowing Capacity.
- Separate strategy can be defined for Origination, Servicing and Collection.
- User can define the multiple strategy for the same module.
- Oracle Banking Origination will pass the **Strategy Code** based on which the request is processed in addition to the request type.
- Product Processor and Strategy Code should mandatorily be part of all the request calling Decision Service.

6. Credit Decision and Risk Based Pricing for Current Account with Overdraft

Oracle Banking Origination now has the feature to configure facts, rules, scoring features, scoring models and decision matrix along with Pricing as part of the enhanced decision engine service which is capable of providing the Approval decision along with risk-based pricing for Current Account with Overdraft Applications also.

The integration with Decision service provided by Decision Service has further strengthened the origination workflow in terms of guided evaluation and credit appraisals for Current Account with Overdraft applications.

Upon the integration of Pricing and Decision service even for Current Account with Overdraft, the workflow changes on the Assessment workflow will be in line with the Loans Assessment and subsequent Manual Credit Assessments. Also, the Account parameter step-up stage will provide the flexibility to manage the Interest and Charges subject to Supervisory approvals.

7. Credit Decisioning for IPA

The In-Principle Approval (IPA) will now have an Assessment capability. The IPA process will henceforth use the Decision Service along with pricing to provide Assessment recommendations. The following enhancements / inclusion of data segments have been made to the existing IPA workflow:

- IPA Details DS will now have Requested Loan Amount field.
- Credit Rating DS – which will provide the credit scores of the Applicant. (Integrated with Bureau service to get the score from Equifax and Experian)
- Qualitative Score Card DS – to capture responses on the Questionnaire attached for the given Product
- Assessment Details DS – Will provide the recommendation, Grade and Approved Loan amount along with Pricing with all the details of the weighted scores for the respective features used in Assessment. Recommendations will be either Approved or Rejected

8. Decision Service for Credit Card Origination

Integration with Decision Service has been done for Credit Card Assessment and approval. Accordingly, the Underwrite stage and Assessment Stages have been included in the Credit Cards origination workflow.

Assessment Details will provide the System Recommendation for Approval and the necessary details of scoring models used and feature scores will be displayed based on the configuration.

9. Pricing (Debit Interest) related enhancements – Asset product Originations

Pricing enhancements will now enable the users to capture Margin / Variance to be loaded on Floating and Fixed Interest rates respectively. Based on the Margin / Variance maintained in the Pricing configuration the Decision service will henceforth provide only the proposed risk-based Margin / Variance. The effective interest rate will then be a derived value.

The necessary UI changes to handle the Margin and Variance fields have been done on the respective Data segments to cover both Floating and Fixed Interest Rate types which may be used in the Product Origination.

10. Pricing (Default Limit Interest Rates) related enhancements

Current account – Overdraft origination flow will now fetch the Default Limit Interest Rates based on Limit Type in the Account Limit Details DS. These interest rates (Floating or Fixed) will default from the Host Account Class - Default Limit configuration. This feature will be available for CAOD originations for both Individual and Small and Medium business customer types.

The user will have the option to provide the Margin or Variance on top of the Floating / Fixed interest rates respectively in the Account Limit Details DS.

If Risk based pricing is enabled, the Decision service will provide the proposed Margin / Variance which will be applied on these Floating / Fixed rates as part of the Assessment workflow. However, going forward, the user will still have the option to further change the margin or variance in the Account Parameter Setup stage. Any price change will be subject to a Supervisory authorization.

11. Debt to Income Ratio (DTI) to include existing loan instalments in addition to the proposed loan instalment

The Debt to Income (DTI) ratio calculation will now take into consideration the Existing Loan Payment amount details (monthly) captured in the Financial Details DS as well as the applicable instalment amount for the requested Loan Amount. This will help project a more realistic ratio based on which the credit decision can be made.

1.5.3 Disbursement/Repayment Related Enhancements

1. Ability to capture the future date for first disbursement and ability to select GL account for disbursement

The Disbursement Data Segment will provide an option to the user for capturing the settlement details in full or just the First disbursement date (defaulted to current date – user will be allowed to provide any future date. Back value date not in scope) along with the Loan Amount (defaulted by the system). Also, the Disbursement mode LOV will now have a GL account option along with the existing Own Internal Account / Other Internal Account / External Account options. In the absence of any internal account, the user can select the GL account which is set to the default GL account as configured in the Host system.

The Disbursement Data Segment will be available to the user in the referenced Application Enrichment and subsequently in the Account Parameter Setup stage where the user can provide for the necessary information.

2. Loan Disbursement to Third Parties

Loan disbursements can now be made to the accounts of third parties (parties other than borrowers) such as Dealers or Builders based on the availability of their accounts with the Bank.

The user will now have the option to disburse the Loan amount to the operative account of the Borrower / Dealer / Builder as required by the business.

The option to capture external bank details for disbursement remains unchanged.

3. Ability to capture the repayment instruction subsequent to assessment

The Repayment Data Segment will now support an additional LOV in the Repayment mode. The user will be able to select a new LOV value – Capture Later – an option which will help the user to capture the relevant repayment account in the later stages of origination. The existing Repayment mode LOV's remain unchanged.

The Repayment Data Segment will be available to the user in the referenced Application Enrichment and subsequently in the Account Parameter Setup stage where the user can provide for the necessary information. In the absence of any Internal Account, own or external, the system will default the GL Account which is configured in the Host system.

1.5.4 Service Level Agreement (SLA) Enhancements

1. Service Level Agreement – Maintenance

Banks would want to have a service level agreement (SLA) with its customers or as an internal policy of the bank. To meet this requirement, SLA Maintenance will be available based on the Business Process-Stage- Priority combination. User will be able to Maintain SLA, Authorize, Edit and Delete.

2. Dashboard - SLA Widgets

A new SLA status widget is made be available in the Dashboard and will be accessible as per user credentials. The following are the highlights

- The Widget will display the SLA status maintained at the process level.
- The Widget will also display only those tasks that have not been handed off to Back Office system.
- The SLA Status Widget will highlight the tasks that are within SLA (in green), approaching SLA breach (in amber) and that have breached SLA (in red).
- The Widget is designed in such a way that the user will be able to view the number of items in each status for all the processes.
- Widget will provide for necessary filters for viewing the SLA status

1.5.5 Party Enhancements

1. Party De-Dupe

Oracle Banking Origination will now call the De-Dupe service offered by Party Module while onboarding a New Customer.

Customer De-Dupe check service will be called for the following Customer types

- Individuals
- SMB Customers

Customer De-Dupe Check will be done in the following stages

- Application Initiate
- Application Entry

Based on the configuration available at the Bank level / Properties Table, the De-Dupe service call can be enabled or not enabled for the product Originations in Oracle Banking Origination.

Attributes to be used/called for De-Dupe check should be pre-configured in Party Module for Oracle Banking Origination to return the hit results.

2. Customer Signature Capture

Signature capture feature has been added in the Customer Information DS for Individual customer Origination. Signature capture will be non-mandatory field and will not stop the application if the signature is not captured in this data segment.

For SMB Origination, the signature capture/display will be available in the Stakeholder DS. Signature will be applicable only for Stakeholder type 'Authorized Signatories'.

- The Customer signature will be in view only mode if the signature is captured during onboarding.
- For non-customer, the user will be able add/modify/delete signatures.

3. Customer Information Details UI enhancements

Customer information Details data segments in Oracle Banking Origination has been refreshed to include more data elements introduced by the Party Application.

The following fields have been included in the current data segment

Customer Type - INDIVIDUALS

- Name in Local Language
- Details of Special Needs
- Remarks for Special Needs
- Relationship Manager ID
- Staff – Flag

1.5.6 Advice Enhancements

1. Oracle Banking Microservices Architecture Advice Services

The following Advices / Letters will be made available

- Generation of Regret Letter for rejected applications seeking In-Principle Approvals
- Generation of Regret Letter for rejected applications for Loans
- Generation of Loan Approval Letter
- Term Deposit Account letter - intimation for Accounts created successfully
- Savings Bank Account letter - intimation for Accounts created successfully
- Credit card Application Approval
- Credit card Application Rejections

2. Application Printing – CASA / TD / LOANS

The following advice will be made available for Viewing and Printing

- Application form printing for Savings and Current Accounts
- Application form printing for Term Deposits
- Application form printing for Loans

1.5.7 Collateral Related Enhancements

1. Collateral Integration and Mapping of Limit Types for Current Account with Overdraft

Consequent to the introduction of the Pricing and Decision service for the purpose of Current Account with Overdraft Credit evaluation, the Collateral Data Segment, Account Limit Data Segment and Financial Details Data Segment have been made available in the Origination workflow.

The data segments included under Overdraft Limits Stage” in Current Account with Overdraft origination are as under:

- Collateral Data Segment
- Account limit Data Segment
- Financial Details Data Segment

The onboarding of New Collateral using either the Oracle Banking Credit Facility Process Management platform and/or directly sending the request to the Host for creation of the Local Collateral is now supported even for the Current Account with Overdraft origination process.

Account Limit Data Segment is the new data segment introduced to provide the details of the Limit type and Linkage amount respectively. Data capture for the following Limit types are supported:

- Term Deposit (Bank’s own)
- Collateral
- Unsecured

Financial Details can be seeded for the New Customer or if the Customer is an Existing party the values of Income / Expense / Asset / Liability will be defaulted from Party Management. These details can be used or can be suitability amended and passed on to the downstream Party Management and Decision engine for update / evaluation.

The workflow changes on the Assessment workflow will be in line with the Loans Assessment and subsequent Manual Credit Assessments. Also, the Account parameter step-up stage will provide the flexibility to manage the Interest and Charges subject to Supervisory approvals.

2. Inclusion of Bank’s own Term Deposit Account in Collateral Linkage

Linking of Term Deposit being used as collateral for Loans / Overdrafts - include the following features:

Ability to capture/ select the term deposit number.

System will display term deposit details like Amount, date of Maturity, Available amount for utilization upon capturing the number.

Utilization amount (based on the available amount of collateral) can be captured.

System will validate and place a lien on the term deposit when the final payload is submitted to HOST for Loan / Overdraft account creation – (based on already available allow collateral linkage flag on the Host side)

3. **Skipping of Underwrite and Assessment stages in Loan Origination where Bank's own Term deposit is used as Collateral**

The origination workflow for Loans will now skip the Underwrite and Assessment stages in case the underlying Collateral provided by the borrower / applicant is Bank's own Term Deposit.

The necessary configuration changes have been made available in the Loans domain workflow orchestration (DSL setup) and would be available for sample implementation

4. **Collateral - Term Deposit – Warning message for near maturity**

If Term Deposit is used as a Collateral, Oracle Banking Origination will now validate the Term Deposit remaining days to maturity. A warning message will be displayed to the user if the Loan tenure or Overdraft limit period is greater than the Term Deposit remaining days to maturity.

1.5.8 **Document Upload Enhancements**

1. **Documents upload – Enhancement of View, Expiry and Delete Features**

The following enhancements have been introduced:

- Remarks captured during document upload maintenance can be viewed by all / any subsequent users
- Option to Delete an uploaded Document
 - Mandatory Documents – Same stage
 - Mandatory Documents – other stages (with validation)
 - Non-Mandatory Documents – allowed without implication of stages
- Status of Documents uploaded – Open / Closed

2. **Loan Documents Captured in Oracle Banking Origination linked to Loan Account**

Loan documents captured in the Origination process will now be made available for viewing on the Host side once the Account is successfully created. For this purpose, all the document categories have now been mapped with the underlying host document types. The mapping of these documents is handled in the Oracle Banking Routing Hub layer.

1.5.9 **Other Enhancements**

1. **Application De-Dupe**

This feature has been built to eliminate duplication of applications which may creep into the system for various Product originations including IPA originations. The System will verify and validate for duplication on all in-flight applications across all product originations for both New Customers and Existing Customers. The validation would be available on SUMBIT of the referenced **Initiate** and **Application Entry** stages of Oracle Banking Origination.

A Bank level configuration has been provided to enable / disable this feature. If enabled, the system will validate that any application is in progress for the same product and customer combination. The user will have the option to override the application de-dupe message at the respective reference stage submissions.

2. **Task Allocation**

Dynamic Task Allocation intends to allocate the tasks/stages dynamically to a user based on pre-configured rules. This new feature will enable allocation of tasks to different users based on attributes like Branch, Currency, Loan Amount etc. Task Allocation will use the existing Rules and Rule Group framework. These RULES can be configured using a set of factory-shipped FACTS. Additional facts can also be created as required. Rules are defined first with relevant conditions. In the Rule Group definition, rules are added with priority assigned for each rule. Rule group will be linked to a business process/stage.

Once the task is created for a business process, if there is any task allocation linked to that stage, system will run the rule and assign the task accordingly. If all the rules are run without meeting any condition, task will remain as unassigned

3. **Loan Origination – Full application data capture feature in Initiate stage**

Loan origination will also have the option of capturing more details within the Initiate stage, which will essentially cover the various data segments which are a part of the sample implementation under Application Entry stage.

Based on the configuration at the respective Business products, the option to capture more details will be made available in the initiation UI for a given product origination workflow – (for both Asset and liability product)

4. **Multiple Business Product linkage in Business Process Definition**

The Business Process definition will now support linking of multiple Business Product Code whereby the business will be able to achieve the origination workflows for a given set of Business products which are similar in Product offerings.

5. **Approval Task – Inclusion of the previous Data Segments in View mode for Term Deposits, Savings Accounts, Current Accounts, Loans and Credit Card**

The Approval stage will now have all the completed data segments displayed in view only mode to the Supervisor to provide complete view of the data captured/ updated as part of onboarding process. The following are the details of the Data segments made available in the respective product origination approvals.

The following Data Segments are now made available as part of Term Deposit Account Approval Stage:

- Customer Information - View only
- Account Details - View only
- Nominee Details - View only
- Mandate Details - View only
- Interest Details - View only
- Initial Funding Details - View only
- Account Information

The following Data Segments are now made available as part of Savings Account Approval Stage:

- Account Details - View only
- Mandate Details - View only
- Nominee Details - View only
- Secured OD Details (if applicable) - View only
- Financial Details (if applicable) - View only

- Interest Details - View only
- Charge Details - View only
- Temporary Overdraft Details (if applicable) - View only
- Advance Against Un-cleared Funds (if applicable) - View only
- Initial Funding Details (if applicable) - View only
- Approval Details

The following Data Segments are now made available as part of Current Account Approval Stage:

- Customer Information - View only
- Account Details - View only
- Mandate Details - View only
- Nominee Details - View only
- Account Limit Details (if applicable) - View only
- Financial Details (if applicable) - View only
- Interest Details - View only
- Charge Details - View only
- Temporary Overdraft Details (if applicable) - View only
- Advance Against Un-cleared Funds (if applicable) - View only
- Credit Rating Details - View Only
- Valuation Details (if applicable) - View Only
- Legal opinion (if applicable) - View Only
- Assessment Details (For Auto Approved applications) - View Only
- Manual Decision Details (For Manual Decision cases) - View Only
- Collateral Perfection (if applicable) - View Only
- Initial Funding Details (if applicable) - View only
- Approval Details

The following Data Segments are now made available as part of Loan Account Approval Stage:

- Customer information - View Only
- Loan Details - View Only
- Mandate Details - View Only
- Financial Details - View Only
- Collateral Details - View Only
- Guarantor Details (if applicable) - View Only
- Credit Rating Details - View Only
- Valuation Details (if applicable) - View Only
- Legal opinion (if applicable) - View Only
- Assessment Details (for Auto Approved applications) - View Only
- Manual Decision Details (for Manual Decision cases) - View Only
- Offer Issue - View Only
- Offer Accept/ Reject - View Only
- Collateral Perfection (if applicable) - View Only
- Loan Summary Details

The following Data Segments are now made available as part of Credit Card Approval Stage:

- Customer Information – View only
- Financial Details (if applicable) – View only
- Card Preference Details – View only
- Add-on card holder Details – View only
- Approval Details DS – Editable

6. Regrouping of commonly used Data Segments

Subsequent to the enhancements of Credit Assessment features for both Loans and Current Account overdrafts, the existing Data segments which were commonly used in these Product Originations have been regrouped under the relevant common categories for ease of Business process definition.

The following data segments have been moved into the common domain categories

- Credit Rating Data Segment (Common)
- Assessment Data Segment (Scorecard)
- Collateral Data Segment (Collateral)

7. Additional Fields for Expenses in Financial Data Segment

The Financial Details Data Segment has been enriched further to support capturing of specific attributes which can be used in the Credit Decision service.

The following Expense attributes have been included (in addition to the existing):

- Loan Payments
- Utility Payments
- Insurance Payments
- Credit Card Payment

8. Change of Charges Data Segment from Grid Structure to Box Structure

The rendering of the UI has been enhanced to align with the UX standard and to also provide a more user-friendly look and feel. The Charges Data Segment screen has box structures where the Charge Type and Value can be captured by the user.

9. AI-ML – Forecasting of expected Account opening date

Oracle Banking Origination now supports prediction of Account opening date even at the time of initiation of Origination based on Data Projection which is made available in the Oracle Machine Learning Module. The iterative process of validating and projecting the expected account open date at every instance of the Application details enquiry, helps project a realistic / current status of the application to the Customer.

The following are the highlights of the features being delivered:

- Application Data points will be made available in the Projection DB for Machine Learning Model
- Dashboard related changes for Expected Account Opening Date
 - Expected Account opening date label will be available in the Product Details Card.
 - Additional Information Details will show the basis of calculating the Expected Account Opening Date.
 - Validations on invalid status of Application(s) will stall the expected account open date projection.

10. Loans – Addition of Requested Amount

A new field – ‘Requested Loan amount’ – has been introduced in the Loan origination workflow. This has been introduced to distinguish the “Loan Amount” recommended by the Decision service with that of the loan amount originally requested by the borrower.

1.5.10 Integrations

- Optical Character Recognition (OCR) / Natural Language Processing (NLP) will be used to extract Customer information from a pre-configured list of valid Identity documents. A new upload document link is provided in the Customer Information Details DS to pre-populate Customer information data using OCR / NLP technology which reads and extracts the information from the valid identity documents tendered by the Applicant Customer.
- Integration with Decision Service for getting the Total Weighted Score, Assessment Decision and Risk Based Pricing for IPA, Current Account – Overdraft Applications (Both Individuals and SMB Customers), Loan Applications (Both Individuals and SMB Customers) and Credit Cards. Consequent to the Decision Service integration, the revised Assessment Data segment screen in Oracle Banking Origination will henceforth display the System recommended decision, Total Weighted score, Grade, recommended Pricing (based on the approval recommendation) for the application, which is fetched real-time. Also, the detailed weightage score on the respective facts along with the Scoring model matrix will be made available applicant wise for scrutiny and further action by the credit officer.
- Bureau service Integration for bringing in Bureau score – Experian and Equifax.
- Oracle Banking Digital Experience Integration – for IPA enablement
- Oracle Banking Microservices Architecture Advice Services & Migration of existing Oracle Banking Origination - Advices to FOP
 - Loan Initiation
 - Loan Offer Issue (with and without schedule)
 - Loan Approval
 - Loan Rejection
 - IPA Offer
 - IPA Rejection
 - Savings Account Creation
 - Current Account Creation
 - Term Deposit Account Creation
 - Credit Card Approval
 - Credit Card Rejection
- Oracle Banking Microservices Architecture Advice Services (FOP)
 - Printing of Applications details for Current Account and Savings Accounts
 - Printing of Applications details for Term Deposits
 - Printing of Applications details for Loans

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 can be accessed from the below link
https://docs.oracle.com/cd/F57153_01/index.htm

2.2 Software Components

Software Components of Oracle Banking Origination 14.6.0.0.0 that form part of this release are as follows:

- Service and API Components
- UI Components
- Database objects which includes tables, sequences and seed data
- Configuration files used for deployment

3 Annexure - A: Environment Details

3.1 Tech Stack – Oracle Banking Origination

Component	Deployment option	Machine	Operating System	Software	Version Number
Oracle Banking Origination	Single Instance Standalone	Application Server	Oracle Enterprise Linux Server 8.3 (x86 64 Bit)	Oracle WebLogic Server	14.1.1.0.0 + Patch 32077936**
				Java HotSpot (TM) JDK (with WebLogic Application Server)	Oracle JDK 8 Update 321 & JDK 11.0.14
		Database Server	Oracle Enterprise Linux Server 8.3 (x86 64 Bit))	Oracle Database 19c Enterprise Edition Release	19.14.0.0.0
		Message Broker	Oracle Enterprise Linux Server 8.3 (x86 64 Bit)	Apache Kafka	2.13-2.8.1
				Apache ZooKeeper	3.6.2
		Client Machines# For detailed information on Browser Support, please refer to the Oracle Software Web Browser Support Policy at https://www.oracle.com/middleware/technologies/browser-policy.html	Mozilla Firefox	Mozilla Firefox Release (87+)	
			Google Chrome	Release (Version 88+)	
			Microsoft Edge	Microsoft Edge (89+)	
			Safari	Apple Safari (14+)	

** **Patch 32077936:** JSF APPLICATION RESPONSE ISSUE FOR HTTPS PROTOCOL WHEN HTTP2 IS ENABLED, needs to be applied to Weblogic version 14.1.1.0.0.

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 10 and Mac OS.

4 Annexure - B: Third-Party Software

For information on the third-party software, refer Oracle Banking Origination 14.6.0.0.0 License Guide in the OHC Documentation Library.

https://docs.oracle.com/cd/F57153_01/license.htm