Oracle® Banking Microservices Architecture

Oracle Banking Common Core User Guide

Innovation Release 14.8.2.0.0
G54916-02
April 2026

Oracle Banking Microservices Architecture Oracle Banking Common Core User Guide, Innovation Release 14.8.2.0.0

G54916-02

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Purpose

This guide is designed to help the user to quickly get acquainted with the Customer Standard Instructions maintenance process.

Before You Begin

Kindly refer to the **Getting Started User Guide** for information on common functionalities like login, navigation, and general settings before proceeding with this guide.

Module Pre-requisite

Specify **User Id** and **Password**, and login to the **Home** screen.

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Module Definitions

Table 1 Terms & Definitions

Terms	Definitions
Consumer Application	The product that requires integration with another product for retrieving information or posting transactions does not need to know the following details while coding.
Service Consumer	It is an Oracle banking solution that utilizes the Oracle Banking Routing Hub API for integration purposes. Analyze the Oracle Banking Routing Hub and assess the destination product processor.
Import Service Consumer	The user can create a service consumer by importing the JSON file and manually selecting the service providers or select all providers that needs to be imported.
Environment Variables	A set of variables that will be accessible across the particular configuration of the consumer.
Service Providers	Service Providers are systems designed to handle requests sent by the Oracle Banking Routing Hub for service consumers. They include information about destination integration.
Parameter Group	Parameter mapping is used to establish the relationship between parameters of 2 different systems i.e., consumer and provider.
Import Implementation	The user can create an implementation by importing the JSON file.
Consumer Services	It specifies the service ID that is transmitted by the service consumer. It also handles transitions and route definitions, including the details for source integration.
Transformation	It involves gathering and changing data from one source to another and back again. This process occurs within consumer services. It changes the data from the service consumer into a format suitable for the service provider.
Routing	It determines which service provider receives the actual request by considering maintenance and assessment factors.
Chaining	The sequence of transformations for each routing in which the request needs to be processed.
Template Extensibility	It is achieved by specifying the extended templates for request and response kernel transformation templates. And as part of extensibility, Routing Hub merges the output of kernel template and custom template in terms of JSON / XML merging.
SPI	It is used to make Routing Hub more extensible. SPI provides an option to extend interfaces without modifying the core application.
Monitoring dashboard	It provides to System integrators and IT administrators to review the health of the integrations. It displays data using different type of widgets to help users to assess the performance of integrations and identify the areas that requires attention.

Audience

This guide is intended for the central administrator of the Bank who controls the system and application parameters and ensures smooth functionality and flexibility of the banking application.

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Critical Patches

Oracle advises customers to get all their security vulnerability information from the Oracle Critical Patch Update Advisory, which is available at Critical Patches, Security Alerts and Bulletins. All critical patches should be applied in a timely manner to make sure effective security, as strongly recommended by Oracle Software Security Assurance.

Diversity and Inclusion

Oracle is fully committed to diversity and inclusion. Oracle respects and values having a diverse workforce that increases thought leadership and innovation. As part of our initiative to build a more inclusive culture that positively impacts our employees, customers, and partners, we are working to remove insensitive terms from our products and documentation. We are also mindful of the necessity to maintain compatibility with our customers' existing technologies and the need to ensure continuity of service as Oracle's offerings and industry standards evolve. Because of these technical constraints, our effort to remove insensitive terms is ongoing and will take time and external cooperation.

Related Resources

For more information on any related features, refer to the following documents

- *Oracle Banking Security Management System User Guide*
- *Routing Hub Configuration User Guide*
- *Oracle Banking Getting Started User Guide*

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
italic	Italic type indicates book titles, emphasis, or placeholder variables for which user supply particular values.

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Convention	Meaning
`monospace`	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that user enter.

Screenshot Disclaimer

Personal information used in the interface or documents is dummy and does not exist in the real world. It is only for reference purposes.

Acronyms and Abbreviations

The list of the acronyms and abbreviations used in this guide are as follows:

Table 2 Acronyms and Abbreviations

Abbreviation	Description
System	Core Maintenance Module
NLP	Natural Language Processing
REST	Representational State Transfer

Basic Actions

Table 3 Basic Actions

Action	Description
Approve	Used to approve the initiated report. This button is displayed, once the user click **Authorize**.
Audit	Used to view the maker details, checker details, and report status.
Authorize	Used to authorize the report created. A maker of the screen is not allowed to authorize the report. Only a checker can authorize a report, created by a maker.
Close	Used to close a record. This action is available only when a record is created.
Confirm	Used to confirm the performed action.
Cancel	Used to cancel the performed action.
Compare	Used to view the comparison through the field values of old record and the current record. This button is displayed in the widget, once the user click **Authorize**.
Collapse All	Used to hide the details in the sections. This button is displayed, once the user click **Compare**.
Expand All	Used to expand and view all the details in the sections. This button is displayed, once the user click **Compare**.
New	Used to add a new record. When the user click **New**, the system displays a new record enabling to specify the required data.
OK	Used to confirm the details in the screen.

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Table 3 (Cont.) Basic Actions

Action	Description
Save	Used to save the details entered or selected in the screen.
View	Used to view the report details in a particular modification stage. This button is displayed in the widget, once the user click **Authorize**.
View Difference only	Used to view a comparison through the field element values of old record and the current record, which has undergone changes. This button is displayed, once the user click **Compare**.
Unlock	Used to update the details of an existing record. System displays an existing record in editable mode.

Symbols and Icons

The following symbols and icons are used in the screens.

Table 4 Symbols and Icons - Common

Symbol/Icon	Function
	Minimize
	Maximize
	Close
	Perform Search
	Open a list
	Add a new record

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Table 4 (Cont.) Symbols and Icons - Common

Symbol/Icon	Function
	Navigate to the first record
	Navigate to the last record
	Navigate to the previous record
	Navigate to the next record
	Grid view
	List view
	Refresh
	Click this icon to add a new row.
	Click this icon to delete an existing row.

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Table 4 (Cont.) Symbols and Icons - Common

Symbol/Icon	Function
	Click to view the created record.
	Click to modify the fields.
	Click to unlock, delete, authorize or view the created record.

Table 5 Symbols and Icons - Audit Details

Symbol/Icon	Function
	A user
	Date and time
	Unauthorized or Closed status
	Authorized or Open status

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Table 6 Symbols and Icons - Widget

Symbol/Icon	Function
	Open status
	Unauthorized status
	Closed status
	Authorized status

Module Post-requisite

After finishing all the requirements, log out from the **Home** screen.

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1
Core Maintenance

This topic helps you quickly get acquainted with the many functions routinely executed everyday.

- Account Entitlement Group
  This topic describes the information to configure an account entitlement group.
- Accounting Period
  This topic describes the information about the accounting period.
- Additional Field Maintenance
  This topic describes the systematic instructions to configure and maintain the additional fields for the transaction screens.
- Advice
  This topic describes the information to configure the various FOP advices that are available for the process.
- Amount Text Language
  This topic describes the information to configure an amount text language.
- Asset Classification Codes
  This topic describes the information about the asset classification codes.
- BIC Directory
  This topic describes the information to configure the BIC directory for a customer.
- Branch EOD
  This topics describes the information to configure Branch workflow
- Checklists
  This topic describes the information to configure an Checklists.
- Country Code
  This topic describes the information to configure the Country code.
- Currency Definition
  This topic describes the information to define the currency using Currency Definition maintenance.
- Currency Exchange Rate
  This topic describes the information to configure a Currency Exchange Rate.
- Currency Holiday Master
  This topic describes the information to configure a Currency Holiday.
- Currency Pair Definition
  This topic describes the information to define a Currency Pair.
- Currency Rate Type
  This topic describes the information to configure a Currency Rate.
- Currency Spread Definition
  This topic describes the information to enable the Buy / Sale spreads defined for each Branch, Currency pair and Rate type combination.
- Customer Access Group
  This topic describes the information to configure the customer access group.

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- Customer Category
  This topic describes the information to configure a Customer Category
- Data Segment
  This topic describes the information to configure an Data Segment.
- ECA System
  Other accounting systems maintain the External Credit Approval (ECA) process. For example, in any implementation, the third party system can be configured as an ECA system. This would mean that any transaction originating from the third party system , will need to be routed to the Account Core system.
- External Bank Parameters
  This topic describes the information to configure bank level parameters.
- External Branch Parameters
  This topics describes the information to configure branch level parameters.
- External Chart of Accounts
  This topic describes the information to configure an external chart of accounts.
- External Customer
  The **External Customer** feature enables the creation and viewing of customer information in a centralized location within the **Oracle Banking Microservices Architecture** framework. This repository stores vital customer details such as **CIF ID**, **Customer Name**, other essential information, ensuring quick reference, and easy access to pertinent data. This data will usually be populated through interfacing with third party application and additionally, bank users can create customer data with minimum attributes.
- External Customer Account
  This topic helps to configure the external customer account details.
- External Customer Account Structured Address
  This topic describes the information to configure the external customer account structured address details.
- External Virtual Account Structured Address
  This topic describes the information to configure the external virtual account structured address details.
- Forget Process
  This topic describes the information to configure a customer detail who wants to be forgotten using forget process.
- Host Code
  This topic describes the information to configure the host code.
- Interest Rate
  This topic describes the information to configure a Interest Rate.
- Language Code
  This topic describes the information to configure a language code.
- Local Bank Directory
  This topic describes the information required to configure a Local Bank Directory.
- Local Holiday
  This topic describes the information to configure a local holiday.
- Media
  This topic describes the information to configure the media.
- MIS Class
  This topic describes the information to configure an MIS Class.

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- MIS Group
  This topic describes the information to configure an MIS Group.
- Multi-Currency Account Linkage
  This topic describes the information to link the sub-accounts to a core multi-currency account.
- Process Code
  This topic describes the information to set the process code to the individual stages according to the process.
- Priority Code
  This topic describes the information to configure an Priority Code.
- Pricing Source System
  This topic describes the information to configure the pricing source system.
- Resource Class
  This topic describes the information to configure an Resource Class.
- SLA Maintenance
  This topic describes the information to configure an SLA maintenance.
- Screenclass
  The maintenance screens of Oracle Banking Microservices Architecture product which are based on Resource Segment Orchestrator uses the screen class maintenance to maintain the list of data segments that are part of the maintenance screens.
- State Code
  This topic describes the information to configure an State Code.
- System Dates
  This topic describes the information to view the system date details.
- Transaction Code
  This topic describes the information to configure the transaction code.
- Upload Source
  Upload Source screen facilitates the maintenance of external systems like Oracle Digital Banking Experience, Oracle Banking Liquidity Management, and so on which can send transactions data to the common core.
- Upload Source Preference
  Upload Source Preference can set preferences for upload of a data from an external source. Example an external exchange rate source is sending exchange rates to the common core system.
- Limits and Collaterals
  This section contains the details of the limits and collaterals data that are replicated from the ELCM system.
- Track Receivable Priority Code
  This topic describes the information to configure Priority Code.
- Customer Address Details
  This topic describes the information of a customer address.
- Address Type
  This topic describes the information to configure an address types.

1.1 Account Entitlement Group

This topic describes the information to configure an account entitlement group.

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This topic contains the following subtopics:

- Create Account Entitlement Group
  This topic describes the systematic instructions to configure the account entitlement group.
- View Account Entitlement Group
  This topic describes the systematic instructions to view the list of configured account entitlement group.

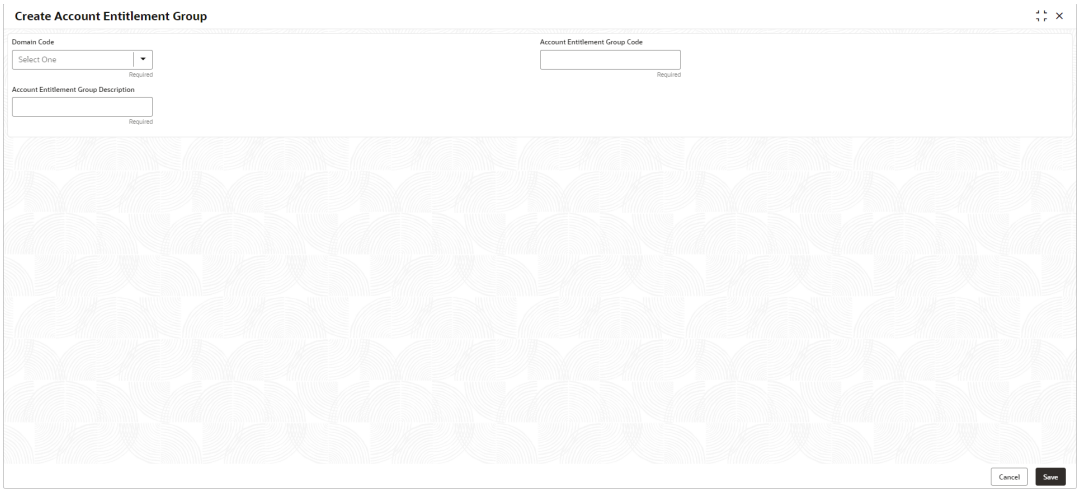
1.1.1 Create Account Entitlement Group

This topic describes the systematic instructions to configure the account entitlement group.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Account Entitlement Group**.
2. Under **Account Entitlement Group**, click **Create Account Entitlement Group**.

   The **Create Account Entitlement Group** screen is displayed.

Figure 1-1 Create Account Entitlement Group



3. Specify the fields on **Create Account Entitlement Group** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 1-1 Create Account Entitlement Group – Field Description

Field	Description
Domain Code	Select the domain code from the drop-down list. The available options are: • Payment Entitlement Group • Branch Entitlement Group

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Table 1-1 (Cont.) Create Account Entitlement Group – Field Description

Field	Description
Account Entitlement Group Code	Specify the code of the account entitlement group.
Account Entitlement Group Description	Specify the description of the account entitlement group.

4. Perform one of the following action:
   - Click **Save** to save the details.
     The amount text language is successfully created and can be viewed using the **View Account Entitlement Group** screen.
   - Click **Cancel** to discard the changes and close the screen.

1.1.2 View Account Entitlement Group

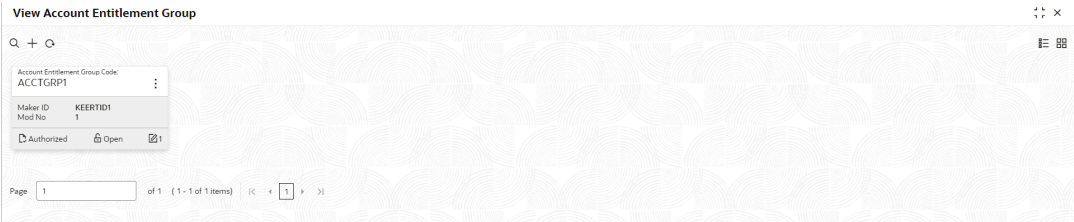
This topic describes the systematic instructions to view the list of configured account entitlement group.

The user can configure an account entitlement group using **Create Account Entitlement Group** screen.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Account Entitlement Group**.
2. Under **Account Entitlement Group**, click **View Account Entitlement Group**.

   The **View Account Entitlement Group** screen is displayed.

Figure 1-2 View Account Entitlement Group



For more information on fields, refer to the field description table.

Table 1-2 View Account Entitlement Group – Field Description

Field	Description
Language Code	Displays the language code associated with the amount word.
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**

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Table 1-2 (Cont.) View Account Entitlement Group – Field Description

Field	Description
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

1.2 Accounting Period

This topic describes the information about the accounting period.

This topic contains the following subtopics:

- Create Accounting Period
  This topic describes the systematic instructions to create accounting period by updating various details.
- View Accounting Period
  This topic describes the systematic instructions to view the list of configured accounting period.

1.2.1 Create Accounting Period

This topic describes the systematic instructions to create accounting period by updating various details.

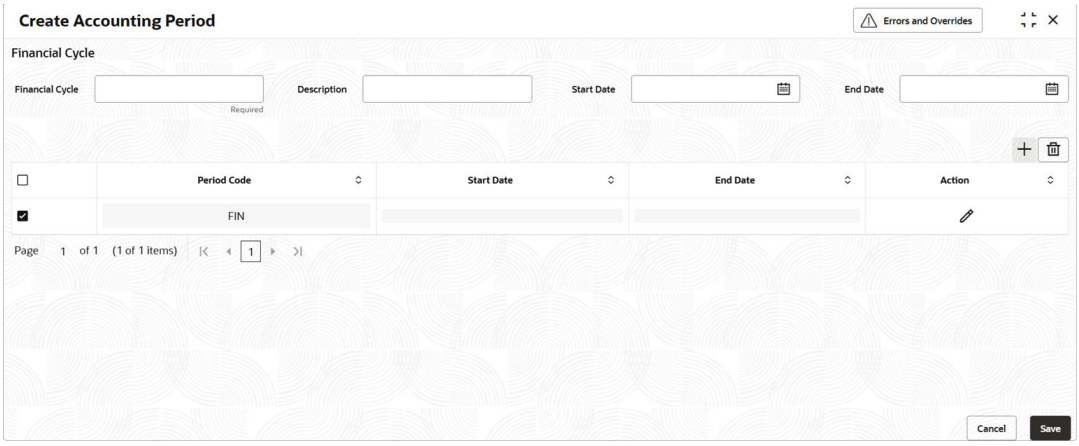
In this screen user can define the following:

- The financial cycle of your bank giving the start date and end date of each financial year
- The period code - financial periods into which each financial cycle is to be divided.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Accounting Period**.
2. Under **Accounting Period**, click **Create Accounting Period**.

   The **Create Accounting Period** screen is displayed.

Figure 1-3 Create Accounting Period



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3. On the **Create Accounting Period** screen, specify the fields.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 1-3 Create Accounting Period - Field Description

Field	Description
Financial Cycle	This is a code for the financial cycle. It acts as an identifier for the cycle. For example, while posting adjustments into a previous financial cycle. User can identify the year through this code. Input the code using a maximum of 9 characters, alphanumeric. For example, the financial cycle extends from 1st April to 31st March in India. A bank here could define its code for the year 2023-24 as FY 2023-24.
Description	This describes the financial cycle. Enter description using a maximum of 35 characters, alphanumeric. Taking the above example, you could enter Financial Year - 2023-24.
Start Date	This is the first day of this financial cycle.
End Date	This is the last day of this financial cycle.
Period Code	The financial cycle defined above, can be divided into different accounting periods. To define individual accounting periods click on the first row under period code. A period called **FIN** is created by the system. This is an open ended period coinciding with the last day of the financial cycle. User can maintain the following parameters for each accounting period within a financial cycle: This code identifies the accounting period. Enter a code using a maximum of 3 characters, alphanumeric. For example, if your period length is a quarter you can enter - Q1 for the first period; Q2 for the second; Q3 for the third and so on. If your period length is a bimonthly you can enter BM1, BM2. If your period length coincides with a month you can input M1, M2.
Start Date	This is the first day of the corresponding period.
End Date	This is the last date of the corresponding period. **End date** of a period should always end on a month end. **Note**: • The period codes could be of varying lengths but no gaps should be left between periods. • The duration of two periods should not overlap. • You can modify the period code of the current or a future period. however, a past period cannot be modified even if it has not been closed. • All details maintained in the **Period Code Screen** will automatically apply to any new branch.

4. Perform one of the following action:
   - Click **Save** to save the details.
     The **Accounting Period** is successfully created and can be viewed using the View Accounting Period screen.

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- Click **Cancel** to discard the changes and close the screen.

1.2.2 View Accounting Period

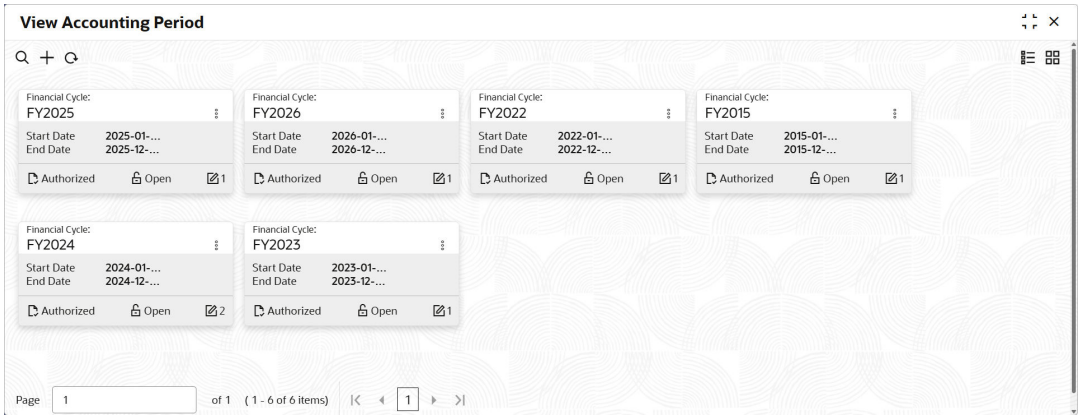
This topic describes the systematic instructions to view the list of configured accounting period.

The user can configure the accounting period using the Create Accounting Period screen. The status of the created accounting period is displayed as **Unauthorized** and **Open**. Once the checker authorizes the accounting period, the status is updated to **Authorized** and **Open**.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Accounting Period**.
2. Under **Accounting Period**, click **View Accounting Period**.

   The **View Accounting Period** screen is displayed.

Figure 1-4 View Accounting Period



For more information on fields, refer to the field description table.

Table 1-4 View Accounting Period - Field Description

Field	Description
Financial Cycle	Displays the financial cycle.
Start Date	Displays the start date.
End Date	Displays the end date.
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

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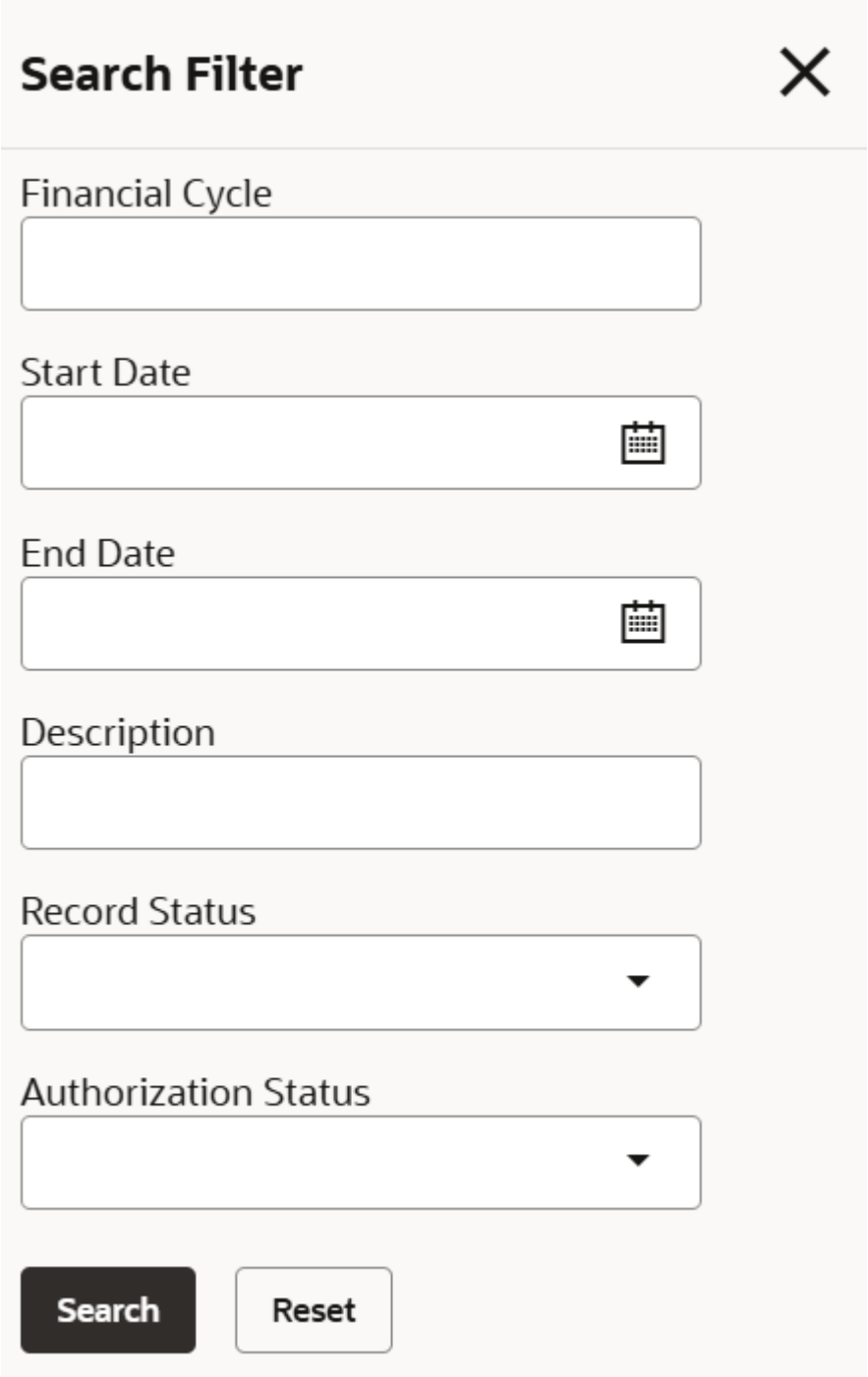
3. On the **View Accounting Period** screen, click icon.

   The **View Accounting Period - Search** screen is displayed.

Figure 1-5 View Accounting Period - Search



4. On the **View Accounting Period - Search** screen, specify the **Search Filter** to fetch the required accounting period.

   For more information on fields, refer to the field description table.

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Table 1-5 View Accounting Period – Search – Field Description

Field	Description
Financial Cycle	Specify the financial cycle for the accounting period.
Start Date	Specify the start date.
End Date	Specify the end date.
Description	Specify the description of the financial cycle.
Authorization Status	Select the authorization status of the accounting period. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Select the record status of the accounting period. The options are: • **Open** • **Closed**

5. Perform one of the following action:
   - Click **Search** to display the required accounting periods.
   - Click **Reset** to reset the search criteria.

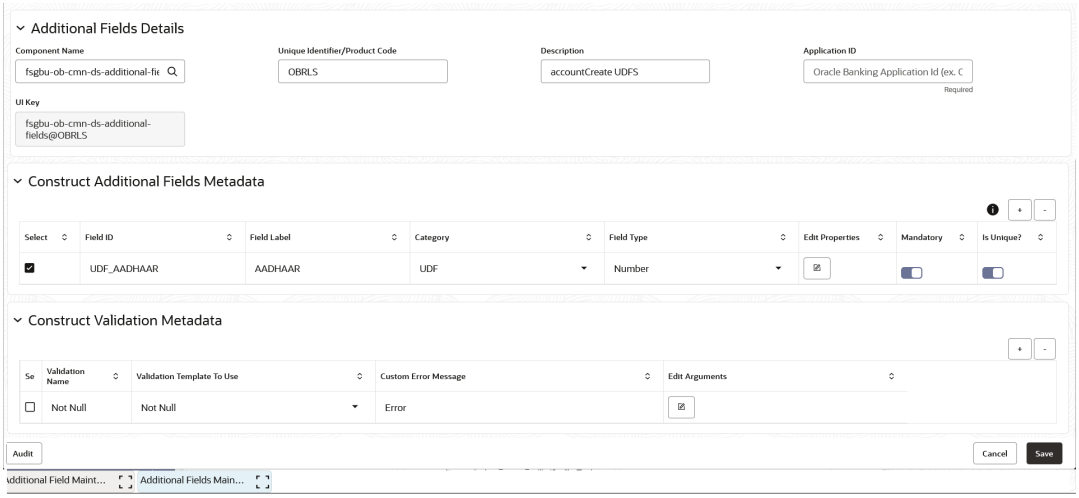
1.3 Additional Field Maintenance

This topic describes the systematic instructions to configure and maintain the additional fields for the transaction screens.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Additional Field Maintenance**.

   The **Additional Field Maintenance** screen is displayed.

Figure 1-6 Additional Field Maintenance



2. View the details from the **Additional Fields Maintenance** screen

   For more information on fields, refer to the field description table.

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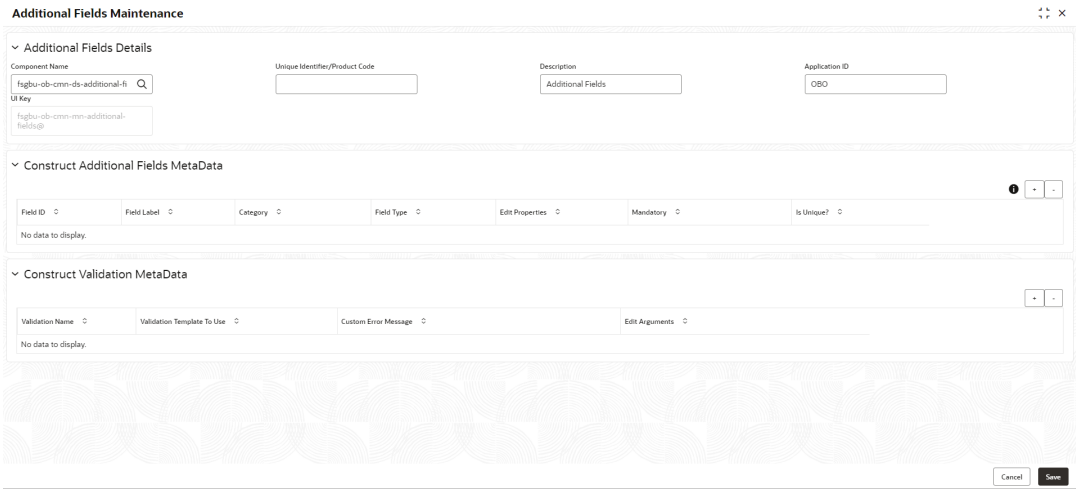
Table 1-6 Additional Field Maintenance - Field Description

Field	Description
UI Key	Displays the UI key of the additional field.
Application ID	Displays the related application ID of the additional field.
Description	Displays the description of the additional field.
Status	Displays the status of the record.

3. On the **Additional Field Maintenance** screen, click **+** button.

   The **Additional Fields Maintenance** screen is displayed.

Figure 1-7 Additional Fields Maintenance



4. Specify the fields on the **Additional Fields Maintenance** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 1-7 Additional Fields Maintenance – Field Description

Field	Description
Component Name	Click **Search** icon to view and select the component name from the list.
Unique Identifier/Product Code	Specify the unique identifier or product code for selected component used as reference.
Product Name	Displays the product name for the specified product code.
Description	Displays the description as **Additional Fields**, and it can be modified.
Application ID	Displays the Application ID.
UI Key	Displays the UI key for the selected component.

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Table 1-7 (Cont.) Additional Fields Maintenance – Field Description

Field	Description
Construct Additional Fields MetaData	Specify the details under this section to configure metadata for each field.
Select	Check this box to select/deselect a row to remove it using the **-** button.
Field ID	Specify the field ID.
Field Label	Specify the field label.
Category	Specify the category from the drop-down list. The options are: • **UDF** • **CMIS** • **FMIS** • **TMIS**
Field Type	Select the field type from the drop-down list. The options are: • **Number** • **Text** • **Drop-Down** • **Date** • **Switch** • **Text Area** • **LOV**
Edit	Click this icon to add or edit the field properties. System shows the properties based on the field type.
Mandatory	Check this box if the field needs to be configured as mandatory.
Is Unique?	Check this box if the field needs to be configured as unique.
Construct Validation MetaData	Specify the details under this section for validations to be applied on configured fields.
Select	Check this box to select/deselect a row to remove the definition.
Validation Name	Specify the validation name.
Validation Template To Use	Select the template to be used for the validation.
Custom Error Message	Specify the error message that needs to be displayed for the list.
Edit Arguments	Click this icon to input the arguments related to **Validation Template**.

5. Click **+** to add the new row in the **Construct Additional Fields MetaData** or **Construct Validation MetaData** section.

> **Note**
>
> Using OBRLS account onboarding, users can capture additional business-specific information through configurable User Defined Fields (UDFs). These fields are validated based on the setup maintained under OBRLSaccountCreateAPI, stored with the account record, and made available when viewing account information.

6. Perform one of the following action:
   - Click **Save** to save the details.
     The user can view the confirmation advice details in the Additional Field Maintenance.

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- Click **Cancel** to discard the changes and close the screen.

1.4 Advice

This topic describes the information to configure the various FOP advices that are available for the process.

This topic contains the following subtopics:

- Create Advice
  This topic describes the systematic instructions to configure advices.
- View Advice
  This topic describes the systematic instructions to view the list of configured advice.

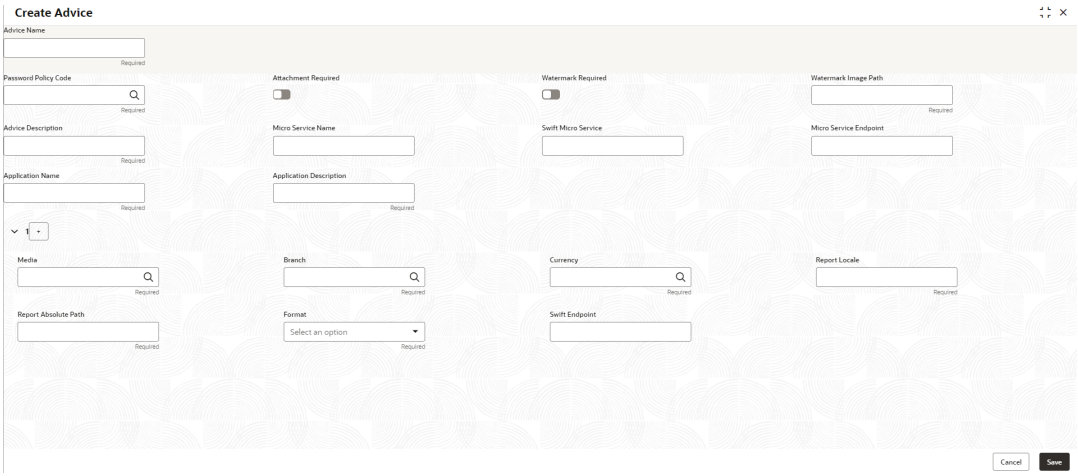
1.4.1 Create Advice

This topic describes the systematic instructions to configure advices.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Advice**.
2. Under **Advice**, click **Create Advice**.

   The **Create Advice** screen is displayed.

Figure 1-8 Create Advice



3. Specify the fields on the **Create Advice** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

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Table 1-8 Create Advice – Field Description

Field	Description
Advice Name	Specify the name of the advice.
Password Policy Code	Click this icon and select the policy code from the list. The code will be unique for each policy.
Attachment Required	Click this toggle to add the attachment required. By default, this toggle is disabled.
Watermark Required	Click this toggle to enable the user to add then watermark in the image. By default, this toggle is disabled.
Watermark image Path	Specify the path for the watermark image.
Advice Description	Specify the information about the advice.
Micro Service Name	Specify the name of the micro service.
Swift Micro Service	Specify the information about the swift micro service.
Micro Service Endpoint	Specify the endpoint micro service.
Application Name	Specify the application name for which advice is generated.
Application Description	Specify the additional information about the application.
Media	Search and select the required media.
Branch	Search and select the required branch.
Currency	Search and select the required currency.
Report Locale	Specify the locale report details.
Report Absolute Path	Specify the report absolute path.
Format	Select a download file format for an advice from the drop-down list. The available options are: • **PDF** • **PPTX** • **HTML** • **XLS** • **RTF**
Swift Endpoint	Specify the swift endpoint.

4. Perform one of the following action:
   - Click **Save** to save the details.
     The advice is successfully created and can be viewed using the View Advice screen.
   - Click **Cancel** to discard the changes and close the screen.

1.4.2 View Advice

This topic describes the systematic instructions to view the list of configured advice.

The user can configure an advice for a process using the Create Advice screen.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Advice**.
2. Under **Advice**, click **View Advice**.

   The **View Advice** screen is displayed.

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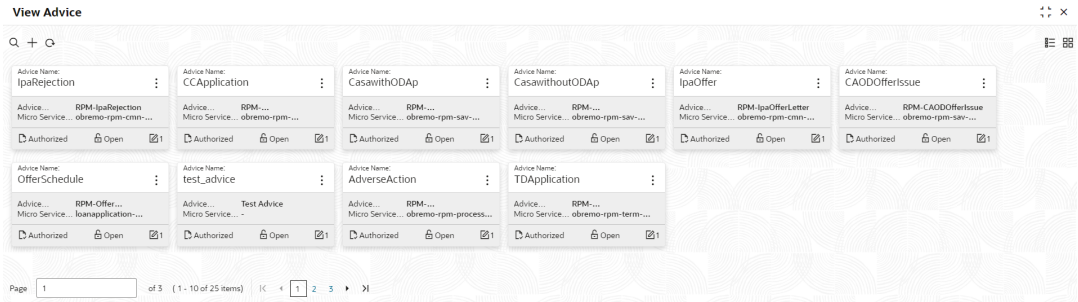
Figure 1-9 View Advice



For more information on fields, refer to the field description table.

Table 1-9 View Advice – Field Description

Field	Description
Advice Name	Displays the name of the advice.
Advice Description	Displays information about the advice.
Micro Service Name	Displays the name of the micro service.
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

1.5 Amount Text Language

This topic describes the information to configure an amount text language.

This topic contains the following subtopics:

- Create Amount Text Language
  This topic describes the systematic instructions to configure the amount text language.
- View Amount Text Language
  This topic describes the systematic instructions to view the list of configured amount text language.

1.5.1 Create Amount Text Language

This topic describes the systematic instructions to configure the amount text language.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Amount Text Language**.
2. Under **Amount Text Language**, click **Create Amount Text Language**.

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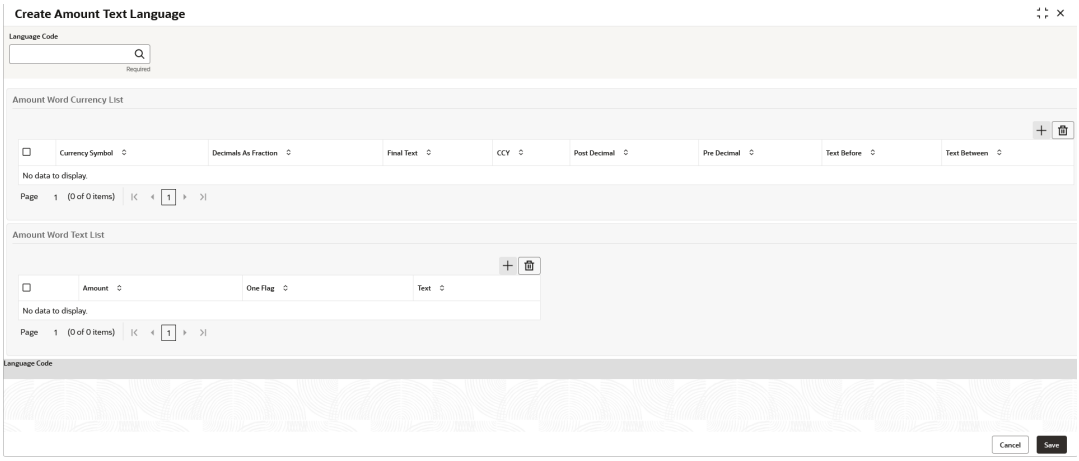
The **Create Amount Text Language** screen is displayed.

Figure 1-10 Create Amount Text Language



3. Specify the fields on the **Create Amount Text Language** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 1-10 Create Amount Text Language – Field Description

Field	Description
Language Code	Search and select the required language code.
Currency Symbol	Specify the currency symbols.
Decimals As Fraction	Select a decimals as fraction value from the drop-down list.
Final Text	Specify the final text for the amount word currency list.
CCY	Search and select the CCY.
Post Decimal	Specify the post decimal details.
Pre Decimal	Specify the pre decimal details.
Text Before	Select an option for the before text.
Text Between	Specify the text that must appear between the amount word currency list.
Amount	Select the amount details.
One Flag	Select an option for the amount word text list.
Text	Specify the text for the amount word.

4. Click **+** icon to add a new row.
5. Perform one of the following action:
   - Click **Save** to save the details.
     The amount text language is successfully created and can be viewed using the View Amount Text Language screen.

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- Click **Cancel** to discard the changes and close the screen.

1.5.2 View Amount Text Language

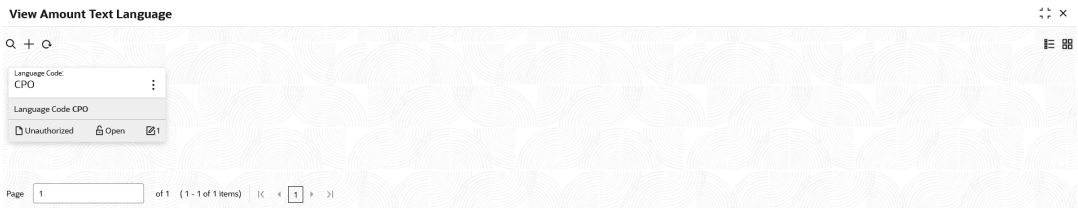
This topic describes the systematic instructions to view the list of configured amount text language.

The user can configure an amount text language using Create Amount Text Language screen.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Amount Text Language**.
2. Under **Amount Text Language**, click **View Amount Text Language**.

   The **View Amount Text Language** screen is displayed.

Figure 1-11 View Amount Text Language



For more information on fields, refer to the field description table.

Table 1-11 View Amount Text Language – Field Description

Field	Description
Language Code	Displays the language code associated with the amount word.
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

1.6 Asset Classification Codes

This topic describes the information about the asset classification codes.

This user interface is a maintenance used to define the details of the severity and status codes, also known as asset codes, that a lender would use for delinquency processing across its portfolio of lending products.

This topic contains the following subtopics:

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- Create Asset Classification Codes
  This topic describes the systematic instructions to define the details of the severity and status codes that a lender would use for delinquency processing across its portfolio of products.
- View Asset Classification Codes
  This topic describes the systematic instructions to view the list of configured asset classification codes.

1.6.1 Create Asset Classification Codes

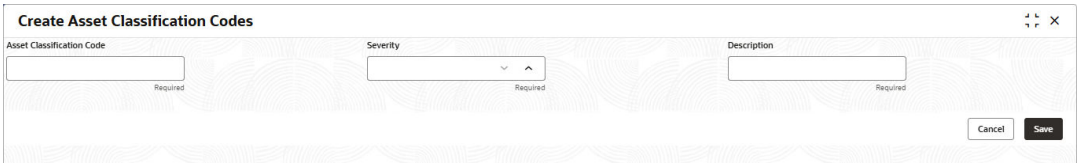
This topic describes the systematic instructions to define the details of the severity and status codes that a lender would use for delinquency processing across its portfolio of products.

Example: In banking, loans are classified based on the risk of default, with Classification Codes like "Doubtful", "Loss," and "Substandard" indicating increasing periods of delinquency.

1. On **Homescreen**, click **Core Maintenance**, under **Core Maintenance**, click **Asset Classification Codes**.
2. Under **Asset Classification Codes**, click **Create Asset Classification Codes**.

   The **Create Asset Classification Codes** screen is displayed.

Figure 1-12 Create Asset Classification Codes



3. Specify the fields on **Create Asset Classification Codes** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

> **Note**
>
> Asset code **NORM** is a mandatory input for delinquency processing as the initial starting status code.

Table 1-12 Create Asset Classification Codes - Field Description

Field	Description
Create Asset Classification Codes	Specify the status codes for classifying an asset.
Severity	Specify the severity level of status codes for classifying an asset.
Description	Specify the description of the status codes.

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4. Click **Save** to save the details.

   The Asset Classification Codes is successfully created and can be viewed using the View Asset Classification Codes screen.

1.6.2 View Asset Classification Codes

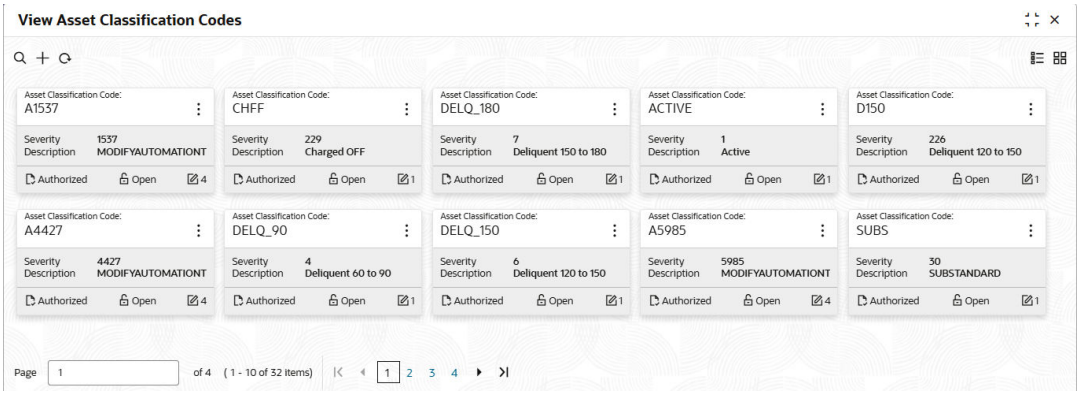
This topic describes the systematic instructions to view the list of configured asset classification codes.

The user can configure the accounting period using the Create Asset Classification Codes screen. The status of the created accounting period is displayed as **Unauthorized** and **Open**. Once the checker authorizes the accounting period, the status is updated to **Authorized** and **Open**.

1. On **Homescreen**, click **Core Maintenance**, under **Core Maintenance**, click **Asset Classification Codes**.
2. Under **Asset Classification Codes**, click **View Asset Classification Codes**.

   The **View Asset Classification Codes** screen is displayed.

Figure 1-13 View Asset Classification Codes



For more information on fields, refer to the field description table.

Table 1-13 View Asset Classification Codes - Field Description

Field	Description
Asset Classification Code	Displays the classification codes.
Severity	Displays the severity.
Description	Displays the description of the codes.
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**

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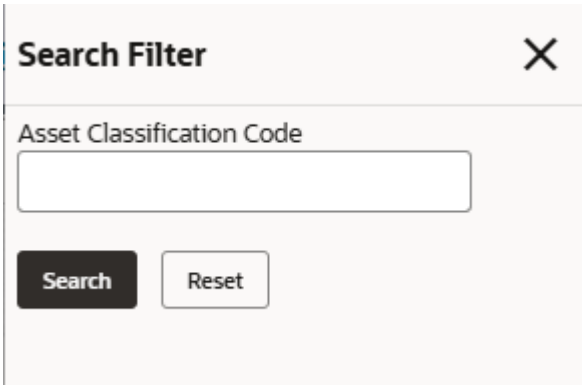
Table 1-13 (Cont.) View Asset Classification Codes - Field Description

Field	Description
Modification Number	Displays the number of modification performed on the record.

3. On **View Asset Classification Codes** screen, click icon.

   The **View Asset Classification Codes - Search** screen is displayed.

Figure 1-14 View Asset Classification Codes - Search



4. On **View Asset Classification Codes - Search** screen, specify the **Search Filter** to fetch the required Asset Classification Codes.

   For more information on fields, refer to the field description table.

Table 1-14 View Asset Classification Codes – Search – Field Description

Field	Description
Asset Classification Code	Specify the status codes for classifying an asset.

5. Click **Search** to display the required asset classification codes.

1.7 BIC Directory

This topic describes the information to configure the BIC directory for a customer.

The **Business Identifier Code** (BIC) or **BIC** code is employed by banks to identify other banks in international financial transactions. The BIC is an 8-character code, defined as a business party identifier, comprising the business party prefix (4 alphanumeric characters), the country code according to ISO 3166-1 (2 alphabetic characters), and the business party suffix (2 alphanumeric characters). Furthermore, the branch identifier, an optional 3-character element, can complement the 8-character BIC. It is used to identify specific locations, departments, services, or units of the same business party.

This topic contains the following subtopics:

- Create BIC Directory
  This topic describes the systematic instructions to configure a BIC directory for a customer.
- View BIC Directory
  This topic describes the systematic instructions to view the list of configured BIC directory.

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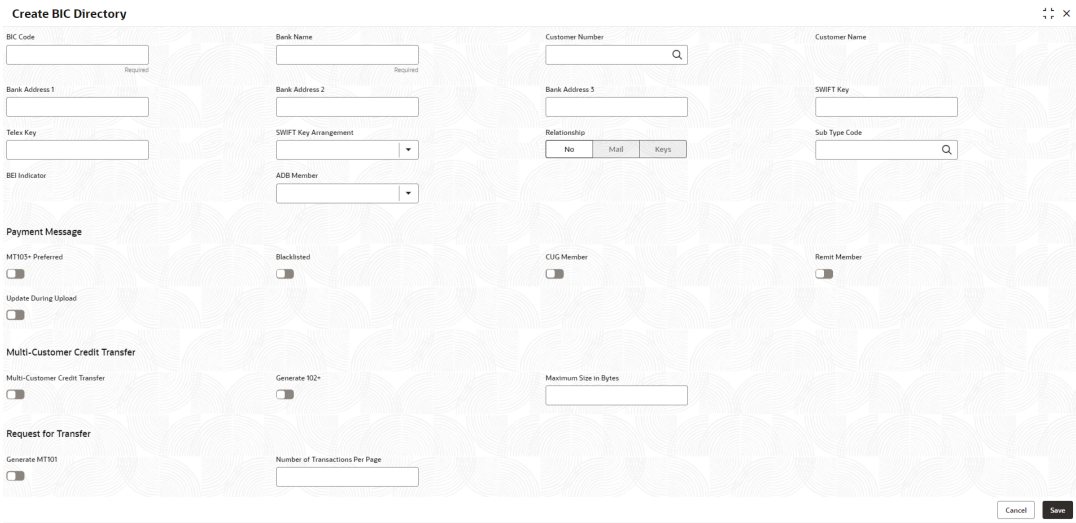
1.7.1 Create BIC Directory

This topic describes the systematic instructions to configure a BIC directory for a customer.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **BIC Directory**.
2. Under **BIC Directory**, click **Create BIC Directory**.

   The **Create BIC Directory** screen is displayed.

Figure 1-15 Create BIC Directory



3. Specify the fields on the **Create BIC Directory** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 1-15 Create BIC Directory – Field Description

Field	Description
BIC Code	Specify the unique BIC Code by which the bank is identified by SWIFT.
Bank Name	Specify the name for the bank.
Customer Number	Click **Search** icon to view and select the required customer number.
Customer Name	Displays the customer name based on the selected **Customer Number**.
Bank Address 1-3	Displays the bank address 1-3 based on the selected **Customer Number**.
SWIFT Key	Specify the swift key details.
Telex Key	Specify the unique telex key for the BIC directory.

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Table 1-15 (Cont.) Create BIC Directory – Field Description

Field	Description
SWIFT Key Arrangement	Select the SWIFT key arrangement from the drop-down list. The available options are: • **Yes** • **No**
Relationship	Select one of the following options: • **No**: If selected, indicates that the BIC Entity is not a customer of your bank • **Mail**: If selected, the BIC entity is not a recognized SWIFT entity but an address internal to your bank. In such cases, all correspondence directed to the particular BIC entity is sent as mail messages. • **Keys**: If selected, a SWIFT/Telex connectivity exists between your bank and the bank for which you are maintaining details. Subsequently, you must specify the SWIFT/Telex Key in the adjacent field.
Sub-type Code	Click **Search** icon to view and select the required sub-type code.
BEI Indicator	Displays BEI Indicator based on the selected **Sub-type Code**.
ADB Member	Select the ADB member from the drop-down list. The available options are: • **Not applicable** • **Yes** • **No**
MT103+ Preferred	Click the toggle to indicate the counter party's capacity whose BIC code details you are capturing to receive MT 103 payment messages. By default, this is disabled.
Blacklisted	Click the toggle to blacklist the BIC entity. By default, this is disabled.
CUG Member	Click the toggle to indicate the BIC entity is a closed user group member. By default, this is disabled.
Remit Member	Click the toggle to indicate the customer is registered with the MT 103 extended remittance information multiple user group. By default, this is disabled.
Update During Upload	Click the toggle to update the BIC directory during an upload. By default, this is disabled.
Multi-Customer Credit Transfer	Click the toggle to indicate that multiple credit transfer (MT102) support exists between the bank and the BIC entity. By default, this is disabled.
Generate 102+	Click the toggle to enable 102+ message generation. By default, this is disabled.
Maximum Size in Bytes	Specify the maximum size.
Generate MT101	Click the toggle to indicate this BIC can send/receive MT101 messages. Select to generate an MT101 message. By default, this is disabled.
Number of Transactions Per Page	Specify the number of transactions to view per page. If not specified, the value is defaulted to 10.
Real Customer Number	Click **Search** icon to view and select the required real customer number.

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Table 1-15 (Cont.) Create BIC Directory – Field Description

Field	Description
Real Customer Name	Based on the Real Customer Number selected, the information is auto-populated.

4. Perform one of the following action:
   - Click **Save** to save the details.
     The BIC directory is successfully created and can be viewed using the View BIC Directory screen.
   - Click **Cancel** to discard the changes and close the screen.

1.7.2 View BIC Directory

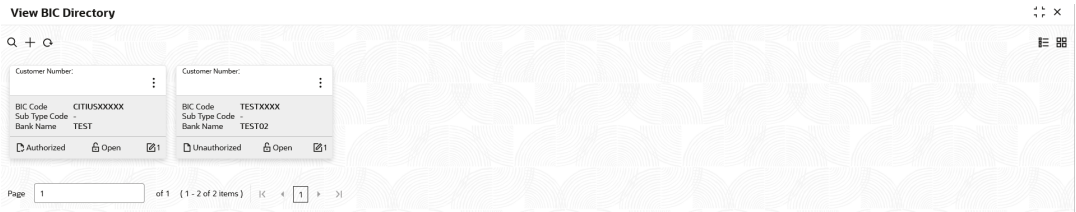
This topic describes the systematic instructions to view the list of configured BIC directory.

The user can configure BIC directory using Create BIC Directory screen.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **BIC Directory**.
2. Under **BIC Directory**, click **View BIC Directory**.

   The **View BIC Directory** screen is displayed.

Figure 1-16 View BIC Directory



For more information on fields, refer to the field description table.

Table 1-16 View BIC Directory – Field Description

Field	Description
Customer Number	Displays the number of the customer.
Sub-type Code	Displays the sub-type code associated with the customer number.
BIC Code	Displays the defined BIC code for the associated customer.
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**

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Table 1-16 (Cont.) View BIC Directory – Field Description

Field	Description
Modification Number	Displays the number of modification performed on the record.

1.8 Branch EOD

This topics describes the information to configure Branch workflow

The user can invoke EOD to indicate that all the activities for the day are complete. Activities can be performed on the system only after the system date is changed to the next working day and authorized.

Most of the automated functions are part of the beginning of day operations. Thereafter, some of them must be executed when the system is in the EOTI stage.

This topic contains the following subtopics:

- Configure Branch EOD
  This topic describes the systematic instructions to create / configure the EOD work-flow with a branch.
- View Branch EOD
  This topic describes the systematic instructions to view the list of branch work-flow mappings.
- Invoke Branch EOD
  This topic describes the systematic instructions to invoke the branch EOD process as per the branch.

1.8.1 Configure Branch EOD

This topic describes the systematic instructions to create / configure the EOD work-flow with a branch.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Branch EOD**.
2. Under **Branch EOD**, click **Configure EOD**.

   The **Configure EOD** screen is displayed.

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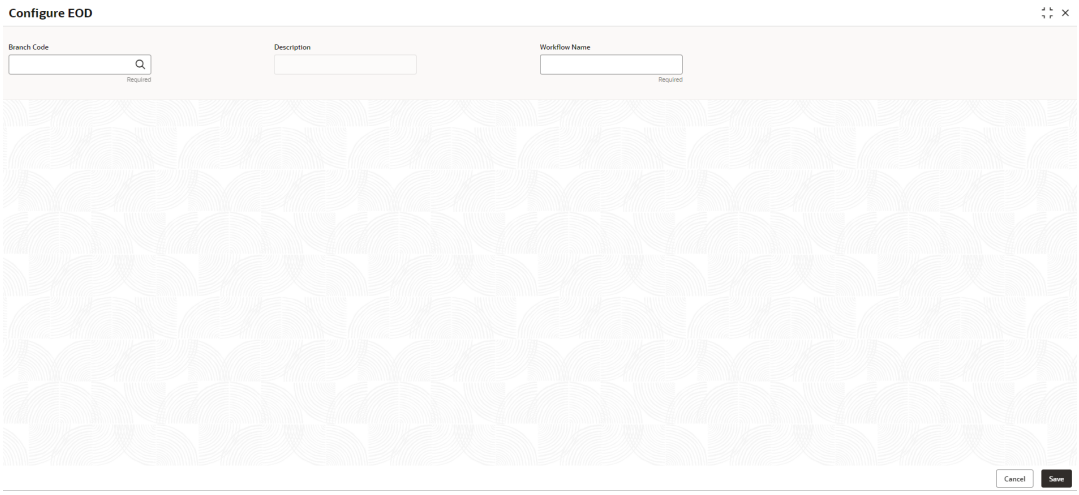
Figure 1-17 Configure EOD



3. Specify the fields on the **Configure EOD** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 1-17 Configure EOD – Field Description

Field	Description
Branch Code	Specify the branch code that is associated with the logged in user.
Description	Displays the description of the branch.
Workflow Name	Specify the work-flow name that is already created.

> **Note**
>
> For more information on EOD Workflow creation and related terminologies, refer to *EOD Configuration User Guide* of the respective products.

1.8.2 View Branch EOD

This topic describes the systematic instructions to view the list of branch work-flow mappings.

The user can configure EOD using Configure EOD screen.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Branch EOD**.
2. Under **Branch EOD**, click **View EOD**.

   The **View EOD** screen is displayed.

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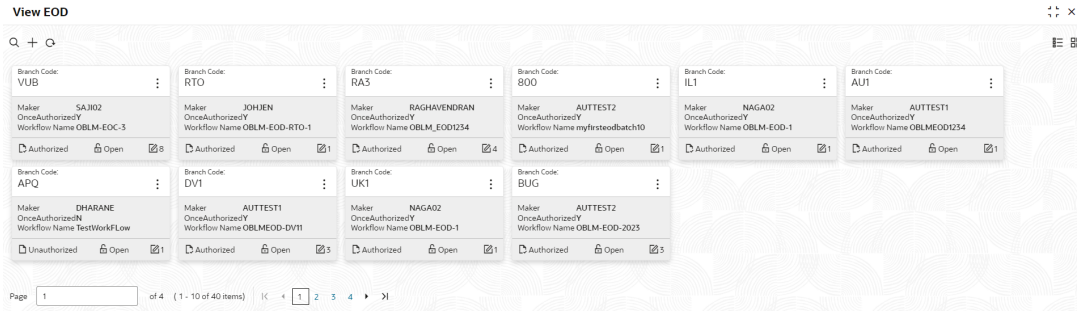
Figure 1-18 View EOD



For more information on fields, refer to the field description table.

Table 1-18 View EOD – Field Description

Field	Description
Branch Code	Displays the branch code details.
Maker	Displays the name of the maker.
Workflow Name	Displays the name of the work-flow.
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

1.8.3 Invoke Branch EOD

This topic describes the systematic instructions to invoke the branch EOD process as per the branch.

Note: Corporate Lending system EOD should be executed and completed before starting OBSCF EOD.

The work-flow mapping can be configured using Configure Branch EOD screen.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Branch EOD**.
2. Under **Branch EOD**, click **Invoke EOD**.

   The **Invoke EOD** screen is displayed.

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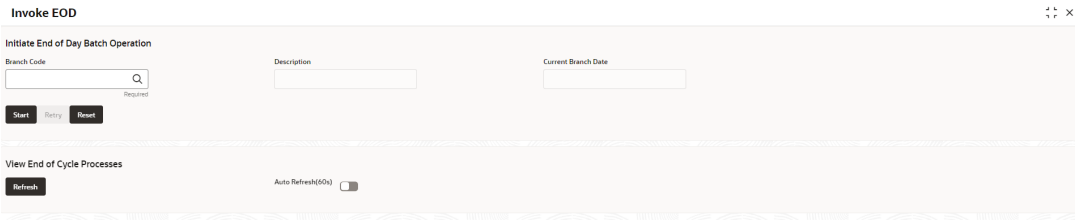
Figure 1-19 Invoke EOD



3. Specify the fields on the **Invoke EOD** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 1-19 Invoke EOD – Field Description

Field	Description
Branch Code	Specify the branch code that is associated with the logged in user.
Description	Displays the description of the branch, based on the Branch code selected.
Current Branch Date	Displays the current branch date, based on the Branch code selected.

4. Perform one of the following action:
   - Click **Start** to invoke EOD for selected branch and click **Refresh** to view the current status of batch.
   - Click **Retry** to restart the EOD work-flow from the failed task.

> **Note**
>
> The **Retry** button enables only if the failed task status is encountered.

   - Click **Retry** to restart the EOD work-flow from the failed task.
   - Click **Reset** to clear the branch selected.
   - Click **Refresh** to view the current status of batch.
   - Mouse-hover on the task to view the relevant details such as Start time, End time, and Error if any.

1.9 Checklists

This topic describes the information to configure an Checklists.

Checklists are to-do lists that must be completed to proceed to next stage. Checklists can be configured for a particular process within their respective stage.

This topic contains the following subtopics:

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- Checklists Maintenance
  This topic describes the systematic instructions to view the list and configure the checklists maintenance.
- Checklists Linkage Maintenance
  This topic describes the systematic instructions to view the list and configure the checklists linkage maintenance.

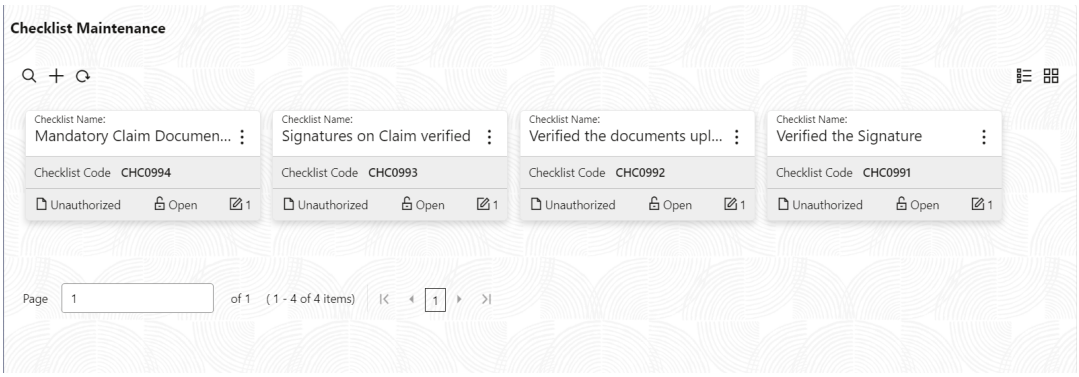
1.9.1 Checklists Maintenance

This topic describes the systematic instructions to view the list and configure the checklists maintenance.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Checklists**.
2. Under **Checklists**, click **Checklists Maintenance**.

   The **Checklists Maintenance** screen is displayed.

Figure 1-20 Checklists Maintenance



For more information on fields, refer to the field description table.

Table 1-20 Checklists Maintenance – Field Description

Field	Description
Checklist Name	Displays the name of the checklist.
Checklist Code	Displays the code of the checklist maintained.
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

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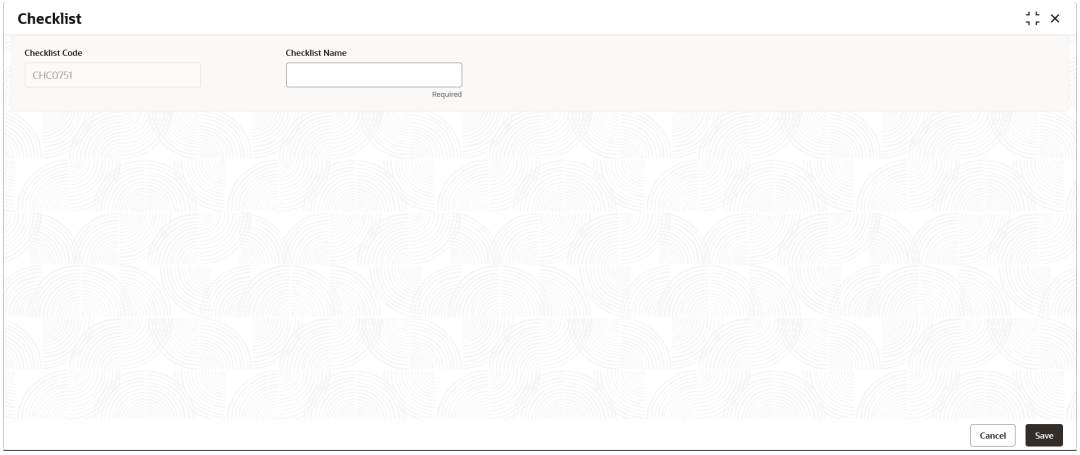
3. Click to configure the new checklists maintenance.

   The **Checklists** screen is displaysed

Figure 1-21 Checklists



> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 1-21 Checklists Maintenance – Field Description

Field	Description
Checklist Code	Displays the auto-generated code for each new checklist. This is system generated code.
Checklist Name	Specify the description of the checklist to be maintained. This is user specific.

4. Perform one of the following action:
   - Click **Save** to save the details.
   - Click **Cancel** to discard the changes and close the screen.

1.9.2 Checklists Linkage Maintenance

This topic describes the systematic instructions to view the list and configure the checklists linkage maintenance.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Checklists**.
2. Under **Checklists**, click **Checklists Linkage Maintenance**.

   The **Checklists Linkage Maintenance** screen is displayed.

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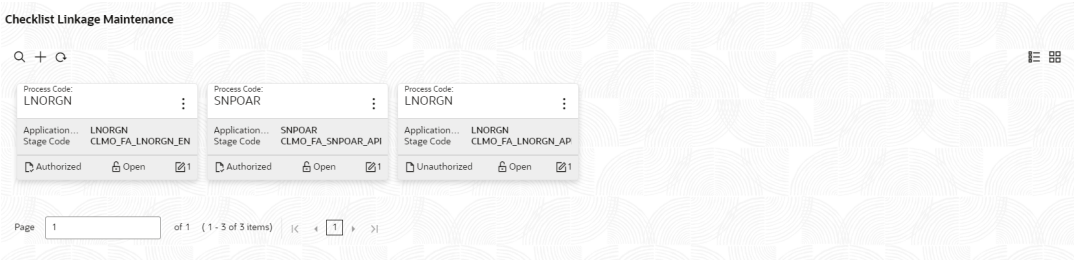
Figure 1-22 Checklists Linkage Maintenance



For more information on fields, refer to the field description table.

Table 1-22 Checklists Linkage Maintenance – Field Description

Field	Description
Process Code	Displays the process code.
Application Category Code	Displays the application category code
Stage Code	Displays the stage code.
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

3. Click to configure the new checklists linkage maintenance.

   The **Checklists Linkage Maintenance** screen is displayed.

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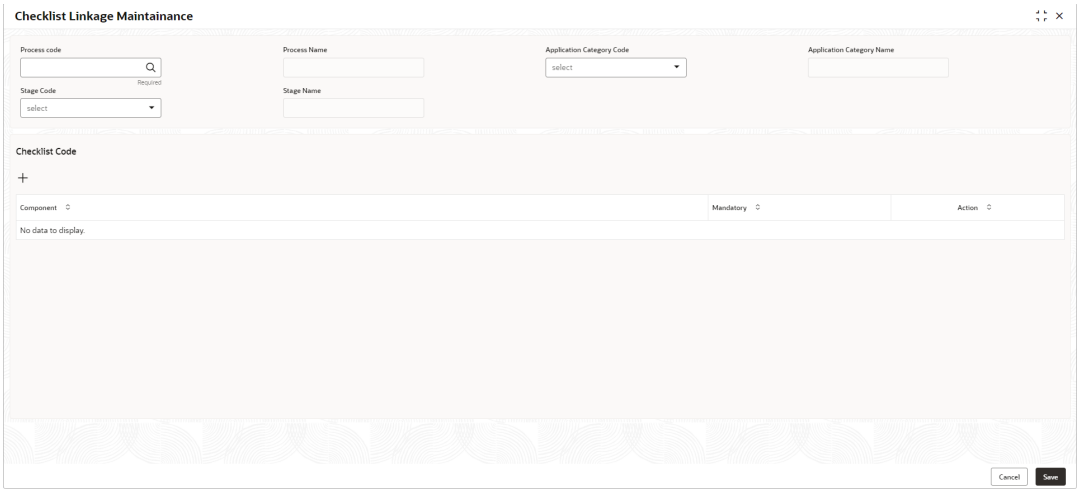
Figure 1-23 Checklists Linkage Maintenance



> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 1-23 Checklists Linkage Maintenance – Field Description

Field	Description
Process Code	Select the process code to maintain the checklists. This retrieves all the process codes.
Process Name	Displays the description of the process code. It is read-only. Populates description of the process code.
Application Category Code	Select the application category code from the drop-down list. This is day 0 data for that specific process code.
Application Category Name	Displays the description of the application category. It is read-only. Populates the configured application category description.
Stage Code	Select the stage code from the drop-down list for which checklists needs to be maintained. It is read-only. Populates the configured stage description.
Stage Name	Displays the description of the stage code to be maintained. It is read-only. Populates the configured stage description.

4. Click to add a row and provide the checklist code details.
5. Perform one of the following action:
   - Click **Save** to save the details.
   - Click **Cancel** to discard the changes and close the screen.

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1.10 Country Code

This topic describes the information to configure the Country code.

Country Codes within the system can be configured to represent the various countries in which the financial institution conducts business. They play a pivotal role in determining specific functionalities that may differ from one country to another. These functionalities could encompass activities such as IBAN checks, transaction processing limits, and the information disclosed to intermediate banks during transaction processing.

This topic contains the following subtopics:

- Create Country Code
  This topic describes the systematic instructions to configure a country code.
- View Country Code
  This topic describes the systematic instructions to view the list of configured country code.

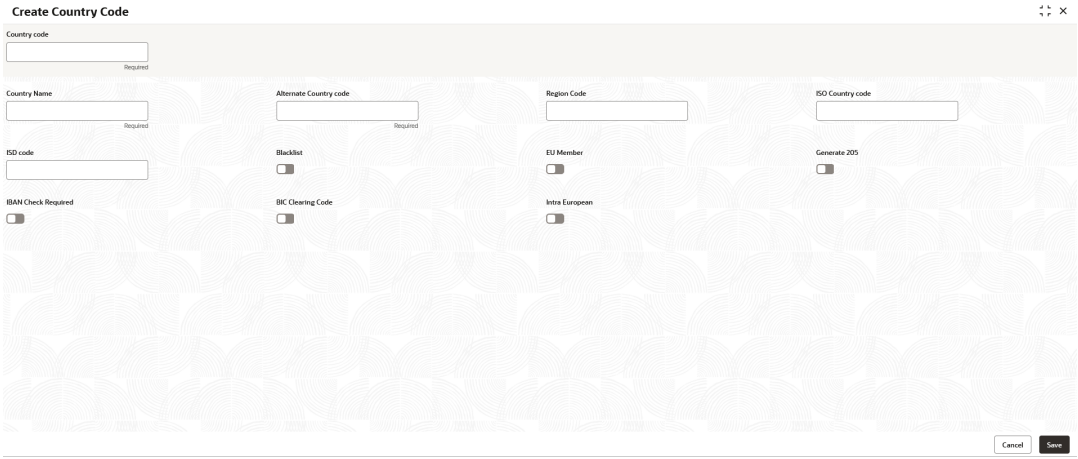
1.10.1 Create Country Code

This topic describes the systematic instructions to configure a country code.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Country Code**.
2. Under **Country Code**, click **Create Country Code**.

   The **Create Country Code** screen is displayed.

Figure 1-24 Create Country Code



3. Specify the fields on the **Create Country Code** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

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Table 1-24 Create Country Code – Field Description

Field	Description
Country Code	Specify a unique code to identify the country.
Country Name	Specify the name of the country.
Alternate Country Code	Specify the alternate country code. This is for information purposes only and will not be printed on any customer correspondence. For example you can have US as the alternate code for USA.
Region Code	Specify the region code.
ISO Country Code	Specify the ISO country code.
ISO Code	Specify the ISO code.
Blacklist	By default, this is disabled. This field is utilized by the system to identify financial transactions where the recipient resides in a blacklisted country, potentially triggering additional approval processes. If selected, indicates the country is blacklisted.
EU Member	By default, this is disabled. If selected, indicates the country is recognized by Swift as a part of the Intra European countries.
Generate 205	By default, this is disabled. If selected, indicates the cover message 205COV or 205 need to be generated for transactions involving this country. If the user does not select this option, RTGS, 202 or 202COV message is generated.
IBAN Check Required	By default, this is disabled. In many european banks, IBAN is required in financial transactions to ensure money is routed to the correct destination. If this feature is enabled, users must provide the IBAN mandatorily, and the IBAN check validation algorithm is activated when the financial transaction is initiated.
BIC Clearing Code	By default, this is disabled. If selected, indicates the National ID in the BIC plus file is the clearing code. During upload of clearing codes from BIC plus file, the records belong to countries against which this box is selected.
Intra European	By default, this is disabled. If selected, indicates the country is an intra European country.

4. Perform one of the following action:
   - Click **Save** to save the details.
     The country code is successfully created and can be viewed using the View Country Code screen.
   - Click **Cancel** to discard the changes and close the screen.

1.10.2 View Country Code

This topic describes the systematic instructions to view the list of configured country code.

The user can configure country code using Create Country Code screen.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Country Code**.
2. Under **Country Code**, click **View Country Code**.

   The **View Country Code** screen is displayed.

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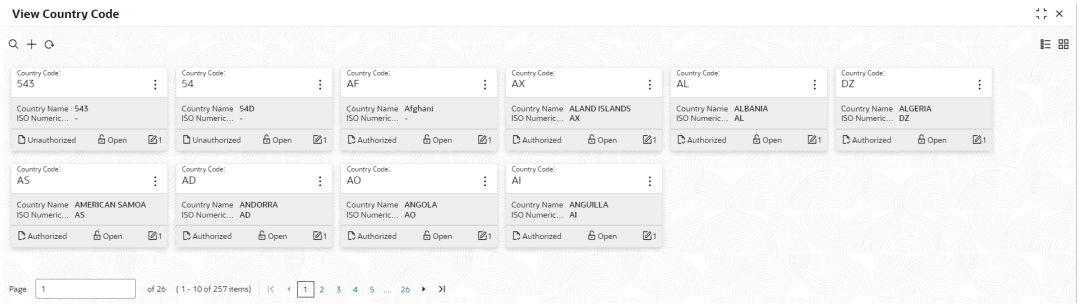
Figure 1-25 View Country Code



For more information on fields, refer to the field description table.

Table 1-25 View Country Code – Field Description

Field	Description
Country Code	Displays the code of the country.
ISO Numeric Code	Displays the ISO numeric code details of the country code.
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

1.11 Currency Definition

This topic describes the information to define the currency using Currency Definition maintenance.

The user can define the attributes of the currencies in which the bank can deal. For each currency, you can define the attributes such as the SWIFT code for the currency, the country to which the currency belongs, the interest method, the spot days, the settlement days, and so on.

Currencies can be maintained only at the Head Office. The list of currencies is available to the branches based on the currencies defined for the country linked to the branch.

This topic contains the following subtopics:

- Create Currency Definition
  This topic describes the systematic instructions to define currency.
- View Currency Definition
  This topic describes the systematic instructions to view a list of the defined currency.

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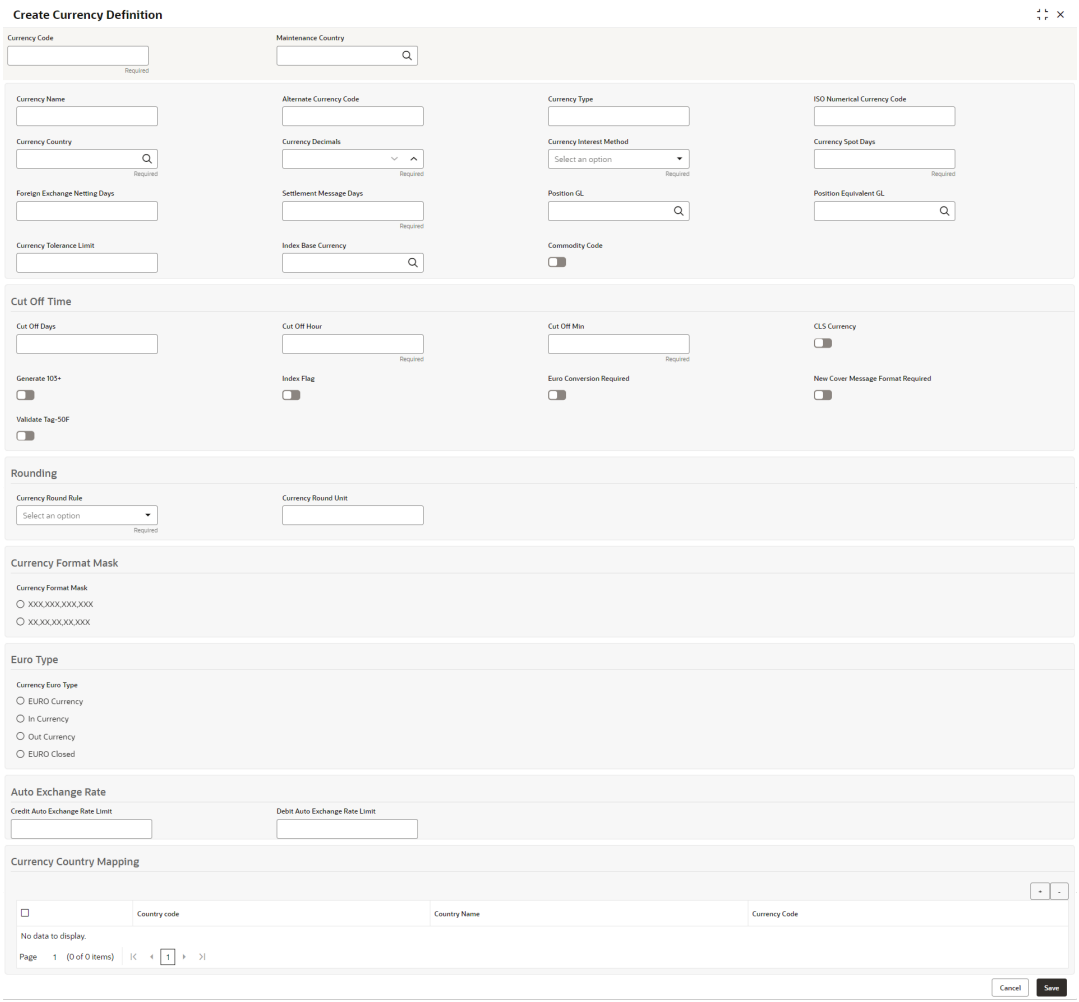
1.11.1 Create Currency Definition

This topic describes the systematic instructions to define currency.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Currency Definition**.
2. Under **Currency Definition**, click **Create Currency Definition**.

   The **Create Currency Definition** screen is displayed.

Figure 1-26 Create Currency Definition



3. Specify the fields on the **Create Currency Definition** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

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Table 1-26 Create Currency Definition – Field Description

Field	Description
Currency Code	Specify the currency code which is the SWIFT code assigned to each currency.
Maintenance Country	Click this icon and select the required maintenance country. This is the country for which the currency is being maintained.
Currency Name	Specify the detailed name of the currency being maintained.
Alternate Currency Code	Specify the code of the alternate currency.
Currency Type	Specify the currency type to which the currency is classified as per the bank's requirement. If customer account mask uses currency then the value in the currency type field would be used during the generation of customer account numbers.
ISO Numerical Currency Code	Specify the numerical currency code as per International Standardization Organization.
Currency Country	Click this icon to view and select the required currency country to indicate the country to which the currency belongs.
Currency Decimals	Specify the number of decimal units up to which the currency can be denominated.
Currency Interest Method	Select the currency interest method from the drop-down list. This indicates the interest method for calcualtions to be used for processing transactions that involve this currency.
Currency Spot Days	Specify the number of spot working days applicable for the currency transaction settlements.
Foreign Exchange Netting Days	Specify the number of days for the foreign exchange netting. This is the cut off day before which all transactions relating to a customer are collated, netted and a single payment message is sent.
Settlement Message Days	Select the settlement message days which indicates the working days prior to which the settlement messages are to be generated.
Position GL	Click this icon to view and select the required position GL for the foreign currency if opted for position accounting.
Position Equivalent GL	Click this icon and select the required position equivalent GL for the foreign currency, if opted for position accounting.
Currency Tolerance Limit	Specify the percentage of currency tolerance limit when maintaining an **In** Currency, or the **Euro**.
Index Base Currency	Click this icon to view and select the required index base currency which is the currency that should be used to handle index-based securities traded by the banks, wherein the deals are done in index currency and their settlement is done through the local currency.

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Table 1-26 (Cont.) Create Currency Definition – Field Description

Field	Description
Commodity Code	By default, this is disabled. If selected, it indicates that maintained currency code is a commodity code which is restricted not to populate in payment.
Cut Off Days	Specify the cut off days for the payment transaction involving the currency.
Cut Off Hour	Specify the hour of the day for the cut off. This indicates the local time of the bank by which all payment transactions involving a currency should be generated.
Cut Off Min	Specify the minute of the hour for the cut off. This indicates the local time of the bank by which all payment transactions involving a currency should be generated.
CLS Currency	By default, this is disabled. By default, this is disabled. If selected, it allows customers of the bank to settle their FX deals via the CLS (Continuous Linked Settlements) Bank, you can identify the currency to be a CLS Currency. FX deals in the CLS currency is only eligible to be routed through the CLS bank.
Generate 103+	By default, this is disabled. If selected, generate outgoing MT 103 messages in the MT 103 + format. If you are enabling this option for a specific currency, ensure to also enable this option: • For your bank branch in the Branch Parameters Maintenance. • For the customer of the contract, in the BIC Code Maintenance. • For the product used by the contract, in the Product Preferences. Consequently, while processing transactions in the specified currency for such a customer, branch and product, for which the MT 103+ option is enabled, the system generates outgoing payment messages in the MT 103 + format. **Note:** Since the system is also capable of processing incoming MT 103 messages in the MT 103 + format. Therefore, during the upload process for your branch, the system considers an MT 103 payment message to be of MT 103+ format for those customer, currency and product combinations, for which the MT 103+ option has been enabled.
Index Flag	By default, this is disabled. If selected, derive index rate of the currency in Lending module.
Euro Conversion Required	By default, this is disabled. If selected, indicates the Euro conversion is required.
New Cover Message Format Required	By default, this is disabled. If selected, indicates a new cover message format is required.
Validate Tag-50F	By default, this is disabled. If selected, indicate that validations need to be performed for the 50F details captured for the ordering customer during contract input.

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Table 1-26 (Cont.) Create Currency Definition – Field Description

Field	Description
Currency Round Rule	Select the currency round rule from the drop-down list. This refers to the method to be followed for rounding off fractional units of a currency. The rounding preferences available are: • **Truncate** - The amount is truncated to the number of decimals specified for the currency • **Round Up** - The amount is rounded up based on the number of decimals and the nearest rounding unit • **Round Down** - The amount is rounded down based on the number of decimals and the nearest rounding unit • **Round Near** - The amount is rounded to the nearest value based on the specified number of decimal places and the nearest rounding unit. This will either round up or round down. For example, if the rounding unit is 0.10, the amount 2.07 will be rounded to 2.10... and 2.03 will be rounded to 2.00.
Currency Round Unit	Specify the currency round unit. If you have selected **Round Up** or **Round Down** in the rule field, user need to indicate the nearest unit to which the rounding should take place. The number of units specified here should not be greater than the number of decimals allowed for the currency.
Currency Format Mask	Select one of the currency format. Specify the format in which amounts in this currency are to be displayed for contracts in this currency. The available options are available: • 999,999,999 • 9,999, 999, 99 The system defaults to the 999,999,999 format.
Currency Euro Type	Select one of the currency euro type. When maintaining a currency in the currency fefinition screen, user have to specify the **Type** of the currency with relation to transition phase of the European Economic and Monetary Union (EMU). User can do this in the **Euro Type** field. User specifications in this field enable you to handle the first phase of the EMU, which commenced on 01 January 1999.The available options are: • **EURO Currency** • **In Currency** • **Out Currency** • **EUTO Closed** National currencies of **In** countries are referred to as **In** currencies. When maintaining other currencies, user have to choose the **Out Ccy** option under euro type. When the transition period ends, the national currencies of the participating countries would cease to exist as valid legal tenders. The euro would be the only legal tender in the participating countries. Consequently, the Euro changes made to Oracle FLEXCUBE will no longer be required. User can turn off the changes at the end of the transition period by: • Closing all **In** currencies • Choosing the **Euro Closed** option (for the Euro).
Credit Auto Exchange Rate Limit	Click **PC** button in the currency definition screen to invoke **Limits** screen. Specify the credit automatic exchange rate limit. The transaction amount of a PC contract must not exceed the limit specified here.

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Table 1-26 (Cont.) Create Currency Definition – Field Description

Field	Description
Debit Auto Exchange Rate Limit	Click **PC** button in the currency definition screen to invoke **Limits** screen. Specify the debit automatic exchange rate limit. The transaction amount of a PC contract must not exceed the limit specified here.
+ button	Click this icon to add the details for currency country mapping.
Country Code	Click this icon to view and select the required country code. Specify the clearing zone country code. Alternatively, you can select the country code from the option list. The list displays all the country codes maintained in the system.
Country Name	Specify the name of the country. The system displays the name of the clearing zone country.
Currency Code	Click this icon to view and select the required currency code. The system displays the currency code maintained in the system.

Cut Off Time: It refers to the time by which all transactions involving a currency should be generated. For a currency, the user can indicate the cut-off hour and minute. This time should be expressed in the local time of the bank.

The maintenance of a cut-off time for a currency has particular reference to outgoing funds transfers involving it.

For example, the value date of a funds transfer transaction (incoming payment) involving USD, is 3rd June 2018. The number of cut-off days specified for the currency is 2. This means that the payment must be received on or before 1st June 2018. If the payment is received on 1st June, it must be received before the cut-off time specified for USD.

If the USD cut-off time is 12:00 hrs, if the payment is received on 1st June 2018, it must be received before 12:00 hrs.

4. Perform one of the following action:
   - Click **Save** to save the details.
     The Currency definition is successfully created and can be viewed using the View Currency Definition screen.
   - Click **Cancel** to discard the changes and close the screen.

1.11.2 View Currency Definition

This topic describes the systematic instructions to view a list of the defined currency.

The user can configure currency definition using Create Currency Definition screen.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Currency Definition**.
2. Under **Currency Definition**, click **View Currency Definition**.

   The **View Currency Definition** screen is displayed.

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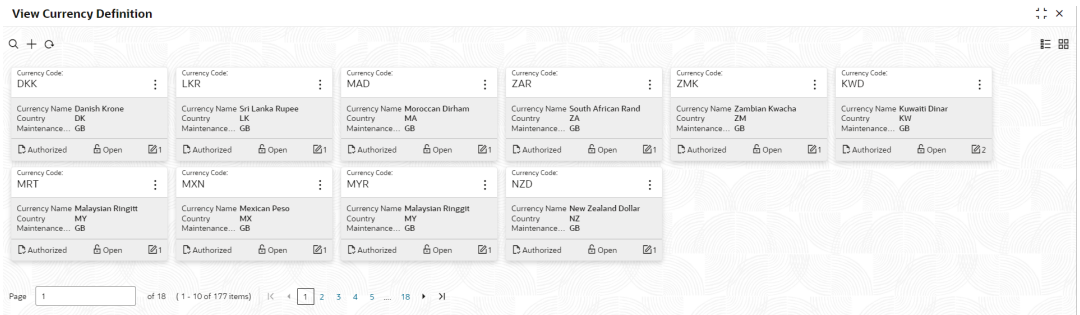
> **Note**
>
> By default, branch maintenance country code records are displayed. Other maintenance country-related records can be viewed using the search option.

Figure 1-27 View Currency Definition



For more information on fields, refer to the field description table.

Table 1-27 View Currency Definition – Field Description

Field	Description
Currency Code	Displays the code of the currency.
Currency Name	Displays the name of the currency.
Alternate Currency Code	Displays the code of the alternate currency.
Country	Displays the country associated with the currency.
Maintenance Country	Displays the maintenance country.
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

1.12 Currency Exchange Rate

This topic describes the information to configure a Currency Exchange Rate.

The user can maintain exchange rates for a currency pair, the rates at which the user buy and sell one currency for another. A bank determines its buy and sell rate for a currency pair by applying a spread (that is, its profit margin) to the mid-rate of the currency pair. Mid-rate is the basic rate at which a currency pair is exchanged.

The spread applied for a currency pair varies with the transaction type, while the mid-rate usually remains constant. Consequently, different rates are applicable to different transaction types. For instance dollars in currency are purchased at a certain rate, while USD traveler's

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checks are bought at a different rate. The user can define a rate type which you would like to associate with a transaction type. For example: CASH, TRAVCHKS, and so on.

The user can define the mid-rate, buy, and sell spread applicable to each rate type; the buy and sell exchange rates are computed by the system. Buy rates and sell rates can either be maintained by individual branches or can be input by the HO and propagated to all the branches.

If the branch for which the rate is being uploaded or maintained is the head office branch, then the rate would be copied to all those branches that have the same country code as the head office branch.

If the branch for which the rate is being uploaded or maintained is not the head office branch, but it has the same country code as the head office branch, then the rate being uploaded or maintained would be specific to the branch and would not be copied to any other branch.

If the branch for which the rate is being uploaded or maintained is not the head office branch and also does not have the same country code as the head office branch, then the rate being maintained would be copied to all the branches that has the same country code linked as the branch for which the rate is being maintained or uploaded.

This topic contains the following subtopics:

- Create Currency Exchange Rate
  This topic describes the systematic instructions to configure a currency exchange rate.
- View Currency Exchange Rate
  This topic describes the systematic instructions to view the list of configured currency exchange rates.

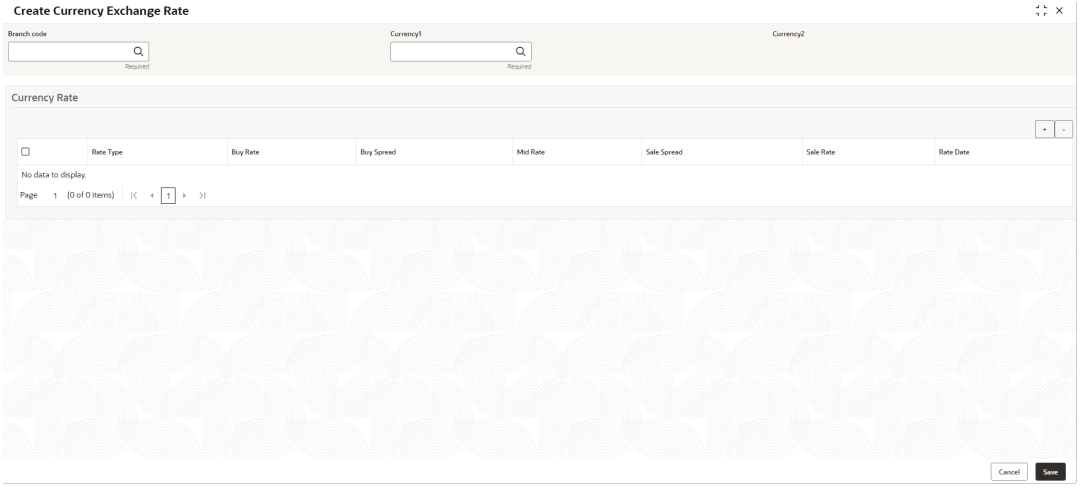
1.12.1 Create Currency Exchange Rate

This topic describes the systematic instructions to configure a currency exchange rate.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Currency Exchange Rate**.
2. Under **Currency Exchange Rate**, click **Create Currency Exchange Rate**.

   The **Create Currency Exchange Rate** screen is displayed.

Figure 1-28 Create Currency Exchange Rate



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3. Specify the fields on the **Create Currency Exchange Rate** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 1-28 Create Currency Exchange Rate – Field Description

Field	Description
Branch Code	Click **Search** icon to view and select the required branch code.
Currency 1	Click **Search** icon to view and select the required currency.
Currency 2	Displays the currency 2 based on selected **Currecny1**.
Currency Rule	Specify the currency rule details.
Rate Type	Select a rate type from the drop-down list.
Buy Rate	Displays the Buy Rate for the Currency Exchange. Buy Rate is calculated based on Spread Definition maintained in the Currency Pair Maintenance screen. The effective spread is calculated using any of the following two methods: a. **Percentage**: If the **Spread Definition** is selected as **Percentage**, then the buy rate is calculated as below: Buy Rate = Mid Rate-Buy Spread% Buy Spread% = Mid Rate*Buy Spread/100 For example, 50*5/100 is 2.5 which is Buy Spread. Now Buy Rate will be 50-2.5 which is 47.5. b. **Points** If you select **Spread Definition** as **Points** then the buy rate is calculated as below: Buy Rate = Mid Rate-Buy Spread For example, if Buy Spread is 5, then Buy Rate is 50-5 = 45
Buy Spread	Specify the buy spread details. The Buy Spread should be defaulted from the **Spread Definition** screen, if available. The user is allowed to modify the rates as needed.
Mid Rate	Specify the mid-rate details.
Sale Spread	Specify the sale spread details. The Sale Spread should be defaulted from the **Spread Definition** screen, if available. The user is allowed to modify the rates as needed.

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Table 1-28 (Cont.) Create Currency Exchange Rate – Field Description

Field	Description
Sale Rate	Displays the Sale Rate for the Currency Exchange. Sale Rate is calculated based on Spread Definition maintained in the Currency Pair Maintenance screen. The effective spread is calculated using any of the following two methods: **a. Percentage** If the **Spread Definition** is selected as **Percentage**, then the sale rate is calculated as below: Sale Rate = Mid Rate+Sale Spread% Sale Spread% = Mid Rate*Sale Spread/100 For example, 50*5/100 is 2.5 which is Sale Spread. Now Sale Rate will be 50+2.5 which is 52.5. **b. Points** If you select **Spread Definition** as **Points** then the sale rate is calculated as below: Sale Rate = Mid Rate+Sale Spread For example, if Sale Spread is 5 then Sale Rate is 50+5 = 55.
Rate Date	Select a rate date from the drop-down calendar.

4. Perform one of the following action:
   - Click **Save** to save the details.
     The currency exchange rate is successfully created and can be viewed using the View Currency Exchange Rate screen.
   - Click **Cancel** to discard the changes and close the screen.

1.12.2 View Currency Exchange Rate

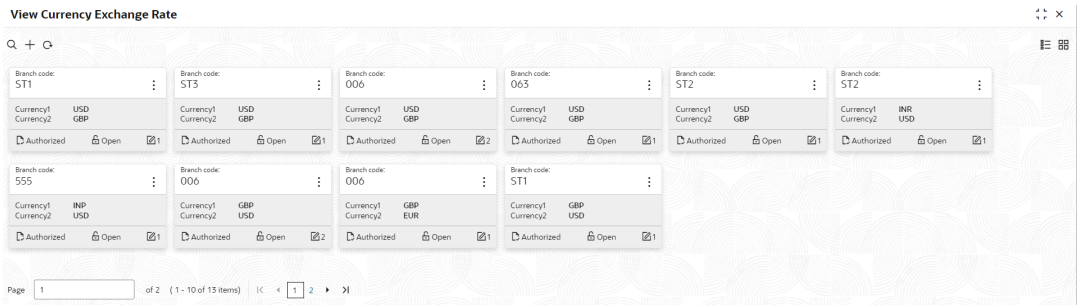
This topic describes the systematic instructions to view the list of configured currency exchange rates.

The user can configure currency exchange rate using Create Currency Exchange Rate screen.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Currency Exchange Rate**.
2. Under **Currency Exchange Rate**, click **View Currency Exchange Rate**.

   The **View Currency Exchange Rate** screen is displayed.

Figure 1-29 View Currency Exchange Rate



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For more information on fields, refer to the field description table.

Table 1-29 View Currency Exchange Rate – Field Description

Field	Description
Branch Code	Displays the code of the branch.
Currency 1-2	Displays the currency associated with the branch code.
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

1.13 Currency Holiday Master

This topic describes the information to configure a Currency Holiday.

The user can configure a yearly list of holidays, for the currencies, defined in the currency screen. The system uses the information maintained to check if any settlement involving a foreign currency (in the foreign Exchange, Money market, and Funds Transfer, Loans, and Deposit modules) falls on that currency holiday. If yes, the system displays a message stating and ask the user for an override.

For any schedule or contract maturing at a future date is five years. Hence, the user can input the future date, only if the calendar for that year is maintained. The currency holiday is maintained at the bank level by the Head Office.

This topic contains the following subtopics:

- Create Currency Holiday Master
  This topic describes the systematic instructions to configure a currency holiday.
- View Currency Holiday Master
  This topic describes the systematic instructions to view the list of configured currency holiday.

1.13.1 Create Currency Holiday Master

This topic describes the systematic instructions to configure a currency holiday.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Currency Holiday Master**.
2. Under **Currency Holiday Master**, click **Create Currency Holiday Master**.

   The **Create Currency Holiday Master** screen is displayed.

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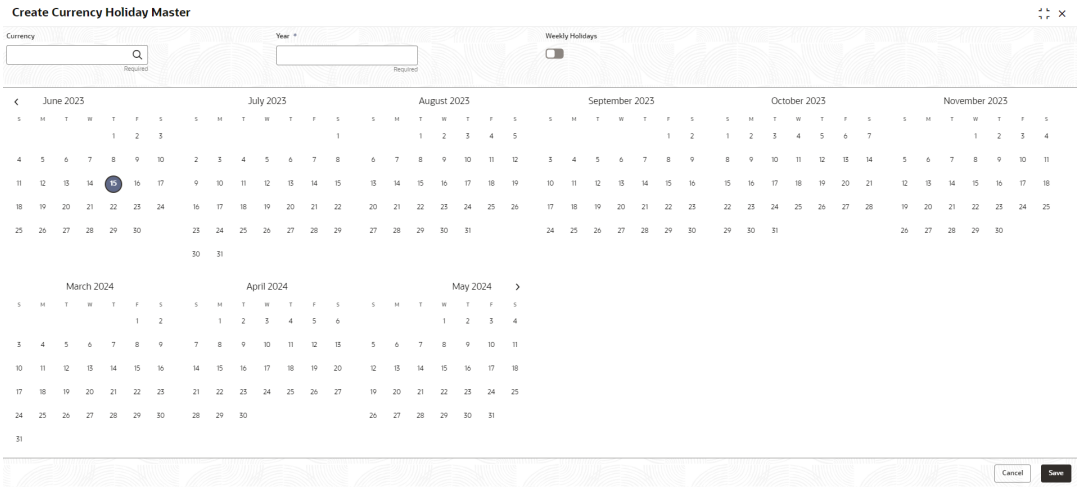
Figure 1-30 Create Currency Holiday Master



3. Specify the fields on the **Create Currency Holiday Master** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 1-30 Create Currency Holiday Master – Field Description

Field	Description
Currency	Click **Search** icon to view and select the required currency.
Year	Specify the year details.
Weekly Holidays	By default, this is disabled. If selected, indicates the weekly holidays.

4. Select the dates using the calendar.

> **Note**
>
> The selected dates displays in blue highlighted circle.

5. Perform one of the following action:
   - Click **Save** to save the details.
     The currency holiday master is successfully created and can be viewed using the View Currency Holiday Master screen.
   - Click **Cancel** to discard the changes and close the screen.

1.13.2 View Currency Holiday Master

This topic describes the systematic instructions to view the list of configured currency holiday.

The user can configure currency holiday master using Create Currency Holiday Master screen.

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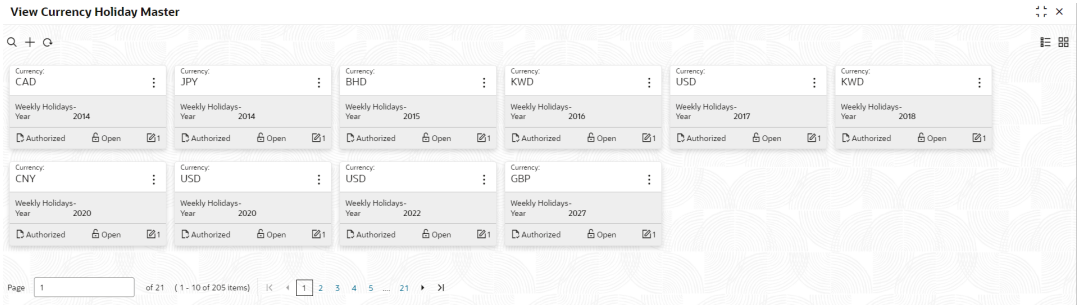
1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Currency Holiday Master**.
2. Under **Currency Holiday Master**, click **View Currency Holiday Master**.

   The **View Currency Holiday Master** screen is displayed.

Figure 1-31 View Currency Holiday Master



For more information on fields, refer to the field description table.

Table 1-31 View Currency Holiday Master – Field Description

Field	Description
Currency Rate Type	Displays the currency details.
Weekly Holidays	Displays the weekly holidays associated with the currency.
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

1.14 Currency Pair Definition

This topic describes the information to define a Currency Pair.

In the foreign exchange markets, the exchange rates for some currency pairs such as the USD-GBP or USD-JPY are easily obtainable, since these are frequently traded. The exchange rates of other currencies such as the ZAR-INR (South African Rand - Indian Rupee), which is not traded very often, are determined through a third currency. The third currency is usually the US dollar since the US dollar is quoted in all trading centers.

The user can define the static attributes of currency pairs for which a regular market quote is readily available. For other pairs, which do not have a regular market quote, you need to specify the third currency through which the system should compute the exchange rate. The currency pair is maintained at the bank level by the Head Office branch.

This topic contains the following subtopics:

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- Create Currency Pair Definition
  This topic describes the systematic instructions to define currency pair.
- View Currency Pair Definition
  This topic describes the systematic instructions to view the list of define a currency pair.

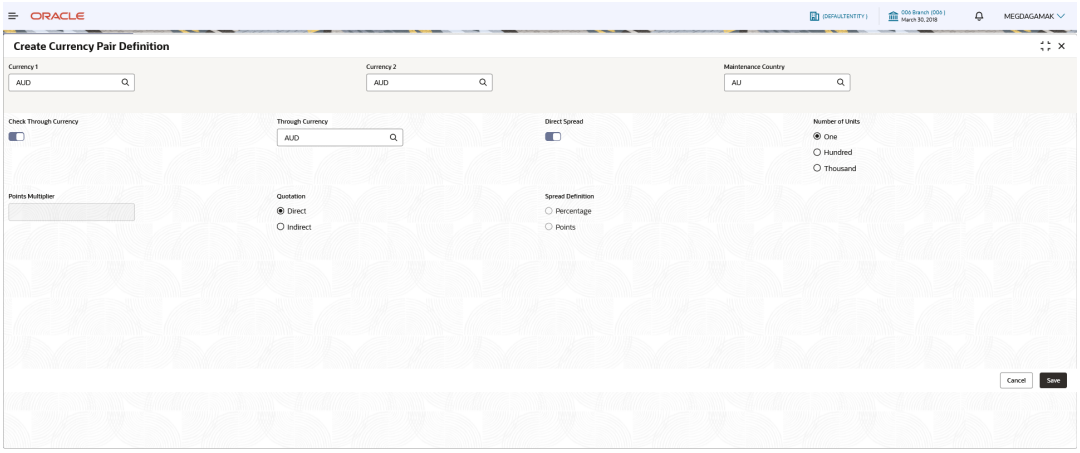
1.14.1 Create Currency Pair Definition

This topic describes the systematic instructions to define currency pair.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Currency Pair Definition**.
2. Under **Currency Pair Definition**, click **Create Currency Pair Definition**.

   The **Create Currency Pair Definition** screen is displayed.

Figure 1-32 Create Currency Pair Definition



3. Specify the fields on the **Create Currency Pair Definition** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

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Table 1-32 Create Currency Pair Definition – Field Description

Field	Description
Currency 1-2	Click **Search** icon to view and select the required currency. A currency pair (specified as currency 1 and currency 2, in the currency pair) represents the two currencies for which the user need to maintain exchange rates. To specify the pair, choose from the list provided against Currency 1. Select the pair for which you want to maintain parameters. The pair must be selected according to the quotation method followed by the market, which can be direct or indirect. Exchange rates can be defined for currency 1 against currency 2 or currency 2 against currency 1.
Maintenance Country	Click **Search** icon to view and select the required maintenance country.
Check through Currency	By default, this is disabled. If selected, it indicates a check through currency.
Through Currency	Click **Search** icon to view and select the required through currency for which the exchange rate between the currencies must be calculated. The **Through Currency** field is enabled when the user enables **Check through Currency**.
Direct Spread	Toggle to enable the facility to have an alternative way to compute the Buy / Sell Currency Exchange Rates for Foreign currency pairs (FCY1-FCY2) that uses the through currency. The **Through Currency** field is enabled when the user enables **Check through Currency**.
Number of Units	Select one of the number of units. The available options are below: • **One** • **Hundred** • **Thousand**
Points Multiplier	Specify the points multiplier.
Quotation	Select one of the required quotation: • **Direct**: The exchange rate for the currency pair is quoted as follows: Buy rate = mid rate - buy spread Sell rate = mid rate + sell spread Ccy 1 = Rate x Ccy 2 • **Indirect**: The exchange rate for the currency pair is quoted as follows: Buy rate = mid rate + buy spread Sell rate = mid rate - sell spread Ccy 2 = Rate x Ccy 1
Spread Definition	Select the required spread definition. The effective spread can be calculated using any of the following two methods: • **Percentage**: Spread/100 x mid rate • **Points**: Spread x points multiplier The method of **Spread Definition** that user specify applies to two instances: • While maintaining exchange rates for the currency pair. • While maintaining customer spread for the currency pair.

4. Perform one of the following action:

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- Click **Save** to save the details.
  The currency pair definition is successfully created and can be viewed using the View Currency Pair Definition screen.
- Click **Cancel** to discard the changes and close the screen.

1.14.2 View Currency Pair Definition

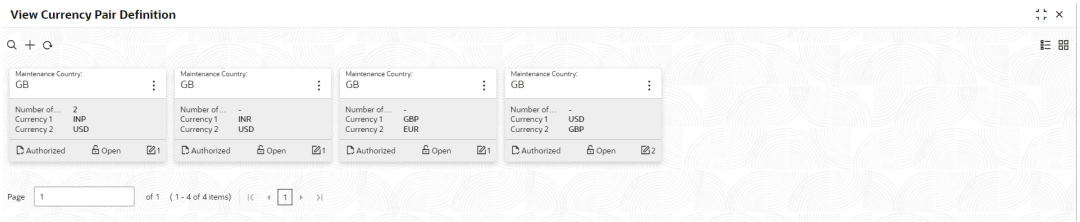
This topic describes the systematic instructions to view the list of define a currency pair.

The user can configure currency pair definition using Create Currency Pair Definition screen.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Currency Pair Definition**.
2. Under **Currency Pair Definition**, click **View Currency Pair Definition**.

   The **View Currency Pair Definition** screen is displayed.

Figure 1-33 View Currency Pair Definition



For more information on fields, refer to the field description table.

Table 1-33 View Currency Pair Definition – Field Description

Field	Description
Maintenance Country	Displays the maintenance country details.
Number of Units	Displays the number of units.
Currency 1-2	Displays the currency associated with the country.
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

1.15 Currency Rate Type

This topic describes the information to configure a Currency Rate.

This topic contains the following subtopics:

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- Create Currency Rate Type
  This topic describes the systematic instructions to configure currency rate type.
- View Currency Rate Type
  This topic describes the systematic instructions to view the list of configured currency rate type.

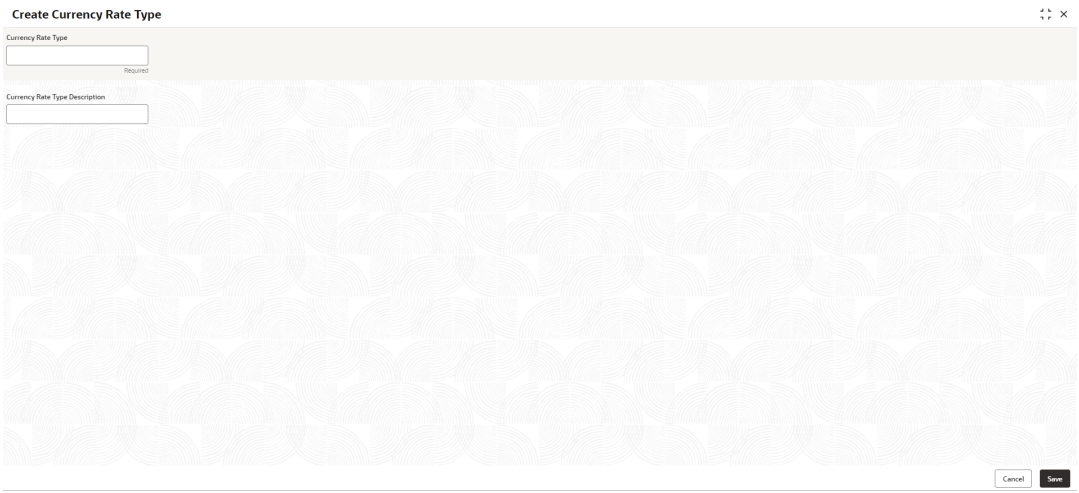
1.15.1 Create Currency Rate Type

This topic describes the systematic instructions to configure currency rate type.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Currency Rate Type**.
2. Under **Currency Rate Type**, click **Create Currency Rate Type**.

   The **Create Currency Rate Type** screen is displayed.

   Figure 1-34 Create Currency Rate Type



3. Specify the fields on the **Create Currency Rate Type** screen.

   > **Note**
   > The fields marked as **Required** are mandatory.

   For more information on fields, refer to the field description table.

   Table 1-34 Create Currency Rate Type – Field Description

Field	Description
Currency Rate Type	Specify the currency rate type.
Currency Rate Type Description	Specify additional information about the currency rate type.

4. Perform one of the following action:
   - Click **Save** to save the details.
     The currency rate type is successfully created and can be viewed using the View Currency Rate Type screen.

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- Click **Cancel** to discard the changes and close the screen.

1.15.2 View Currency Rate Type

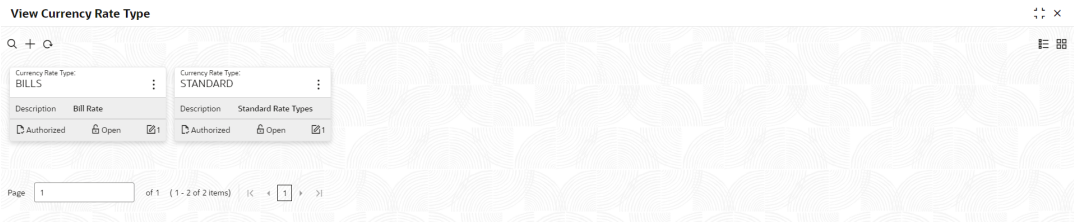
This topic describes the systematic instructions to view the list of configured currency rate type.

The user can configure currency rate type using Create Currency Rate Type screen.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Currency Rate Type**.
2. Under **Currency Rate Type**, click **View Currency Rate Type**.

   The **View Currency Rate Type** screen is displayed.

Figure 1-35 View Currency Rate Type



For more information on fields, refer to the field description table.

Table 1-35 View Currency Rate Type – Field Description

Field	Description
Currency Rate Type	Displays the currency rate type.
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

1.16 Currency Spread Definition

This topic describes the information to enable the Buy / Sale spreads defined for each Branch, Currency pair and Rate type combination.

This gives a flexibility to define exchange rates, as spreads do not change frequently. By maintaining a common spread, currency exchange rate input becomes easier, as users only need to enter the mid rates.

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> **Note**
>
> This maintenance is applicable only for those branches which has a separate exchange_rate maintenance (Ie) Branches with **<Use Head Office Exchange Rate>** as (**N**)

This topic contains the following subtopics:

- Create Currency Spread Definition
  This topic describes the systematic instructions to maintain the spread for the branch and currency pair wise.
- View Currency Spread Definition
  This topic describes the systematic instructions to view the list of currency spread maintenance.

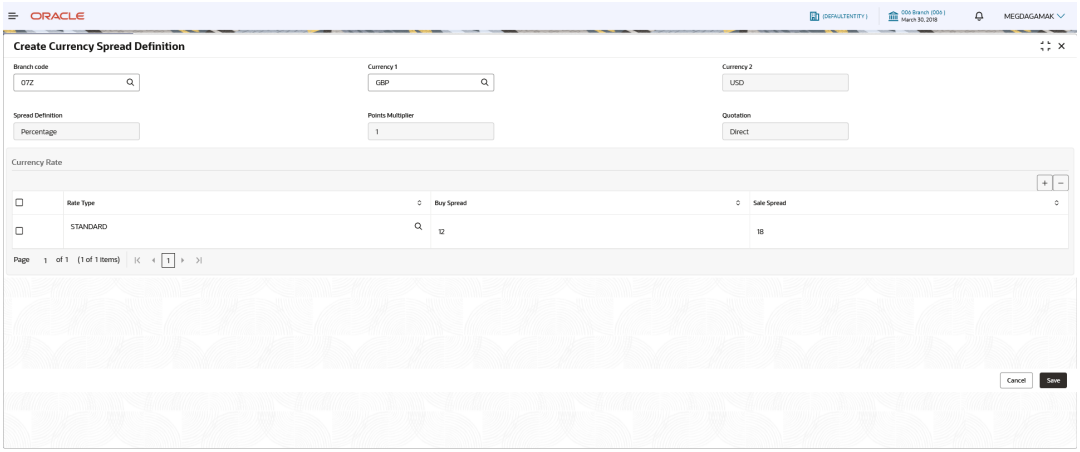
1.16.1 Create Currency Spread Definition

This topic describes the systematic instructions to maintain the spread for the branch and currency pair wise.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Currency Spread Definition**.
2. Under **Currency Spread Definition**, click **Create Currency Spread Definition**.

   The **Create Currency Spread Definition** screen is displayed.

Figure 1-36 Create Currency Spread Definition



3. Specify the fields on the **Create Currency Spread Definition** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

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Table 1-36 Create Currency Spread Definition – Field Description

Field	Description
Branch Code	Specify a branch code.
Currency1	Click Search icon to view and select the required currency of currency pair.
Currency2	Displays the currency of currency pair. The value based on the currency 1 selection
Spread Definition	Auto filled from currency pair definition screen (based on the Currency selection). The options are: • **Percentage:**Spread/100 x mid rate • **Points:**Spread x points multiplier
Points Multiplier	Displays the Points Multiplier.
Quotation	Displays the quotation. The options are: • **Direct** • **Indirect**
+ button	Click this icon to add the details for currency rate.
Rate Type Code	Click this icon to view and select the required rate type. Specify the currency rate types from Currency Rate Type Maintenance. Alternatively, you can select the currency rate type from the option list. The list displays all the currency rate type maintained in the system.
Buy Spread	Specify the buy spread values for the selected branch and currency pair.
Sale Spread	Specify the sale spread values for the selected branch and currency pair.

4. Perform one of the following action:
   - Click **Save** to save the details.
     The Currency Spread Definition is successfully created and can be viewed using the View Currency Spread Definition screen.
   - Click **Cancel** to discard the changes and close the screen.

1.16.2 View Currency Spread Definition

This topic describes the systematic instructions to view the list of currency spread maintenance.

The user can configure a Currency Spread maintenance using **Create Currency Spread Definition** screen.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Currency Spread Definition**.
2. Under **Currency Spread Definition**, click **View Currency Spread Definition**.

   The **View Currency Spread Definition** screen is displayed.

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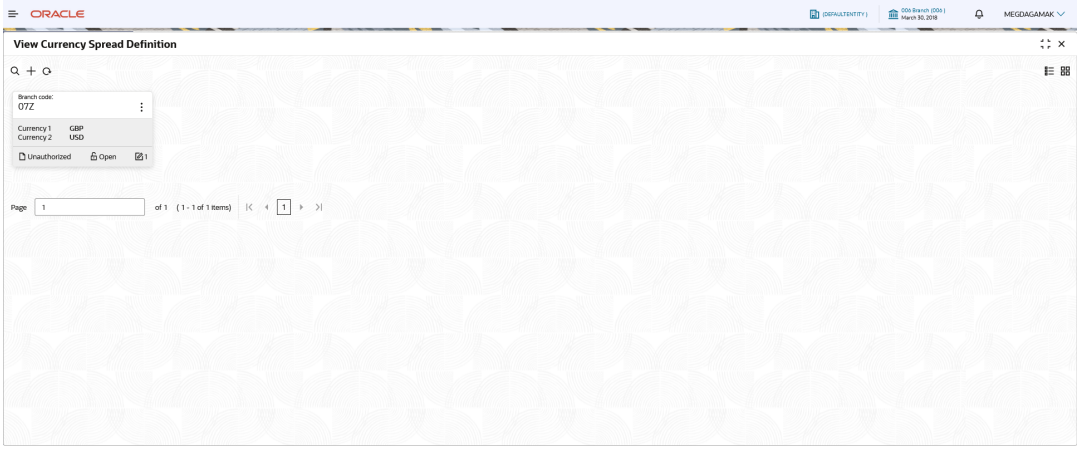
Figure 1-37 View Currency Spread Definition



For more information on fields, refer to the field description table.

Table 1-37 View Currency Spread Definition – Field Description

Field	Description
Branch Code	Displays the branch code.
Currency 1-2	Displays the currencies associated with the currency pair.
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

1.17 Customer Access Group

This topic describes the information to configure the customer access group.

This topic contains the following subtopics:

- Create Customer Access Group
  This topic describes the systematic instructions to configure a customer access group.
- View Customer Access Group
  This topic describes the systematic instructions to view the list of configured customer access group.

1.17.1 Create Customer Access Group

This topic describes the systematic instructions to configure a customer access group.

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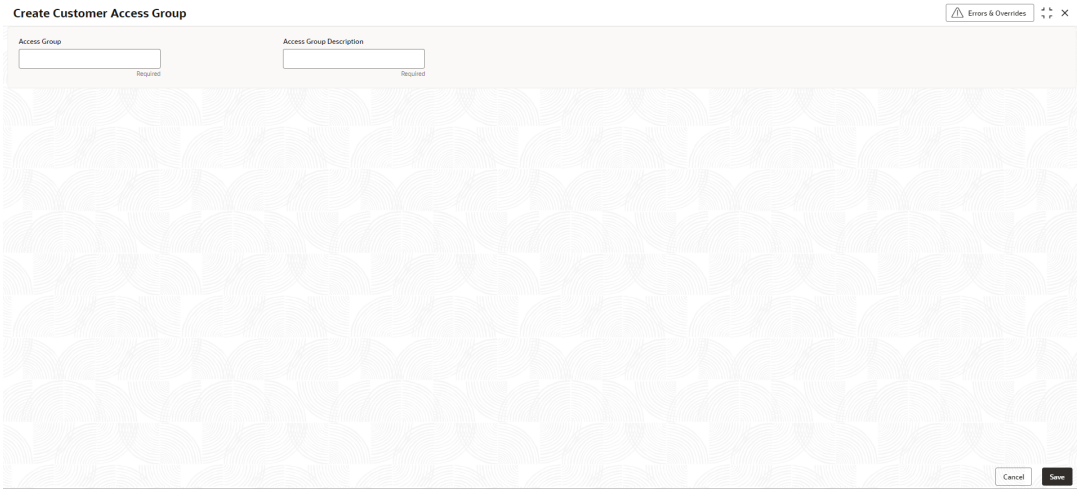
1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Customer Access Group**.
2. Under **Customer Access Group**, click **Create Customer Access Group**.

   The **Create Customer Access Group** screen is displayed.

Figure 1-38 Create Customer Access Group



3. Specify the fields on the **Create Customer Access Group** screen.

   > **Note**
   >
   > The fields marked as **Required** are mandatory.

   For more information on fields, refer to the field description table.

Table 1-38 Create Customer Access Group – Field Description

Field	Description
Access Code	Specify the access group.
Access Code Description	Specify the additional information about the access group.

4. Perform one of the following action:
   - Click **Save** to save the details.
     The customer access group is successfully created and can be viewed using the **View Customer Access Group** screen.

     > **Note**
     >
     > Customer Access Group can be linked at the user level to restrict unauthorized access to Customer details. Refer **Oracle Banking Security Management System User Guide** for more details.

   - Click **Cancel** to discard the changes and close the screen.

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1.17.2 View Customer Access Group

This topic describes the systematic instructions to view the list of configured customer access group.

The user can configure customer access group using **Create Customer Access Group** screen.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Customer Access Group**.
2. Under **Customer Access Group**, click **View Customer Access Group**.

   The **View Customer Access Group** screen is displayed.

Figure 1-39 View Customer Access Group

For more information on fields, refer to the field description table.

Table 1-39 View Customer Access Group – Field Description

Field	Description
Access Group	Displays the access group.
Access Group Description	Displays the additional information about the customer access group.
Authorization Status	Displays the authorization status of the access group. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Displays the record status of the access group. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

1.18 Customer Category

This topic describes the information to configure a Customer Category

The types of customer categories maintained will be utilized by the domains to enable preferential pricing, processing, validations, etc., for the entire category of customers. Currently, there is no processing available based on the customer category.

This topic contains the following subtopics:

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- Create Customer Category
  This topic describes the systematic instructions to configure a customer category.
- View Customer Category
  This topic describes the systematic instructions to view the list of configured customer category.

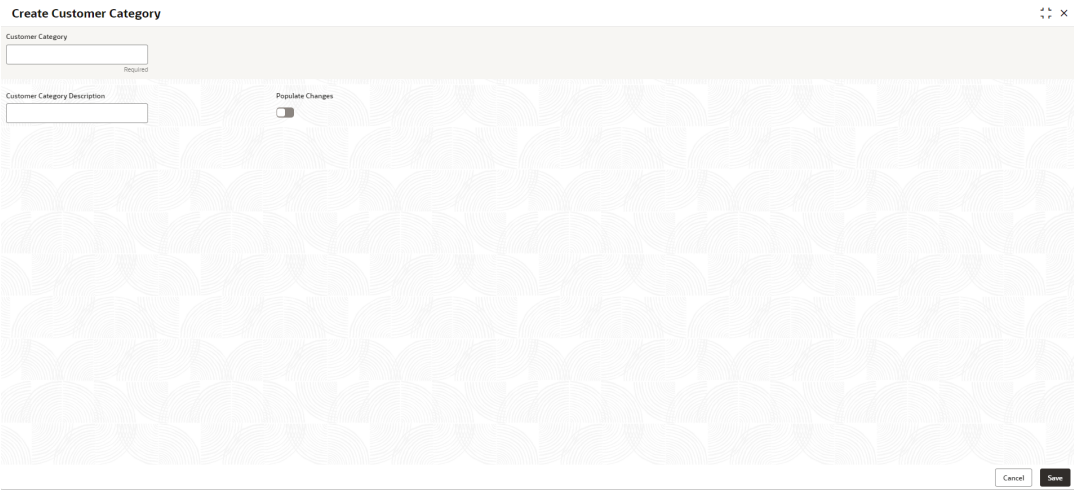
1.18.1 Create Customer Category

This topic describes the systematic instructions to configure a customer category.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Customer Category**.
2. Under **Customer Category**, click **Create Customer Category**.

   The **Create Customer Category** screen is displayed.

Figure 1-40 Create Customer Category



3. Specify the fields on the **Create Customer Category** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 1-40 Create Customer Category – Field Description

Field	Description
Customer Category	Specify the customer category. This field is utilized by the system to identify the customer category. Various categories of customers such as Association, Trust, Individual, etc., can be maintained.
Customer Category Description	Specify the additional information about the customer category.

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Table 1-40 (Cont.) Create Customer Category – Field Description

Field	Description
Populate Changes	By default, this is disabled. If this flag is enabled, any changes made to the category will be displayed.

4. Perform one of the following action:
   - Click **Save** to save the details.
     The customer category is successfully created and can be viewed using the View Customer Category screen.
   - Click **Cancel** to discard the changes and close the screen.

1.18.2 View Customer Category

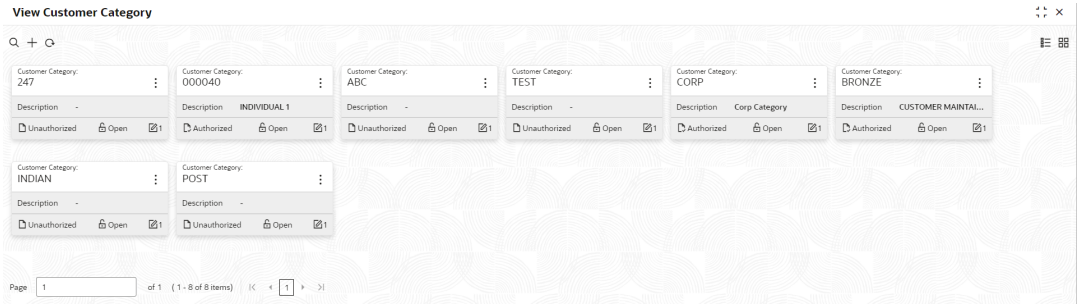
This topic describes the systematic instructions to view the list of configured customer category.

The user can configure customer category using Create Customer Category screen.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Customer Category**.
2. Under **Customer Category**, click **View Customer Category**.

   The **View Customer Category** screen is displayed.

Figure 1-41 View Customer Category



For more information on fields, refer to the field description table.

Table 1-41 View Customer Category – Field Description

Field	Description
Customer Category	Displays the customer category.
Authorization Status	Displays the authorization status of the report. The options are: • **Authorized** • **Rejected** • **Unauthorized**

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Table 1-41 (Cont.) View Customer Category – Field Description

Field	Description
Record Status	Displays the record status of the report. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

1.19 Data Segment

This topic describes the information to configure an Data Segment.

This topic contains the following subtopics:

- Create Data Segment
  This topic describes the systematic instructions to configure the data segment.
- View Data Segment
  This topic describes the systematic instructions to view the list of configured data segment.

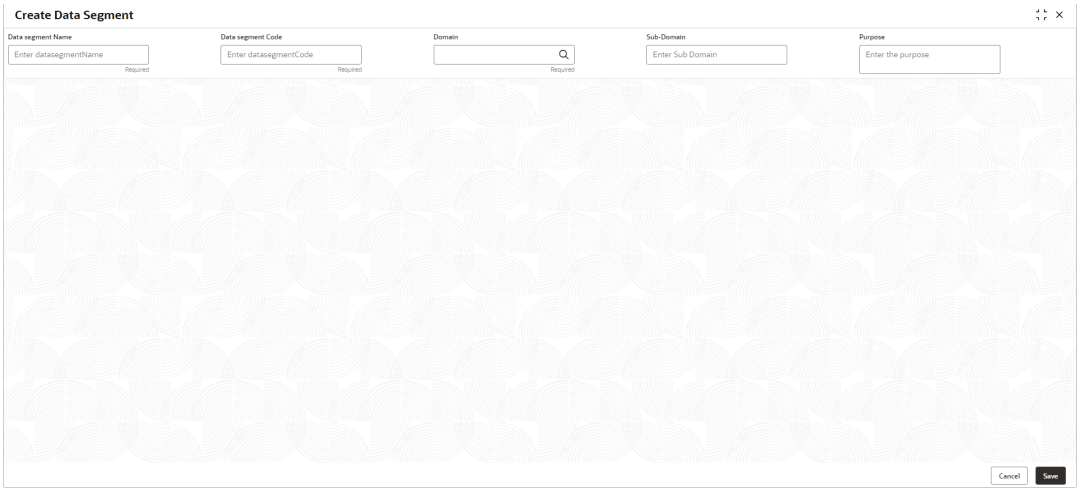
1.19.1 Create Data Segment

This topic describes the systematic instructions to configure the data segment.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Data Segment**.
2. Under **Data Segment**, click **Create Data Segment**.

   The **Create Data Segment** screen is displayed.

   Figure 1-42 Create Data Segment



3. Specify the fields on the **Create Data Segment** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

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For more information on fields, refer to the field description table.

Table 1-42 Create Data Segment – Field Description

Field	Description
Data Segment Name	Specify the data segment name to be maintained.
Data Segment Code	Specify the data segment code to be used.
Domain	Click **Search** icon and select the domain from the list.
Sub-Domain	Specify the sub domain details.
Purpose	Specify the purpose details.

4. Perform one of the following action:
   - Click **Save** to save the details.
     The data segment is successfully created and can be viewed using the **View Data Segment** screen.
   - Click **Cancel** to discard the changes and close the screen.

1.19.2 View Data Segment

This topic describes the systematic instructions to view the list of configured data segment.

The user can configure an data segment using **Create Data Segment** screen.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Data Segment**.
2. Under **Data Segment**, click **View Data Segment**.

   The **View Data Segment** screen is displayed.

Figure 1-43 View Data Segment

For more information on fields, refer to the field description table.

Table 1-43 View Data Segment – Field Description

Field	Description
Datasegment Name	Displays the name of the datasegment.
Datasegment Code	Displays the code of the datasegment.

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Table 1-43 (Cont.) View Data Segment – Field Description

Field	Description
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

1.20 ECA System

Other accounting systems maintain the External Credit Approval (ECA) process. For example, in any implementation, the third party system can be configured as an ECA system. This would mean that any transaction originating from the third party system , will need to be routed to the Account Core system.

This topic contains the following subtopics:

- Create ECA System
  This topic describes the systematic instructions to configure ECA system details.
- View ECA System
  This topic describes the systematic instructions to view the list of configured ECA system.

1.20.1 Create ECA System

This topic describes the systematic instructions to configure ECA system details.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **ECA System**.
2. Under **ECA System**, click **Create ECA System**.

   The **Create ECA System** screen is displayed.

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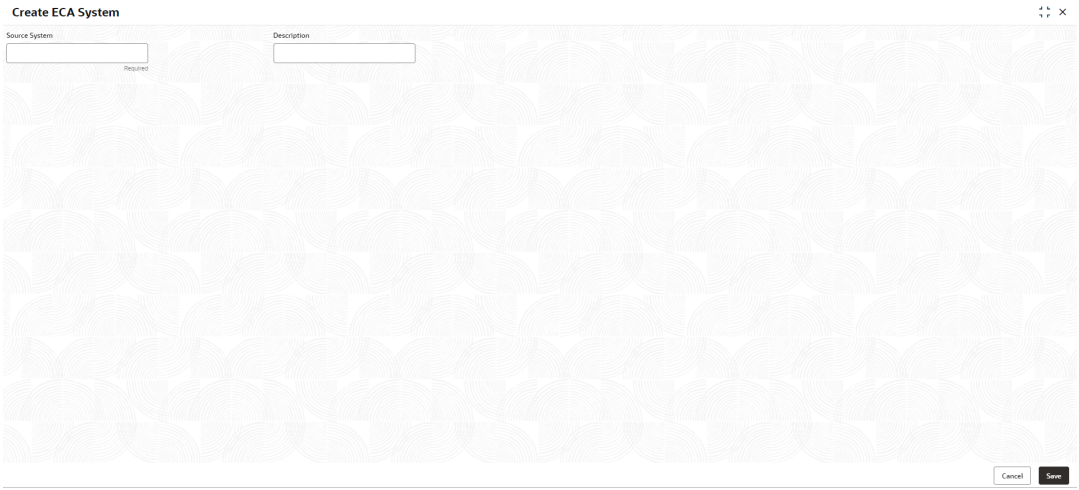
Figure 1-44 Create ECA System



3. Specify the fields on the **Create ECA System** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 1-44 Create ECA System – Field Description

Field	Description
Source System	Specify the external system being maintained. **Note**: ECA system with code as OBRACC should not to be created by the user.
Description	Specify a short description of the external system being maintained.

4. Perform one of the following action:
   - Click **Save** to save the details.
     The ECA system is successfully created and can be viewed using the View ECA System screen.
   - Click **Cancel** to discard the changes and close the screen.

1.20.2 View ECA System

This topic describes the systematic instructions to view the list of configured ECA system.

The user can configure ECA system using Create ECA System screen.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **ECA System**.
2. Under **ECA System**, click **View ECA System**.

   The **View ECA System** screen is displayed.

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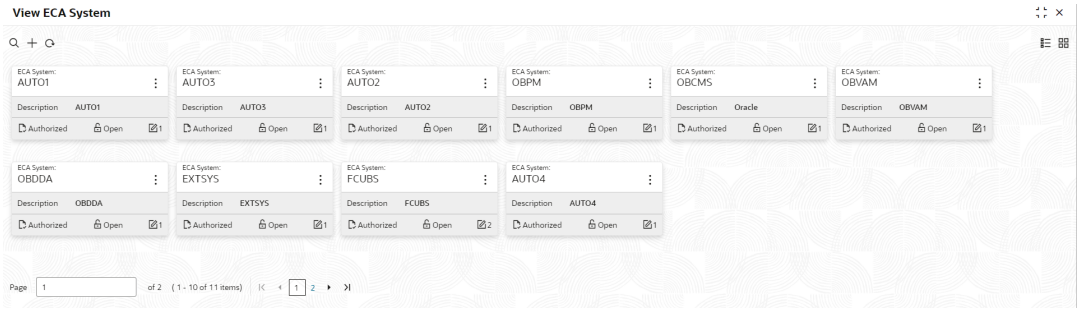
Figure 1-45 View ECA System



For more information on fields, refer to the field description table.

Table 1-45 View ECA System – Field Description

Field	Description
ECA System	Displays the external system being maintained.
Description	Displays a short description of the external system being maintained.
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

1.21 External Bank Parameters

This topic describes the information to configure bank level parameters.

This will gather essential data crucial for configuring specific parameters for each bank entity user establish. It will also facilitate the separation of accounts and/or branches as required.

This topic contains the following subtopics:

- Create External Bank Parameters
  This topic describes the systematic instructions to configure external bank parameters.
- View External Bank Parameters
  This topic describes the systematic instructions to view the list of configured external bank parameters.

1.21.1 Create External Bank Parameters

This topic describes the systematic instructions to configure external bank parameters.

The **Bank Code** is auto-created for an entity when the entity is created.

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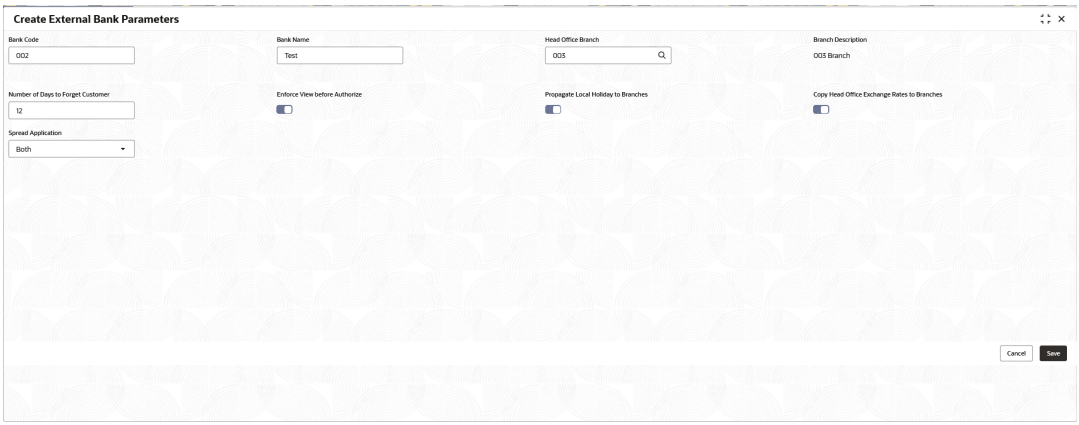
1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **External Bank Parameters**.
2. Under **External Bank Parameters**, click **Create External Bank Parameters**.

   The **Create External Bank Parameters** screen is displayed.

Figure 1-46 Create External Bank Parameters



3. Specify the fields on the **Create External Bank Parameters** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 1-46 Create External Bank Parameters – Field Description

Field	Description
Bank Code	Specify the three-digit bank code that uniquely identifies a specific bank within the system.
Bank Name	Specify the full name of the bank associated with the code provided.
Head Office Branch	Click this icon to view and select the required head office branch. This will represent a three-digit code indicating the primary location linked with the bank code.
Branch Description	Displays the branch description based on the selected **Head Office Branch**.
Number of Days to Forget Customer	Specify the number of days to inactive/forget the customer. This field determines the duration for which a customer's record will persist in the system after they close all their accounts with the bank. Once the specified number of days has elapsed, the customer's record will be deleted from the system.
Enforce View before Authorize	Click the toggle to enable this feature. If enabled, dual authorization will be enabled. An authorized user must review all modifications made to any common core parameter before they are approved within the system

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Table 1-46 (Cont.) Create External Bank Parameters – Field Description

Field	Description
Propagate Local Holiday to Branches	Click the toggle to enable this feature. If enabled, system verify whether **Default Local Holiday from HO** is selected and no local holiday is maintained in the branch and then propagate the local holidays to the branch. If disabled, the system does not default the local holidays to branches. Any amendments made at the HO branch will not be propagated to branches if the holiday calendar already exists at the branch level. After propagation, any changes to the holiday calendar must be made at the branch level. If a new branch is created after the local holiday is maintained at the HO, the holiday will not be propagated to the new branch, even if the **Default Local Holiday from HO** option is set to **Yes**. Holidays for that particular year must be maintained at the branch level
Copy Head Office Exchange Rates to Branches	Click the toggle to enable this feature. Implement the propagation of Head Office rates to non-adopting branches. If in the bank maintenance, if this is enabled, • Copy the exchange rates to those branches whose <Use HO rates> is No and that belongs to the same country code of the Head office for which the rates are maintained. • If the <Use HO Rates> option is changed from Yes to No, any new rate maintenance or updates made to the HO rates should be copied to the branch. To do this, reopen the existing maintenance and update it, or alternatively, insert a new record. • If the <Use HO Rates> is modified from No to Yes, the existing behaviour will apply, which involves closing all existing records. No further changes are required. If in the bank maintenance, <Copy exchange rate to branches> is No, it is the user's responsibility to maintain the exchange rate at the branches for those branches whose <Use HO rates> is No
Spread Application	The available options are: • **Single**- specifies only the transaction accounting entry will be applied with Buy / Sale Currency exchange rate. The other accounting entry will be applied with Mid rate only. • **Both**- specifies both the transaction accounting entry and the offset accounting entry will be applied with Buy / Sale Currency Exchange rates appropriately.

4. Perform one of the following action:
   - Click **Save** to save the details.
     The external bank parameters is successfully created and can be viewed using the View External Bank Parameters screen.
   - Click **Cancel** to discard the changes and close the screen.

1.21.2 View External Bank Parameters

This topic describes the systematic instructions to view the list of configured external bank parameters.

The user can configure external bank parameters using Create External Bank Parameters screen.

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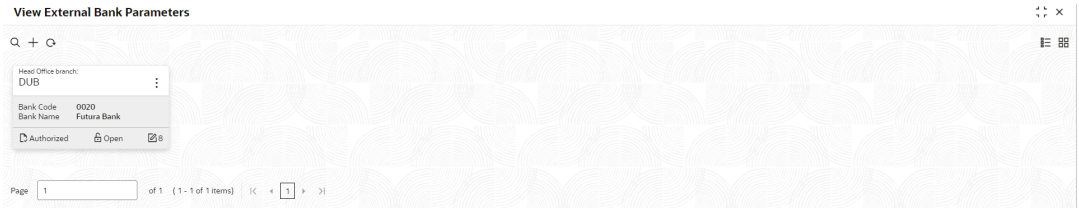
1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **External Bank Parameters**.
2. Under **External Bank Parameters**, click **View External Bank Parameters**.

   The **View External Bank Parameters** screen is displayed.

Figure 1-47 View External Bank Parameters



For more information on fields, refer to the field description table.

Table 1-47 View External Bank Parameters – Field Description

Field	Description
Head Office Branch	Displays the head office branch details.
Maker	Displays the name of the user who has configured the bank details.
Once Authorized	Indicates if the record is authorized once or not.
Bank Code	Displays the code of the bank.
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

1.22 External Branch Parameters

This topics describes the information to configure branch level parameters.

This topic contains the following subtopics:

- Create External Branch Parameters
  This topic describes the systematic instructions to configure the external branch parameters.
- View External Branch Parameters
  This topic describes the systematic instructions to view the list of configured external bank parameters.

1.22.1 Create External Branch Parameters

This topic describes the systematic instructions to configure the external branch parameters.

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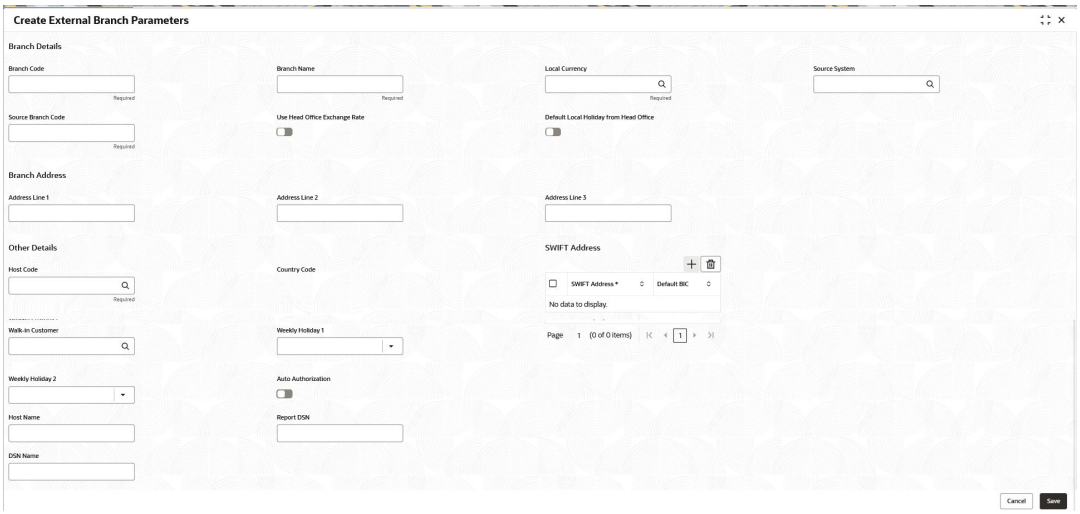
1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **External Branch Parameters**.
2. Under **External Branch Parameters**, click **Create External Branch Parameters**.

   The **Create External Branch Parameters** screen is displayed.

Figure 1-48 Create External Branch Parameters



3. Specify the fields on the **Create External Branch Parameters** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 1-48 Create External Branch Parameters – Field Description

Field	Description
Branch Code	Specify a branch code.
Branch Name	Specify a name for the branch.
Local Currency	Click this icon to view and select the required local currency.
Source System	Click this icon to view and select the required source system.
Source Branch Code	Specify a source branch code.

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Table 1-48 (Cont.) Create External Branch Parameters – Field Description

Field	Description
Use Head Office Exchange Rate	Click the toggle to enable this feature. If enabled for a branch, then the exchange rates maintained at Head office is considered for the transactions. If disabled, for a branch, then the exchange rates maintained at the branch is considered for the transactions. Modify **Use Head Office Exchange Rates** from **No** to **Yes**: The Status of all the existing currency exchange rate records will be updated to **Closed** and **Auto authorized**. Message will be shown to the user stating, **Existing records will be closed** Modify **Use Head Office Exchange Rates** from **Yes** to **No**: A message will prompt the user to maintain the required currency exchange rates.
Default Local Holiday from Head Office	Click the toggle to enable this feature. If enabled, the local holidays are defaulted from head office. If disabled, the holidays need to be maintained at the branches.
Address Line 1-3	Specify the address details.
Host Code	Click this icon and select the required host code.
Country Code	Displays the country code based on the selected **Host Code**.
Walk-in Customer	Click this icon to view and select the required walk-in customer.
Weekly Holiday 1-2	Select a weekly holiday from the drop-down list. **Note:** There are two days of weekly holiday depending on the geographical zone.
Auto Authorization	By default, it is disabled. If selected, the record is automatically authorized.
Host Name	Specify the name for the host.
Report DSN	Specify the details of the report DSN.
DSN Name	Specify the DSN name.
SWIFT Address	Click this icon and select the required SWIFT address.
Default BIC	If selected, indicates the selected SWIFT address as the default BIC.

4. Perform one of the following action:
   - Click **Save** to save the details.
     The external branch parameters is successfully created and can be viewed using the View External Branch Parameters screen.
   - Click **Cancel** to discard the changes and close the screen.

1.22.2 View External Branch Parameters

This topic describes the systematic instructions to view the list of configured external bank parameters.

The user can configure external branch parameters using Create External Branch Parameters screen.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **External Branch Parameters**.

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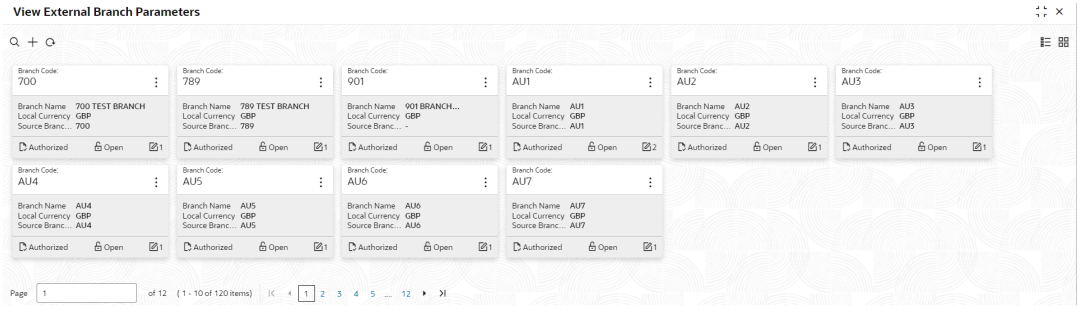
2. Under **External Branch Parameters**, click **View External Branch Parameters**.

   The **View External Branch Parameters** screen is displayed.

Figure 1-49 View External Branch Parameters



For more information on fields, refer to the field description table.

Table 1-49 View External Branch Parameters – Field Description

Field	Description
Branch Code	Displays the code of the bank.
Branch Name	Displays the name of the bank.
Local Currency	Displays the local currency details.
Source Branch Code	Displays the code of the source branch.
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

> **Note**
>
> The Branch Parameters for the Head Office (HO) Branch of the entity gets auto-created when the entity is defined in the Multi-Entity Maintenance. Further changes/configuration of the HO Branch can be performed by modifying the record for the HO Branch's Parameters.

1.23 External Chart of Accounts

This topic describes the information to configure an external chart of accounts.

External Chart of accounts is a system that is used for maintaining General Ledgers (GL). It also processes accounting transactions from other product processors and processes each

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transactions by validating inter-branch transactions and unbalanced transaction. It can be integrated with enterprise GL system and handoff the processed transactions.

This topic contains the following subtopics:

- Create External Chart of Accounts
  This topic describes the systematic instructions to create and maintain external chart of accounts.
- View External Chart of Accounts
  This topic describes the systematic instructions to view the list of configured external chart of accounts.

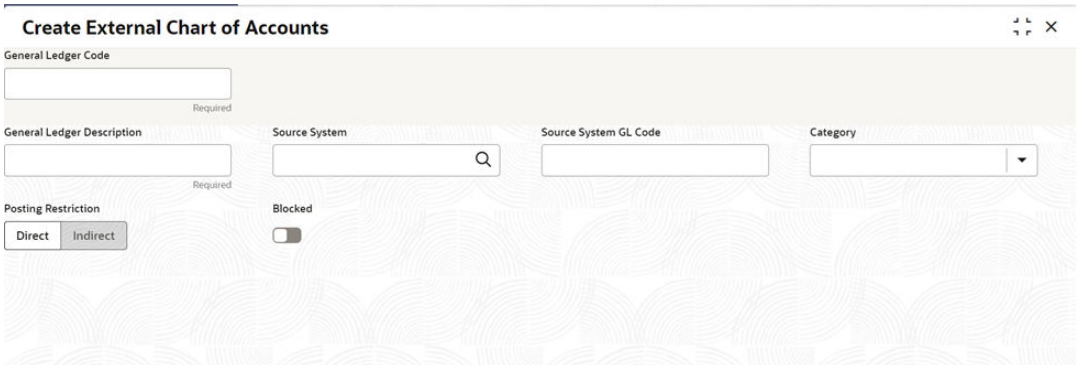
1.23.1 Create External Chart of Accounts

This topic describes the systematic instructions to create and maintain external chart of accounts.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **External Chart of Accounts**.
2. Under **External Chart of Accounts**, click **Create External Chart of Accounts**.

   The **Create External Chart of Accounts** screen displays.

Figure 1-50 Create External Chart of Accounts



3. Specify the fields on the **Create External Chart of Accounts** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 1-50 Create External Chart of Accounts – Field Description

Field	Description
General Ledger Code	This is General Ledger Account number used to transfer the funds between accounts. This Account is mapped with multiple debit/credit transactions.
General Ledger Description	Specify the description of General Ledger Code.

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Table 1-50 (Cont.) Create External Chart of Accounts – Field Description

Field	Description
Source System	This field denotes source system to which the GL code belongs. The Source System for which GL code associated.
Source System GL Code	Specify GL code of source system.
Category	Select the category from the drop-down list.
Posting Restriction	This field is used to denote that corresponding GL's posting restriction is direct or indirect. By default, value is set to **Direct**.
Blocked	By default, this is disabled. If selected, indicates the external chart of account is blocked. By default, this is disabled.

4. Perform one of the following action:
   - Click **Save** to save the details.
     The external chart of account is successfully created and can be viewed using the View External Chart of Accounts screen.
   - Click **Cancel** to discard the changes and close the screen.

1.23.2 View External Chart of Accounts

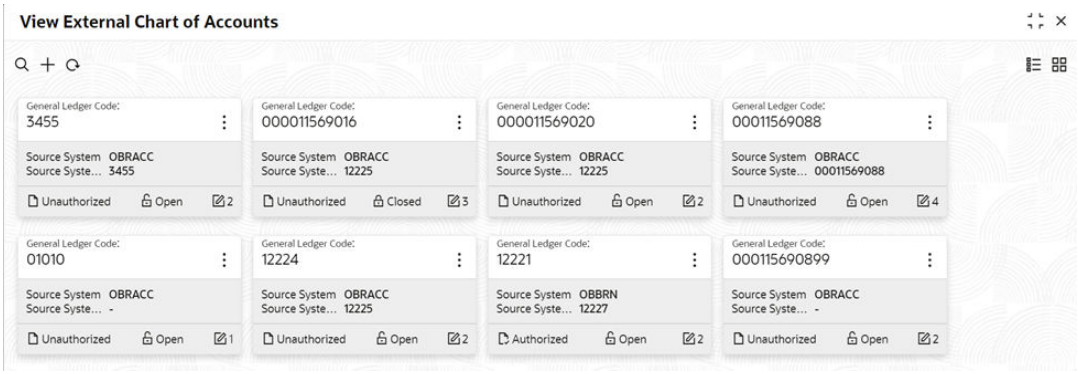
This topic describes the systematic instructions to view the list of configured external chart of accounts.

The user can configure external chart of accounts using Create External Chart of Accounts screen.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **External Chart of Accounts**.
2. Under **External Chart of Accounts**, click **View External Chart of Accounts**.

   The **View External Chart of Accounts** screen is displayed.

Figure 1-51 View External Chart of Accounts



For more information on fields, refer to the field description table.

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Table 1-51 View External Chart of Accounts – Field Description

Field	Description
General Ledger Code	This field denotes the GL Code. This is GL accounts used to transfer the funds between accounts. This account is mapped with multiple debit/ credit transactions
Source System	This field denotes the system to which GL Code belongs. For example - FCUBS etc.
Source System GL Code	This field denotes the GL code of the source system.
Authorization Status	This field denotes authorization status of the GL Code. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	This field denotes the record status of the GL Code. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

1.24 External Customer

The **External Customer** feature enables the creation and viewing of customer information in a centralized location within the **Oracle Banking Microservices Architecture** framework. This repository stores vital customer details such as **CIF ID**, **Customer Name**, other essential information, ensuring quick reference, and easy access to pertinent data. This data will usually be populated through interfacing with third party application and additionally, bank users can create customer data with minimum attributes.

This topic contains the following subtopics:

- Create External Customer
  This topic describes the systematic instructions to create a customer using external customer.
- View External Customer
  This topic describes the systematic instructions to view the list of configured external customer details.

1.24.1 Create External Customer

This topic describes the systematic instructions to create a customer using external customer.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **External Customer**.
2. Under **External Customer**, click **Create External Customer**.

   The **Create External Customer** screen is displayed.

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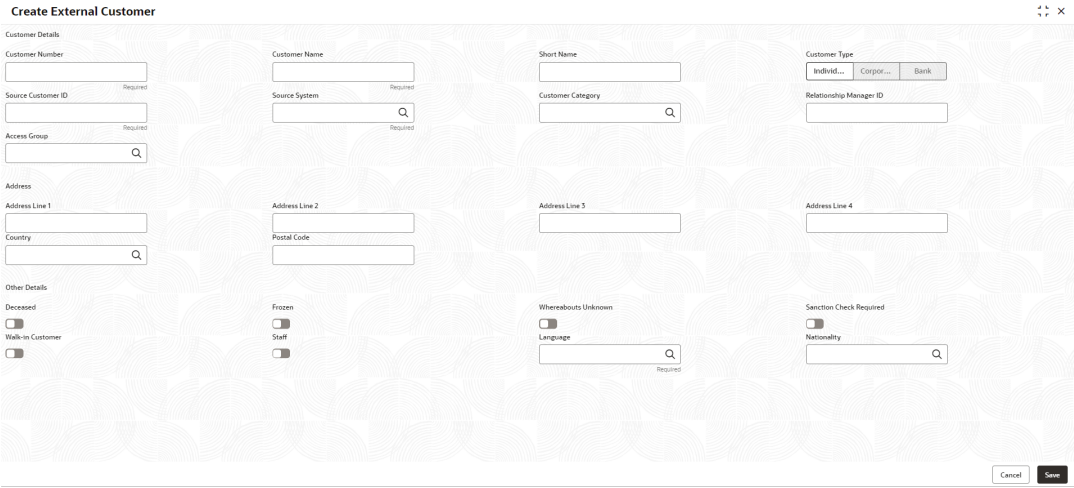
Figure 1-52 Create External Customer



3. Specify the fields on the **Create External Customer** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 1-52 Create External Customer – Field Description

Field	Description
Customer Number	Each customer in the system is assigned a unique identifier, the **Customer Number** or **CIF ID**, for managing customer records. It facilitates efficient retrieval and identification of customer information. This facilitates streamlined processes such as account opening, transactions, and customer support and so on.
Customer Name	This field represents the name of the individual or entity associated with the customer record. It typically includes the first name, middle name (if applicable), and last name of an individual, or the full name of an organization. Customers are identified and distinguished within the system using this field.
Short Name	The customer or entity name is represented in a shortened form in this field. Customers or entities can be quickly identified in systems or communications through the use of initials, acronyms, or truncated versions of full names, as preferred by the user.
Customer Type	This field is to categorize customers into groups (individuals, corporates, bank) based on specific criteria. This aids in understanding needs and tailoring products and services accordingly.
Source Customer ID	The original system assigns a unique **Source Customer ID** to each source, which enables tracking across systems and is crucial for integration and ensuring consistency across platforms.
Source System	This field indicates where a customer record originated, aiding in tracking, and managing data across systems. Valuable for integration, migration, and interoperability between systems. Click **Search** icon to view and select the required source system.

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Table 1-52 (Cont.) Create External Customer – Field Description

Field	Description
Customer Category	This field categorizes customers based on specific criteria to organize records and understand the customer base. Categories (e.g., retail, corporate, high-net-worth, SMEs) help customize offerings to meet unique needs. Click **Search** icon to view and select the required customer category.
Relationship Manager ID	This field refers to a unique identifier assigned to a relationship manager within the system. This identifier helps in efficiently tracking and managing customer relationships.
Address Line 1	This field captures the primary address information of the customer or entity. It typically includes the street address, apartment number, suite, or any other pertinent details necessary to locate the physical location.
Address Line 2	This field provides supplementary address information, such as building name, floor, unit number, or additional details that further specify the location indicated in address line 1.
Address Line 3	This field serves as an additional space for capturing further details related to the customer's address, such as landmark, additional delivery instructions, or any other relevant information that helps to accurately identify the location.
Address Line 4	This field offers an extra space for recording additional details related to the customer's address. This could include specific instructions for delivery, reference points, or any other pertinent information that further clarifies the location provided in the previous address lines.
Country	This field holds a standardized code representing the country linked to the address, following international standards like ISO 3166-1. It ensures consistent identification across systems, aiding in data validation and international communication. Click **Search** icon to view and select the required country. **Note**: For more details about country code configuration refer to the Country Code section.
Postal Code	This field captures the numerical or alphanumeric code assigned to a specific geographic area for the efficient mail delivery. It helps in identifying the precise location of the address and facilitates accurate sorting and routing of mail and packages.
Deceased	This flag indicates if a customer is deceased. When enabled, it signals the individual's passing. This flag is used to mark records as inactive and prompt actions like ceasing communications or updating account statuses, following organizational. This flag is disabled By default.
Frozen	This flag indicates that the customer account or record has been suspended or restricted, preventing certain actions or transactions from being performed. By default, this is disabled.
Whereabouts Unknown	This flag indicates that the current location or whereabouts of the customer is uncertain or not known. By default, this is disabled.
Sanction Check Required	This flag indicates that further checks or due diligence are necessary to ensure compliance with sanctions regulations or other legal requirements regarding the customer. By default, this is disabled.
Walk-in Customer	This flag identifies customers who arrive at a physical location without a prior appointment or arrangement. By default, this is disabled.
Staff	This flag indicates whether the customer is an employee or staff member of the organization. By default, this is disabled.

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Table 1-52 (Cont.) Create External Customer – Field Description

Field	Description
Language	This field specifies the preferred language of a communication for the customer. It indicates the language in which the organization should communicate with the customer. Click **Search** icon to view and select the required language. **Note:** For more details about language code configuration refer to the Language Code section.
Nationality	This field indicates the country of citizenship or nationality of the customer. It specifies the country to which the customer belongs or is affiliated with in terms of citizenship. Click **Search** icon to view and select the required nationality.

4. Perform one of the following action:
   - Click **Save** to save the details.
     The external customer is successfully created and can be viewed using the View External Customer screen. In addition, the external customers can be directly replicated from the host system using service API.
   - Click **Cancel** to discard the changes and close the screen.

1.24.2 View External Customer

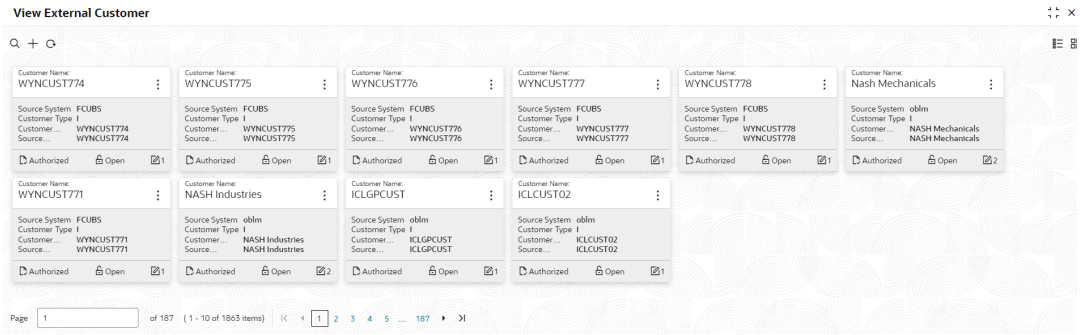
This topic describes the systematic instructions to view the list of configured external customer details.

The user can configure external customer using Create External Customer screen.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **External Customer**.
2. Under **External Customer**, click **View External Customer**.

   The **View External Customer** screen is displayed.

Figure 1-53 View External Customer



For more information on fields, refer to the field description table.

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Table 1-53 View External Customer – Field Description

Field	Description
Customer Name	This field represents the name of the individual or entity associated with the customer record. It typically includes the first name, middle name (if applicable), and last name of an individual, or the full name of an organization. Customers are identified and distinguished within the system using this field.
Source System	The customer record's origin is indicated by the **Source System** field, facilitating tracking and management of data across systems. The **Source System** is valuable for integration, migration, and interoperability between platforms. Click **Search** icon to view and select it.
Customer Type	Customers are categorized into groups based on specific criteria in the **Customer Type** field. This aids in understanding needs and tailoring products and services accordingly. Types include individuals, corporates and bank.
Customer Number	Each customer in the system is assigned a unique identifier, called the **Customer Number** or **CIF ID**. This reference helps manage customer records efficiently, allowing for easy retrieval and identification of customer information. This facilitates streamlined processes such as account opening, transactions, and customer support.
Source Customer ID	The original system assigns a unique **Customer ID** to each source record, which facilitates tracking across databases and ensures consistency during data integration.
Authorization Status	This field denotes the status of authorization or approval for a certain action or process related to the customer's account or record. It indicates whether the customer has been granted authorization to proceed with a particular request, transaction, or activity within the organization's system. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	This field indicates the status of the customer record within the system. It provides information on whether the record is **Open** or **Closed** in its life cycle.
Modification Number	The system updates or modifies a record each time the **Modification Number** field is changed, reflecting the number of occurrences. This increases each time a modification is made to the record, serving as a sequential identifier. Users can track and audit changes to the record in this system, ensuring data integrity and version control by monitoring modifications over time.

Click icon to search for a customer in external customer and input search parameters.

Click to perform the following actions:

- **Copy** - Copy selected record to create a new record with the same values.

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- **Unlock** – Unlock to modify the external customer details. Once you unlocked, the record will be available for modification and authorization for the authorized user.
- **Close** - Close the record status.
- **View** - View external customer details.

1.25 External Customer Account

This topic helps to configure the external customer account details.

This topic contains the following subtopics:

- Create External Customer Account
  This topic describes the systematic instructions to configure external customer account details.
- View External Customer Account
  This topic describes the systematic instructions to view the list of configured external customer accounts.

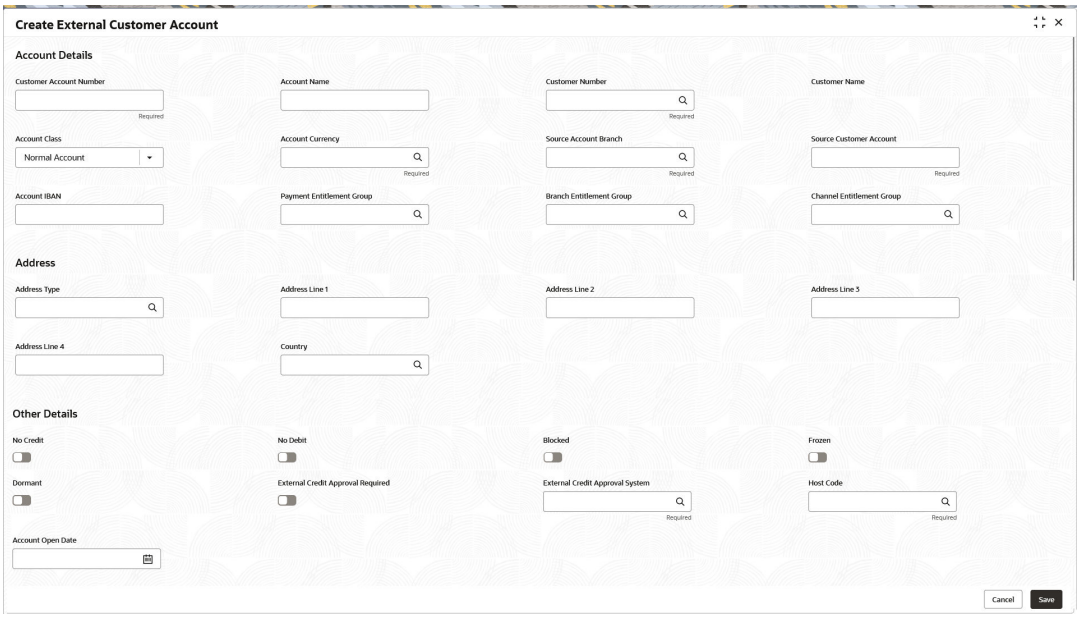
1.25.1 Create External Customer Account

This topic describes the systematic instructions to configure external customer account details.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **External Customer Account**.
2. Under **External Customer Account**, click **Create External Customer Account**.

   The **Create External Customer Account** screen is displayed.

Figure 1-54 Create External Customer Account



3. Specify the fields on the **Create External Customer Account** screen.

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> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 1-54 Create External Customer Account – Field Description

Field	Description
Customer Account Number	Specify the customer account number.
Account Name	Specify the name for an account.
Customer Number	Click **Search** icon to view and select the required customer number.
Customer Name	Displays the customer name based on the selected **Customer Number** .
Account Class	Select the account class from the drop-down list.
Account Currency	Click **Search** icon to view and select the required account currency.
Source Account Branch	Click **Search** icon to view and select the required source account branch.
Source Customer Account	Displays the source customer account based on the selected **Source Account Branch**.
Account IBAN	Specify the account IBAN details.
Payment Entitlement Group	Click **Search** and select the payment entitlement group for the customer account.
Branch Entitlement Group	Click **Search** and select the branch entitlement group for the customer account.
Channel Entitlement Group	Click **Search** and select the channel entitlement group for the customer account.
Address Type	Click the **Search** icon to view and choose the address type associated with the customer account.
Address Line 1-4	Specify the address details.
Country	Click **Search** icon to view and select the required country.
No Credit	By default, this is disabled. If selected, indicates the account does not have any credit facility.
No Debit	By default, this is disabled. If selected, indicates the account does not have any debit facility.
Blocked	By default, this is disabled. If selected, indicates the account status is blocked.
Frozen	By default, this is disabled. If selected, indicates the account status is frozen.
Dormant	By default, this is disabled. If selected, indicates the account status is dormant.
External Credit Approval Required	By default, this is disabled. If selected, indicates ECA check is required for the external customer account.
External Credit Approval System	Click **Search** icon to view and select the required external credit approval system.
Host Code	Click **Search** icon to view and select the required host code.

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Table 1-54 (Cont.) Create External Customer Account – Field Description

Field	Description
Account Open Date	Select an effective date for the account from the drop-down calendar.

4. Perform one of the following action:
   - Click **Save** to save the details.
     The external customer account is successfully created and can be viewed using the View External Customer Account screen. In addition, the external customers can be directly replicated from the host system using service API.
   - Click **Cancel** to discard the changes and close the screen.

1.25.2 View External Customer Account

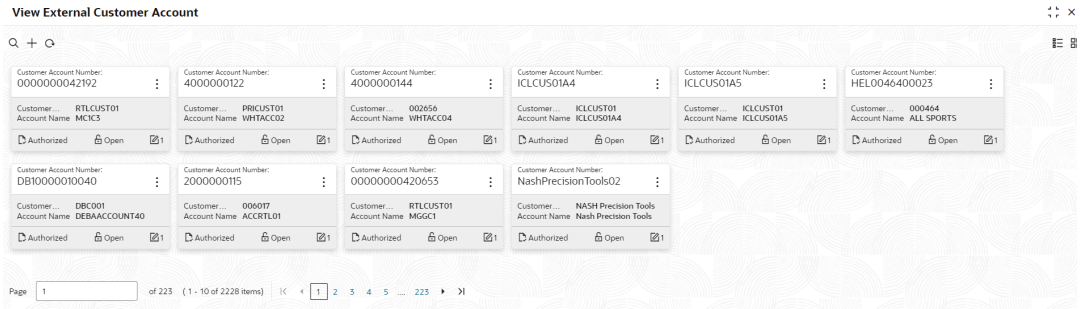
This topic describes the systematic instructions to view the list of configured external customer accounts.

The user can configure external customer account using Create External Customer Account screen.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **External Customer Account**.
2. Under **External Customer Account**, click **View External Customer Account**.

   The **View External Customer Account** screen is displayed.

Figure 1-55 View External Customer Account



For more information on fields, refer to the field description table.

Table 1-55 View External Customer Account – Field Description

Field	Description
Customer Account Number	Displays the customer account number associated with the account name.
Customer Number	Displays the customer number associated with the account name.

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Table 1-55 (Cont.) View External Customer Account – Field Description

Field	Description
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

1.26 External Customer Account Structured Address

This topic describes the information to configure the external customer account structured address details.

This topic contains the following subtopics:

- Create External Customer Account Structured Address
  This topic describes the systematic instructions to configure external customer account structured address.
- View External Customer Account Structured Address
  This topic describes the systematic instructions to view the list of configured external customer account structured addresses.

1.26.1 Create External Customer Account Structured Address

This topic describes the systematic instructions to configure external customer account structured address.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **External Customer Account Structured Address**.
2. Under **External Customer Account Structured Address**, click **Create External Customer Account Structured Address**.

   The **Create External Customer Account Structured Address** screen is displayed.

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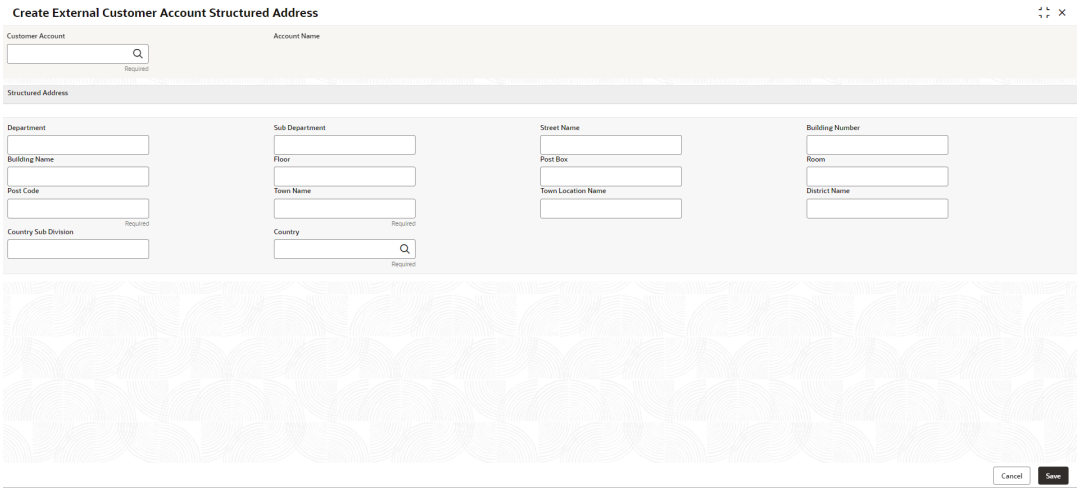
Figure 1-56 Create External Customer Account Structured Address



3. Specify the fields on the **Create External Customer Account Structured Address** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 1-56 Create External Customer Account Structured Address – Field Description

Field	Description
Customer Account	Click **Search** icon to view and select the required customer account.
Account Name	Displays the Account Name, Based on the **Customer Account** is selected.
Department	Specify the department.
Sub Department	Search and select the required country.
Street Name	Specify the street name.
Building Number	Specify the building number.
Building Name	Specify the building name.
Floor	Specify the floor.
Post Box	Specify the post box details.
Room	Specify the room number.
Post Code	Specify the post code.
Town Name	Specify the town name.
Town Location Name	Specify the town location name.
District Name	Specify the district name.
Country Sub Division	Specify the country sub division.
Country	Click **Search** icon to view and select the required country name.

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4. Perform one of the following action:
   - Click **Save** to save the details.
     The external customer account structured address is successfully created and can be viewed using the View External Customer Account Structured Address screen.
   - Click **Cancel** to discard the changes and close the screen.

1.26.2 View External Customer Account Structured Address

This topic describes the systematic instructions to view the list of configured external customer account structured addresses.

The user can configure external customer account structured address account using Create External Customer Account Structured Address screen.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **External Customer Account Structured Address**.
2. Under **External Customer Account Structured Address**, click **View External Customer Account Structured Address**.

   The **View External Customer Account Structured Address** screen is displayed.

Figure 1-57 View External Customer Account Structured Address

For more information on fields, refer to the field description table.

Table 1-57 View External Customer Account Structured Address – Field Description

Field	Description
Customer Number	Displays the customer number.
Town Name	Displays the town name of the customer.
Country	Displays the country of the customer.
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

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1.27 External Virtual Account Structured Address

This topic describes the information to configure the external virtual account structured address details.

This topic contains the following subtopics:

- View External Virtual Account Structured Address
  This topic describes the systematic instructions to view the list of configured virtual account structured addresses.

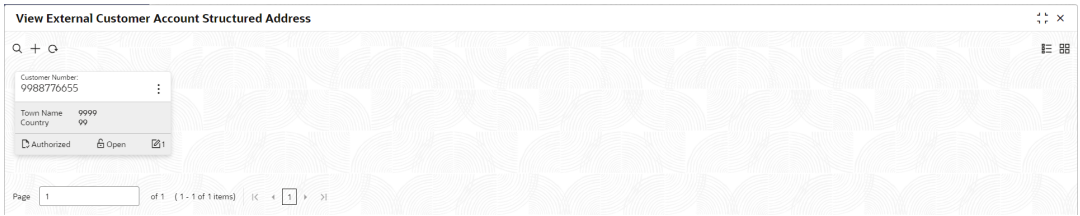
1.27.1 View External Virtual Account Structured Address

This topic describes the systematic instructions to view the list of configured virtual account structured addresses.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **External Virtual Account Structured Address**.
2. Under **External Virtual Account Structured Address**, click **View External Virtual Account Structured Address**.

   The **View External Virtual Account Structured Address** screen is displayed.

Figure 1-58 View External Virtual Account Structured Address



For more information on fields, refer to the field description table.

Table 1-58 View External Virtual Account Structured Address – Field Description

Field	Description
Customer Number	Displays the customer number.
Town Name	Displays the town name of the customer.
Country	Displays the country name of the customer.
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

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The user can click on the specific tile to view the structured address details.

1.28 Forget Process

This topic describes the information to configure a customer detail who wants to be forgotten using forget process.

The Personally identifiable information (PII) is any data that could potentially identify a specific individual. PII data access can be controlled based on the user role and you can configure details of a customer who wants to be forgotten if the customer withdraws/does not avail the virtual account facility.

This topic contains the following subtopics:

- Forget Customer
  This topic describes the systematic instructions to configure a customer to be forgotten.
- View Forgotten Customer
  This topic describes the systematic instructions to view the list of the customers to be forgetten.

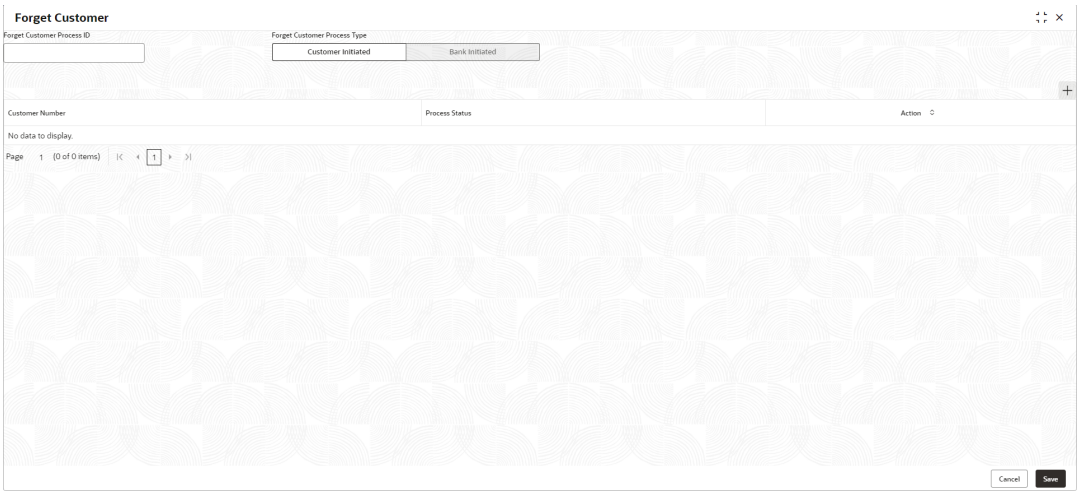
1.28.1 Forget Customer

This topic describes the systematic instructions to configure a customer to be forgotten.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Forget Process**.
2. Under **Forget Process**, click **Forget Customer**.

   The **Forget Customer** screen is displayed.

Figure 1-59 Forget Customer



3. Specify the fields on the **Forget Customer** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

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For more information on fields, refer to the field description table.

Table 1-59 Forget Customer – Field Description

Field	Description
Forget Customer Process ID	Specify a forget customer process ID.
Forget Customer Process Type	Select one of the options: • **Customer Initiated**: If selected, indicates the customer has initiated the process. • **Bank Initiated**: If selected, indicates the bank has initiated the process.
Customer Number	Click **Search** icon to view and select the customer number.
Process Status	Displays the process status.

4. Click **+** to specify the customer/bank details.
5. Perform one of the following action:
   - Click **Save** to save the details.
     The forget customer is successfully done and can be viewed using the View Forgotten Customer screen.
   - Click **Cancel** to discard the changes and close the screen.

1.28.2 View Forgotten Customer

This topic describes the systematic instructions to view the list of the customers to be forgetten.

The user can configure a customer detail who wants to be forgotten using the Forget Customer.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Forget Process**.
2. Under **Forget Process**, click **View Forgotten Customer**.

   The **View Forgotten Customer** screen is displayed.

Figure 1-60 View Forgotten Customer

For more information on fields, refer to the field description table.

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Table 1-60 View Forgotten Customer – Field Description

Field	Description
Process Type	Indicates if the process is initiated by the customer/bank
Process ID	Displays the forgotten customer process ID.
Maker	Displays the name of the user who has configured the forgotten customer details.
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

1.29 Host Code

This topic describes the information to configure the host code.

The user can group branches in the same zone or region under a host for specific processing. The relevant host code is tagged to the accounts so that the system knows which host system to call to post or update any information related to any transaction The user can have multiple hosts depending on processing requirements.

This topic contains the following subtopics:

- Create Host Code
  This topic describes the systematic instructions to configure host code.
- View Host Code
  This topic describes the systematic instructions to view the list of configured host codes.

1.29.1 Create Host Code

This topic describes the systematic instructions to configure host code.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Host Code**.
2. Under **Host Code**, click **Create Host Code**.

   The **Create Host Code** screen is displayed.

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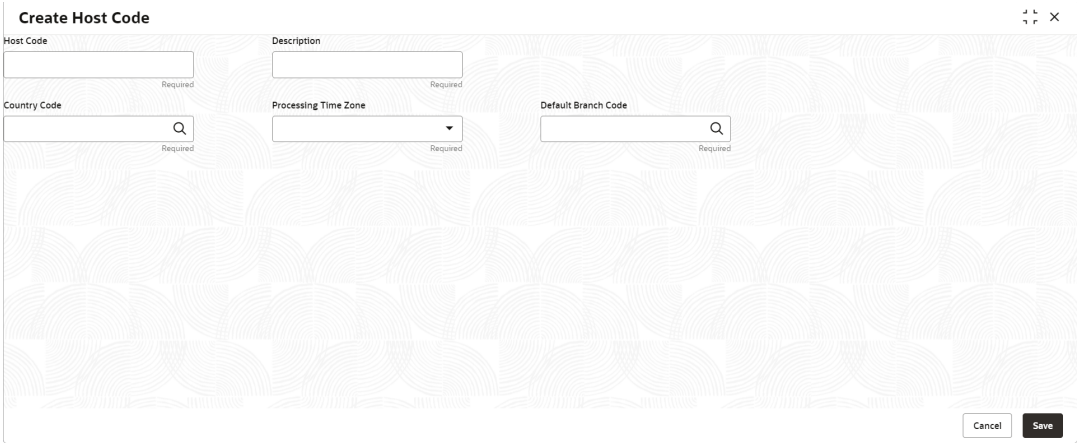
Figure 1-61 Create Host Code



3. Specify the fields on the **Create Host Code** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 1-61 Create Host Code – Field Description

Field	Description
Host Code	Specify the host code details.
Description	Specify the additional information about the host code.
Country Code	Click **Search** icon to view and select the required country code.
Processing Time Zone	Select the time zone from the drop-down list. The available options are: • **Alaska Time (AST)** • **Central Time (CT)** • **Eastern Time (ET)** • **Hawaii-Aleutian Time (HAT)** • **Mountain Time (MT)** • **Pacific Time (PT)** • **Canada/Eastern (EST)** • **Asia/Chongqing (CST)** • **Europe/Zagreb (CET)** • **Asia/Kolkata (IST)** • **Europe/Helsinki (EET)** • **US/Eastern**
Default Branch Code	Click **Search** icon to view and select the required default branch code.

4. Perform one of the following action:
   - Click **Save** to save the details.
     The host code is successfully created and can be viewed using the View Host Code screen.

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- Click **Cancel** to discard the changes and close the screen.

1.29.2 View Host Code

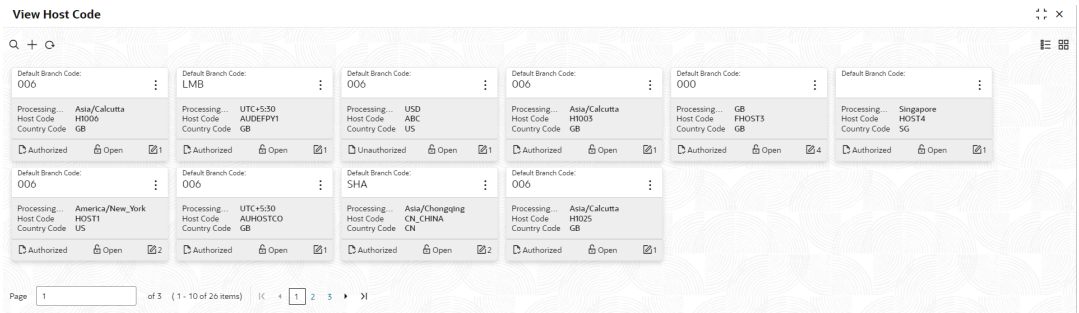
This topic describes the systematic instructions to view the list of configured host codes.

The user can configure host code using Create Host Code screen.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Host Code**.
2. Under **Host Code**, click **View Host Code**.

   The **View Host Code** screen is displayed.

Figure 1-62 View Host Code



For more information on fields, refer to the field description table.

Table 1-62 View Host Code – Field Description

Field	Description
Default Branch Code	Displays the default branch code associated with the host code.
Processing Time Zone	Displays the processing time zone.
Host Code	Displays the host code details.
Country Code	Displays the country code details.
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

1.30 Interest Rate

This topic describes the information to configure a Interest Rate.

When banks or financial institutions want to define rates that are common across multiple loans, such rates are referred to as Base rates

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A base interest rate can be applied to a loan with or without spread to derive the final rate.

The Interest Rate Type maintained and further used in Product can be one of the following:

- Fixed
- Floating
- Create Interest Rate
  This topic describes the systematic instructions to configure a interest rate.
- View Interest Rate
  This topic describes the systematic instructions to view the list of configured Interest Rate Maintenance.

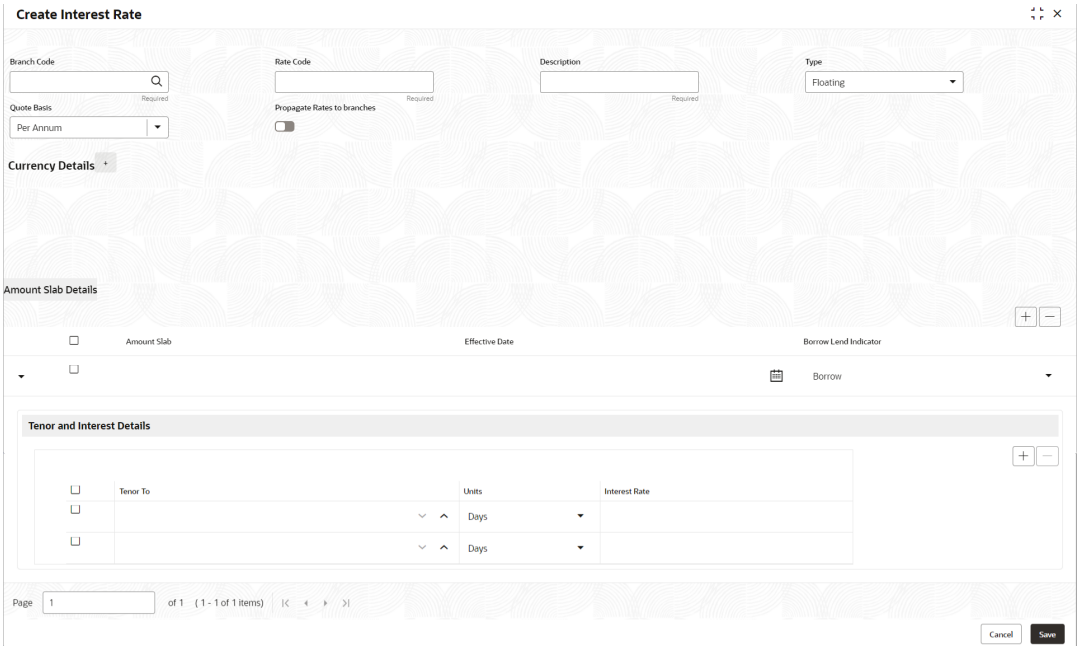
1.30.1 Create Interest Rate

This topic describes the systematic instructions to configure a interest rate.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Interest Rate Maintenance**.
2. Under **Interest Rate Maintenance**, click **Create Interest Rate**.

   The **Create Interest Rate** screen is displayed.

Figure 1-63 Create Interest Rate



3. Specify the fields on the **Create Interest Rate** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

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Table 1-63 Create Interest Rate – Field Description

Field	Description
Branch Code	Click the **Search** icon to view and select the branch from the list. The list displays all the branch code maintained in the system.
Rate Code	Specify the rate code for the selected branch.
Description	Specify the description of the rate code.
Type	Select the rate type from the drop-down list. The available options are : • **Fixed** • **Floating**
Quote Basis	Select the quote basis for the rate from the drop-down list. The available options are : • **Per Annum** • **Exponential-252** • **Exponential-365** • **Linear-360**
Propagate Rates to branches	Click the toggle status to enable the propagate rates across all the branches of the bank. **Note:** When the rate code is modified at the **Head Office Branch** a corresponding rate code record will be created and replicated to all the branches.
Currency Details	Click **+** icon and popup screen appears to add the associates currencies to the rate code.
Currency Code	Click the **Search** icon to view and select the currency from the list.
Description	Displays the description of the selected currency code.

4. Perform the following actions for Amount Slab Details:
   a. Click **+** button to add the new row to amount slab.

Table 1-64 Amount Slab Details - Field Description

Field Name	Description
Amount Slab	Specify the amount for the rate code.
Effective Date	Select the date from when the rate needs to be effective for the amount slab. **Note:** The effective date will be applicable until the new effective date Is provided for the rate.
Borrow Lend Indicator	Select the borrow lend indicator of the rate from the drop-down list. The available options are: • **Borrow** - The rate is applied for deposits taken by the bank • **Lend**- The rate is applied for loans given to Customers.

   b. Select the rows and click **-** button to delete the rows added for amount slab.
5. Perform the following actions for Tenor and Interest Details:
   a. Click **+** button to add the new row to tenor and interest details.

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Table 1-65 Tenor and Interest Details - Field Description

Field Name	Description
Tenor To	Specify the tenor upto which the interest rate needs to be effective.
Units	Select the units for the tenor slab from the drop-down list. The available options are: • **Days** • **Weeks** • **Months** • **Years**
Interest Rate	Specify the interest rate of the rate code for the tenor.

b. Select the rows and click **-** button to delete the rows added for tenor and interest details.

6. Perform one of the following action:
   - Click **Save** to save the details.
     The Interest Rate Maintenance is successfully created and can be viewed using the View Interest Rate screen.
   - Click **Cancel** to discard the changes and close the screen.

1.30.2 View Interest Rate

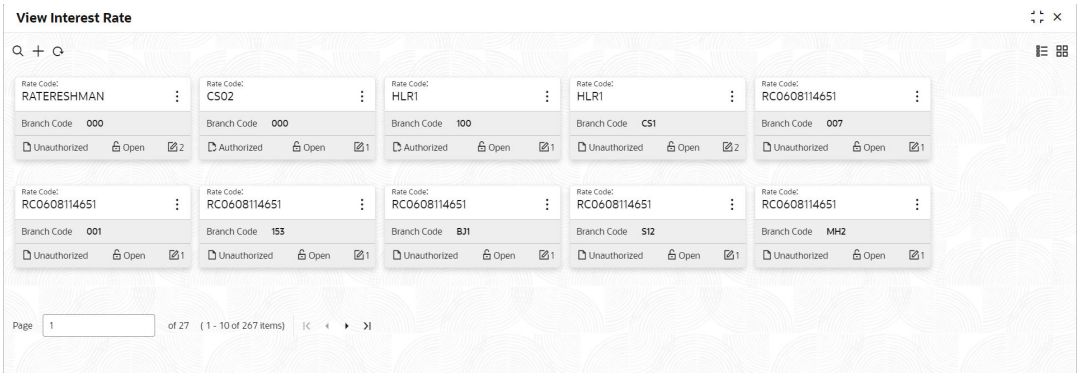
This topic describes the systematic instructions to view the list of configured Interest Rate Maintenance.

The user can configure Interest Rate using **Create Interest Rate** screen.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Interest Rate Maintenance**.
2. Under **Interest Rate Maintenance**, click **View Interest Rate**.

   The **View Interest Rate** screen is displayed.

Figure 1-64 View Interest Rate



For more information on fields, refer to the field description table.

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Table 1-66 View Interest Rate – Field Description

Field	Description
Rate Code	Displays the rate code.
Branch Code	Displays the branch code.
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

1.31 Language Code

This topic describes the information to configure a language code.

Language maintenance ensures communication is conducted in the specified language. If **English** is selected, then all verbal equivalents of transaction amounts for financial transactions must be maintained in **English**, and the recitals for the transactions (as printed in statements) must also be maintained in **English**.

This topic contains the following subtopics:

- Create Language Code
  This topic describes the systematic instructions to configure a language code.
- View Language Code
  This topic describes the systematic instructions to view the list of configured host codes.

1.31.1 Create Language Code

This topic describes the systematic instructions to configure a language code.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Language Code**.
2. Under **Language Code**, click **Create Language Code**.

   The **Create Language Code** screen is displayed.

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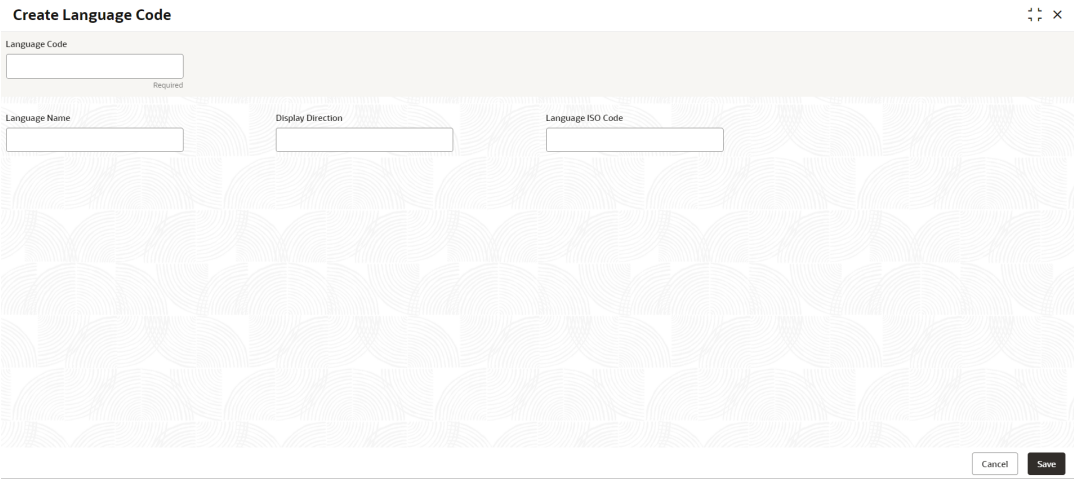
Figure 1-65 Create Language Code



3. Specify the fields on the **Create Language Code** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 1-67 Create Language Code – Field Description

Field	Description
Language Code	Specify the code for the language. Statement recitals and error messages are stored in tables according to their respective language codes. They are then displayed on-screen or included in statements based on the selected language code.
Language Name	Specify the name for the language associated with the language code.
Display Direction	Specify the display direction. It is utilized by data structures to describe text in both left-to-right languages like English, Spanish, French, and German, as well as right-to-left languages such as Hebrew and Arabic
Language ISO Code	Specify the language ISO code.

4. Perform one of the following action:
   - Click **Save** to save the details.
     The Interest Rate Maintenance is successfully created and can be viewed using the View Interest Rate screen.
   - Click **Cancel** to discard the changes and close the screen.
5. Perform one of the following action:
   - Click **Save** to save the details.
     The language code is successfully created and can be viewed using the View Language Code screen.
   - Click **Cancel** to discard the changes and close the screen.

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1.31.2 View Language Code

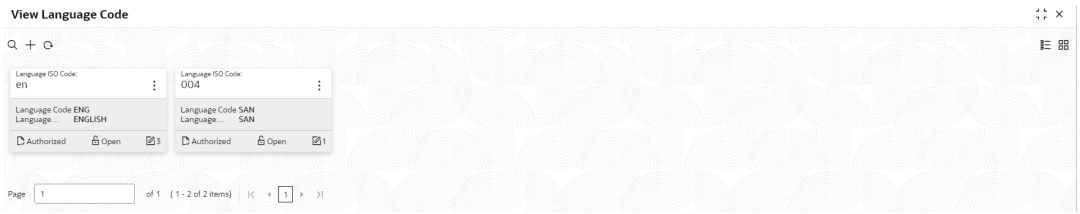
This topic describes the systematic instructions to view the list of configured host codes.

The user can configure language code using Create Language Code screen.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Language Code**.
2. Under **Language Code**, click **View Language Code**.

   The **View Language Code** screen displays.

Figure 1-66 View Language Code



For more information on fields, refer to the field description table.

Table 1-68 View Language Code – Field Description

Field	Description
Language ISO Code	Displays the default branch code associated with the host code.
Language Code	Displays the processing time zone.
Language Name	Displays the host code details.
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

1.32 Local Bank Directory

This topic describes the information required to configure a Local Bank Directory.

The Local Bank Directory stores and manages a list of all local banks along with their key identification details for reference and processing. The Local Bank Directory screen allows users to maintain bank directory details and should be included as part of the Common Core Entities.

This topic contains the following subtopics:

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- Create Local Bank Directory
  This topic describes the systematic instructions to configure the local bank directory so that multiple product processor can refer the data and validate the local bank code before forwarding the payment request to payment system.
- View Local Bank Directory
  This topic describes the systematic instructions to view the list of configured local bank directory.

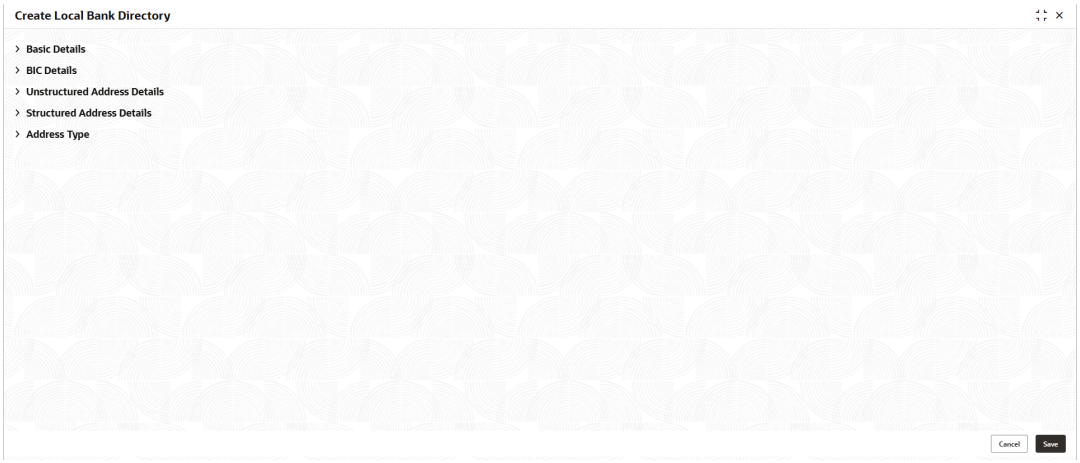
1.32.1 Create Local Bank Directory

This topic describes the systematic instructions to configure the local bank directory so that multiple product processor can refer the data and validate the local bank code before forwarding the payment request to payment system.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Local Bank Directory**.
2. Under **Local Bank Directory**, click **Create Local Bank Directory**.

   The **Create Local Bank Directory** screen is displayed.

Figure 1-67 Create Local Bank Directory



3. Click Expand to view and specify the fields on the **Basic Details** screen.

   The **Basic Details** screen displays.

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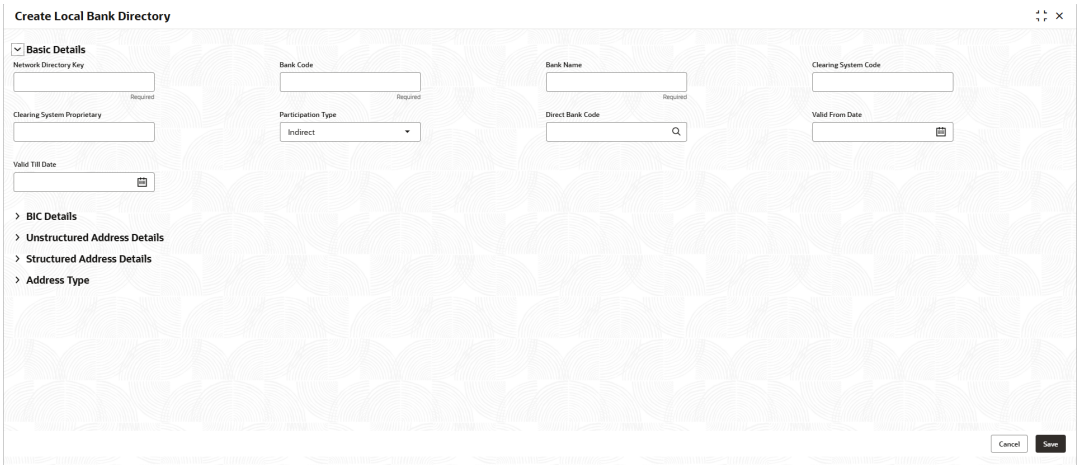
Figure 1-68 Basic Details



> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 1-69 Basic Details - Field Description

Field	Description
Network Directory Key	Specify the unique identifier used to reference the network directory record.
Bank Code	Specify the code assigned to identify the bank within the banking network.
Bank Name	Specify the name of the bank as registered in the directory.
Clearing System Code	Specify the code representing the clearing system used by the bank.
Clearing System Proprietary	Specify the proprietary or custom code associated with the clearing system.
Participation Type	Select the bank's participation level from the drop-down list. The available options are: • **Direct** • **Indirect**
Direct Bank Code	Click this icon to view and select the required bank code from the list.
Valid From Date	Select the date from which the bank directory record becomes effective.
Valid Till Date	Select the date until which the bank directory record remains valid.

4. Click Expand to view and specify the fields on the **BIC Details** screen.

   The **BIC Details** screen displays.

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Figure 1-69 BIC Details

For more information on fields, refer to the field description table.

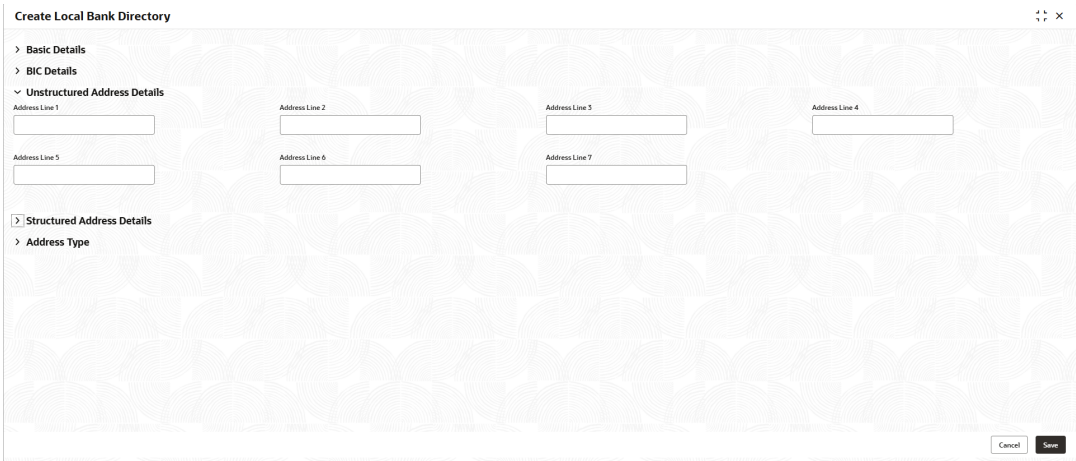
Table 1-70 BIC Details - Field Description

Field	Description
BIC Code	Click this icon to view and select the required BIC code from the list.
BIC Name	Displays the name associated with the BIC code.

5. Click Expand to view and specify the fields on the **Unstructured Address Details** screen.

   The **Unstructured Address Details** screen displays.

Figure 1-70 Unstructured Address Details



For more information on fields, refer to the field description table.

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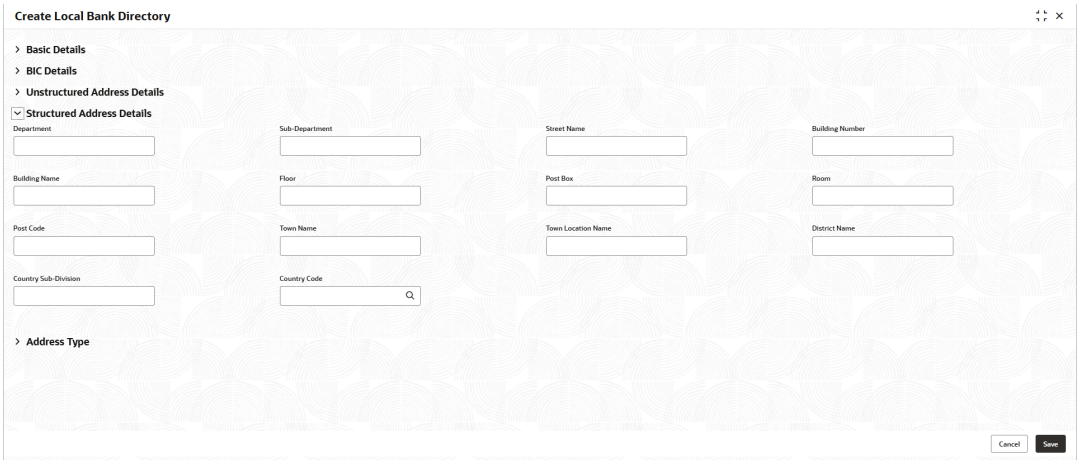
Table 1-71 Unstructured Address Details - Field Description

Field	Description
Address Line 1 - 7	Specify the bank's address details across the available address lines.

6. Click Expand to view and specify the fields on the **Structured Address Details** screen.

   The **Structured Address Details** screen displays.

Figure 1-71 Structured Address Details



For more information on fields, refer to the field description table.

Table 1-72 Structured Address Details - Field Description

Field	Description
Department	Specify the department associated with the bank's address.
Sub-Department	Indicates a sub-division or sub-department within the main department.
Street Name	Specify the name of the street where the bank is located.
Building Number	Specify the numeric identifier of the building.
Building Name	Specify the name of the building, if applicable.
Floor	Specify the floor number or level within the building.
Post Box	Specify the post office box number for mail correspondence.
Room	Specify the room number location within the building.
Post Code	Specify the postal or ZIP code for the address.
Town Name	Specify the name of the town or city where the bank is situated.
Town Location Name	Specify the additional locality information within the town.
District Name	Specify the name of the district associated with the address.
Country Sub-Division	Specify the state, province, or region within the country.
Country Code	Click this icon to view and select the required country code from the list.

7. Click Expand to view and specify the fields on the **Address Type** screen.

   The **Address Type** screen displays.

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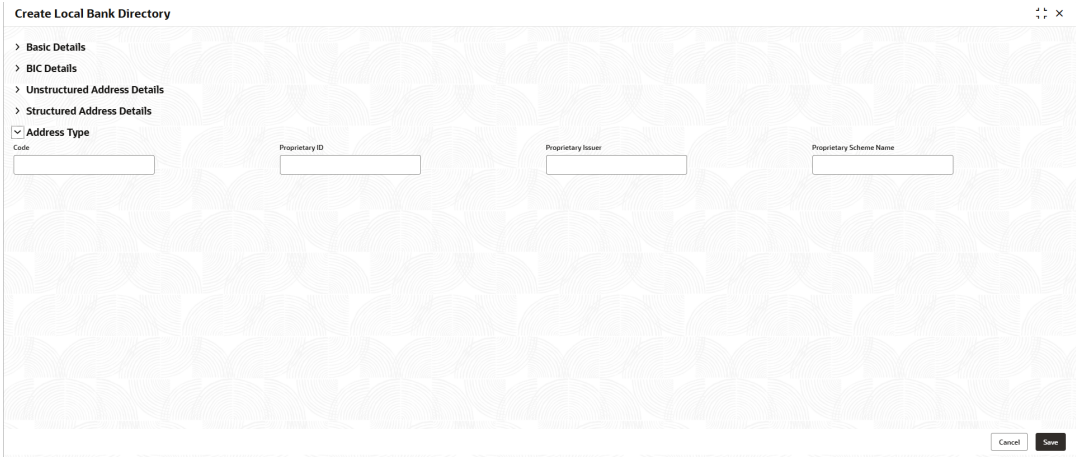
Figure 1-72 Address Type



For more information on fields, refer to the field description table.

Table 1-73 Address Type - Field Description

Field	Description
Code	Specify the standard identifier used to classify or reference the bank or entity.
Proprietary ID	Specify the custom or system-specific identifier assigned by the issuing organization.
Proprietary Issuer	Specify the name of the entity or system that issues the proprietary ID.
Proprietary Scheme Name	Specify the name of the proprietary scheme or framework under which the ID is defined.

8. Perform one of the following action:
   a. Click **Save** to save the details.
   b. Click **Cancel** to discard the changes and close the screen.

1.32.2 View Local Bank Directory

This topic describes the systematic instructions to view the list of configured local bank directory.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Local Bank Directory**.
2. Under **Local Bank Directory**, click **View Local Bank Directory**.

   The **View Local Bank Directory** screen is displayed.

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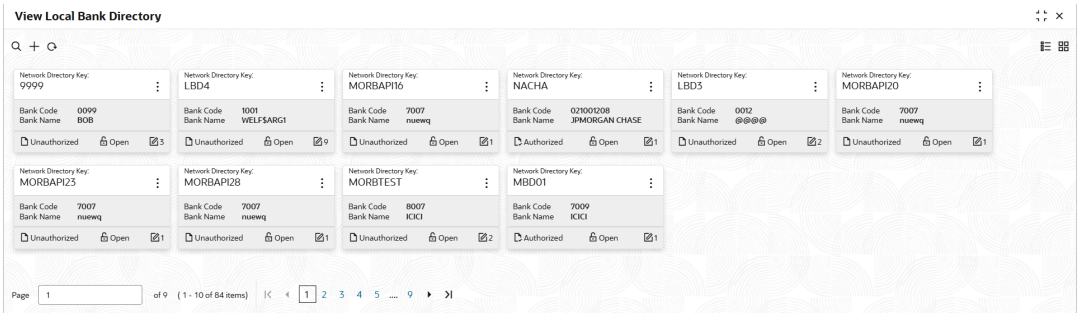
Figure 1-73 View Local Bank Directory



For more information on fields, refer to the field description table.

Table 1-74 View Local Bank Directory – Field Description

Field	Description
Network Directory Key	Displays the network directory key.
Bank Code	Displays the code of the bank.
Bank Name	Displays the name of the bank.
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

1.33 Local Holiday

This topic describes the information to configure a local holiday.

Each **Local Holiday** table serves to dictate various system functionalities. Different local holiday tables can be established and allocated to different branches as required. Functions associated with local holiday tables include:

1. Confirming the Value Date of a transaction that occurs on a business day.
2. Ensuring that the Start Date, Maturity Date, or Schedule Date of a loan or deposit aligns with a business day.
3. Managing the process to ensure that an action is executed on a business day or postponed to the next or preceding business day if scheduled on a holiday.
4. Generating a repayment schedule and determining contract maturity dates in the future, considering only business days.

This topic contains the following subtopics:

- Create Local Holiday
  This topic describes the systematic instructions to configure local holidays.

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- View Local Holiday
  This topic describes the systematic instructions to view the list of configured local holidays.

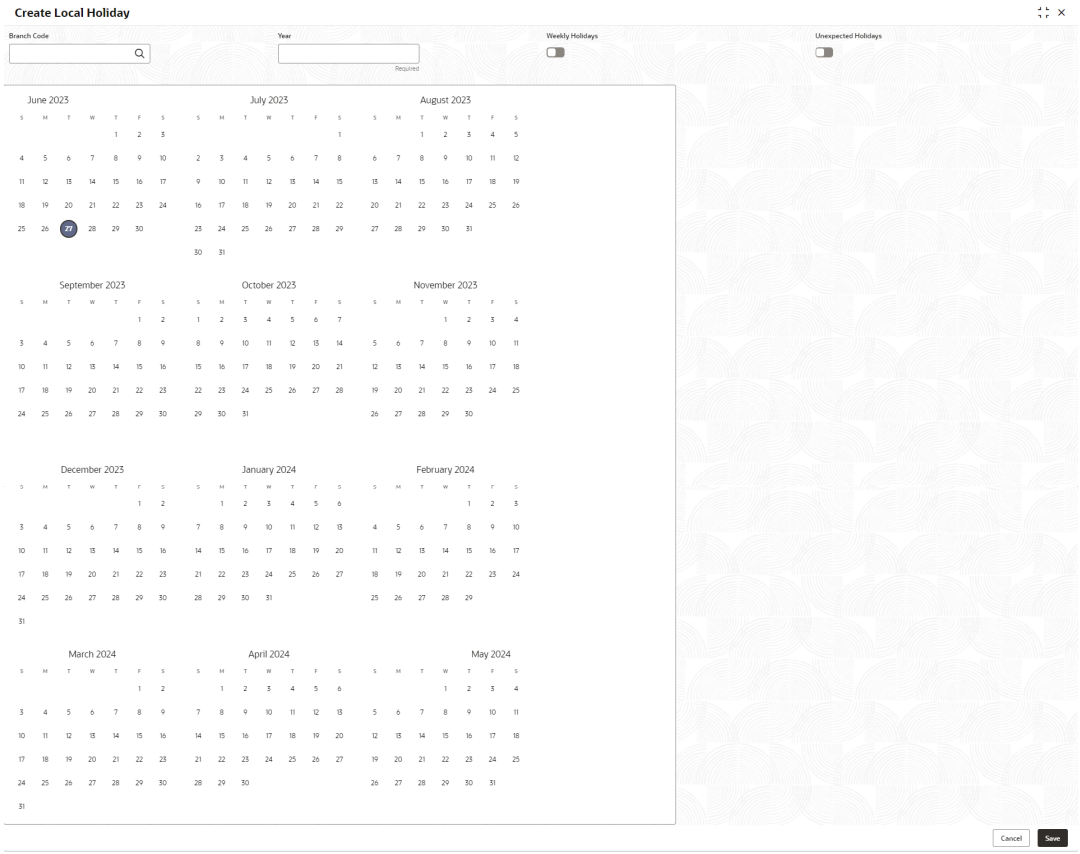
1.33.1 Create Local Holiday

This topic describes the systematic instructions to configure local holidays.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Local Holiday**.
2. Under **Local Holiday**, click **Create Local Holiday**.

   The **Create Local Holiday** screen is displayed.

Figure 1-74 Create Local Holiday



3. Specify the fields on the **Create Local Holiday** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

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Table 1-75 Create Local Holiday – Field Description

Field	Description
Branch Code	Click **Search** icon to view and select the required branch code.
Year	Specify the year details.
Weekly Holidays	Click toggle status to enable the configuration of weekly holidays. By default, this is disabled.
Unexpected Holidays	Click toggle status to enable the configuration of unexpected holidays. By default, this is disabled.

4. Select the dates using the calendar.

> **Note**
>
> The selected dates appear in pink highlighted circle.

5. Perform one of the following action:
   - Click **Save** to save the details.
     The local holiday is successfully created and can be viewed using the View Local Holiday screen.
   - Click **Cancel** to discard the changes and close the screen.

1.33.2 View Local Holiday

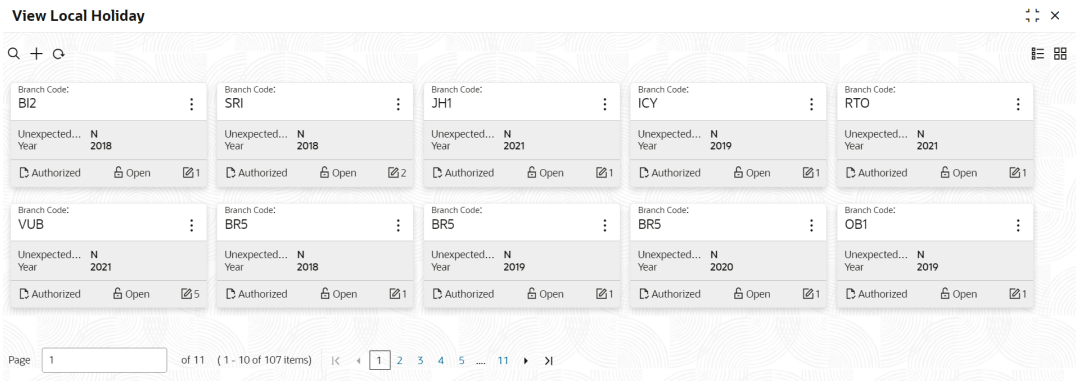
This topic describes the systematic instructions to view the list of configured local holidays.

The user can configure local holiday using Create Local Holiday screen.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Local Holiday**.
2. Under **Local Holiday**, click **View Local Holiday**.

   The **View Local Holiday** screen is displayed.

Figure 1-75 View Local Holiday



For more information on fields, refer to the field description table.

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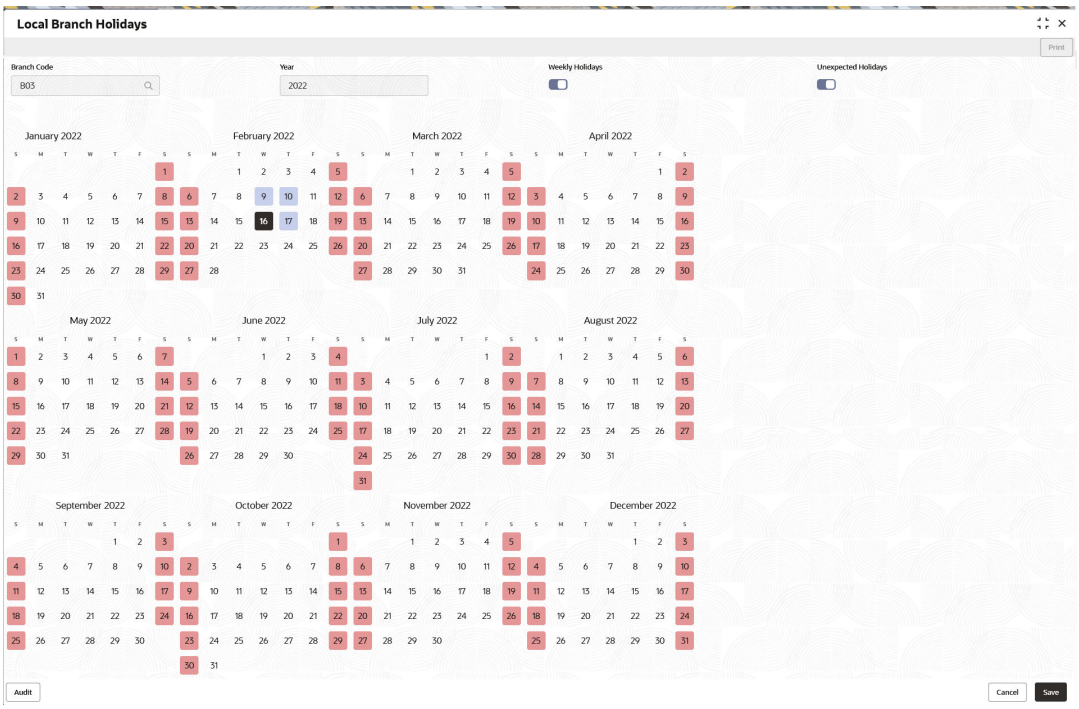
Table 1-76 View Local Holiday – Field Description

Field	Description
Branch Code	Displays the code of the branch.
Unexpected Holiday	Indicates if the record is an unexpected holiday.
Year	Displays the year of the holiday.
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

3. On **View Local Holiday** screen, click ⋮ icon to **Unlock**, **Delete**, **Authorize** or **View** the created Local Holiday.
4. Click **Unlock** to modify the created Local Holiday.

   The **Local Holiday Maintenance - Modify** screen displays.

Figure 1-76 Local Holiday Maintenance - Modify



For more information on fields, refer to the field description table.

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Table 1-77 Local Holiday Maintenance - Modify - Field Description

Field	Description
Branch Code	Displays the code of the branch.
Year	Displays the year of the holiday.
Weekly Holidays	Click toggle status to enable the configuration of weekly holidays.
Unexpected Holiday	Click toggle status to enable the configuration of unexpected holidays.
Year	Displays the year of the holiday.

5. Select the dates using the calendar.

> **Note**
>
> - When a new branch is created, the holiday maintenance is defaulted to the newly created branch from the Head office when <Propagate Local Holiday to Branches> in External Bank Maintenance and <Default Local Holiday from Head Office> in External Branch Maintenance is enabled. Any amendments made to the Head Office holiday maintenance are automatically propagated to all associated branches.
>
> The Branch-specific holidays are highlighted in light blue, while Head office holidays are displayed in red.

6. Click **Save** to update the modified fields.

1.34 Media

This topic describes the information to configure the media.

Disclosures, alerts, notices, and messages are generated at specific events in the lifecycle of Accounts/Parties. Users are required to maintain the various media through which these notifications would be generated. Once defined at this layer, the respective domains can utilize only those designated media for generating these notifications

This topic contains the following subtopics:

- Create Media
  This topic describes the systematic instructions to configure media.
- View Media
  This topic describes the systematic instructions to view the list of configured media.

1.34.1 Create Media

This topic describes the systematic instructions to configure media.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Media**.
2. Under **Media**, click **Create Media**.

   The **Create Media** screen is displayed.

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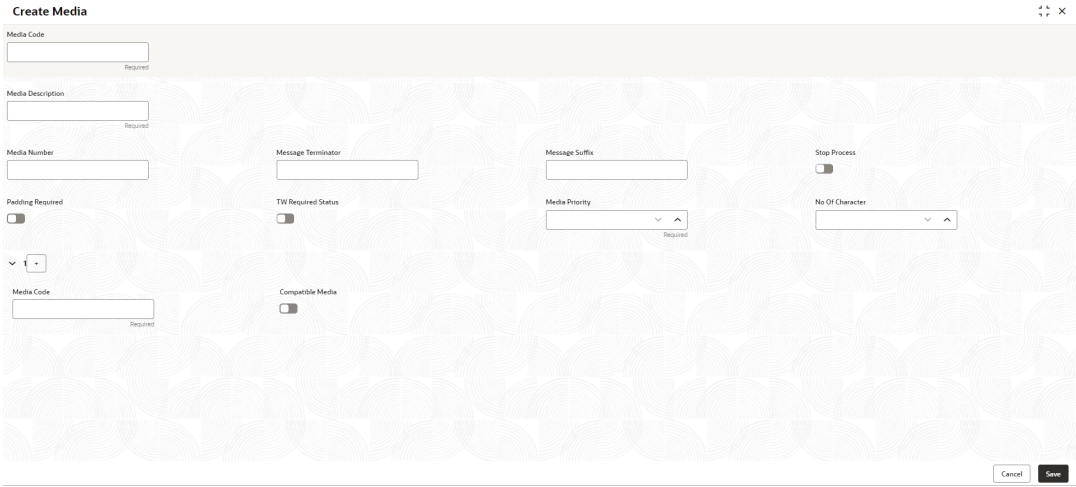
Figure 1-77 Create Media



3. Specify the fields on the **Create Media** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 1-78 Create Media – Field Description

Field	Description
Media Code	Specify a unique media code to identify while associating with an advice.
Media Description	Specify additional information about the media.
Media Number	Specify a unique number for the media type.
Message Terminator	Specify the padded characters to mark the end of an incoming messages.
Message Suffix	Specify the padding characters to mark the end of an outgoing messages.
Stop Process	Click the toggle status to enable halting the processing of incoming and outgoing messages. By default, this option is disabled.
Padding Required	Click the toggle status to enable padding for characters in all outgoing messages. By default, this option is disabled.
TW (Test Word) Required Status	Click the toggle status to enable word testing. By default, this option is disabled.
Media Priority	Specify the media priority from the spin box. When a message is dispatched to the customers, the media type used for sending the messages will be the one that is on high priority.
Number of Character	Specify the number the padding characters should be repeated for the advice from the spin box.
Media Code	Specify the unique media code to identify while associating with an advice.

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Table 1-78 (Cont.) Create Media – Field Description

Field	Description
Compatible Media	Click the toggle status to indicate media compatibility. By default, this option is disabled.

4. Click **+** to add media details.
5. Perform one of the following action:
   - Click **Save** to save the details.
     The media is successfully created and can be viewed using the View Media screen.
   - Click **Cancel** to discard the changes and close the screen.

1.34.2 View Media

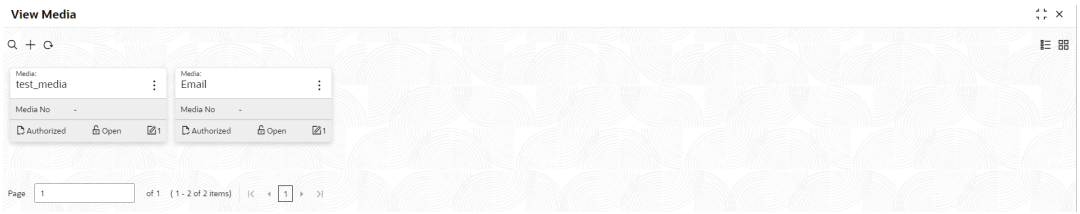
This topic describes the systematic instructions to view the list of configured media.

The user can configure media using Create Media screen.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Media**.
2. Under **Media**, click **View Media**.

   The **View Media** screen is displayed.

Figure 1-78 View Media



For more information on fields, refer to the field description table.

Table 1-79 View Media – Field Description

Field	Description
Media	Displays the name of the media.
Media Number	Displays the number of the media.
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

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1.35 MIS Class

This topic describes the information to configure an MIS Class.

MIS Class renders the entire MIS reporting absolutely flexible. By defining a class of your choice, and linking several entities to it, user can generate management information as per requirement. It helps in generating reports based on configuration.

This topic contains the following subtopics:

- Create MIS Class
  This topic describes the systematic instructions to configure the MIS Class.
- View MIS Class
  This topic describes the systematic instructions to view the list of configured MIS Class.

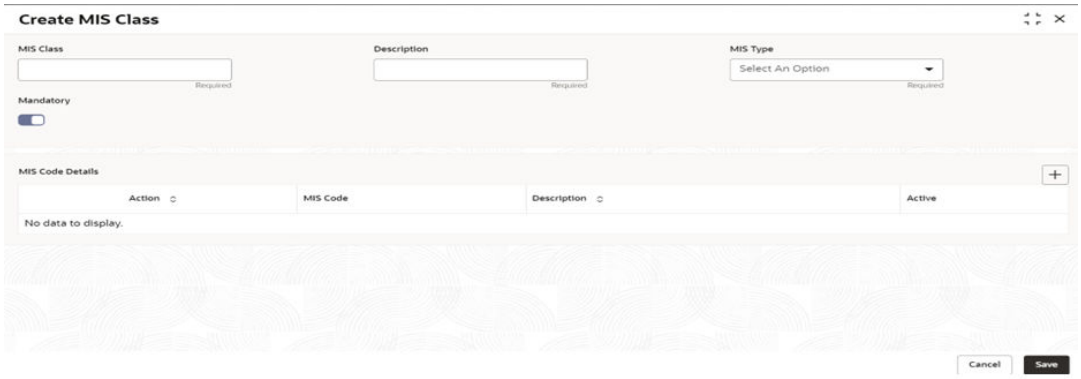
1.35.1 Create MIS Class

This topic describes the systematic instructions to configure the MIS Class.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **MIS Class**.
2. Under **MIS Class**, click **Create MIS Class**.

   The **Create MIS Class** screen is displayed.

Figure 1-79 Create MIS Class



3. Specify the fields on the **Create MIS Class** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

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Table 1-80 Create MIS Class – Field Description

Field	Description
MIS Class	MIS Class across which the report must be generated. For example, if industry code reports must be taken, MIS class can be **INDSTRYCD**.
Description	Provide MIS Class description for the above code.
MIS Type	Select the appropriate MIS type. The available options are: • **Transaction Class** - Refers to transactions created via modules like Foreign Exchange, Money Market etc. For profitability reports. • **Composite Class** - Refers to customer accounts, Combination of customer and Transaction type of MIS class to view the details of different kind of expense codes based on customer & transaction based, as defined. • **Customer Class** - For customer based classifications, MIS class belongs to a customer type for generating profitability report of a customer.
Mandatory	Click the toggle status to make the MIS Code mandatory. If the mandatory toggle is enabled, MIS codes must be linked to the class.

4. Click **+** to add the MIS Code to the MIS Class respectively.
5. Perform one of the following action:
   - Click **Save** to save the details.
     The MIS Class is successfully created and can be viewed using the **View MIS Class** screen.
   - Click **Cancel** to discard the changes and close the screen.

1.35.2 View MIS Class

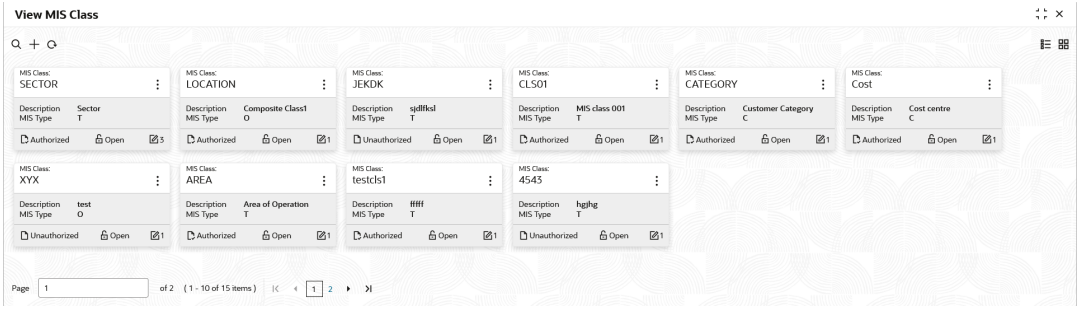
This topic describes the systematic instructions to view the list of configured MIS Class.

The user can configure an MIS Class using **Create MIS Class** screen.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **MIS Class**.
2. Under **MIS Class**, click **View MIS Class**.

   The **View MIS Class** screen is displayed.

Figure 1-80 View MIS Class



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For more information on fields, refer to the field description table.

Table 1-81 View MIS Class – Field Description

Field	Description
MIS Class	Displays the configured MIS Class.
Description	Displays the description of the MIS Class.
MIS Type	Displays the type of MIS Class.
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

1.36 MIS Group

This topic describes the information to configure an MIS Group.

MIS group simplifies the process by linking multiple MIS Classes or MIS Entities into a single group.

If we have 2 MIS classes of a Transaction and Composite, system can generate MIS by combining the 2 classes of Transaction and Composite and generate a single report.

This topic contains the following subtopics:

- Create MIS Group
  This topic describes the systematic instructions to configure the MIS group.
- View MIS Group
  This topic describes the systematic instructions to view the list of configured MIS group.

1.36.1 Create MIS Group

This topic describes the systematic instructions to configure the MIS group.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **MIS Group**.
2. Under **MIS Group**, click **Create MIS Group**.

   The **Create MIS Group** screen is displayed.

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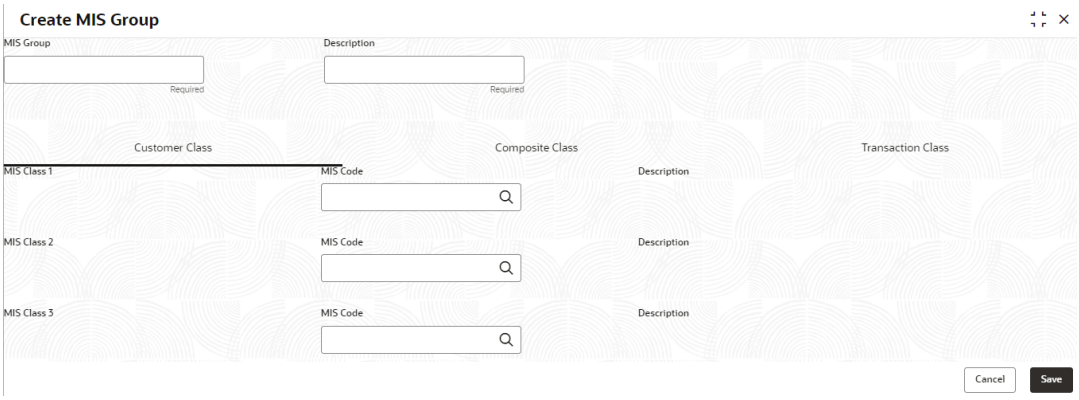
Figure 1-81 Create MIS Group



3. Specify the fields on the **Create MIS Group** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 1-82 Create MIS Group – Field Description

Field	Description
MIS Group	Specify the MIS Group that need to be linked to an account/ product/transaction. MIS Group to be provided
Description	Specify the description about the mentioned MIS Group.
Customer MIS	Link the required MIS Code of Customer MIS Class, created in MIS Class maintenance screen.
Transaction MIS	Link the required MIS Code of Transaction MIS Class, created in MIS Class maintenance screen.
Composite MIS	Link the required MIS Code of Composite MIS Class, created in MIS Class maintenance screen.

4. Perform one of the following action:
   - Click **Save** to save the details.
     The MIS Group is successfully created and can be viewed using the **View MIS Group** screen.
   - Click **Cancel** to discard the changes and close the screen.

1.36.2 View MIS Group

This topic describes the systematic instructions to view the list of configured MIS group.

The user can configure an MIS Group using **Create MIS Group** screen.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **MIS Group**.
2. Under **MIS Group**, click **View MIS Group**.

   The **View MIS Group** screen is displayed.

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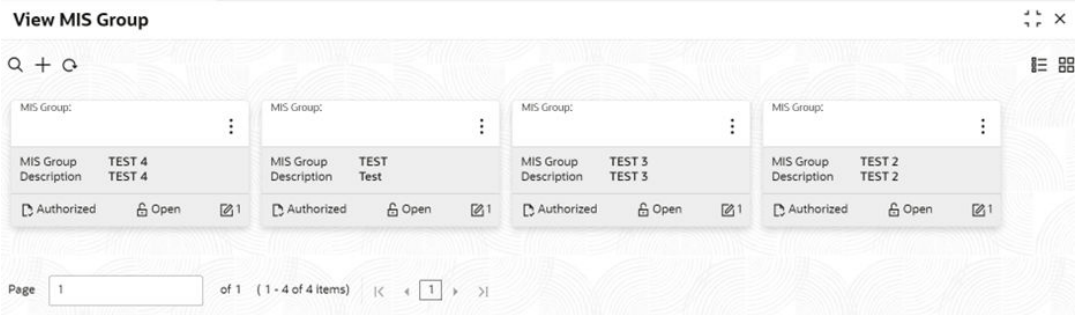
Figure 1-82 View MIS Group



For more information on fields, refer to the field description table.

Table 1-83 View MIS Group – Field Description

Field	Description
MIS Group	Displays the name of the MIS group.
Description	Displays the description of the MIS group.
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

1.37 Multi-Currency Account Linkage

This topic describes the information to link the sub-accounts to a core multi-currency account.

This topic contains the following subtopics:

- Create MCA Linkage
  This topic describes the systematic instructions to link the sub-accounts to a core multi-currency account.
- View MCA Linkage
  This topic describes the systematic instructions to view the list of configured sub-accounts to a core multi-currency account.

1.37.1 Create MCA Linkage

This topic describes the systematic instructions to link the sub-accounts to a core multi-currency account.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Multi-Currency Account Linkage**.
2. Under **Multi-Currency Account Linkage**, click **Create MCA Linkage**.

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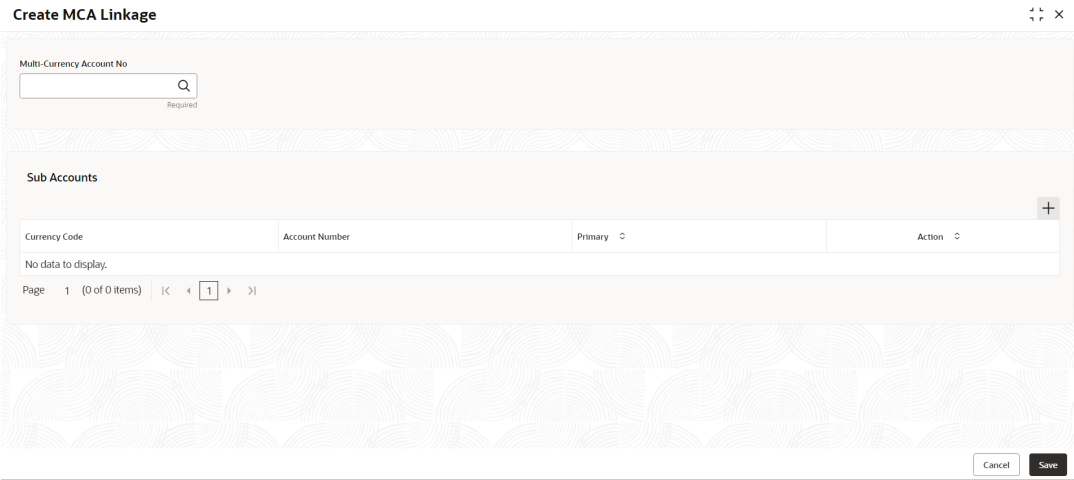
The **Create MCA Linkage** screen is displayed.

Figure 1-83 Create MCA Linkage



3. Specify the fields on the **Create MCA Linkage** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 1-84 Create MCA Linkage – Field Description

Field	Description
Multi-Currency Account No	Click **Search** icon to view and select the multi-currency account number from the list of values.
Sub Accounts	Displays the details of the sub accounts.
Currency Code	Specify the currency code of the sub account.
Account Number	Specify the account number of the sub account.
Primary	Select **Yes**, if the sub account is **Primary**. If it is not **Primary**, select **No**.

4. Perform one of the following action:
   - Click **Save** to save the details.
     The MCA linkage is successfully created and can be viewed using the View MCA Linkage screen.
   - Click **Cancel** to discard the changes and close the screen.

1.37.2 View MCA Linkage

This topic describes the systematic instructions to view the list of configured sub-accounts to a core multi-currency account.

The user can configure MCA linkage using Create MCA Linkage screen.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Multi-Currency Account Linkage**.

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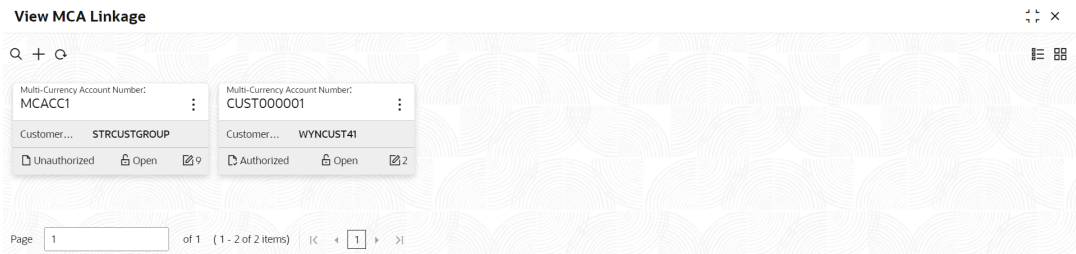
2. Under **Multi-Currency Account Linkage**, click **View MCA Linkage**.

   The **View MCA Linkage** screen is displayed.

Figure 1-84 View MCA Linkage



For more information on fields, refer to the field description table.

Table 1-85 View MCA Linkage – Field Description

Field	Description
Multi-Currency Account Number	Displays the multi-currency account number.
Customer Number	Displays the customer number.
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

1.38 Process Code

This topic describes the information to set the process code to the individual stages according to the process.

This topic contains the following subtopics:

- Process Code Maintenance
  This topic describes the systematic instructions for defining the stages of a particular process.
- View Process Code
  This topic describes the systematic instructions to view the list of configured process codes.

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1.38.1 Process Code Maintenance

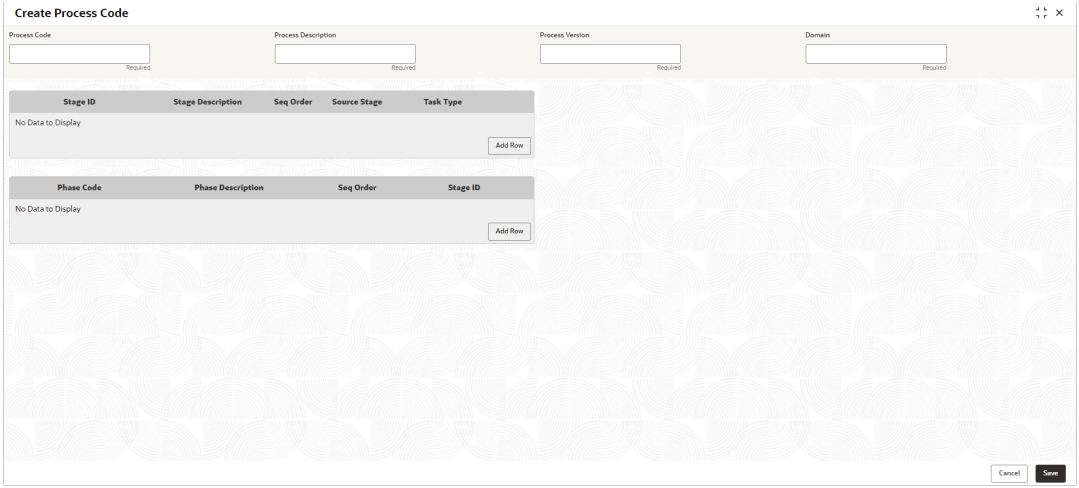
This topic describes the systematic instructions for defining the stages of a particular process.

You can define the required stages, the sequence of the stages, and indicate the first stage, as well as specify whether the stage is a manual task or a system task, etc. The process code information on this screen will be used in further business processing to construct the stages.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Process Code**.

   The **Process Code** screen is displayed.

Figure 1-85 Process Code



2. Specify the fields on the **Process Code** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 1-86 Process Code – Field Description

Field	Description
Process Code	Specify the process code. The process code defined here for a particular domain will be mapped in the Business Process Maintenance to define the business flow.
Process Name	Specify the process code description.
Process Version	Specify the process version.
Domain	Specify the domain to segregate the process based on domain.
Stage ID	Specify the unique stage ID.
Stage Description	Specify the stage description.

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Table 1-86 (Cont.) Process Code – Field Description

Field	Description
Seq Order	Displays the sequential order of the stage in the entire process. The stage will be processed or displayed based on this sequence.
Source Stage	Select it to indicate if the specific stage is the first stage of the process.
Add Row	Click **Add Row** to add a row and to capture the stage details that needs to be mapped to the process code.
Delete Row	Click **Delete Row** to delete a row with stage details.
Phase Code	Phases are used to group together a set of sequential stages.
Task Type	Task Type can be **System Task** or **Manual Task.**. • Select **System Task** if the task to be carried out by the system without manual intervention. • Select **Manual Task** if the task which requires user intervention.
Phase Description	Specify the phase description.
Seq Order	Displays the sequential order of the phase.
Stage ID	Select the stage ID from the drop down list. Available options in the drop-down will be based on Stage ID mentioned at Process Code level.
Add Row	Click **Add Row** to add a row and to capture the phase details that needs to be mapped to the process code.
Delete Row	Click **Delete Row** to delete a row with phase details.

3. Perform one of the following action:
   - Click **Save** to save the details.
     The process code is successfully created and can be viewed using the View Process Code screen.
   - Click **Cancel** to discard the changes and close the screen.

1.38.2 View Process Code

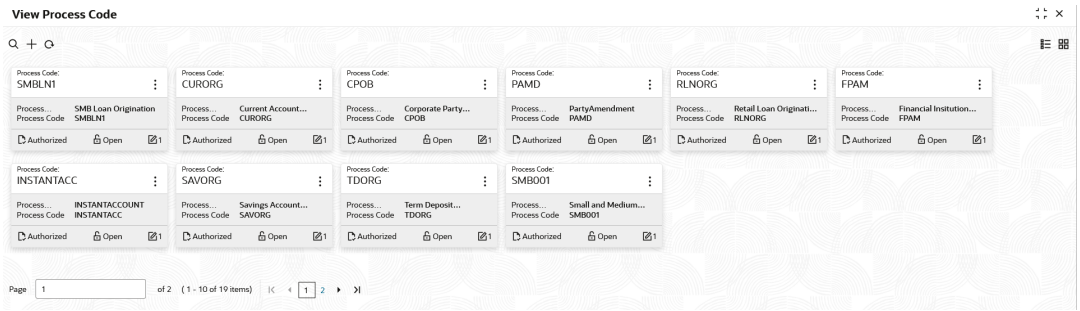
This topic describes the systematic instructions to view the list of configured process codes.

The user can configure process code using Process Code Maintenance screen.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Process Code**.
2. Under **Process Code**, click **View Process Code**.

   The **View Process Code** screen is displayed.

Figure 1-86 View Process Code



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For more information on fields, refer to the field description table.

Table 1-87 View Process Code – Field Description

Field	Description
Process Code	Displays the process code.
Description	Displays the description of process code.
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

1.39 Priority Code

This topic describes the information to configure an Priority Code.

Priority Code defines the priority of the application. They can be mapped to a particular customer for specific process codes.

This topic contains the following subtopics:

- Priority Code Maintenance
  This topic describes the systematic instructions to view the list of configured Priority Code Maintenance.
- Customer Priority Maintenance
  This topic describes the systematic instructions to view the list of configured Customer Priority Maintenance.

1.39.1 Priority Code Maintenance

This topic describes the systematic instructions to view the list of configured Priority Code Maintenance.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Priority Code**.
2. Under **Priority Code**, click **Priority Code Maintenance**.

   The **Priority Code Maintenance** screen is displayed.

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Figure 1-87 Priority Code Maintenance

For more information on fields, refer to the field description table.

Table 1-88 Priority Code Maintenance – Field Description

Field	Description
Name	Displays the name of the priority code configured.
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

1.39.2 Customer Priority Maintenance

This topic describes the systematic instructions to view the list of configured Customer Priority Maintenance.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Priority Code**.
2. Under **Priority Code**, click **Customer Priority Maintenance**.

   The **Customer Priority Maintenance** screen is displayed.

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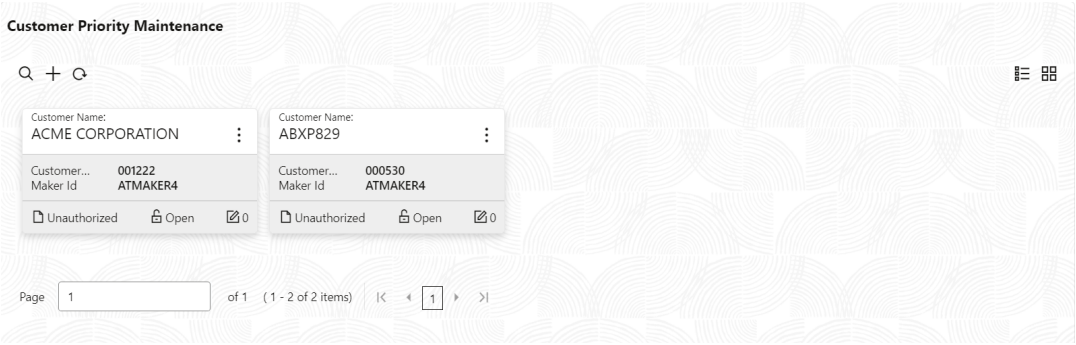
Figure 1-88 Customer Priority Maintenance



For more information on fields, refer to the field description table.

Table 1-89 Customer Priority Maintenance – Field Description

Field	Description
Customer Name	Displays the name of the customer priority configured.
Customer Code	Displays the code of the customer priority.
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

3. Click icon to configure the new customer priority maintenance.

   The **Customer Priority Maintenance** screen is displayed.

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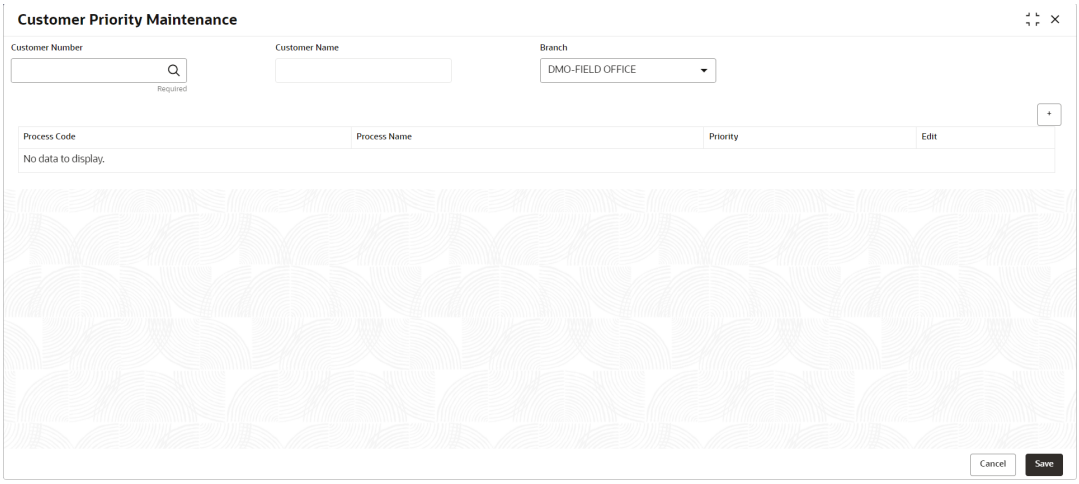
Figure 1-89 Customer Priority Maintenance



4. Specify the fields on the **Customer Priority Maintenance** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 1-90 Customer Priority Maintenance – Field Description

Field	Description
Customer Number	Select the Customer number from list for which priority needs to be mapped. Retrieves list of existing customers.
Customer Name	Displays the name of the selected customer. It is read-only. Populates value of customer name.
Branch	Select the branch of the customer from the drop-down list. This is user specific.
+	Click '**+**' icon to add the new row for the process codes configuration. This is for new customer priority mapping.
Process Code	Select the process code form the list for defining the priority. Process code for that flow.
Process Name	Displays the name of the selected process code. It is read-only. Populates the value of process name.
Priority	Select the priority of the process code from the drop-down list. Specific priority to be assigned.
Edit	Click the **Edit** button to modify the details.

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1.40 Pricing Source System

This topic describes the information to configure the pricing source system.

This topic contains the following subtopics:

- Create Pricing Source System
  This topic describes the systematic instructions to configure pricing source system details.
- View Pricing Source System
  This topic describes the systematic instructions to view the list of configured Pricing Source system.

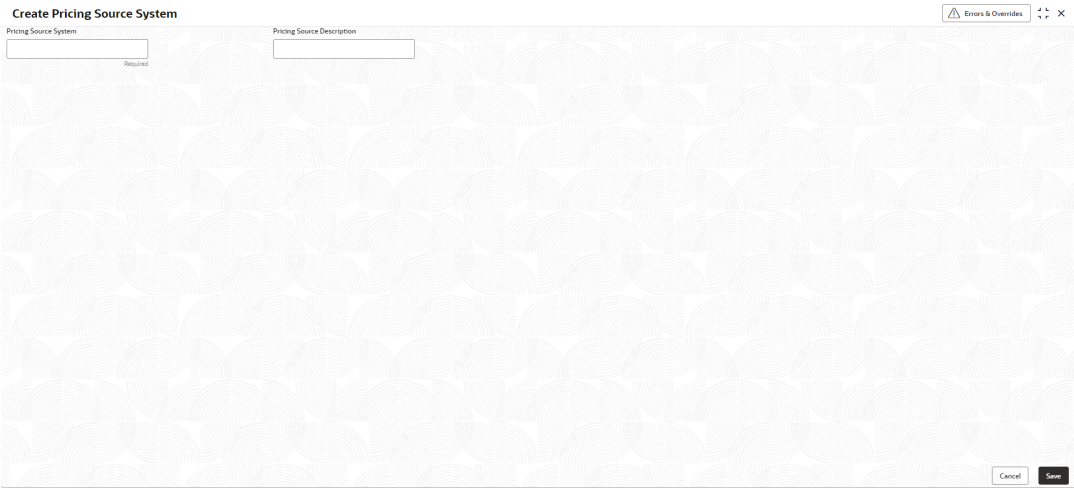
1.40.1 Create Pricing Source System

This topic describes the systematic instructions to configure pricing source system details.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Pricing Source System**.
2. Under **Pricing Source System**, click **Create Pricing Source System**.

   The **Create Pricing Source System** screen is displayed.

Figure 1-90 Create Pricing Source System



3. Specify the fields on the **Create Pricing Source System** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

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Table 1-91 Create Pricing Source System – Field Description

Field	Description
Pricing Source System	Specify the pricing source system.
Pricing Source Description	Specify the additional information about the Pricing Source system.

4. Perform one of the following action:
   - Click **Save** to save the details.
     The pricing source system is successfully created and can be viewed using the View Pricing Source System screen.
   - Click **Cancel** to discard the changes and close the screen.

1.40.2 View Pricing Source System

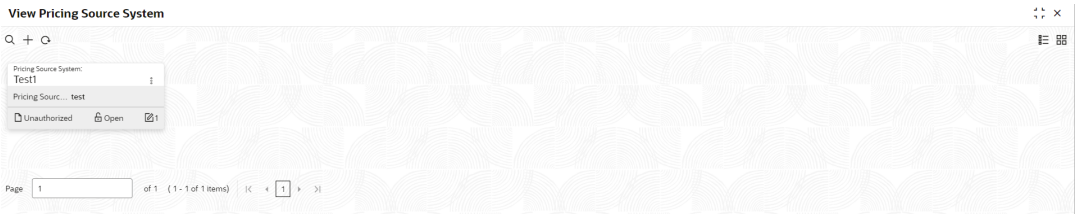
This topic describes the systematic instructions to view the list of configured Pricing Source system.

The user can configure the pricing source system using Create Pricing Source System screen.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Pricing Source System**.
2. Under **Pricing Source System**, click **View Pricing Source System**.

   The **View Pricing Source System** screen is displayed.

Figure 1-91 View Pricing Source System



For more information on fields, refer to the field description table.

Table 1-92 View Pricing Source System – Field Description

Field	Description
Pricing Source System	Displays the name of the Pricing Source system.
Pricing Source System Description	Displays any additional information of the Pricing Source system.
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**

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Table 1-92 (Cont.) View Pricing Source System – Field Description

Field	Description
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**

1.41 Resource Class

This topic describes the information to configure an Resource Class.

This topic contains the following subtopics:

- Create Resource Class
  This topic describes the systematic instructions to configure the resource class.
- View Resource Class
  This topic describes the systematic instructions to view the list of configured resource class.

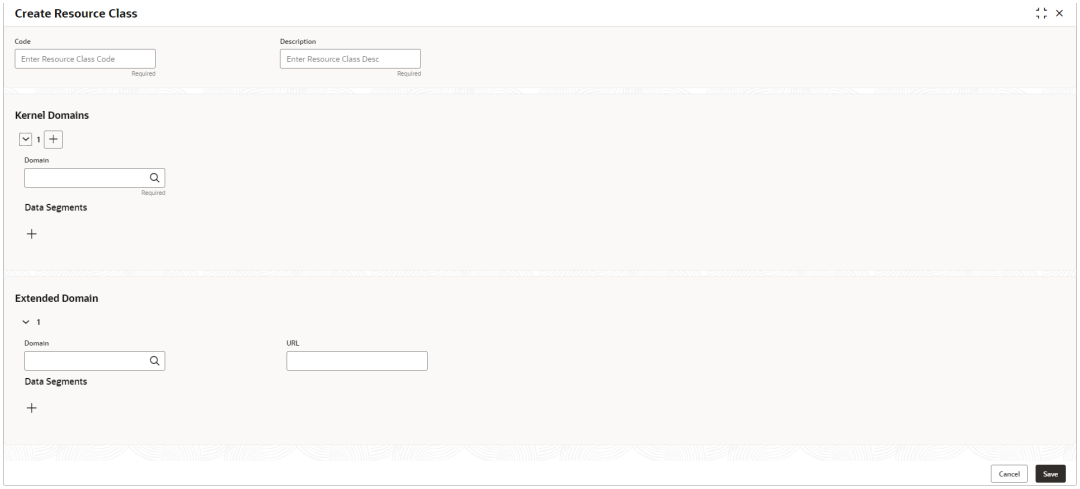
1.41.1 Create Resource Class

This topic describes the systematic instructions to configure the resource class.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Resource Class**.
2. Under **Resource Class**, click **Create Resource Class**.

   The **Create Resource Class** screen is displayed.

Figure 1-92 Create Resource Class



3. Specify the fields on the **Create Resource Class** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

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For more information on fields, refer to the field description table.

Table 1-93 Create Resource Class – Field Description

Field	Description
Code	Specify the code of the resource class being created.
Description	Indicates the description of the resource class code.
Kernel Domains	This section provides the information related to kernel domains.
	Click this icon to add the new kernel domain.
Domains	Click **Search** and select the domain product from the list. This list is factory shipped from the SMS services.add
Data segments	The data segments for the selected domain can be configured by clicking on the **+** sign. This list is fetched from the datasegments available in the core maintenance
Extended Domain	This section provides the information related to extended domains.
	Click this icon to add the new extended domain.
Domains	Click **Search** and select the extended domain product from the list. This list is factory shipped from the SMS services.
URL	Specify the URL of the selected extended domain.
Data Segments	The data segments for the selected domain can be configured by clicking on the **+** sign. This list is fetched from the data segments available in the core maintenance

4. Perform one of the following action:
   - Click **Save** to save the details.
     The resource class is successfully created and can be viewed using the **View Resource Class** screen.
   - Click **Cancel** to discard the changes and close the screen.

1.41.2 View Resource Class

This topic describes the systematic instructions to view the list of configured resource class.

The user can configure an resource class using **Create Resource Class** screen.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Resource Class**.
2. Under **Resource Class**, click **View Resource Class**.

   The **View Resource Class** screen is displayed.

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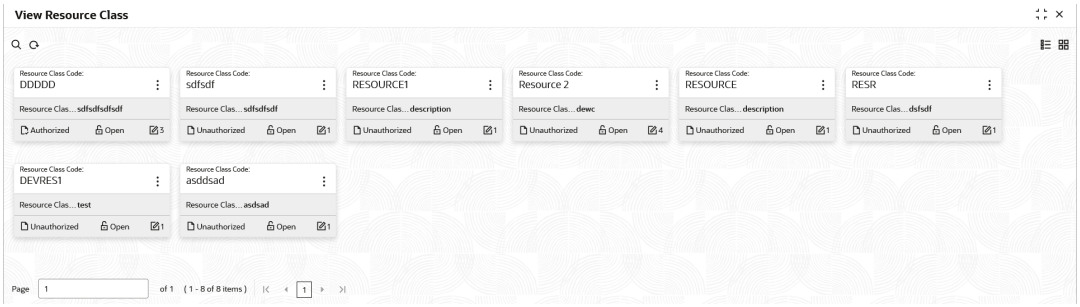
Figure 1-93 View Resource Class



For more information on fields, refer to the field description table.

Table 1-94 View Resource Class – Field Description

Field	Description
Resource Class Code	Displays the code of the resource class.
Resource Class Description	Displays the description of the resource class.
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

1.42 SLA Maintenance

This topic describes the information to configure an SLA maintenance.

This topic contains the following subtopics:

- Create SLA Maintenance
  This topic describes the systematic instructions to configure the SLA maintenance.
- View SLA Maintenance
  This topic describes the systematic instructions to view the list of configured SLA maintenance.

1.42.1 Create SLA Maintenance

This topic describes the systematic instructions to configure the SLA maintenance.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **SLA Maintenance**.
2. Under **SLA Maintenance**, click **Create SLA Maintenance**.

   The **Create SLA Maintenance** screen is displayed.

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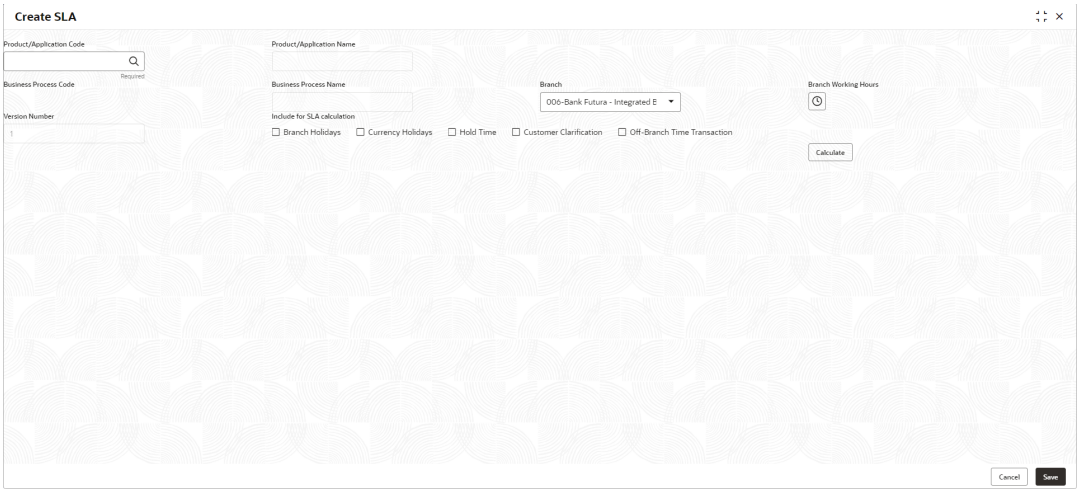
Figure 1-94 Create SLA Maintenance



3. Specify the fields on the **Create SLA Maintenance** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 1-95 Create SLA Maintenance – Field Description

Field	Description
Product/Application Code	Click **Search** icon and select the Product or Application Code.
Product/Application Name	Displays the name of the Product/Application.
Business Process Code	Click **Search** icon and select the Business Process Code for which the SLA maintenance has to be made.
Business Process Name	Displays the Business Process name based on the Business Process code selected.
Branch	Select the branch code for which SLA maintenance has to be done.
Branch Working Hours	Click the icon to view the branch working hours.
Include for SLA Calculation	Select the checkbox to consider the below options for the SLA calculation. The available options are: • **Branch Holidays** • **Currency Holidays** • **Hold Time** • **Customer Clarification** • **Off Branch Time Transactions**

4. Click **Calculate** to view data will appear for the selected Business process code
5. Perform one of the following action:
   - Click **Save** to save the details.
     The SLA Maintenance is successfully created and can be viewed using the **View SLA Maintenance** screen.

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- Click **Cancel** to discard the changes and close the screen.

1.42.2 View SLA Maintenance

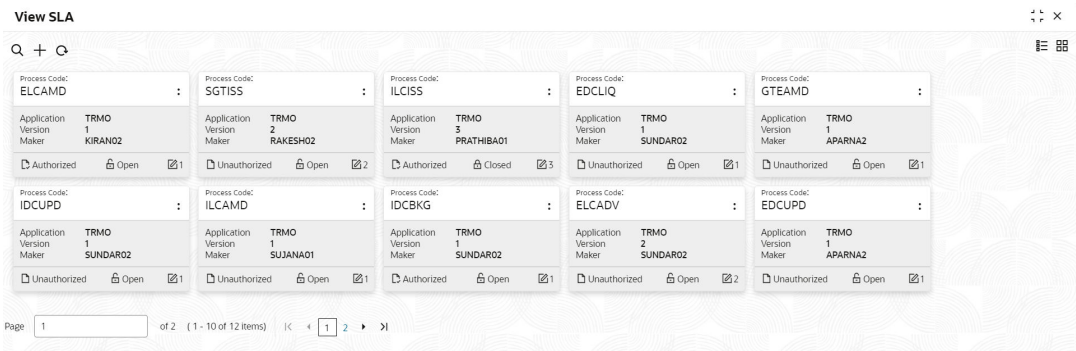
This topic describes the systematic instructions to view the list of configured SLA maintenance.

The user can configure an SLA maintenance using **Create SLA Maintenance** screen.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **SLA Maintenance**.
2. Under **SLA Maintenance**, click **View SLA Maintenance**.

   The **View SLA Maintenance** screen is displayed.

Figure 1-95 View SLA Maintenance



For more information on fields, refer to the field description table.

Table 1-96 View SLA Maintenance – Field Description

Field	Description
Process Code	Displays the process code of the SLA Maintenance configured.
Application	Displays the name of the application
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

1.43 Screenclass

The maintenance screens of Oracle Banking Microservices Architecture product which are based on Resource Segment Orchestrator uses the screen class maintenance to maintain the list of data segments that are part of the maintenance screens.

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The process flow-based screens of Oracle Banking Microservices Architecture product also use the screen class maintenance screen as part of the Business process maintenance screen of the product. Accordingly the data segments maintained as part of the screen class will be loaded when the process flow based screens are loaded.

This topic contains the following subtopics:

- Create Screenclass
  This topic describes the systematic instructions to configure the Screenclass.
- View Screenclass
  The summary screen provides a list of configured **Screenclass Maintenance** screen. You can configure the Create Screenclass details using the. To process this screen, perform the following steps.

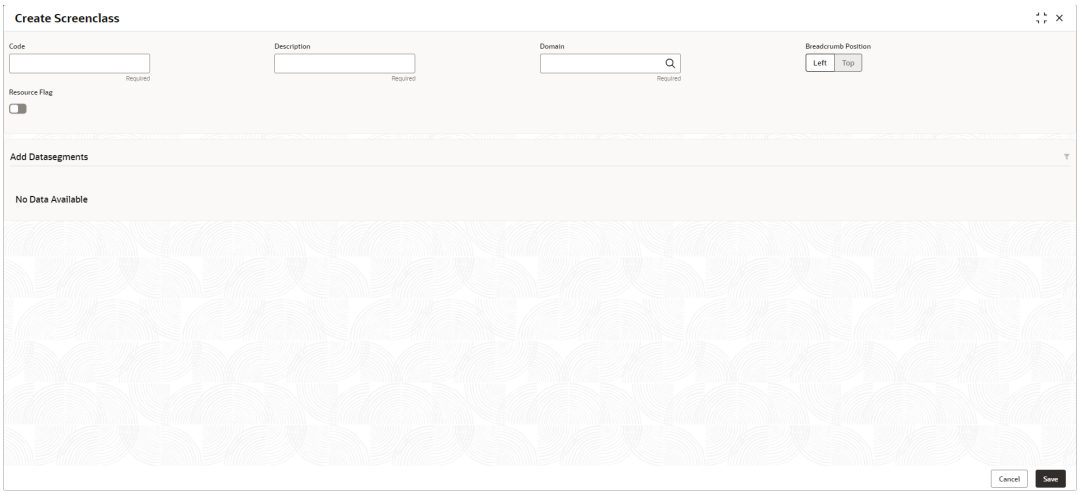
1.43.1 Create Screenclass

This topic describes the systematic instructions to configure the Screenclass.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Screenclass**.
2. Under **Screenclass**, click **Create Screenclass**.

   The **Create Screenclass** screen is displayed.

Figure 1-96 Create Screenclass



3. Specify the fields on the **Create Screenclass** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

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Table 1-97 Create Screenclass – Field Description

Field	Description
Code	Specify the screen class code that will be mapped to a resource class or used in the business process maintenance screen.
Description	Specify the list of data segments which are part of the screen class.
Domain	Specify the domain for which the screen class is created. It is a pick list and examples of the domain are Oracle Banking Party and Common Core.
Breadcrumb Position	The data segments of the screen class will be loaded as part of the breadcrumbs. The position of the breadcrumb can be on the top or left.
Resource Flag	Select the toggle to enable the resource class code. This indicates that the Screen class is to be associated with a resource class.
Resource Class Code	Click **Search** icon and select the resource class code from the list. This indicates the resource class is mapped to the screen class. Based on the Resource class and the screen class mapping the data segments of the screen class are loaded when the resource is loaded. For example, the account class maintenance screen is a resource. **Note:** This field is active only if **Resource Flag** toggle is enabled.

4. Perform one of the following action:
   - Click **Save** to save the details.
     The Screenclass is successfully created and can be viewed using the **View Screenclass** screen.
   - Click **Cancel** to discard the changes and close the screen.

1.43.2 View Screenclass

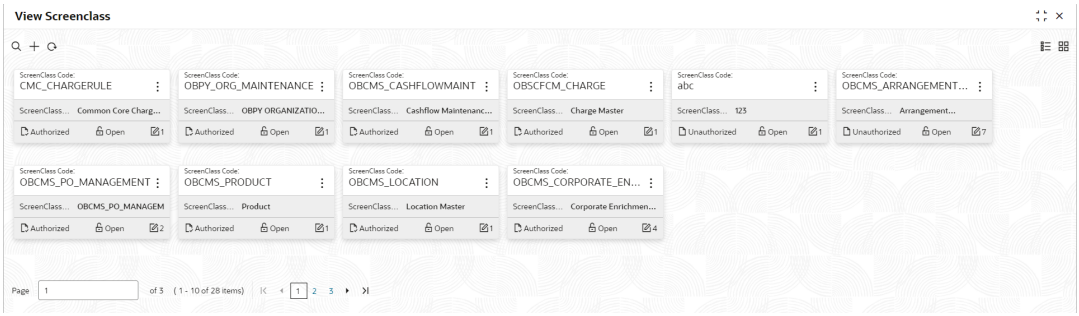
The summary screen provides a list of configured **Screenclass Maintenance** screen. You can configure the Create Screenclass details using the. To process this screen, perform the following steps.

The user can configure an Screenclass using **Create Screenclass** screen.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Screenclass**.
2. Under **Screenclass**, click **View Screenclass**.

   The **View Screenclass** screen is displayed.

Figure 1-97 View Screenclass



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For more information on fields, refer to the field description table.

Table 1-98 View Screenclass – Field Description

Field	Description
Screenclass Code	Displays the code of Screenclass.
Screenclass Description	Displays the description of Screenclass.
Status	Displays the status of the record.
Modification Number	Displays the number of modification performed on the record.

1.44 State Code

This topic describes the information to configure an State Code.

The system utilizes this data during onboarding and maintenance activities to capture the state value. Moreover, the state captured in the residential address plays a crucial role in determining various statuses such as minor age limits, dormancy rules, etc., which are utilized by domains like Party and Accounts.

This topic contains the following subtopics:

- Create State Code
  This topic describes the systematic instructions to configure the State Code.
- View State Code
  This topic describes the systematic instructions to view the list of configured State Code.

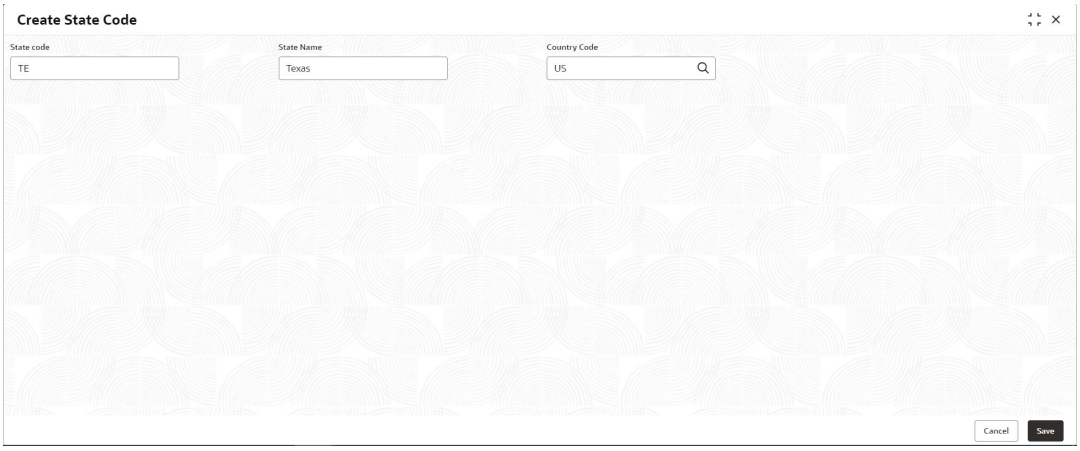
1.44.1 Create State Code

This topic describes the systematic instructions to configure the State Code.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **State Code**.
2. Under **State Code**, click **Create State Code**.

   The **Create State Code** screen is displayed.

Figure 1-98 Create State Code



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3. Specify the fields on the **Create State Code** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 1-99 Create State Code – Field Description

Field	Description
State Code	Specify the code of the state. This is a two-digit alphanumeric character that represents the state or mailing destination.
State Name	Specify the name of the state associated with the code provided.
Country Code	Click **Search** icon and select the country code for the state to be configured. Selects the country associated with the entered code from the system's pre-configured list of countries.

4. Perform one of the following action:
   - Click **Save** to save the details.
     The State Code is successfully created and can be viewed using the **View State Code** screen.
   - Click **Cancel** to discard the changes and close the screen.

1.44.2 View State Code

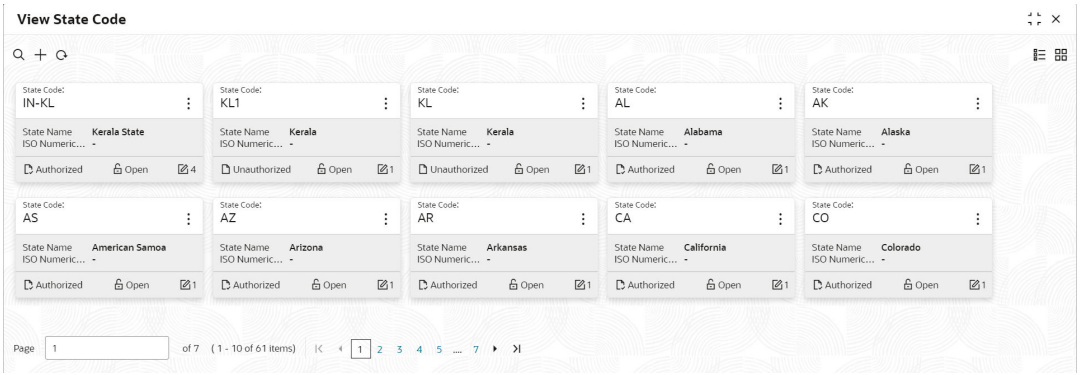
This topic describes the systematic instructions to view the list of configured State Code.

The user can configure an State Code using **Create State Code** screen.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **State Code**.
2. Under **State Code**, click **View State Code**.

   The **View State Code** screen is displayed.

Figure 1-99 View State Code



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For more information on fields, refer to the field description table.

Table 1-100 View State Code – Field Description

Field	Description
State Code	Displays the State code.
State Name	Displays the name of state code.
ISO Numeric	Displays the ISO numeric.
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

1.45 System Dates

This topic describes the information to view the system date details.

Whenever a new branch is created, the system retrieves the date from the Head Office (HO) branch and assigns it to the newly created branch. Subsequent date changes occur during the End-of-Day (EOD) process, with updates reflecting the branch's holiday maintenance.

This topic contains the following subtopics:

- View System Dates
  This topic describes the systematic instructions to view the list of configured system dates.

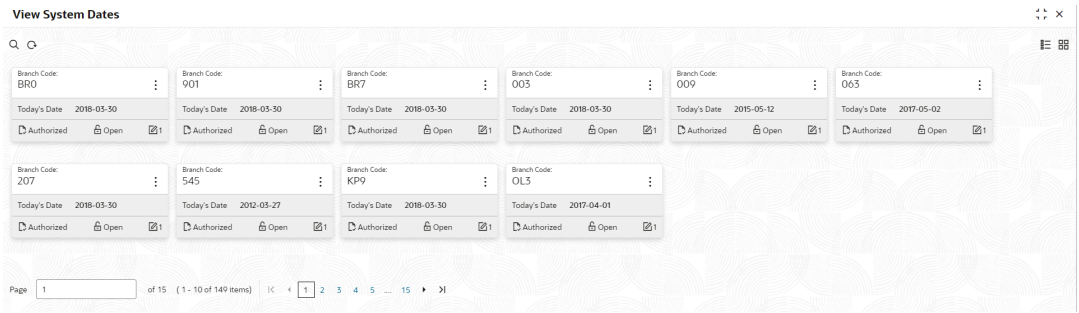
1.45.1 View System Dates

This topic describes the systematic instructions to view the list of configured system dates.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **System Dates**.
2. Under **System Dates**, click **View System Dates**.

   The **View System Dates** screen is displayed.

Figure 1-100 View System Dates



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For more information on fields, refer to the field description table.

Table 1-101 View System Dates – Field Description

Field	Description
Branch Code	Displays the code of the branch.
Today's Date	Displays system current date.
Today's Date in Text	Displays the system current date in words.
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

> **Note**
>
> When the entity is created from the Multi-Entity Maintenances, the System Dates for the Head Office (HO) Branch would be automatically created.

1.46 Transaction Code

This topic describes the information to configure the transaction code.

In the **Transaction Code** screen, users can define transaction codes to represent various types of transactions. Examples include processing charges, interest payments to customers, interest collections from customers, deposit closures, loan closures, cash deposits, cheque deposits, cash withdrawals, and cheque withdrawals. Users can specify the transaction types relevant to their business in the bank within this screen. The descriptions associated with these transaction codes are printed on account statements, reports, and advices, helping customers understand the transactions that have occurred in their accounts.

This topic contains the following subtopics:

- Create Transaction Code
  This topic describes the systematic instructions to configure transaction code details.
- View Transaction Code
  This topic describes the systematic instructions to view the list of configured transaction code.

1.46.1 Create Transaction Code

This topic describes the systematic instructions to configure transaction code details.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Transaction Code**.
2. Under **Transaction Code**, click **Create Transaction Code**.

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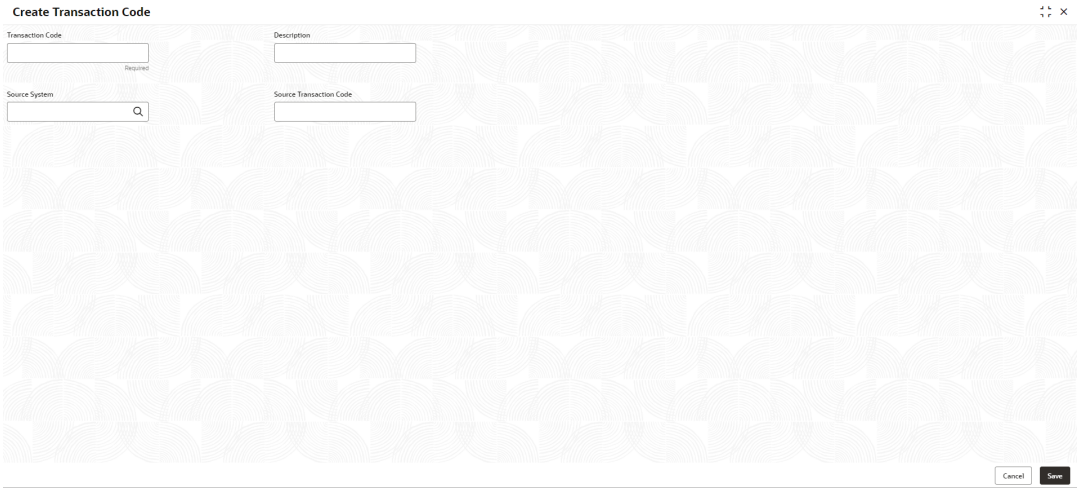
The **Create Transaction Code** screen is displayed.

Figure 1-101 Create Transaction Code



3. Specify the fields on the **Create Transaction Code** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 1-102 Create Transaction Code – Field Description

Field	Description
Transaction Code	Specify the transaction code details. The length of the transaction code field is 3 alpha numeric characters. For example, CWD, which stands for Cash Withdrawal.
Description	Specify the relevant description for the transaction code that helps customers to understand. For example, the transaction code CWD could be described as Cash Withdrawal.
Source System	Click **Search** icon and select the required name of the external system. Banks might use a separate application for managing transaction codes. If so, each transaction code in the external system must be mapped to the transaction codes in this application.
Source Transaction Code	Specify the transaction code maintained in the application referenced in the source system field.

4. Perform one of the following action:
   - Click **Save** to save the details.
     The transaction code is successfully created and can be viewed using the View Transaction Code screen.
   - Click **Cancel** to discard the changes and close the screen.

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1.46.2 View Transaction Code

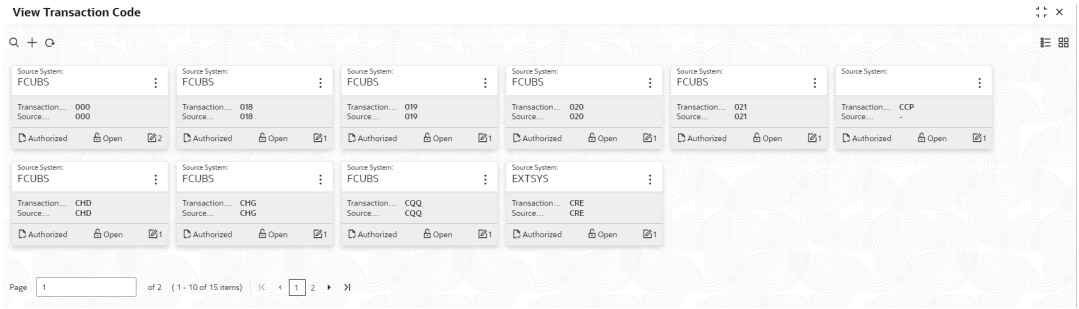
This topic describes the systematic instructions to view the list of configured transaction code.

The user can configure transaction code using Create Transaction Code screen.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Transaction Code**.
2. Under **Transaction Code**, click **View Transaction Code**.

   The **View Transaction Code** screen is displayed.

Figure 1-102 View Transaction Code



For more information on fields, refer to the field description table.

Table 1-103 View Transaction Code – Field Description

Field	Description
Source System	Displays the source system details.
Transaction Code	Displays the transaction code details.
Source Transaction Code	Displays the source transaction code associated with the transaction code.
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

1.47 Upload Source

Upload Source screen facilitates the maintenance of external systems like Oracle Digital Banking Experience, Oracle Banking Liquidity Management, and so on which can send transactions data to the common core.

This topic contains the following subtopics:

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- Create Upload Source
  This topic describes the systematic instructions to create upload source.
- View Upload Source
  This topic describes the systematic instructions to view the list of configured source code.

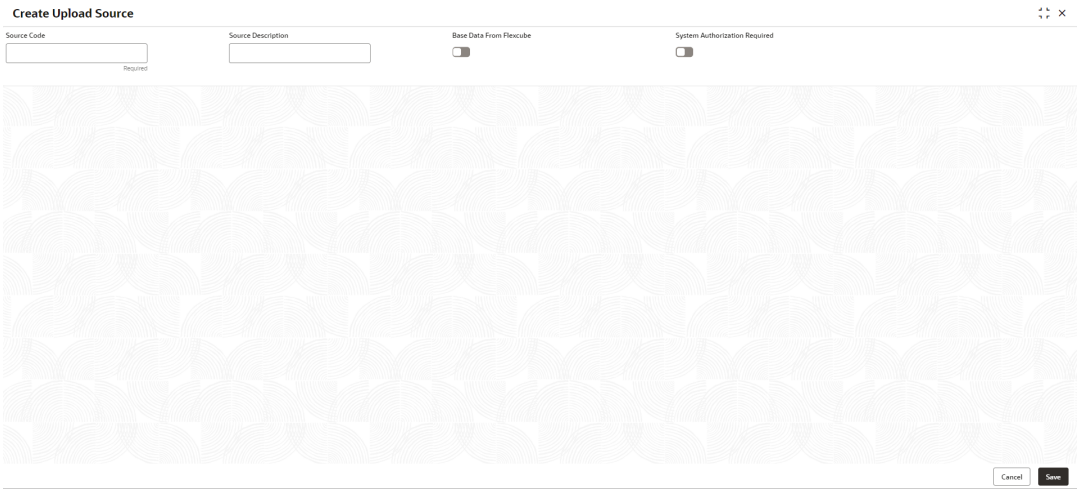
1.47.1 Create Upload Source

This topic describes the systematic instructions to create upload source.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Upload Source**.
2. Under **Upload Source**, click **Create Upload Source**.

   The **Create Upload Source** screen is displayed.

Figure 1-103 Create Upload Source



3. Specify the fields on the **Create Upload Source** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 1-104 Create Upload Source – Field Description

Field	Description
Source Code	Specify the source code. This is a unique code created to identify for the external systems. **Note**: Source Code with OBRACC should not be created.
Source Description	Specify a brief description about the external system.
Base Data from Flexcube	Click the toggle to allow base data to come from Oracle Banking FLEXCUBE. By default, this is disabled.

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Table 1-104 (Cont.) Create Upload Source – Field Description

Field	Description
System Authorization Required	Click the toggle to set whether transactions from a specific external system (Source code) need authorization. By default, this is disabled.

4. Perform one of the following action:
   - Click **Save** to save the details.
     The upload source is successfully created and can be viewed using the View Upload Source screen.
   - Click **Cancel** to discard the changes and close the screen.

1.47.2 View Upload Source

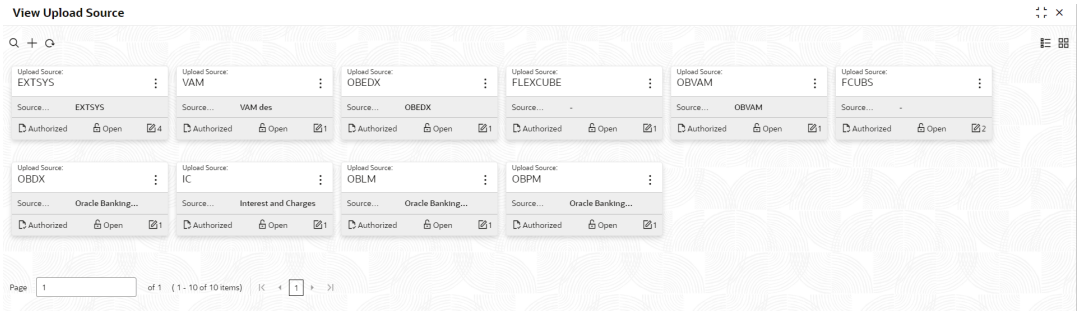
This topic describes the systematic instructions to view the list of configured source code.

The user can configure upload source using Create Upload Source screen.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Upload Source**.
2. Under **Upload Source**, click **View Upload Source**.

   The **View Upload Source** screen is displayed.

Figure 1-104 View Upload Source



For more information on fields, refer to the field description table.

Table 1-105 View Upload Source – Field Description

Field	Description
Source Code	Specify the source code. This is a unique code created to identify for the external systems.
Source Description	Specify a brief description about the external system.
Base data from Flexcube	This indicates whether Oracle Banking FLEXCUBE is the source of the base data. **Note**: By default, this is disabled.
System Authorization Required	This indicates whether transactions coming from specified external system (Source code) require authorization.

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1.48 Upload Source Preference

Upload Source Preference can set preferences for upload of a data from an external source. Example an external exchange rate source is sending exchange rates to the common core system.

This topic contains the following subtopics:

- Create Upload Source Preference
  This topic describes the systematic instructions to configure upload source preference.
- View Upload Source Preference
  This topic describes the systematic instructions to view the list of configured upload source preferences.

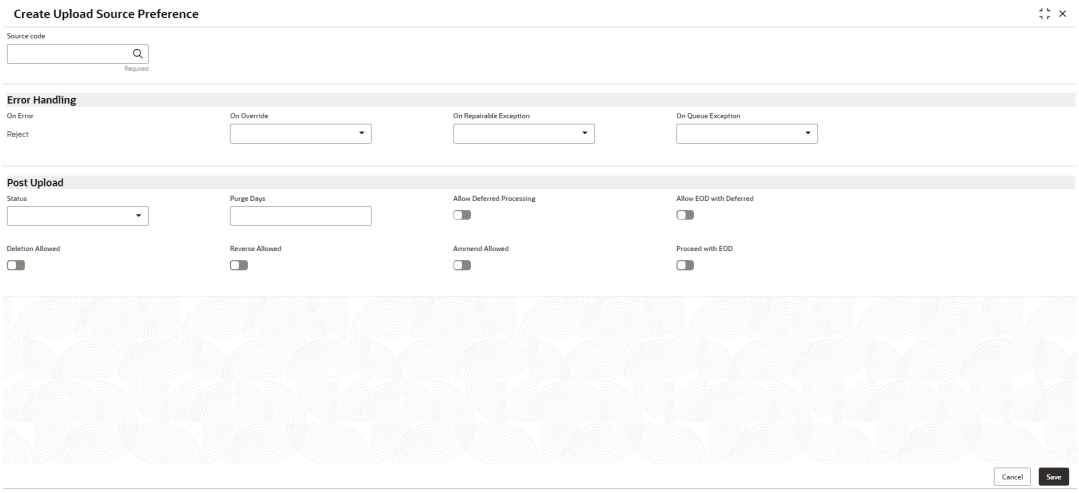
1.48.1 Create Upload Source Preference

This topic describes the systematic instructions to configure upload source preference.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Upload Source Preference**.
2. Under **Upload Source Preference**, click **Create Upload Source Preference**.

   The **Create Upload Source Preference** screen is displayed.

Figure 1-105 Create Upload Source Preference



3. Specify the fields on the **Create Upload Source Preference** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

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Table 1-106 Create Upload Source Preference – Field Description

Field	Description
Source Code	Click **Search** icon to view and select the required source code. **Note**: Source Code with OBRACC should not be created.
On Error	Defaulted to reject.
On Override	System generates override messages in case it encounters any discrepancies during data upload. Select any of the following: • **Ignore**: Select this option to ignore such error messages and continue with the upload process. • **Override**: Select this option to log the override and proceed with the upload process. • **Reject**: Select this option to reject the record.
On Repairable Exception	In case a serious error occurs during data upload, the system generates an error message. Select **Reject** to reject a record.
On Queue Exception	Select the queue exception from the drop-down list.
Post Upload	Specify the fields.
Status	Select a status from the drop-down list. You can perform the following: • Select **Authorize** to automatically authorize the data that is uploaded into the system. • Select **Unauthorized** to un-authorize a record. The record will not be authorized automatically on upload. You have to manually authorize the data.
Purge Days	Specify the purging days if the purging of the data uploaded is required.
Allow Deferred Processing	Click the toggle to enable deferred upload source preference processing. By default, this is disabled.
Allow EOD with Deferred	Click the toggle to enable deferred EOD processing. By default, this is disabled.
Deletion Allowed	Click the toggle to enable deleting the upload source preferences. Check this option to delete the process log. By default, this is disabled.
Reverse Allowed	Click the toggle to enable reversing the upload source preferences. By default, this is disabled.
Amend Allowed	Click the toggle to enable amending the upload source preferences. By default, this is disabled.
Proceed with EOD	Click the toggle to enable EOD processing. By default, this is disabled.

4. Perform one of the following action:
   - Click **Save** to save the details.
     The upload source preference is successfully created and can be viewed using the View Upload Source Preference screen.
   - Click **Cancel** to discard the changes and close the screen.

1.48.2 View Upload Source Preference

This topic describes the systematic instructions to view the list of configured upload source preferences.

The user can configure upload source preference using Create Upload Source Preference screen.

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1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Upload Source Preference**.
2. Under **Upload Source Preference**, click **View Upload Source Preference**.

   The **View Upload Source Preference** screen is displayed.

Figure 1-106 View Upload Source Preference

For more information on fields, refer to the field description table.

Table 1-107 View Upload Source Preference – Field Description

Field	Description
Source Code	Click **Search** icon and select a source code maintained. Depending on the source code selection, the data is uploaded from that source into.
Status	Displays the status of the post upload.
Purge Days	Specify the days maintained for purging of the data uploaded.
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

1.49 Limits and Collaterals

This section contains the details of the limits and collaterals data that are replicated from the ELCM system.

This topic contains the following subtopics:

- View Liability Summary
  This topic describes the systematic instructions to view the list of authorized liabilities and liability allowed customer linkages from the ELCM system.
- View Facility Summary
  This topic describes the systematic instructions to view the list of authorized facilities from the ELCM system.

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- View Collaterals Summary
  This topic describes the systematic instructions to view the list of authorized collaterals from the ELCM system.
- View Liability Customer Summary
  This topic describes the systematic instructions to view the list of authorized liability customer linkages from the ELCM system.
- View Collaterals Pool Summary
  This topic describes the systematic instructions to view the list of authorized collateral pool from the ELCM system.
- Data Retrieval from Limits Collaterals System
- Initial data replication from ELCM to common core
  This section lists down the endpoints which can be used for initial data replication from ELCM to common core.

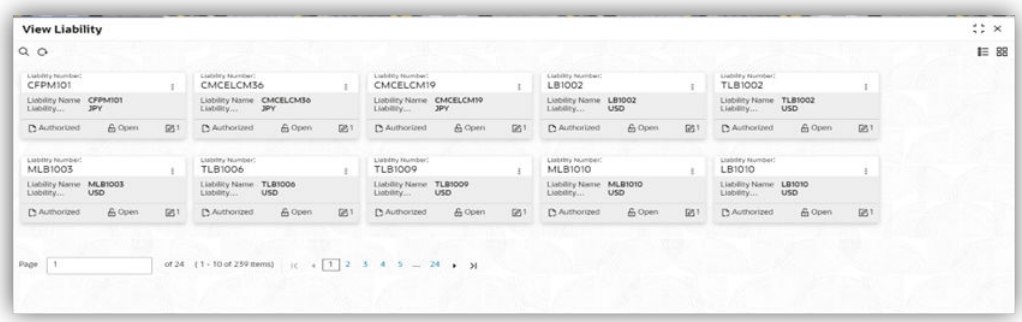
1.49.1 View Liability Summary

This topic describes the systematic instructions to view the list of authorized liabilities and liability allowed customer linkages from the ELCM system.

1. From **Home** screen, click **Core Maintenance**, under **Core Maintenance**, click **Limits and Collaterals**.
2. Under **Liability**, click **View Liability**.

   The **View Liability** summary screen is displayed.

Figure 1-107 View Liability



For more information on fields, refer to the field description table.

Table 1-108 View Liability - Field Description

Field	Description
Liability Number	Displays the liability number.
Liability Name	Displays the liability name.
Liability Branch	Displays the liability branch.
Liability Currency	Displays the liability currency.
Main Liability ID	Displays the main liability ID.

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Table 1-108 (Cont.) View Liability - Field Description

Field	Description
Revision Date	Displays the revision date of the liability.
Credit Rating	Displays the credit rating.
Overall Limit	Displays the overall limit.
Source System	Displays the source system of the liability.
Source System Liability Number	Displays the source system liability number.
Utilization Amount	Displays the utilization amount.
Block Amount	Displays the block amount.
Availability Flag	Displays the availability flag.
Liability Expiry Date	Displays the liability expiry date.
Customer Number	Displays the customer numbers tagged to the liability.
Default Liability	Displays the default liability.

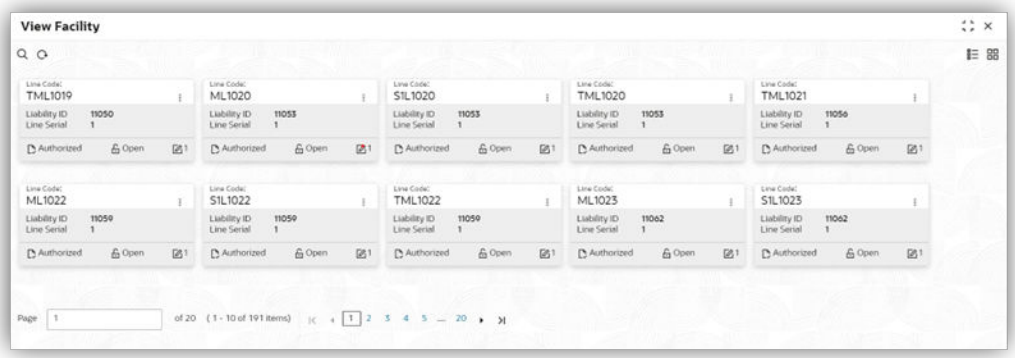
1.49.2 View Facility Summary

This topic describes the systematic instructions to view the list of authorized facilities from the ELCM system.

1. From **Home** screen, click **Core Maintenance**, under **Core Maintenance**, click **Limits and Collaterals**.
2. Under **Facility**, click **View Facility**.

   The **View Facility** summary screen is displayed.

Figure 1-108 View Facility



For more information on fields, refer to the field description table.

Table 1-109 View Facility - Field Description

Field	Description
Liability ID	Displays the liability Id.

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Table 1-109 (Cont.) View Facility - Field Description

Field	Description
Line Code	Displays the line code.
Line Serial	Displays the line serial.
Host Code	Displays the host code.
Source System	Displays the source system.
Source System Liab ID	Displays the source system liability Id.
Main Line ID	Displays the main line Id.
Line Currency	Displays the line currency.
Line Start Date	Displays the line start date.
Line Expiry Date	Displays the line expiry date.
Availability Flag	Displays the availability flag.
Booking Date	Displays the booking date.
Interest Calculated Account	Displays the interest calculated account.
Limit Amount Basis	Displays the limit amount basis.
Interest Required	Displays the interest required.
Limit Amount	Displays the limit amount.
Collateral Contribution	Displays the collateral contribution.
Liability Branch	Displays the liability branch.
Branch	Displays the base branch.
Description	Displays the description.
Commitment Reference Number	Displays the commitment reference number.
Commitment Settle Branch	Displays the commitment settle branch.
Commitment Settle Account	Displays the commitment settle account.
Facility Type	Displays the facility type.
PPC Reference Number	Displays the PPC reference number.
PPC Project ID	Displays the PPC Project Id.
DSP Effective Line Amount	Displays the effective line amount.
Bulk PMT Required	Displays the bulk payment required.
Source System Line Code	Displays the source system line code.
Source System Line Serial	Displays the source system line serial.
Unadvised	Displays the unadvised value.
Revolving Line	Displays the revolving line.
Transfer Amount	Displays the transfer amount.
Block Amount	Displays the block amount.
Liability Number	Displays the liability number.
Util Amount	Displays the utilization amount.
Approved Amount	Displays the approved amount.

1.49.3 View Collaterals Summary

This topic describes the systematic instructions to view the list of authorized collaterals from the ELCM system.

1. From **Home** screen, click **Core Maintenance**, under **Core Maintenance**, click **Limits and Collaterals**.

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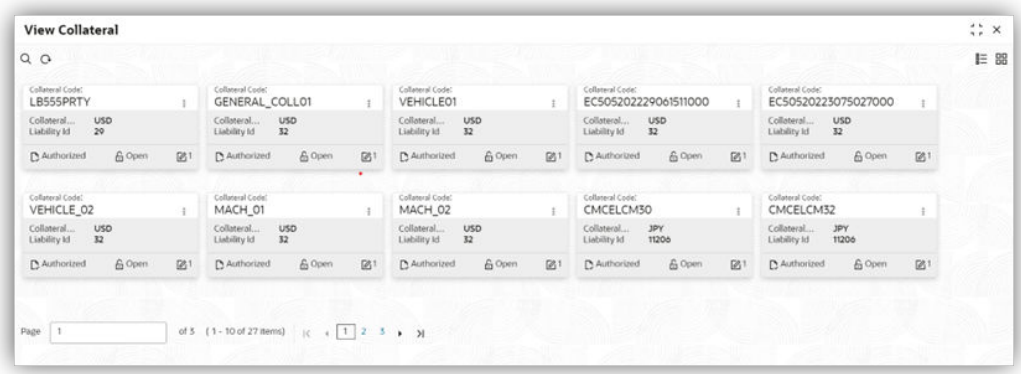
2. Under **Collaterals**, click **View Collaterals**.

   The **View Collaterals** summary screen is displayed.

Figure 1-109 View Collaterals



For more information on fields, refer to the field description table.

Table 1-110 View Collaterals - Field Description

Field	Description
Liability ID	Displays the liability Id.
Collateral Code	Displays the collateral code.
Description	Displays the collateral description.
Collateral Currency	Displays the collateral currency.
Collateral Value	Displays the collateral value.
Limit Contribution	Displays the limit contribution.
Host Code	Displays the host code.
Source System	Displays the source system of the liability.
Source System Liability Number	Displays the source system liability number.
Utilization Amount	Displays the utilization amount.
Block Amount	Displays the block amount.
Start Date	Displays the start date.
End Date	Displays the end date.
Taken Over	Displays the taken over.
Interest Rate	Displays the interest rate.
Available	Displays the availability.
Branch Code	Displays the branch code.
Liability Branch	Displays the liability branch.
Customer Number	Displays the customer number tagged to the collateral.
Collateral Type	Displays the collateral type.
Source System Collateral Code	Displays the source system collateral code.
Haircut	Displays the haircut valued.

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Table 1-110 (Cont.) View Collaterals - Field Description

Field	Description
Collateral Category	Displays the collateral category.

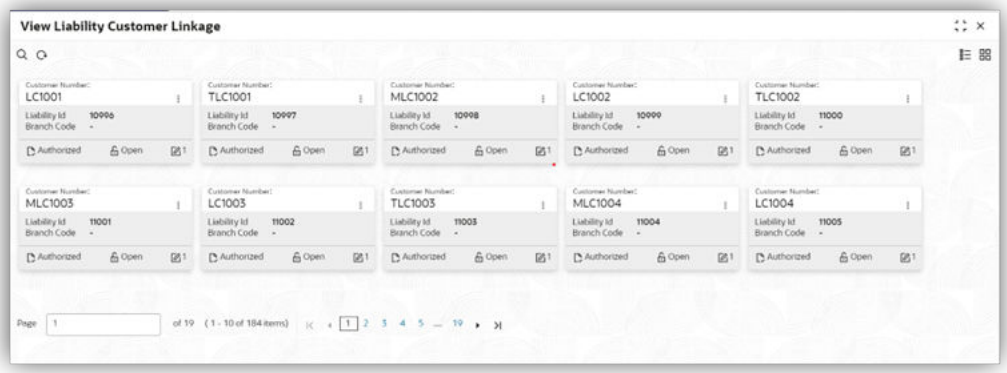
1.49.4 View Liability Customer Summary

This topic describes the systematic instructions to view the list of authorized liability customer linkages from the ELCM system.

1. From **Home** screen, click **Core Maintenance**, under **Core Maintenance**, click **Limits and Collaterals**.
2. Under **Liability Customer**, click **View Liability Customer Linkage**.

   The **View Liability Customer Linkage** summary screen is displayed.

Figure 1-110 View Liability Customer Linkage



For more information on fields, refer to the field description table.

Table 1-111 View Liability Customer Linkage - Field Description

Field	Description
Branch Code	Displays the branch code.
Customer Number	Displays the customer number.
Liability ID	Displays the liability Id.
Host Code	Displays the host code.
Source System	Displays the source system.
Source System Liability ID	Displays the source system liability Id.
Source System Customer Number	Displays the source system customer number.

1.49.5 View Collaterals Pool Summary

This topic describes the systematic instructions to view the list of authorized collateral pool from the ELCM system.

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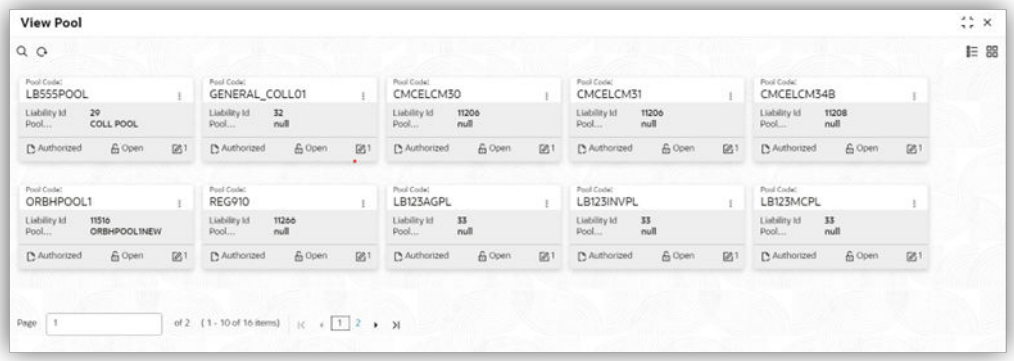
1. From **Home** screen, click **Core Maintenance**, under **Core Maintenance**, click **Limits and Collaterals**.
2. Under **Collaterals Pool**, click **View Pool**.

   The **View Pool** summary screen is displayed.

Figure 1-111 View Pool



For more information on fields, refer to the field description table.

Table 1-112 View Pool - Field Description

Field	Description
Branch Code	Displays the branch code.
Pool Code	Displays the collateral pool code.
Liability ID	Displays the liability Id.
Host Code	Displays the host code.
Source System	Displays the source system.
Source System Liability ID	Displays the source system liability Id.
Source System Pool code	Displays the source system pool code.
Pool Description	Displays the pool description.
Pool Currency	Displays the pool currency.
Pool Amount	Displays the pool amount.
Liability branch	Displays the liability branch.
Util amount	Displays the utilization amount.
Block amount	Displays the block amount.

1.49.6 Data Retrieval from Limits Collaterals System

List of endpoints to retrieve data

This section lists down the endpoints that are available for other product processors to retrieve the data from limits collateral services. These services gives the data based on the query parameters passed.

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Domain	Endpoint	Parameters to be passed
Liability	/web/v1/liability/fetchLiabilityByParams	Mandatory parameter : Customer Number Optional parameters : Liability Number , Liability Currency , Liability Id, Record Status
Facility	/web/v1/facility/fetchByParams	Mandatory parameter : Customer Number Optional parameters : Liability Number , Line code , Line Description , Record status
Collaterals	/web/v1/collaterals/fetchByParams	Mandatory parameter : Customer Number Optional parameters : Liability Number , Collateral code , Line Description , Record status
Collaterals Pool	/web/v1/pool/fetchByParams	Mandatory parameter : Customer Number Optional parameters : Liability Number , Pool code , Record status

1.49.7 Initial data replication from ELCM to common core

This section lists down the endpoints which can be used for initial data replication from ELCM to common core.

List of endpoints for initial data replication

The REST services picks up all the authorized records from the ELCM system and creates them in the common core system via OBRH. The end points used for initial data replication are listed below.

Domain	Endpoint
Liability	FCUBS - ELCMRest/ELObmaReplicationService/CreateBulkLiability
Facility	FCUBS - ELCMRest/ELObmaReplicationService/CreateBulkFacility
Collaterals	FCUBS - ELCMRest/ELObmaReplicationService/CreateBulkCollaterals
Collaterals Pool	FCUBS - ELCMRest/ELObmaReplicationService/CreateBulkPool
Liability Customer Linkage	FCUBS - ELCMRest/ELObmaReplicationService/CreateBulkLiabCust

1.50 Track Receivable Priority Code

This topic describes the information to configure Priority Code.

These Priority Codes define the specific sequence in which the system fulfills outstanding receivables.

This topic contains the following subtopics:

- Create Track Receivable Priority Code
  This topic describes the systematic instructions to configure Priority Code.
- Seed Data for Source Table Name
  This topic describes about the seed data for source table name.

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- Transformation for FLAT_MAPPING (Computed Facts)
  This topic describes about the Transformation for FLAT_MAPPING (Computed Facts).
- View Track Receivable Priority Code
  This topic describes the systematic instructions to view the Priority Code.

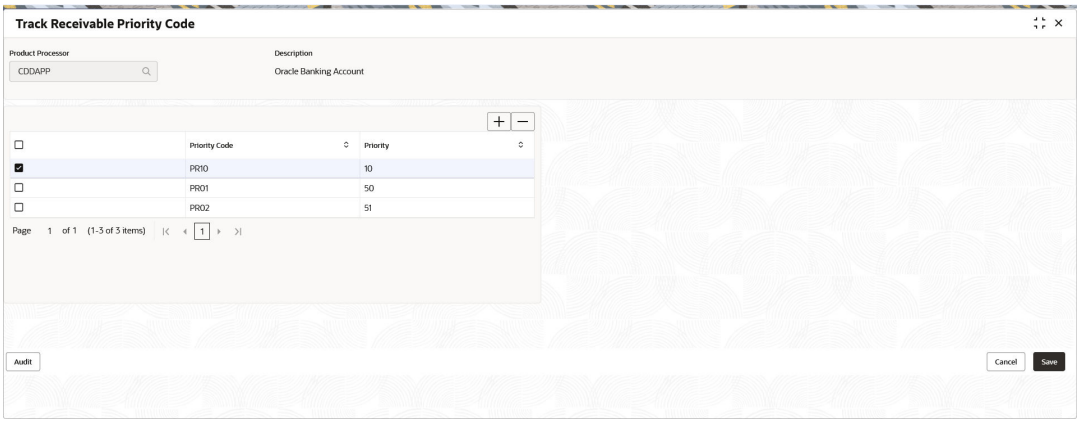
1.50.1 Create Track Receivable Priority Code

This topic describes the systematic instructions to configure Priority Code.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Track Receivable Priority Code**.
2. Under **Track Receivable Priority Code**, click **Create Track Receivable Priority Code**.

   The **Create Track Receivable Priority Code** screen is displayed.

Figure 1-112 Create Track Receivable Priority Code



3. Specify the fields on the **Create Track Receivable Priority Code** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 1-113 Create Track Receivable Priority Code – Field Description

Field	Description
Product Processor	Select the product processor from the drop-down list. Each product processor (example, OBCL, OBRL, TF) is responsible for associating the relevant priority codes to their respective: Products, Components, or A combination of both.
Description	Displays the description of the selected product processor.
Priority Code	Specify the unique priority code for the selected product processor. **Note**: A single priority code can be linked to multiple products (example, PR02 can be linked to Interest and Charges).

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Table 1-113 (Cont.) Create Track Receivable Priority Code – Field Description

Field	Description
Priority	Specify the priority for the Priority Code. **Note** : This allows value between 00 to 99. And a lower numerical value denotes a higher settlement priority (example, '01' is processed before '10').

4. Perform one of the following action:
   - Click **Save** to save the details.
     The priority code is successfully created and can be viewed using the View Track Receivable Priority Code screen.
   - Click **Cancel** to discard the changes and close the screen.

1.50.2 Seed Data for Source Table Name

This topic describes about the seed data for source table name.

The list of “Source Table Name” for selection under the drop-down and the subsequent selection of each source table columns are controlled via SQL injection to the following tables under CMNCORE schema:

To add a new Source Table, User can make an entry as follows:

```
INSERT INTO RP_LOOKUP_DATA_STORE (ID, KEY, TYPE)
VALUES ('101', 'SCHEMAJNDI.YOURTABLENAME', 'TABLE_NAME');
```

Table 1-114 Source Table

Column	Comments
ID	Unique identifier of each row in the table.
KEY	Represents the source table along with the source jndi. (For example: If your Source schema has the following **jndi jdbc/MYDB** and your source table name is **MY_NEW_TABLE**, the value would be **MYDB.MY_NEW_TABLE**
TYPE	Represents the type of Key. Default the value as **TABLE_NAME** in this case.

To configure the columns of the source table, user can make the following entries.

```
Insert into RP_LOOKUP_VALUES_DATA_STORE (ID,VALUE,RP_LOOKUP_DATA_STORE_ID)
values ('UUID_UNIQUE_1','COLUMN_NAME_1','UUID_UNIQUE');
Insert into RP_LOOKUP_VALUES_DATA_STORE (ID,VALUE,RP_LOOKUP_DATA_STORE_ID)
values ('UUID_UNIQUE_2','COLUMN_NAME_2','UUID_UNIQUE');
Insert into RP_LOOKUP_VALUES_DATA_STORE (ID,VALUE,RP_LOOKUP_DATA_STORE_ID)
values ('UUID_UNIQUE_3','COLUMN_NAME_3','UUID_UNIQUE');
Insert into RP_LOOKUP_VALUES_DATA_STORE (ID,VALUE,RP_LOOKUP_DATA_STORE_ID)
values ('UUID_UNIQUE_4','COLUMN_NAME_4','UUID_UNIQUE');
Insert into RP_LOOKUP_VALUES_DATA_STORE (ID,VALUE,RP_LOOKUP_DATA_STORE_ID)
values ('UUID_UNIQUE_5','COLUMN_NAME_5','UUID_UNIQUE');
Insert into RP_LOOKUP_VALUES_DATA_STORE (ID,VALUE,RP_LOOKUP_DATA_STORE_ID)
values ('UUID_UNIQUE_6','COLUMN_NAME_6','UUID_UNIQUE');
```


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Table 1-115 Source Table

Column	Comments
ID	Unique identifier of each row in the table.
VALUE	
RP_LOOKUP_DATA_STORE_ID	

1.50.3 Transformation for FLAT_MAPPING (Computed Facts)

This topic describes about the Transformation for FLAT_MAPPING (Computed Facts).

This topic describes the behavior when transformation is enabled for a **FLAT_MAPPING** entry. In standard flat mapping, the destination fact value is populated directly from the transported source table row. In transformation-enabled flat mapping, the destination fact value is derived by executing a configured SQL query and storing the computed result in the destination facts table.

When is transformation applied?

Transformation is applied only when all of the following conditions are met:

- The mapping Transformation Configuration Type is **FLAT_MAPPING**.
- A Transformation Class is configured for the mapping.

How is the fact value derived?

When transformation is enabled:

1. The system identifies the destination fact from the flat mapping (Value field).
   Example: cutoffLiabBal, todayLiabBal. either by:
2. The system resolves a transformation query using the destination fact identifier in the format: <EntityName>.<factName>

   Example: Party.cutoffLiabBal.
3. The transformation class executes the resolved query and obtains the computed result. (<ENTITY>_FACTS),
4. The computed result is persisted as the destination fact value in the destination facts table
   - inserting a new fact row when the fact does not exist for the entity instance, or
   - updating the existing fact row when the fact is already present.

Seed table for transformation queries

The transformation query is maintained in a seed table which maps a destination fact identifier to the SQL query to be executed.

Table name : "CMNCORE"."TRANSPORT_FACT_QUERY_MAPPING"

Table 1-116 Transport Fact Query Mapping - Field Description

Field	Description
Fact	Specifies the destination fact identifier in the format <Entity>.<factName>. Example: Party.cutoffLiabBal.

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Table 1-116 (Cont.) Transport Fact Query Mapping - Field Description

Field	Description

Query	Specifies the SQL query used to derive the fact value. The query must return a single computed value (for example, an aggregate amount) which is stored as the fact value during augmentation.
	Example Query :
	
	`SELECT SUM(JSON_VALUE(a.FACT_DATA, '$.cutofBalance' RETURNING NUMBER))`
	`AS total_amount FROM PARTY_FACTS p, ACCOUNT_FACTS a WHERE a.PARTY_ID = :CUSTOMER_NO and p.PARTY_ID = a.PARTY_ID GROUP BY a.PARTY_ID`

Note

- The query can contain bind parameters (for example : CUSTOMER_NO). These parameters are populated during batch execution using the relevant values from the transported source row and mapping configuration.
- The transformation class is system-provided and is displayed as a read-only value in the UI when transformation is enabled.

1.50.4 View Track Receivable Priority Code

This topic describes the systematic instructions to view the Priority Code.

The user can configure the Priority Code using the Create Track Receivable Priority Code screen. The status of the created priority code is displayed as Unauthorized and Open. Once the checker authorizes the priority code, the status is updated to Authorized and Open.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Track Receivable Priority Code**.
2. Under **Track Receivable Priority Code**, click **View Track Receivable Priority Code**.

   The **View Track Receivable Priority Code** screen is displayed.

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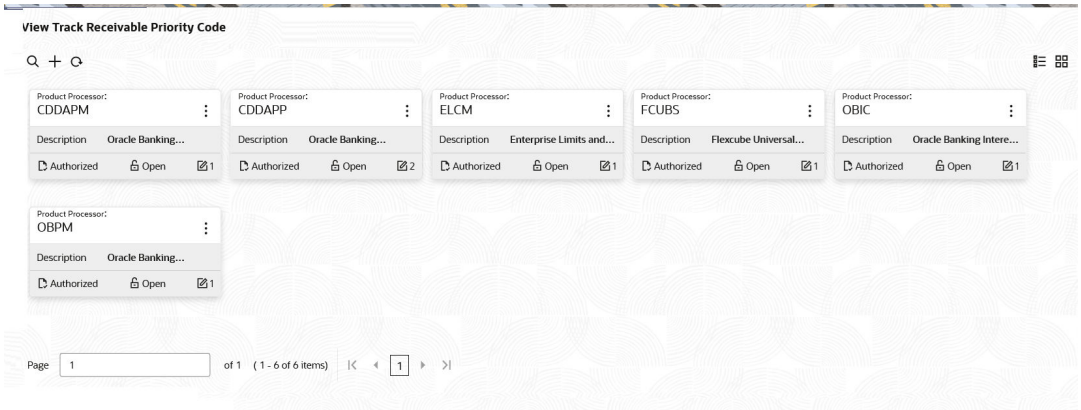
Figure 1-113 View Track Receivable Priority Code



For more information on fields, refer to the field description table.

Table 1-117 View Track Receivable Priority Code - Field Description

Field	Description
Product Processor	Displays the product processor.
Description	Displays the description of the selected product processor.
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

3. On the **View Track Receivable Priority Code** screen, click ⋮ icon to **Unlock**, **Delete**, **Authorize**, **Copy** or **View** the created Priority Code.
4. Click **Unlock** to modify the created priority code.

   The **Track Receivable Priority Code - Modify** screen is displayed.

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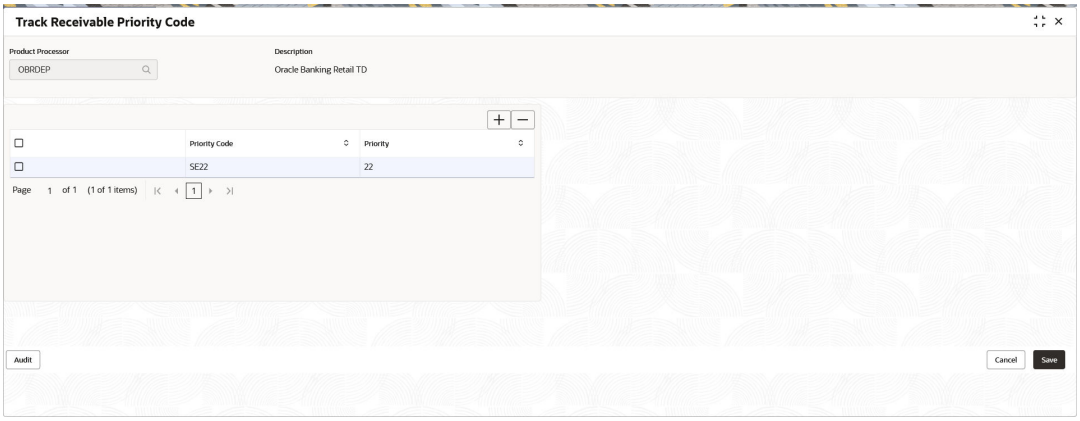
Figure 1-114 Track Receivable Priority Code - Modify



For more information on fields, refer to the field description table.

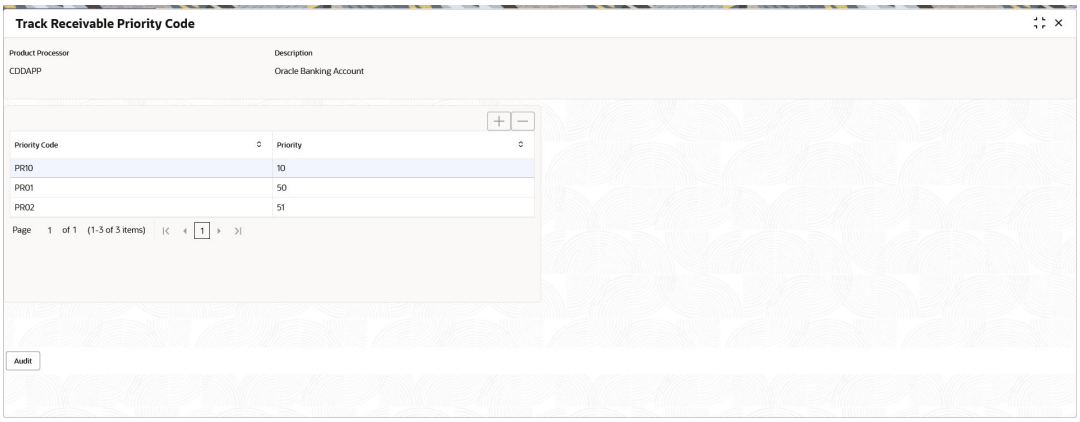
Table 1-118 Track Receivable Priority Code – Modify - Field Description

Field	Description
Product Processor	Displays the product processor.
Description	Displays the description of the selected product processor.
Priority Code	Specify the unique priority code for the selected product processor. **Note**: A single priority code can be linked to multiple products (example, PR02 can be linked to Interest and Charges).
Priority	Specify the priority for the Priority Code. **Note** : This allows value between 00 to 99. And a lower numerical value denotes a higher settlement priority (example, '01' is processed before '10').

5. Click **Save** to save the details.
6. Click **View** to view the created priority code.

   The **Track Receivable Priority Code - View** screen is displayed.

Figure 1-115 View Track Receivable Priority Code -Details



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For more information on fields, refer to the field description table.

Table 1-119 Track Receivable Priority Code - View - Field Description

Field	Description
Product Processor	Displays the product processor.
Description	Displays the description of the selected product processor.
Priority Code	Displays the unique priority code for the selected product processor.
Priority	Displays the priority for the Priority Code.

1.51 Customer Address Details

This topic describes the information of a customer address.

This supports the creation and viewing of customer information in a centralized location within the Oracle Banking Microservices Architecture framework. It stores the various addresses available for a customer, in compliance with the SWIFT format for Structured Address Formats, Hybrid Address and Unstructured Address Formats.

This topic contains the following subtopics:

- Create Customer Address
  This topic describes the systematic instructions to configure the customer address.
- View Customer Address
  This topic describes the systematic instructions to view the list of customer address.

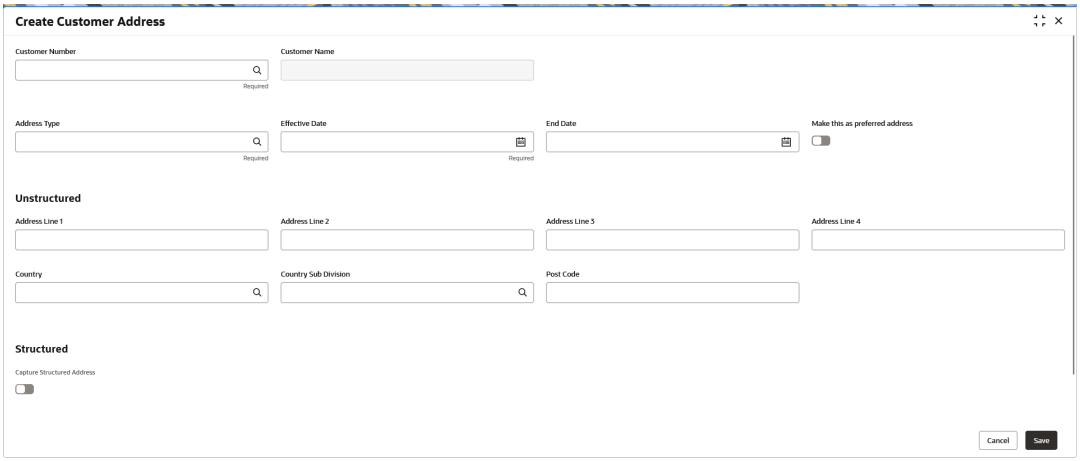
1.51.1 Create Customer Address

This topic describes the systematic instructions to configure the customer address.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Customer Address Details**.
2. Under **Customer Address Details**, click **Create Customer Address**.

   The **Create Customer Address** screen is displayed.
3. Specify the fields on the **Create Customer Address** screen.

Figure 1-116 Create Customer Address



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> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 1-120 Create Customer Address – Field Description

Field	Description
Customer Number	Click **Search** icon to view and select the required customer number.
Customer Name	Displays the customer's name based on the selected **Customer Number**.
Address Type	Click **Search** icon to view and select the required Address Type.
Effective Date	Select the date from which the address becomes effective from the calendar.
End Date	Select the date until which the address is valid.
Make this as preferred address	Toggle to make address, the default/preferred address for communication.
Unstructured	Section to capture details of unstructured address.
Address Line 1	Specify the primary address information of the customer or entity. It typically includes the street address, apartment number, suite, or any other pertinent details necessary to locate the physical location.
Address Line 2	Specify the supplementary address details such as building name, floor, or unit number to further refine the primary location provided in Address Line 1.
Address Line 3	Specify the landmarks or delivery instructions to further specify the customer's address.
Address Line 4	Specify the delivery instructions, reference points, or other pertinent information that helps clarify the customer's location.
Country	Select the standardized Country Code linked to the address. Click **Search** icon to view and select the required country.
Country Sub Division	Select from the list of State Codes mapped to the country. Click **Search** icon to view and select the required country sub division.
Post Code	The postal or ZIP code associated with the address. It helps in identifying the precise location of the address and facilitates accurate sorting and routing of mail and packages.
Structured Capture Structured Address	Toggle to capture the address of the party in a standardized (ISOcompliant) structured format. Switch the toggle to ON to enable the configuration section below.
Department	Specify the name of a division of a large organization or building.
Sub Department	Specify the name of a sub-division of a large organization or building.
Street Name	Specify the name of a street or thoroughfare.
Building Number	Specify the number or the number that identifies the position, of a building on a street.
Building Name	Specify the name of the building or house.
Floor	Specify the floor within a building.
Post Box	Specify the designated post office box number assigned to a person or organization, where letters are kept until called for (P.O. Box Number).

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Table 1-120 (Cont.) Create Customer Address – Field Description

Field	Description
Room	Specify the specific room or suite number associated with the address.
Post Code	Specify the numerical or alphanumeric code assigned to a specific geographic area for the efficient mail delivery. It helps in identifying the precise location of the address and facilitates accurate sorting and routing of mail and packages.
Town Name	Specify the name of a built-up area, with defined boundaries, and a local government.
Town Location Name	Specify the town, locality, or neighborhood where the address is situated.
District Name	Specify the district or administrative division where the provided address is located.
Country	Specify the standardized code representing the country linked to the address. Click **Search** icon to view and select the required country.
Country Sub Division	Specify the state, province, or region of the provided address. List of states is populated based on selected country. Click **Search** icon to view and select the required country sub division
Address Line 1	Specify the primary address information of the customer or entity. It typically includes the street address, apartment number, suite, or any other pertinent details necessary to locate the physical location.
Address Line 2	Specify the supplementary address information, such as building name, floor, unit number, or additional details that further specify the location indicated in address line 1.

4. Perform one of the following action:
   - Click **Save** to save the details.
     The Customer Address is successfully created and can be viewed using the View Customer Address screen.
   - Click **Cancel** to discard the changes and close the screen.

1.51.2 View Customer Address

This topic describes the systematic instructions to view the list of customer address.

The user can configure customer address using Create Customer Address screen.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Customer Address Details**.
2. Under **Customer Address Details**, click **View Customer Address**.

   The **View Customer Address** screen is displayed.

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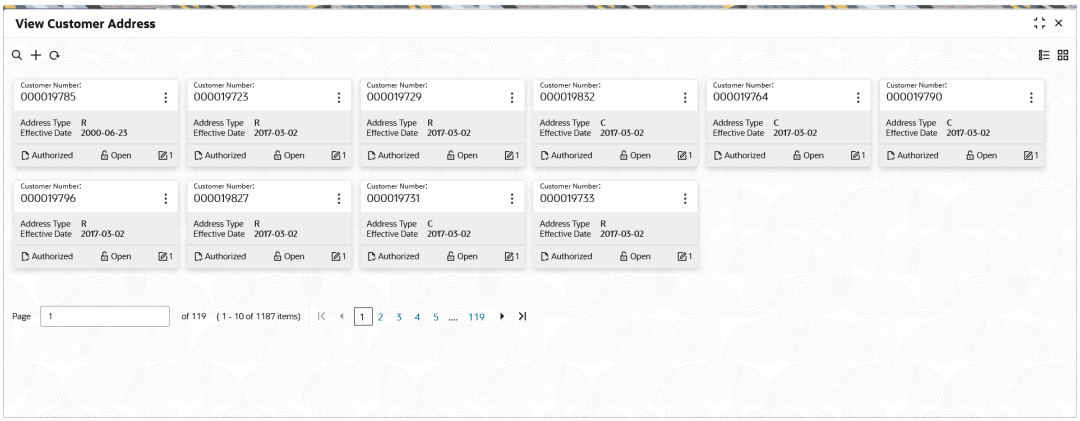
Figure 1-117 View Customer Address



For more information on fields, refer to the field description table.

Table 1-121 View Customer Address– Field Description

Field	Description
Customer Number	Displays the customer number.
Address Type	Displays the address type.
Effective Date	Displays the date from which the address becomes effective.
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

3. On the **View Customer Address** screen, click ⋮ icon to **Unlock**, **Delete**, **Authorize**, **Copy** or **View** the created customer address.

1.52 Address Type

This topic describes the information to configure an address types.

This screen manages the various types of addresses a bank intends to use for the customer (Example, Home, Office, etc.). Users can create address types as needed to support specific use cases. These maintained address types will be available in the LOV of Customer Address screen, to choose and maintain address accordingly.

An indicative list of address types are as follows:

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Table 1-122 Address Types

Sl	Address Type	Description
1	Home	Residential address where a customer lives
2	Work	The location of a customer employer or workplace
3	Office	Business address of a company or an individual's job location
4	Billing	Address where invoices are sent.
5	Shipping	Address designated for receiving deliveries or goods ordered.
6	Mailing	The preferred address for general correspondence or mail
7	Temporary	An address where a customer resides for a limited period
8	Seasonal	An address used during specific times of the year
9	Primary	The main address associated with an account or individual
10	Secondary	An additional address, used if the primary address is unavailable or for alternate purposes.
11	Legal	The address officially registered for legal correspondence, compliance, or statutory notices.
12	Registered	The address at which an entity is officially registered and recognized by authorities.
13	PO Box	A postal box address provided by a post office for receiving mail
14	Emergency Contact	The address of a person to contact in case of emergency.
15	Branch Office	The address of a subsidiary or secondary office within an organization's network.
16	Head Office	The main corporate address for an organization
17	Registered Office	The official address of an incorporated company

The list above is intended for address type identification only.

Users may close any unwanted address types. But once an address is used for an active address maintenance, it's not allowed to be closed.

This topic contains the following subtopics:

- Create Address Type
  This topic describes the systematic instructions to configure the address type.
- View Address Type
  This topic describes the systematic instructions to view the list of address types.

1.52.1 Create Address Type

This topic describes the systematic instructions to configure the address type.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Address Type**.
2. Under **Address Type**, click **Create Address Type**.

   The **Create Address Type** screen is displayed.
3. Specify the fields on the **Create Address Type** screen.

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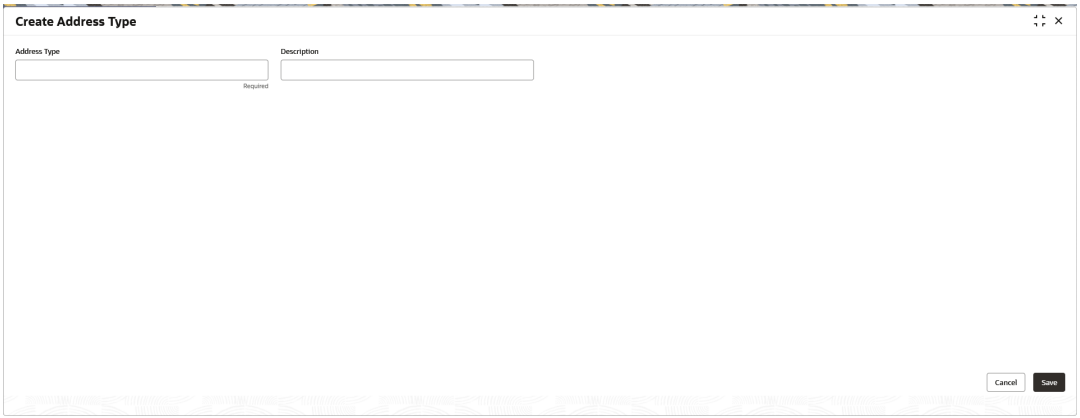
Figure 1-118 Create Address Type



> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 1-123 Create Address Type– Field Description

Field	Description
Address Type	Specify the name of the type of address example Residential.
Description	Specify the description of the address type.

4. Perform one of the following action:
   - Click **Save** to save the details.
     The Address type is successfully created and can be viewed using the View Address Type screen.
   - Click **Cancel** to discard the changes and close the screen.

1.52.2 View Address Type

This topic describes the systematic instructions to view the list of address types.

The user can configure address type using Create Address Type screen.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Address Type**.
2. Under **Address Type**, click **View Address Type**.

   The **View Address Type** screen is displayed.

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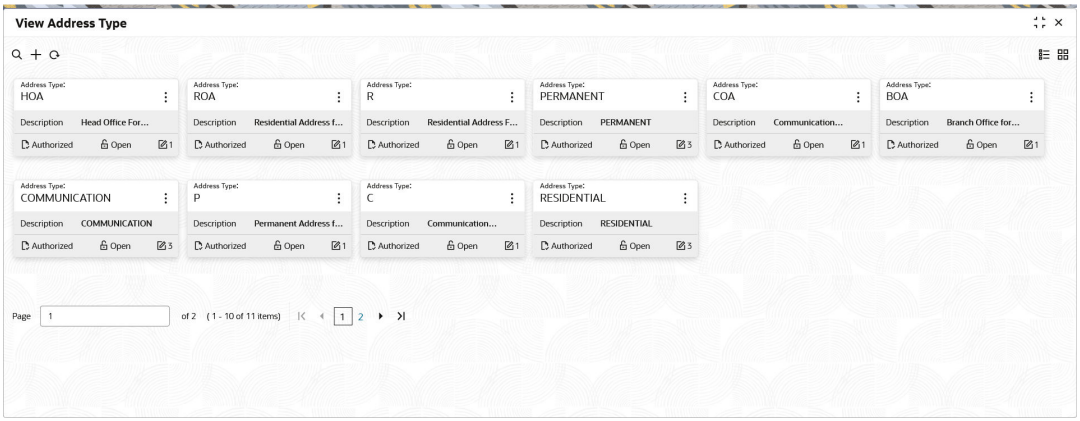
Figure 1-119 View Address Type



For more information on fields, refer to the field description table.

Table 1-124 View Address Type– Field Description

Field	Description
Address Type	Displays the indicative name of the type of address.
Description	Displays the description of the address type.
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

3. On the **View Address Type** screen, click ⋮ icon to **Unlock**, **Delete**, **Authorize**, **Copy** or **View** the created customer address.

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2
Bureau Integration Service

This topic provides the overview about the Bureau Integration Service.

This topic contains the following subtopics:

- Overview
  This topic describes the overview about the bureau integration service.
- System Parameter
  This topic describes the information about the system parameter configured in Bureau Integration service.
- Lookup
  This topic describes the information about the lookup feature in Bureau Integration service.
- Product Processor
  This topic describes the information about the product processor.
- Criteria
  This topic describes the information about the criteria to identify the Credit Bureau.
- Credit Bureau Display
  This topic describes the information about Credit Bureau display.
- Integrating Bureau Integration Service with Oracle Banking Routing Hub
  This topic describes the information to integrate the Bureau Integration service with Oracle Banking Routing Hub.

2.1 Overview

This topic describes the overview about the bureau integration service.

Bureau Integration Service facilitates financial institutions to send requests to the credit bureau agencies for credit scores and reports. It also facilitates viewing reports received from the bureaus.

The credit report presents the credit information of an individual or a company, which is fetched by credit bureaus from various financial institutions. It is a detailed report, which contains the history of borrowings, repayment routine, defaults, and delays. This report contains vital information about a customer's credit score, personal information, employment details, contact information, and details of accounts in various banks of a given geographical region. The objective of this report is to present the financial history of an individual or a company, which further helps a bank to take a decision on granting a loan based on the credit score of a company or an individual.

For requesting and receiving the credit reports, bureau integration service is integrated with the financial institution or the product processor.

The oracle banking routing hub facilitates routing and transforming the information between the product processor, the underlying integration service and the bureau. The flow is as follows:

1. The product processor requests bureau integration service for credit reports. It provides the required customer information for whom the report is requested.

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2. The routing hub transforms the data and forwards the request to the bureau integration service.
3. Once the integration service receives the request, the data is processed based on various criteria. The criteria contain the rules and facts of the product processor that are maintained in the rules engine.
4. Bureaus to be called are identified based on evaluation of the rules.
5. The integration service then sends the request to the routing hub, which transforms the data and sends the request to the respective credit bureaus.
6. The bureau processes the request and sends the credit report back.
7. The routing hub receives the report and transforms the report as per the defined template and sends it back to bureau integration service.
8. Bureau integration service then saves the data, displays the credit report, and sends the same to the product processor through the routing hub.

One or more bureaus can be called based on evaluation of the rules. The bureaus can be either called simultaneously or based on the response from the previous bureau call.

Bureau integration service maintains aging for credit report of an applicant. History service allows to store and pull existing credit report of an individual customer. The integration service retrieves report from history for those applicants if subsequent call to same bureau is made within defined period, beyond which a new credit report is called from the bureau. Existing credit reports from history are sent back to the product processor.

In case of multiple applicants being received by bureau integration service as a part of a lending application, based on the evaluation of criteria, the integration service consolidates all the multiple bureau responses into one and sends it to the product processor.

A new bureau can be added with only a configuration and without any change in the code. Two lookup types are required to be created in the bureau integration service. One for bureau and another for bureau product type. The additional maintenance required is configuration of the new bureau in the routing hub.

Bureau integration service supports override of criteria rules if the product processor wants to call a specific bureau or bureau product, for an applicant. In such cases, bureau service will not check criteria for rules evaluation. Instead, bureau service will call the bureau as intimated by the product processor in the request. Here, product processor can list one or more bureau's to be called.

Bureau Integration service supports decoding of encoded pdf string from a bureau response to a pdf report using web content document server. The document server generates a unique document ID for each record stored. Bureau service can access the pdf reports using this document ID.

The below flow diagram depicts how bureau integration service works with the integrated product processor and interfaces with the routing hub for fetching and displaying the credit bureau reports:

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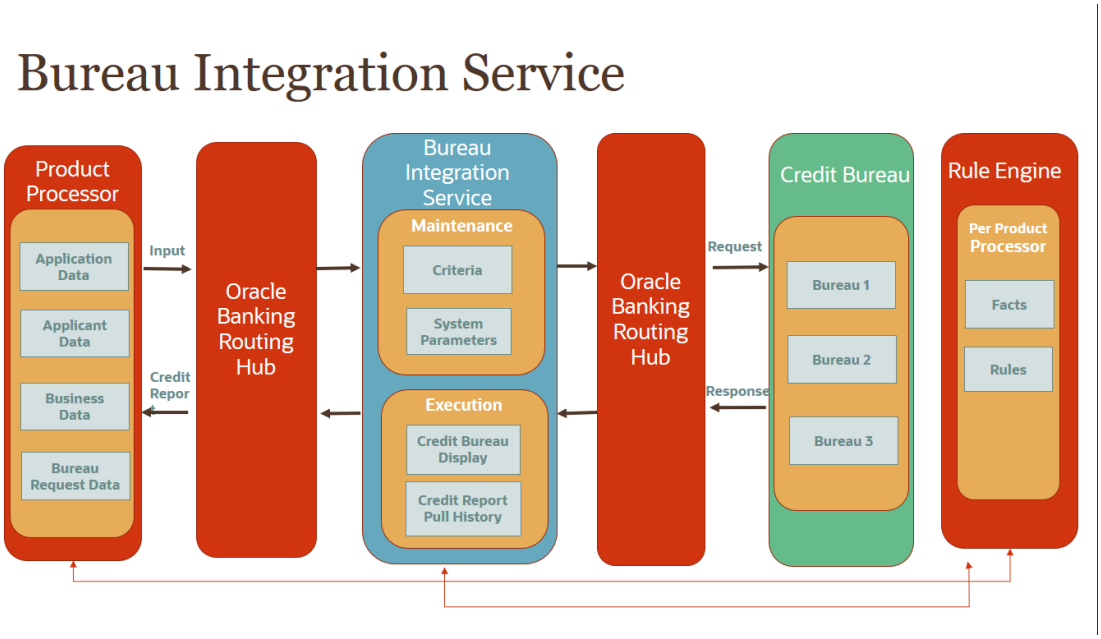
Figure 2-1 Bureau Integration Service



Decision service can be called from various product processor such as Collections, Deposits, Loans, Insurance, Trade Finance or Payment etc. This product processor calls the decision service and the decision service intern uses the rule engine to configure various complex rules.

The decision service can calculate behavioral scores and suggest the best recommended collection strategy accordingly. For lending products, it can offer a credit score, a decision based on the score, the recommended rate of interest and the ability to calculate which is the maximum amount that can be borrowed by the applicant.

2.2 System Parameter

This topic describes the information about the system parameter configured in Bureau Integration service.

System parameters define the information or values used throughout the system and drives the behavior of the features. They control the way task is executed, or whether the system performs a particular task. Some of the parameters are set when the system is installed, but the values associated with the parameter needs to be reviewed and is to be maintained.

Example:

- Set minimum days to pull credit bureau report from same bureau from initial pull.
- Credit bureau report purge days.

This topic contains the following subtopics:

- Create System Parameter
  This topic describes the systematic instructions to create system parameter by updating various details.
- View System Parameter
  This topic describes the systematic instructions to view the list of configured system parameter.

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2.2.1 Create System Parameter

This topic describes the systematic instructions to create system parameter by updating various details.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Credit Bureau**.
2. Under **Credit Bureau**, click **Maintenance**. Under **Maintenance**, click **System Parameter**, then click **Create System Parameter**.

   The **Create System Parameter** screen is displayed.

Figure 2-2 Create System Parameter

3. Specify the fields on the **Create System Parameter** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 2-1 Create System Parameter - Field Description

Field	Description
Parameter Code	Select the parameter code from the drop-down list.
Parameter Description	Specify the short description for the parameter code.
Product Processor	Select the product processor from the drop-down list for which the parameter is being created.
Value	Specify the value for the parameter code.

4. Perform one of the following action:
   - Click **Save** to save the details.
     The **System Parameter** is successfully created and can be viewed using the View System Parameter screen.
   - Click **Cancel** to discard the changes and close the screen.

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2.2.2 View System Parameter

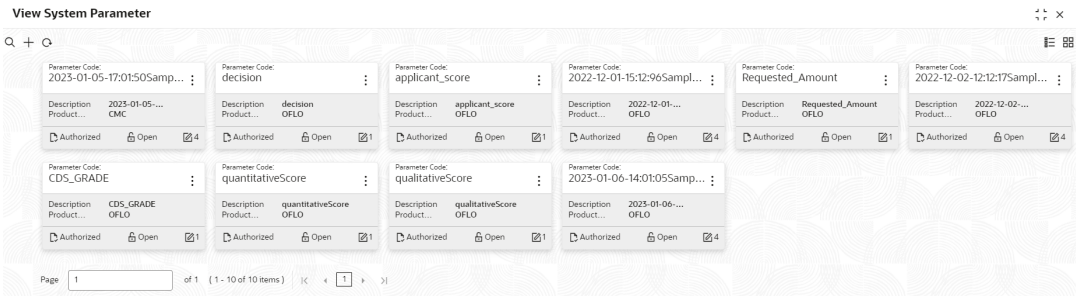
This topic describes the systematic instructions to view the list of configured system parameter.

The user can configure the system parameter using the Create System Parameter screen. The status of the created system parameter is displayed as **Unauthorized** and **Open**. Once the checker authorizes the system parameter, the status is updated to **Authorized** and **Open**.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Credit Bureau**.
2. Under **Credit Bureau**, click **Maintenance**. Under **Maintenance**, click **System Parameter**, then click **View System Parameter**.

   The **View System Parameter** screen is displayed.

Figure 2-3 View System Parameter



For more information on fields, refer to the field description table.

Table 2-2 View System Parameter - Field Description

Field	Description
Parameter Code	Displays the parameter code.
Description	Displays the description of the parameter code.
Product Processor	Displays the product processor of the parameter.
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

3. On **View System Parameter**, click icon.

   The **View System Parameter - Search** screen is displayed.

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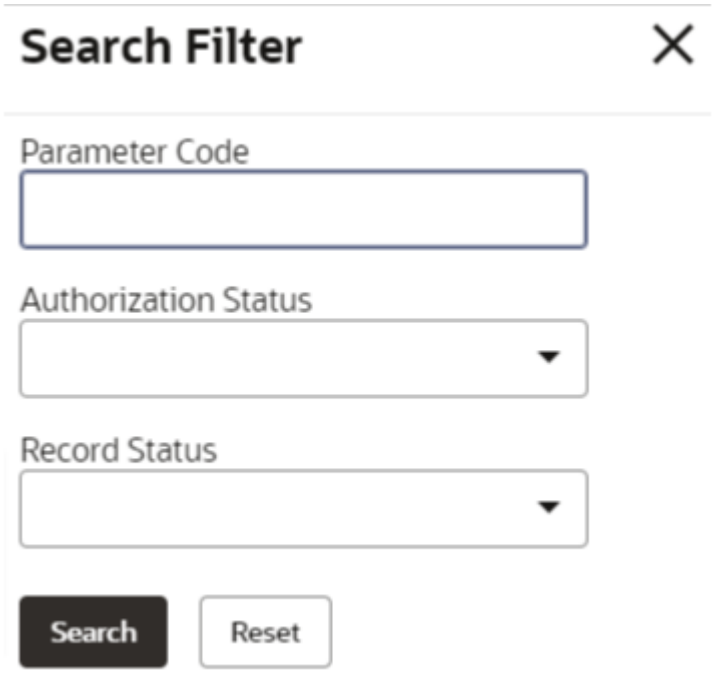
Figure 2-4 View System Parameter - Search



4. On the **View System Parameter - Search** screen, specify the **Search Filter** to fetch the required system parameter.

   For more information on fields, refer to the field description table.

Table 2-3 View System Parameter - Search - Field Description

Field	Description
Parameter Code	Specify the parameter code.
Authorization Status	Select the authorization status from the drop-down list. The available options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Select the record status from the drop-down list. The available options are: • **Open** • **Closed**

5. Click **Search** to display the required system parameter.

6. On the **View System Parameter** screen, click ⋮ icon to **Unlock**, **Delete**, **Authorize** or **View** the created system parameter.

7. Click **Unlock** to modify the created system parameter.

   The **System Parameter Maintenance - Modify** screen displays.

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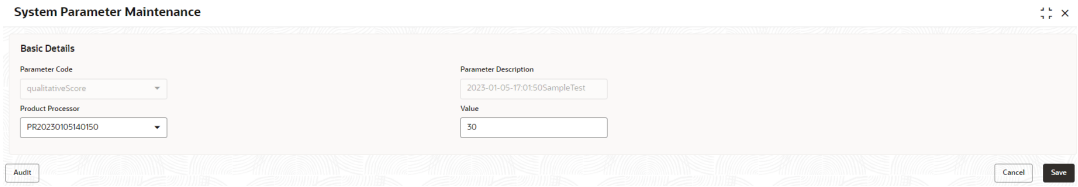
Figure 2-5 System Parameter Maintenance - Modify



For more information on fields, refer to the field description table.

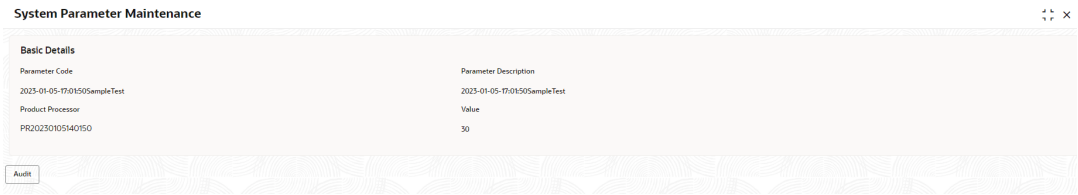
Table 2-4 System Parameter Maintenance - Modify - Field Description

Field	Description
Parameter Code	Displays the created system parameter code.
Parameter Description	Displays the created system parameter description.
Product Processor	Displays the product processor of the created system parameter. User can modify the same.
Value	Displays the value for the created system parameter. User can modify the same.

8. Click **Save** to update the modified fields.
9. Click **View** to view the created system parameter code.

   The **System Parameter Maintenance - View** screen displays.

Figure 2-6 System Parameter Maintenance - View



For more information on fields, refer to the field description table.

Table 2-5 System Parameter Maintenance - View - Field Description

Field	Description
Parameter Code	Displays the created system parameter code.
Parameter Description	Displays the created system parameter description.
Product Processor	Displays the product processor of the created system parameter.
Value	Displays the value for the created system parameter.

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2.3 Lookup

This topic describes the information about the lookup feature in Bureau Integration service.

The lookup are the service for mapping of keys and values used to enrich the description of the data displayed to the user. The lookup screen allows user to define contents for a list of drop-down or value fields. These are used throughout the system. The identified fields only accept the entries stored.

Below are some examples of the lookup fields.

- Static/Enumeration values
  - Credit Bureau: For example, credit bureau1, credit bureau 2, and credit bureau 3.
  - Comparison Operator: Equals and Greater than.
- Dependent lookup based on another selection
  - Based on Country, State should have different values in the lookup.
  - Based on Country, Currency should have different values in the lookup.

This topic contains the following subtopics:

- Create Lookup
  This topic describes the systematic instructions to create lookup definitions by updating various details in Bureau Integration Service.
- View Lookup
  This topic describes the systematic instructions to view the list of configured lookup for Bureau Integration Service.

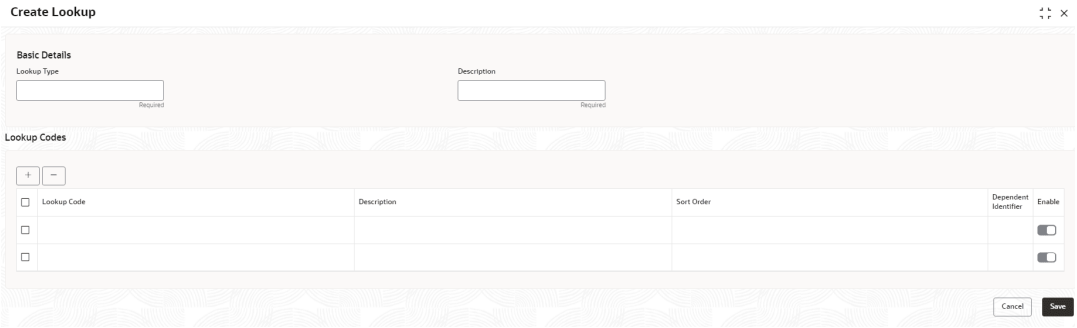
2.3.1 Create Lookup

This topic describes the systematic instructions to create lookup definitions by updating various details in Bureau Integration Service.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Credit Bureau**.
2. Under **Credit Bureau**, click **Maintenance**. Under **Maintenance**, click **Lookup**, then click **Create Lookup**.

   The **Create Lookup** screen is displayed.

Figure 2-7 Create Lookup



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3. Specify the fields on the **Create Lookup** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 2-6 Create Lookup - Field Description

Field	Description
Lookup Type	Specify the unique lookup type name.
Description	Specify the short description for lookup.
+ button	Click to add a new row.
- button	Click to delete a row that is already added.
Lookup Code	Specify the unique lookup code.
Description	Specify the short description for lookup.
Sort Order	Specify the sort order.
Dependent Identifier	Specify the dependent Identifier.
Enable	Click the toggle status to enable the lookup.

4. Perform one of the following action:
   - Click **Save** to save the details.
     The **Lookup** is successfully created and can be viewed using the View Lookup screen.
   - Click **Cancel** to discard the changes and close the screen.

2.3.2 View Lookup

This topic describes the systematic instructions to view the list of configured lookup for Bureau Integration Service.

The user can configure the lookup using the Create Lookup screen. The status of the created lookup is displayed as **Unauthorized** and **Open**. Once the checker authorizes the lookup, the status is updated to **Authorized** and **Open**.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Credit Bureau**.
2. Under **Credit Bureau**, click **Maintenance**. Under **Maintenance**, click **Lookup**, then click **View Lookup**.

   The **View Lookup** screen is displayed.

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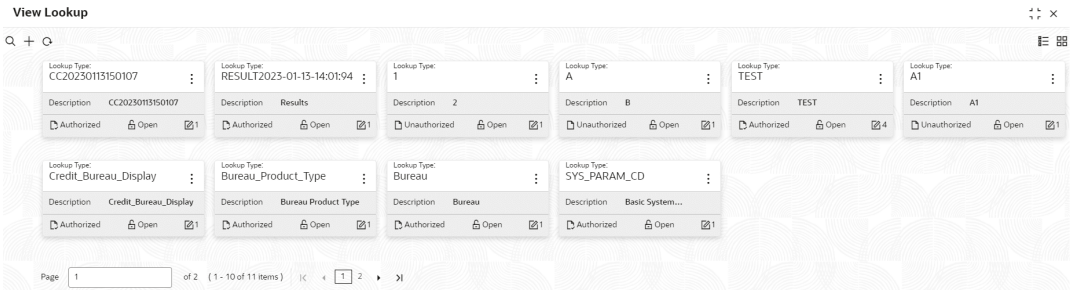
Figure 2-8 View Lookup



For more information on fields, refer to the field description table.

Table 2-7 View Lookup – Field Description

Field	Description
Lookup Type	Displays the lookup type.
Description	Displays the description of the lookup.
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

3. On the **View Lookup** screen, click icon.

   The **View Lookup - Search** screen is displayed.

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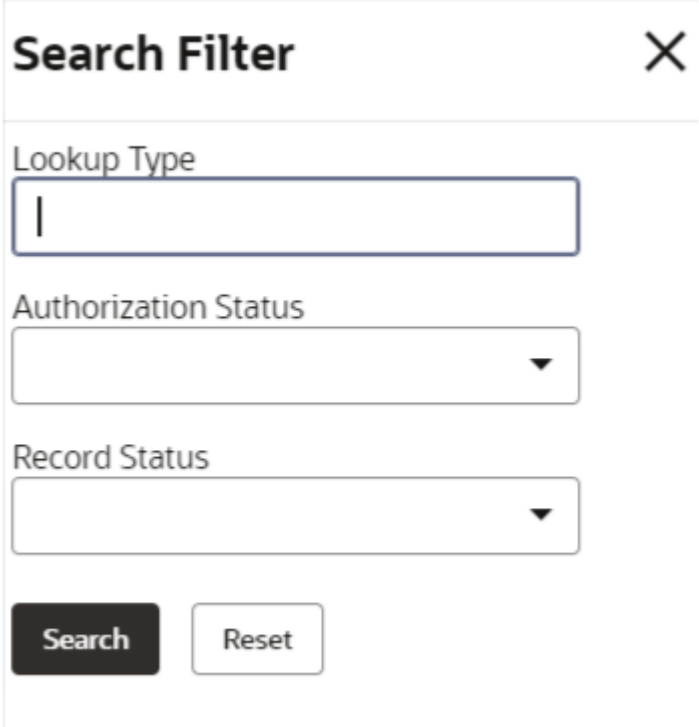
Figure 2-9 View Lookup - Search



4. On the **View Lookup - Search** screen, specify the **Search Filter** to fetch the required lookup.

   For more information on fields, refer to the field description table.

Table 2-8 View Lookup – Search – Field Description

Field	Description
Lookup Type	Specify the lookup type name.
Authorization Status	Select the authorization status from the drop-down list. The available options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Select the record status from the drop-down list. The available options are: • **Open** • **Closed**

5. Click **Search** to display the required lookup.

6. On **View Lookup** screen, click ⋮ icon to **Unlock**, **Delete**, **Authorize** or **View** the created lookup.

7. Click **Unlock** to modify the created lookup.

   The **Lookup Maintenance - Modify** screen displays.

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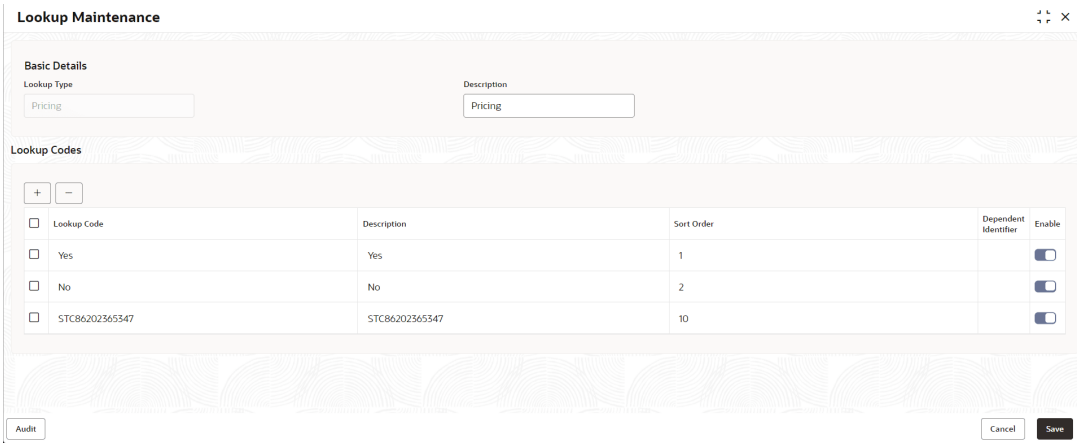
Figure 2-10 Lookup Maintenance - Modify



For more information on fields, refer to the field description table.

Table 2-9 Lookup Maintenance - Modify - Field Description

Field	Description
Lookup Type	Displays lookup type name.
Description	Displays the short description of the lookup. This field is editable.
+ button	Click to add a new row.
- button	Click to delete a row that is already added.
Lookup Code	Displays the lookup code for the created lookup. This field is editable.
Description	Displays the description for the created lookup.
Sort Order	Displays the sort order for the created lookup. This field is editable.
Dependent Identifier	Displays the dependent Identifier for the created lookup. This field is editable.
Enable	Click toggle status to enable the lookup. This field is editable.

8. Click **Save** to update the modified fields.
9. Click **View** to view the created lookup code.

   The **Lookup Maintenance - View** screen displays.

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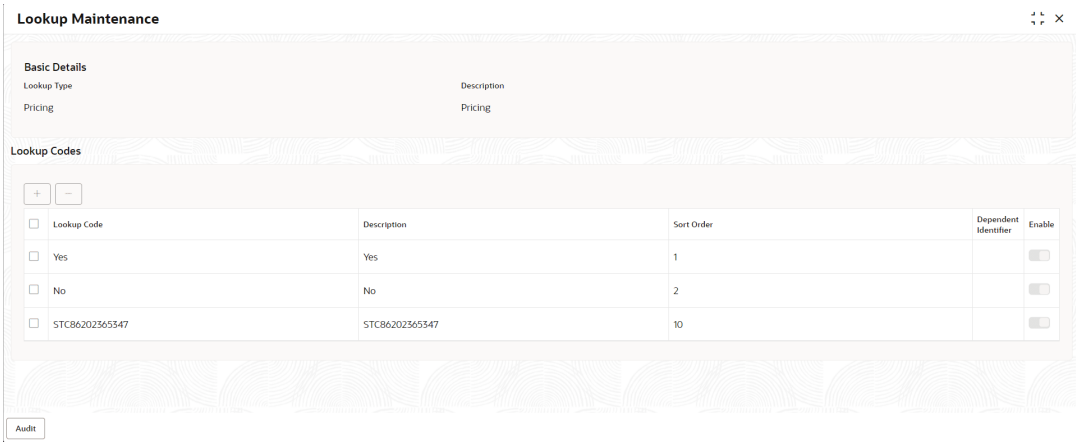
Figure 2-11 Lookup Maintenance - View



For more information on fields, refer to the field description table.

Table 2-10 Lookup Maintenance - View - Field Description

Field	Description
Lookup Type	Displays the created lookup type.
Description	Displays the description for the created lookup.
Lookup Code	Displays the lookup code for the created lookup.
Description	Displays the description for the created lookup.
Sort Order	Displays the sort order for the created lookup.
Dependent Identifier	Displays the dependent identifier for the created lookup.
Enable	Displays the lookup code if enabled for the created lookup.

2.4 Product Processor

This topic describes the information about the product processor.

The source system calling the decision system for decisioning the credit application is defined as product processor. There are multiple data segments like account information, customer details, collateral details, credit bureau information or any additional notes if any is received from the product processor for credit decisioning and pricing in decision service.

This topic contains the following subtopics:

- Create Product Processor
  This topic describes the systematic instructions to create product processor by updating various details.
- View Product Processor
  This topic describes the systematic instructions to view the list of product processor.
- Create Product Processor
  This topic describes the systematic instructions to create product processor by updating various details.
- View Product Processor
  This topic describes the systematic instructions to view the list of product processor.

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2.4.1 Create Product Processor

This topic describes the systematic instructions to create product processor by updating various details.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Credit Bureau**.
2. Under **Credit Bureau**, click **Maintenance**. Under **Maintenance**, click **Product Processor**, then click **Create Product Processor**.

   The **Create Product Processor** screen is displayed.

Figure 2-12 Create Product Processor

3. Specify the fields on the **Create Product Processor** screen.

   > **Note**
   >
   > The fields marked as **Required** are mandatory.

   For more information on fields, refer to the field description table.

Table 2-11 Create Product Processor - Field Description

Field	Description
Product Processor Code	Specify the unique product processor code.
Product Processor Description	Specify the short description for product processor.
Effective Date	Specify the effective date.
Expiry Date	Specify the expiry date.

4. Perform one of the following action:
   - Click **Save** to save the details.
     The **Product Processor** is successfully created and can be viewed using the View Product Processor screen.

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- Click **Cancel** to discard the changes and close the screen.

2.4.2 View Product Processor

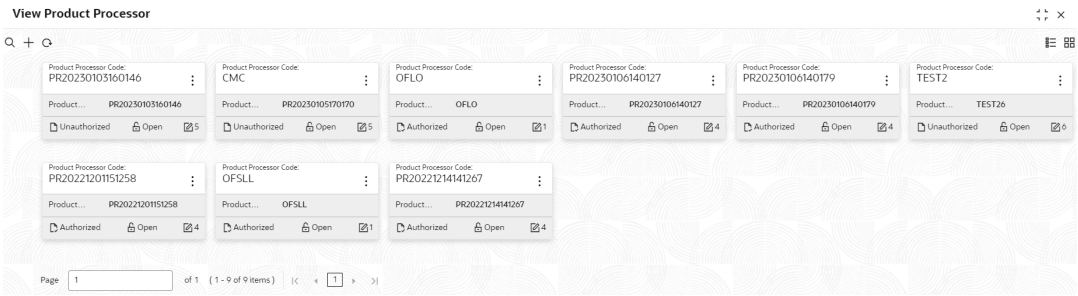
This topic describes the systematic instructions to view the list of product processor.

The user can create the product processor using the Create Product Processor screen. The status of the created system parameter is displayed as **Unauthorized** and **Open.** Once the checker authorizes the system parameter, the status is updated to **Authorized** and **Open**.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Credit Bureau**.
2. Under **Credit Bureau**, click **Maintenance**. Under **Maintenance**, click **Product Processor**, then click **View Product Processor**.

   The **View Product Processor** screen is displayed.

Figure 2-13 View Product Processor



For more information on fields, refer to the field description table.

Table 2-12 View Product Processor - Field Description

Field	Description
Product Processor Code	Displays the product processor code.
Product Processor Description	Displays the description of the product processor.
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

3. On **View Product Processor** screen, click icon.

   The **View Product Processor - Search** screen is displayed.

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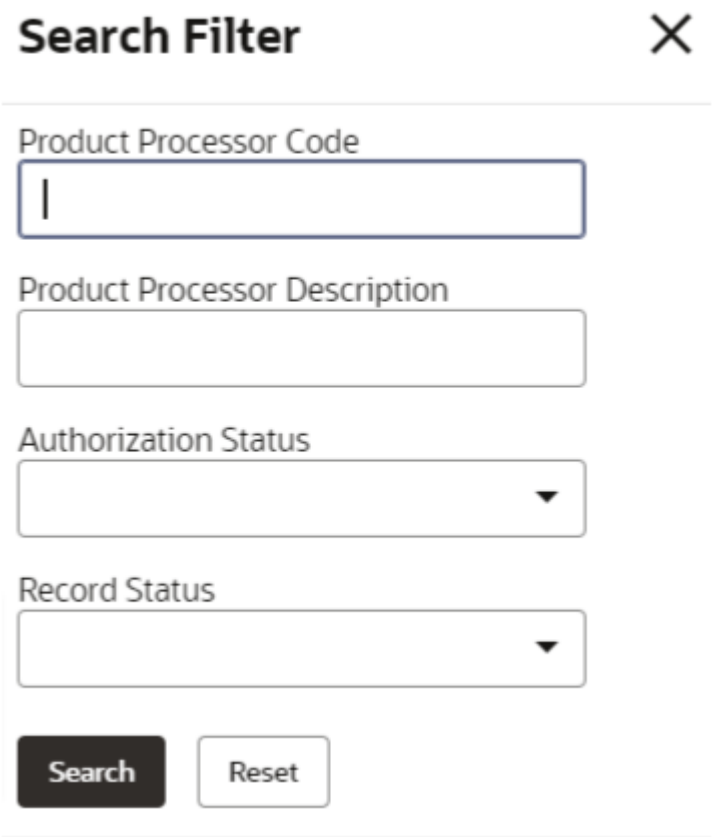
Figure 2-14 View Product Processor - Search



4. On the **View Product Processor - Screen** screen, specify the **Search Filter** to fetch the required product processor.

   For more information on fields, refer to the field description table.

Table 2-13 View Product Processor - Search - Field Description

Field	Description
Product Processor Code	Specify the product processor code.
Product Processor Description	Specify the product processor description.
Authorization Status	Select the authorization status of the product processor. The available options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Select the record status of the product processor. The available options are: • **Open** • **Closed**

5. Click **Search** to display the required product processor.

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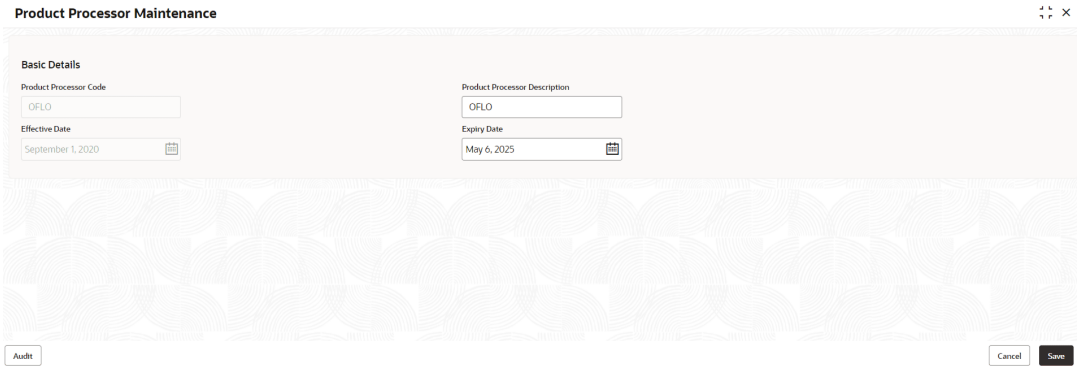
6. On the **View Product Processor** screen, click ⋮ icon to **Unlock**, **Delete**, **Authorize** or **View** the created product processor.
7. Click **Unlock** to modify the created product processor.

   The **Product Processor Maintenance - Modify** screen is displayed.

Figure 2-15 Product Processor Maintenance - Modify



For more information on fields, refer to the field description table.

Table 2-14 Product Processor Maintenance - Modify - Field Description

Field	Description
Product Processor Code	Displays the product processor code.
Product Processor Description	Displays the product processor description. This field is editable.
Effective Date	Displays the effective date of the created product processor. User can modify the same before authorization if it is future dated.
Expiry Date	Displays the expiry date of the created product processor. This field is editable.

8. Click **Save** save the details.
9. Click **View** to view the created product processor.

   The **Product Processor Maintenance - View** screen is displayed.

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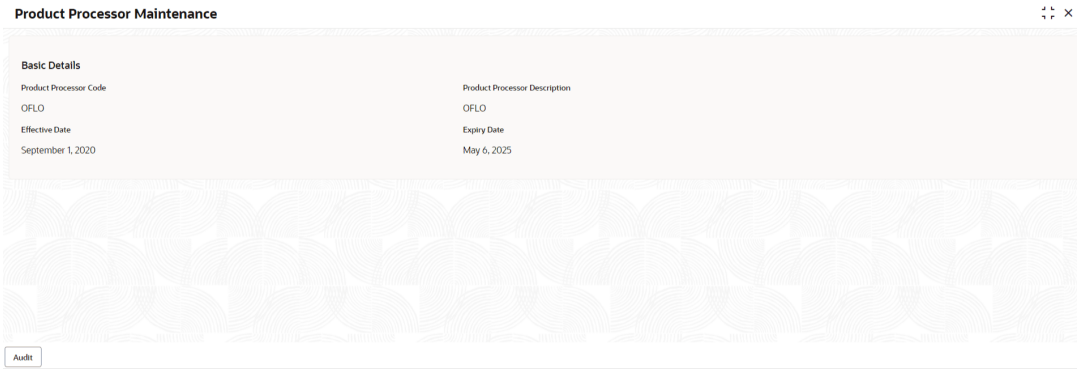
Figure 2-16 Product Processor Maintenance - View



For more information on fields, refer to the field description table.

Table 2-15 Product Processor Maintenance - View - Field Description

Field	Description
Product Processor Code	Displays the product processor code.
Product Processor Description	Displays the product processor description.
Effective Date	Displays the effective date of the created product processor.
Expiry Date	Displays the expiry date of the created product processor.

2.5 Criteria

This topic describes the information about the criteria to identify the Credit Bureau.

The Criteria screen facilitates to setup criteria definition, which are used in evaluating the request and response criteria (business rules) to identify which bureau is to be called for the request.

Examples:

- Call credit bureau 1, for personal loan product, and call credit bureau 1 and 2 for home loan products.
- Call credit bureau 1, if zip code of the applicant is between 70000 – 80000 and call credit bureau 2, if zip code of the applicant is between 30000 – 40000.
- Call credit bureau 3, if score from credit bureau 1 is less than 600.

This topic contains the following subtopics:

- Create Bureau Criteria
  This topic describes the systematic instructions to create bureau criteria by updating various details.
- View Bureau Criteria
  This topic describes the systematic instructions to view the bureau criteria.

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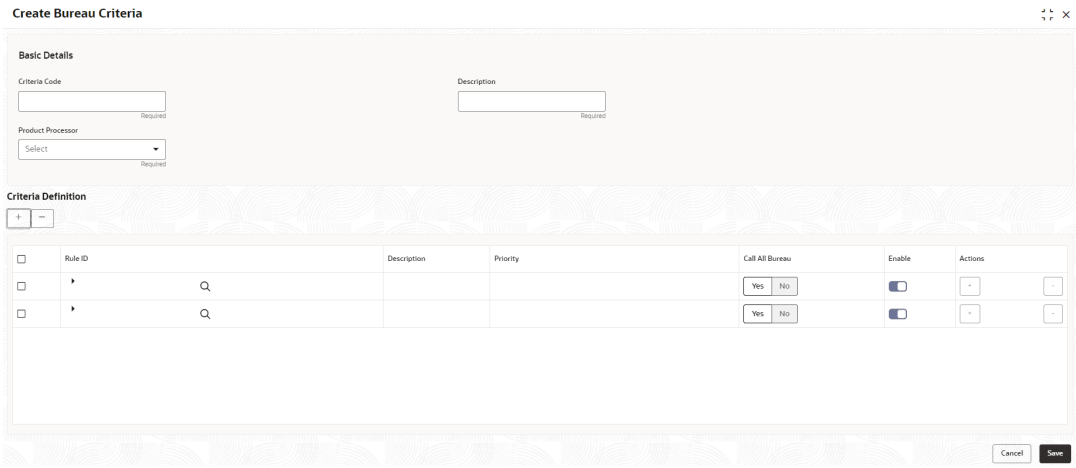
2.5.1 Create Bureau Criteria

This topic describes the systematic instructions to create bureau criteria by updating various details.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Credit Bureau**.
2. Under **Credit Bureau**, click **Maintenance**. Under **Maintenance**, click **Criteria**, then click **Create Bureau Criteria**.

   The **Create Bureau Criteria** screen is displayed.

Figure 2-17 Create Bureau Criteria



3. Specify the fields on the **Create Bureau Criteria** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 2-16 Create Bureau Criteria – Field Description

Field	Description
Criteria Code	Specify the unique criteria code.
Description	Specify a short description for the criteria code.
Product Processor	Specify the product processor for which the criteria is being created.
+ button	Click to add a new row.
- button	Click to delete a row that is already added.
ⓘ	Click to get the information about the rule.
Rule ID	Specify the rule ID.

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Table 2-16 (Cont.) Create Bureau Criteria – Field Description

Field	Description
Description	Displays the description of the rule ID selected.
Priority	Specify the priority of the criteria.
Call All Bureau	Click the toggle status to call all bureaus.
Enable	Click the toggle status to enable the rule criteria.
Action	This field is enabled if the **Call All Bureau** toggle is **OFF**.
+ button	Click this icon to add the child rule to the parent rule.
Rule ID	Select the rule ID from the drop down list. **Note:** This field is enabled if the **Call All Bureau** toggle is **OFF**.
ⓘ	Click to get the information about the rules. **Note:** This field is enabled if the **Call All Bureau** toggle is **OFF**.
Description	Displays the description of the rule ID selected it is auto populated. **Note:** This field is enabled if the **Call All Bureau** toggle is **OFF**.
Priority	Specify the priority of the criteria. **Note:** This field is enabled if the **Call All Bureau** toggle is **OFF**.
Enable	Click the toggle status to enable the rule criteria. **Note:** This field is enabled if the **Call All Bureau** toggle is **OFF**.

4. Perform one of the following action:
   - Click **Save** to save the details.
     The **Criteria** are successfully created and can be viewed using the View Bureau Criteria screen.
   - Click **Cancel** to discard the changes and close the screen.

2.5.2 View Bureau Criteria

This topic describes the systematic instructions to view the bureau criteria.

The user can configure the bureau criteria using the Create Bureau Criteria screen. The status of the created lookup is displayed as **Unauthorized** and **Open**. Once the checker authorizes the criteria, the status is updated to **Authorized** and **Open**.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Credit Bureau**.
2. Under **Credit Bureau**, click **Maintenance**. Under **Maintenance**, click **Criteria**, then click **View Bureau Criteria**.

   The **View Bureau Criteria** screen is displayed.

Figure 2-18 View Bureau Criteria

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For more information on fields, refer to the field description table.

Table 2-17 View Bureau Criteria – Field Description

Field	Description
Criteria Code	Displays the criteria code.
Description	Displays the description of the criteria code.
Product Processor	Displays the product processor of the criteria.
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

3. On the **View Bureau Criteria** screen, click icon.

   The **View Criteria - Search** screen is displayed.

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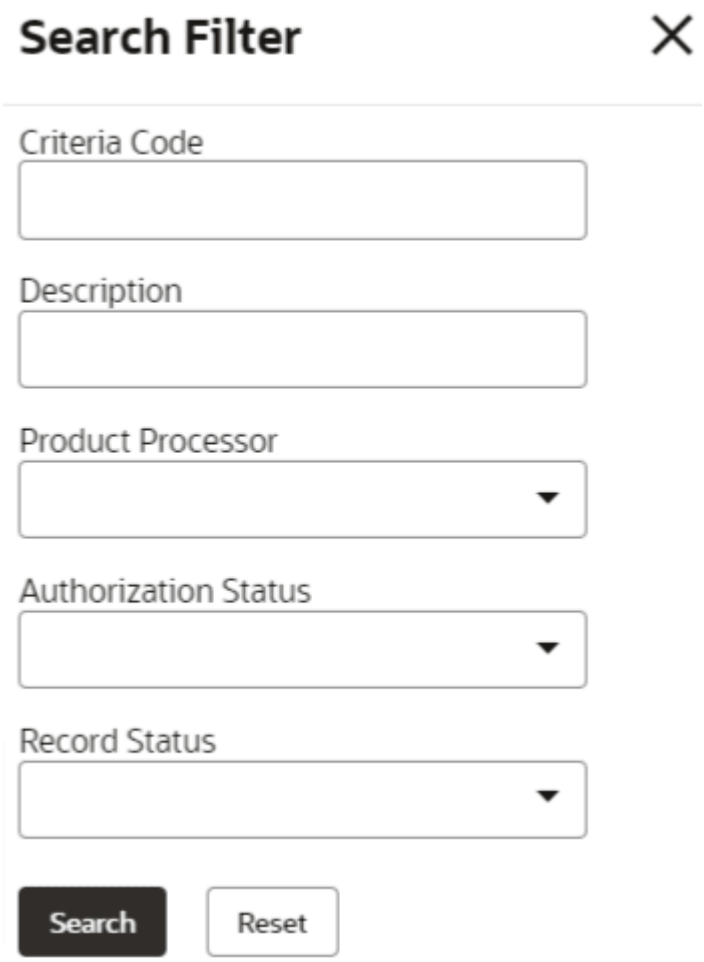
Figure 2-19 View Criteria - Search



4. On the **View Bureau Criteria** screen, specify the **Search Filter** to fetch the required criteria code.

   For more information on fields, refer to the field description table.

Table 2-18 View Criteria - Search – Field Description

Field	Description
Criteria Code	Specify the criteria code.
Description	Specify the criteria description.
Product Processor	Select the product processor from the drop-down list.
Authorization Status	Select the authorization status from the drop-down list. The available options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Select the record status from the drop-down list. The available options are: • **Open** • **Closed**

5. Click **Search** to display the required criteria code.

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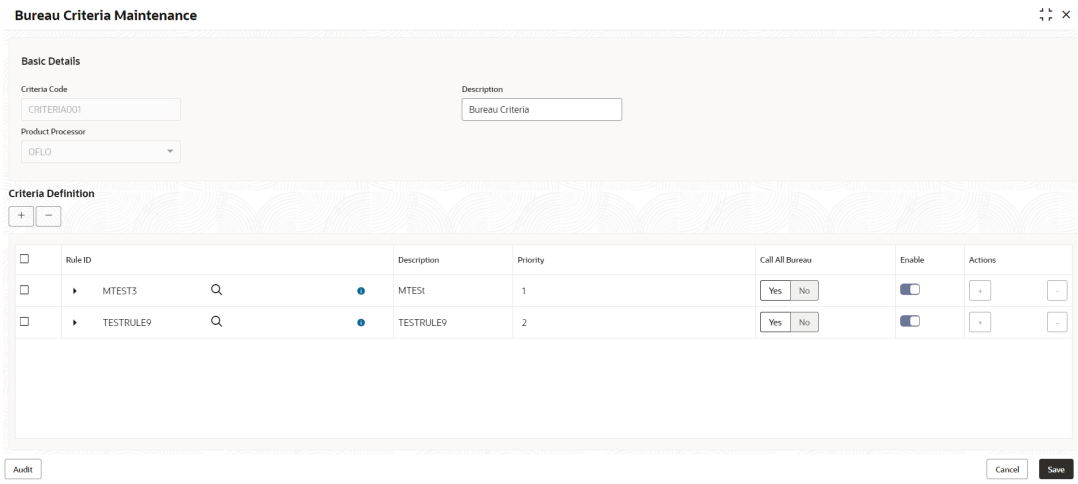
6. On the **View Bureau Criteria** screen, click ⋮ icon to **Unlock**, **Delete**, **Authorize** or **View** the created criteria code.
7. Click **Unlock** to modify the following fields.

   The **Bureau Criteria Maintenance - Modify** screen displays.

Figure 2-20 Bureau Criteria Maintenance - Modify



For more information on fields, refer to the field description table.

Table 2-19 Bureau Criteria Maintenance - Modify - Field Description

Field	Description
Criteria Code	Displays the created criteria code.
Description	Displays the description for the created criteria code.
Product Processor	Displays the product processor for which the criteria is being created.
Rule ID	Displays the rule ID for the created criteria.
Description	Displays the description for the created criteria.
Priority	Displays the priority for the created criteria.
Call All Bureau	Displays if call all bureau has been enabled for the created criteria.
Enable	Displays the criteria code if enabled for the created criteria.
Actions	Displays the actions of the created criteria.

8. Click **Save** to save the details.
9. Click **View** to view the created criteria code.

   The **Bureau Criteria Maintenance - View** screen is displayed.

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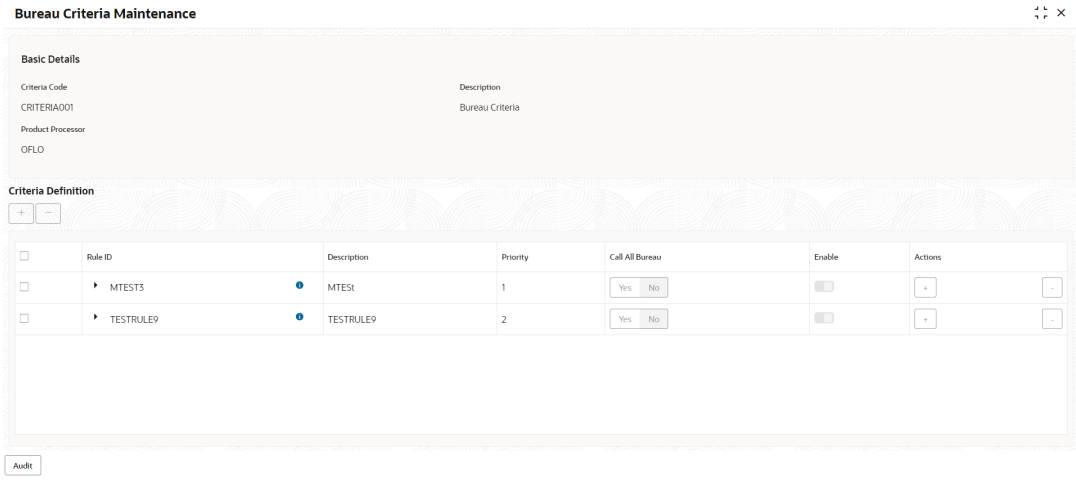
Figure 2-21 Bureau Criteria Maintenance - View



For more information on fields, refer to the field description table.

Table 2-20 Bureau Criteria Maintenance - View - Field Description

Field	Description
Criteria Code	Displays the created criteria code.
Description	Displays the created criteria description.
Product Processor	Displays the product processor of the created criteria.
Rule ID	Displays the rule ID for the created criteria.
Description	Displays the description for the created criteria.
Priority	Displays the priority for the created criteria.
Call All Bureau	Displays if call all bureau has been enabled for the created criteria.
Enable	Displays the criteria code if enabled for the created criteria.
Actions	Displays the actions of the created criteria.

2.6 Credit Bureau Display

This topic describes the information about Credit Bureau display.

The Credit Bureau Display screen facilitates to view the reports received from the various bureaus. The report has credit history details and credit score of the customer based on these details.

This topic contains the following subtopics:

- View Credit Bureau Report
  This topic describes the systematic instructions to view the credit bureau report based on the various filter options provided.

2.6.1 View Credit Bureau Report

This topic describes the systematic instructions to view the credit bureau report based on the various filter options provided.

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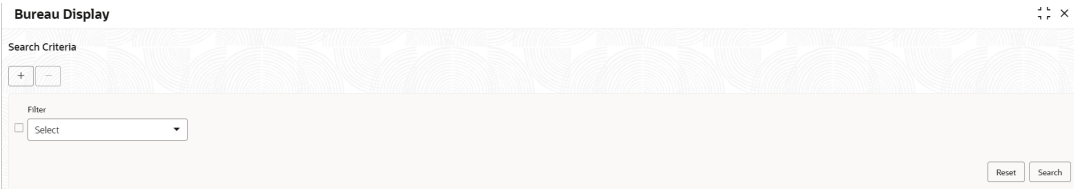
1. From **Home** screen, click **Credit Bureau**. Under **Credit Bureau**, click **Operations**.
2. Under **Operations**, click **Credit Bureau Display**.

   The **Credit Bureau Display** screen is displayed.

Figure 2-22 Credit Bureau Display



3. Specify the fields on the **Credit Bureau Display** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 2-21 Credit Bureau Display- Field Description

Field	Description
Filter	Select the required option based on which you can search for the credit bureau reports from the drop-down list. The options are: • **External Reference Number** • **Inquiry ID** • **Inquiry Date** • **Bureau Name** • **Product Processor** • **Application Number** • **Bureau Report ID**
Value	Specify the required details or select the appropriate option for the selected filter option. **Note:** This field appears once the user select the filter option as **Inquiry Date** and value as Date Range.
From Date	Select the start date of the period during which the report was generated. **Note:**This field appears if the user select the filter option as **Inquiry Date** and value as **Date Range**.
To Date	Select the end date of the period during which the report was generated. **Note:**This field appears if the user select the filter option as **Inquiry Date** and value as **Date Range**.

4. On the **Search Criteria** screen, specify the details and click **Search**.

   The search results displays showing a list of records based on the specified search criteria.

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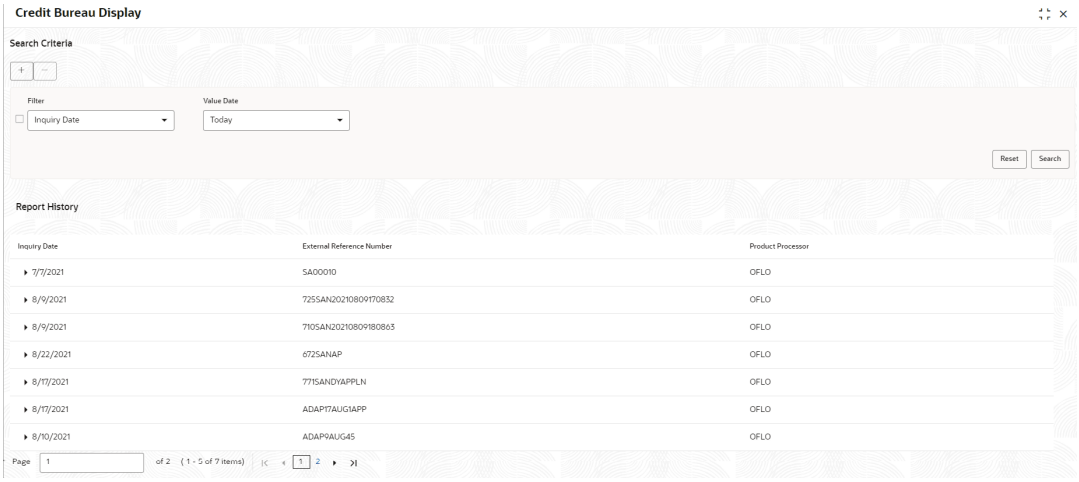
Figure 2-23 Credit Bureau Display - Report History



For more information on fields, refer to the field description table.

Table 2-22 Credit Bureau Display - Report History – Field Description

Field	Description
Inquiry Date	Displays the inquiry date of the request from product processor to bureau integration service.
External Reference Number	Displays the external reference number provided by the product processor.
Product Processor	Displays the name of the product processor that sent the request.

5. Click the arrow icon to view the corresponding list of reports.

   The list of reports displays on **Credit Bureau Display** screen.

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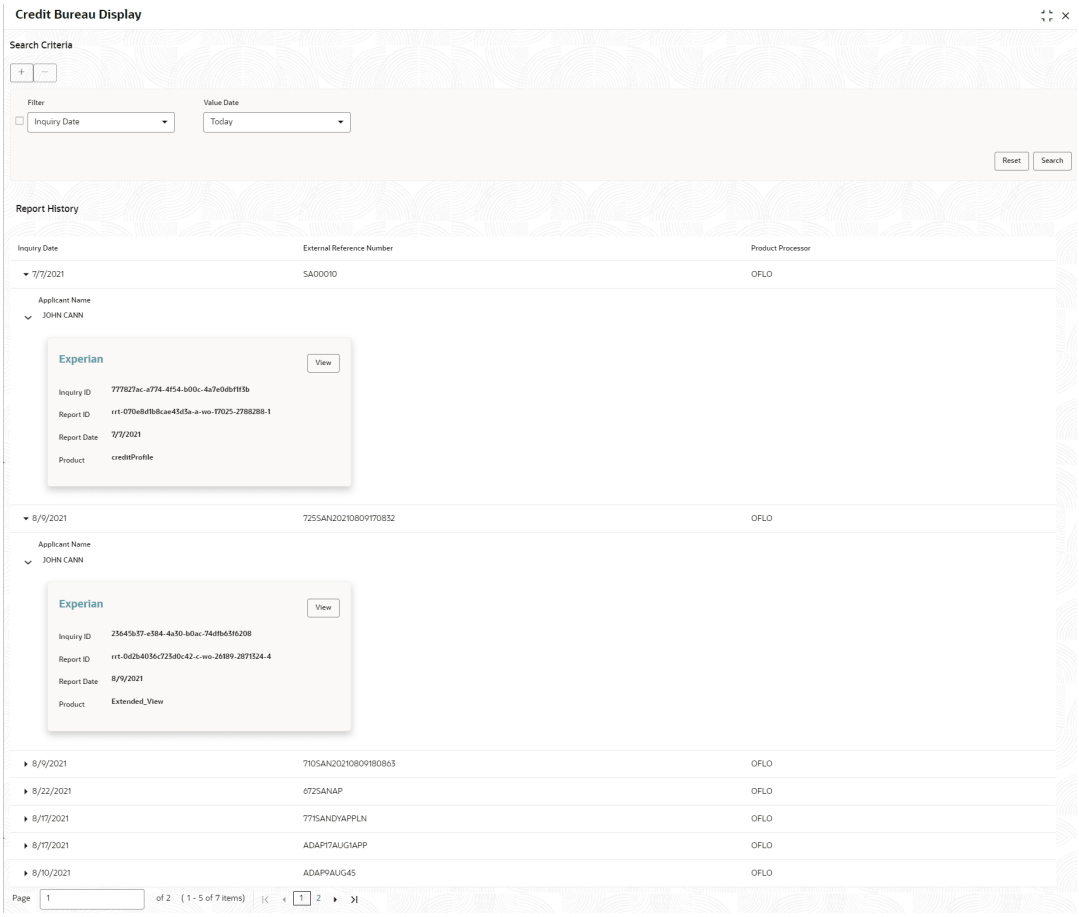
Figure 2-24 Credit Bureau Display - List of Report



For more information on fields, refer to the field description table.

Table 2-23 Create Bureau Display - List of Report – Field Description

Field	Description
Applicant Name	Displays the name of the applicant.
Bureau Name	Displays the name of the credit bureau agency.
Inquiry ID	Displays the inquiry ID generated by bureau integration service.
Report ID	Displays the report ID provided by the credit bureau agency.
Report Date	Displays the date on which the credit bureau report is generated by the bureau.
Product	Displays the product of the credit bureau agency.
View	Click **View** to view the credit bureau report.

6. Click the **View** link to view the credit bureau report.

   The **Create Bureau Display - Bureau Report** displays.

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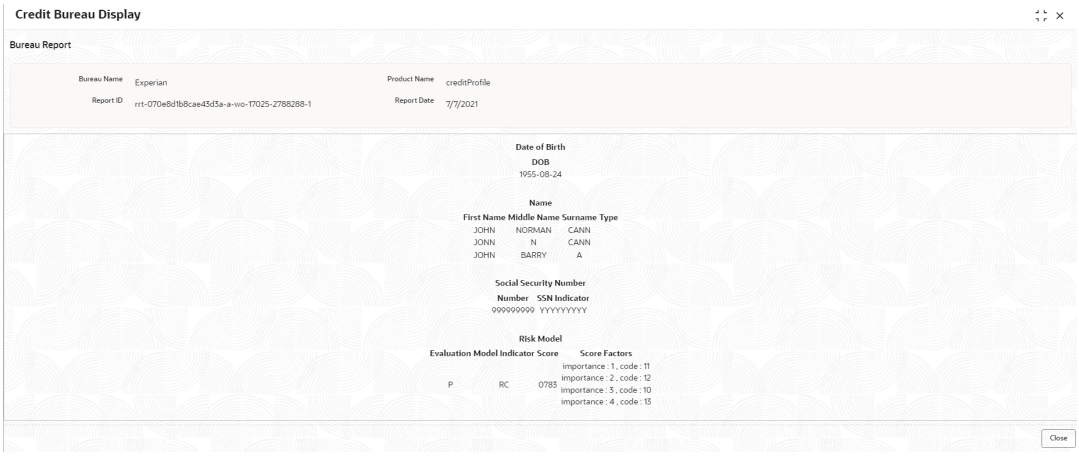
Figure 2-25 Create Bureau Display - Bureau Report



For more information on fields, refer to the field description table.

Table 2-24 Create Bureau Display - Bureau Report – Field Description

Field	Description
Bureau Name	Displays the name of the credit bureau agency.
Product Name	Displays the product name of the credit bureau agency.
Report ID	Displays the report ID provided by the credit bureau agency.
Report Date	Displays the date on which the credit bureau report is generated by the bureau.

2.7 Integrating Bureau Integration Service with Oracle Banking Routing Hub

This topic describes the information to integrate the Bureau Integration service with Oracle Banking Routing Hub.

This topic contains the following subtopics:

- Oracle Banking Routing Hub Configuration
  This topic describes the information about Oracle Banking Routing Hub Configuration for the Bureau Integration service.

2.7.1 Oracle Banking Routing Hub Configuration

This topic describes the information about Oracle Banking Routing Hub Configuration for the Bureau Integration service.

The user needs to import the existing service consumer and providers into the system.

- Service Consumers
  This topic describes systematic instructions to configure the service consumers.
- Service Providers
  This topic describes the systematic instructions to configure the service providers.

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- Experian Configuration
  This topic provides the figures for the Experian configuration.
- Equifax Configuration
  This topic describes the information about Equifax configuration.
- Document Configuration
  This topic describes the information about document configuration.
- Troubleshooting
  This topic describes the information for troubleshooting the Oracle Banking Routing Hub.

2.7.1.1 Service Consumers

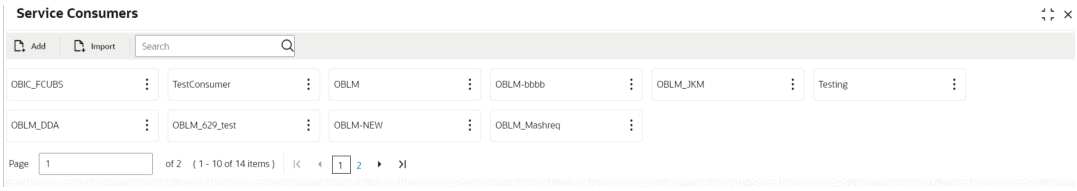
This topic describes systematic instructions to configure the service consumers.

The **Service Consumer** is an Oracle product that invokes Oracle Banking Routing Hub API. Oracle Banking Routing Hub analyses, evaluates the destination product processor and, transforms the data into a format of the same.
The **Service Consumer** comprises the source and destination integration details.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Routing Hub**.
2. Under **Routing Hub**, click **Service Consumers**.

   The **Service Consumers** screen is displayed.

Figure 2-26 Service Consumers



Add Service Consumer

3. Click **Add**.

   The **Add Service Consumer** screen is displayed.

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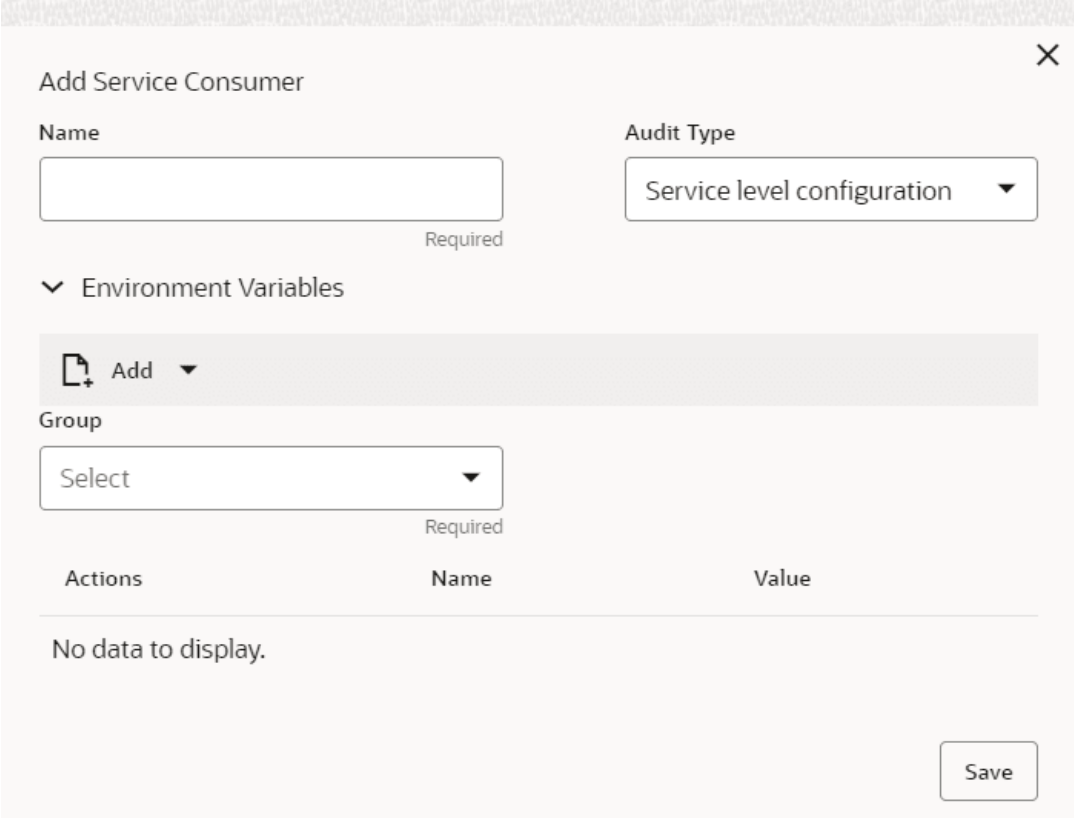
Figure 2-27 Add Service Consumer



4. Specify the fields on the **Add Service Consumer** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 2-25 Add Service Consumer - Field Description

Field	Description
Name	Specify the name of the service consumer. **Note:** • Enter 0 to maximum of 255 characters. • No numeric value at beginning and no space allowed.
Add	To add, refer to step 5. Select the group from the drop-down list. The available options are: • **Group** • **Variable**
Group	Select the group from the drop-down list.
Action	Displays the action. The user can edit or delete the header.
Name	Displays the name of the header.

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Table 2-25 (Cont.) Add Service Consumer - Field Description

Field	Description
Value	Displays the value of the header.

Environment Variables:
The user must define the group of variables which can be accessed throughout the specific consumer's configuration.

The syntax for accessing environment variables is below: $env.Environment_Group_Name.Environment_Variable_Name

For example, $env.COMMON.BRANCH_CODE

5. To add **Environment Variables**, follow below steps.
   a. On **Add Service Consumers**, click **Add** and select **Group** from drop-down list to add the group.

      The **Add Environment Group** screen is displayed.

      Figure 2-28 Add Environment Group

   b. Specify the fields on **Add Environment Group** screen and click **OK**.

      > **Note**
      > The fields marked as **Required** are mandatory.

      For more information on fields, refer to the field description table.

      Table 2-26 Add Environment Group - Field Description

Field	Description
Name	Specify the name of the environment group. **Note:** • Enter 0 to maximum of 255 characters. • No numeric value at beginning and no space allowed.

   c. Click **Add** on **Add Service Consumer** screen and select **Variable** from drop-down list to add the variable.

      The **Add Environment Variable** screen is displayed.

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Figure 2-29 Add Environment Variable

d. Specify the fields on the **Add Environment Variable** screen and click **OK**.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

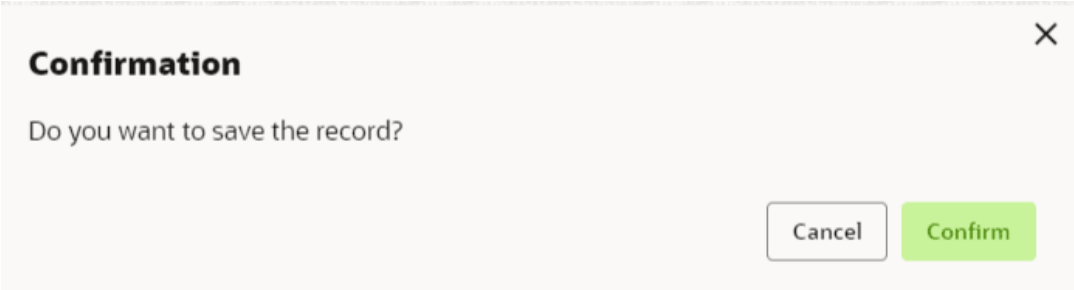
Table 2-27 Add Environment Variable - Field Description

Field	Description
Name	Specify the name of the environment variable. **Note:** • Enter 0 to maximum of 255 characters. • No numeric value at beginning and no space allowed.
Value	Specify the value of the environment variable. The value can either be hard coded or Velocity mapping.

6. Click **Save** to save the details.

   The **Confirmation** screen is displayed.

Figure 2-30 Confirmation - Add Service Consumers



7. Click **Confirm** to save the record.

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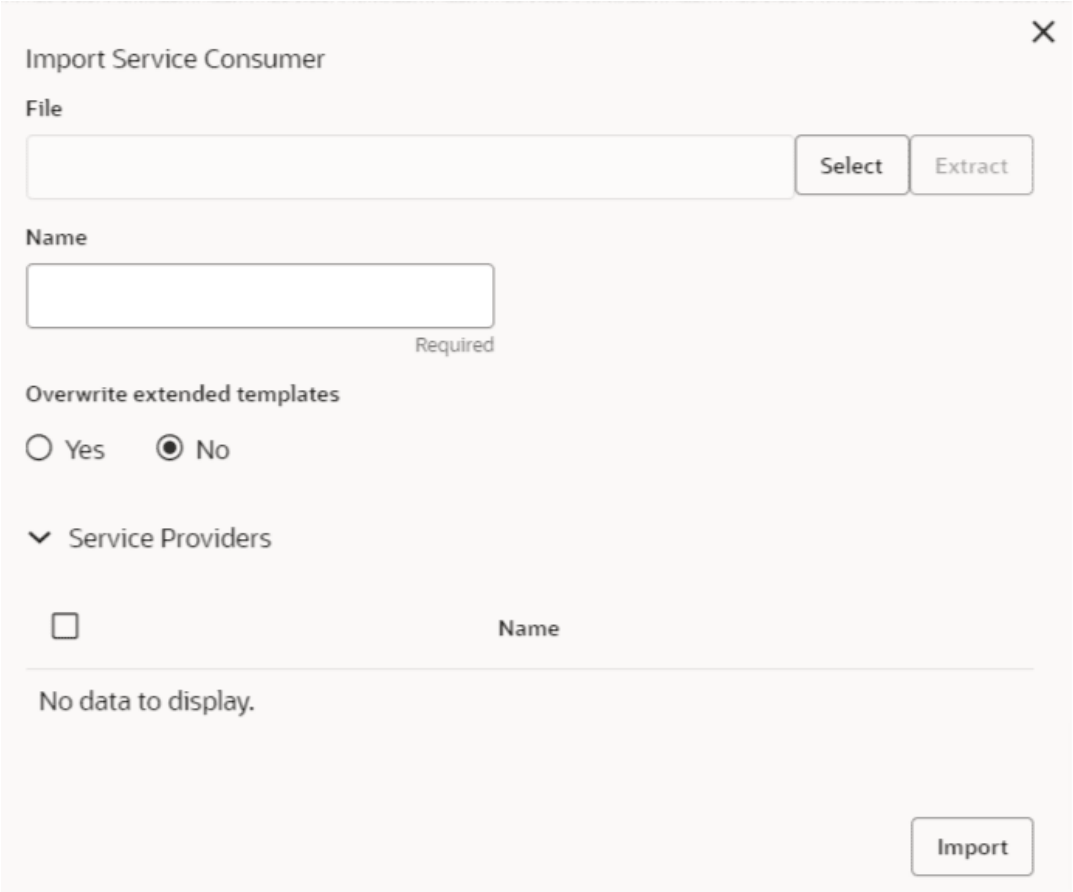
Import Service Consumer

8. Click **Import**.

   The **Import Service Consumer** screen is displayed.

Figure 2-31 Import Service Consumer



9. Specify the fields on the **Import Service Consumer** screen and click **OK**.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 2-28 Import Service Consumer - Field Description

Field	Description
File	Select the file using **Select**. **Note:** Allows only to select one file and accepts only JSON file.
Extract	Extracts the consumer name and service provider list from JSON file and displays it in the respective elements.

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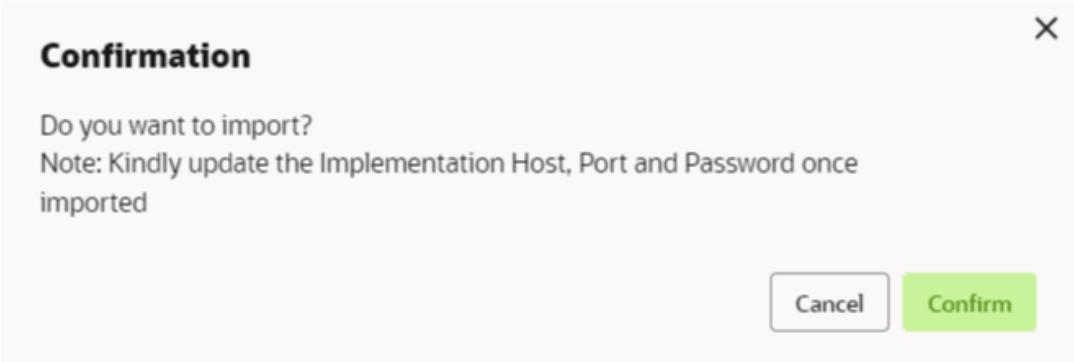
Table 2-28 (Cont.) Import Service Consumer - Field Description

Field	Description
Name	Specify the name of the service provider. **Note:** • Enter 0 to maximum of 255 characters. • No numeric value at beginning and no space allowed.
Name	Displays the list of service providers names that are present in JSON file.

10. Click **Import** to import the selected file.

    The **Confirmation** screen is displayed.

Figure 2-32 Confirmation - Import Service Consumer



11. Click **Confirm** to import the service consumer.

> **Note**
>
> Below data needs to be changed after importing provider configuration file:
>
> - Implementation Host and Port
> - Implementation Authentication Password

View Service Consumer

12. Click ⋮ and click **View**.

    The **View Service Consumer** screen is displayed.

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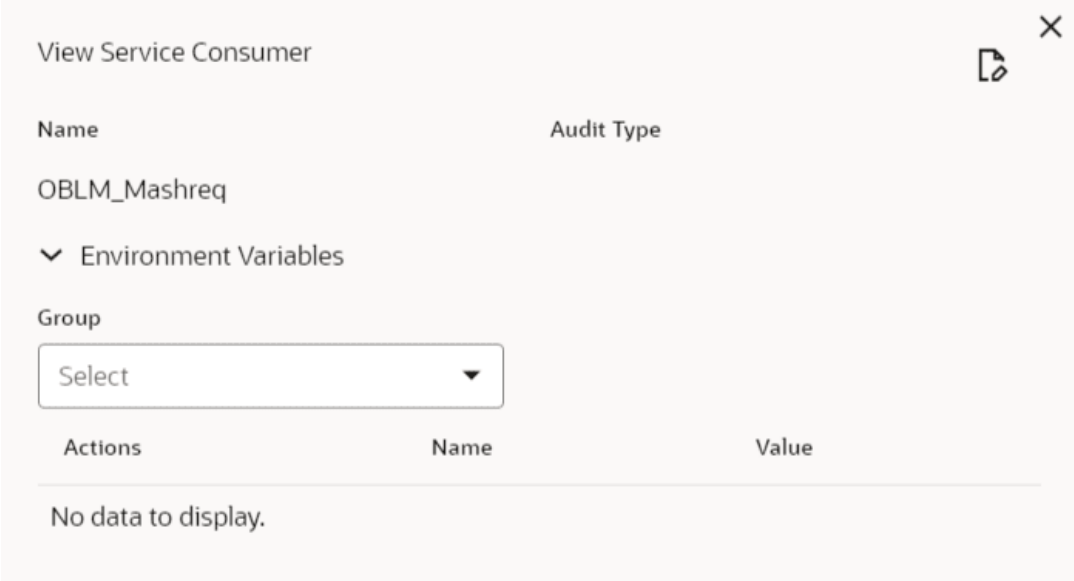
Figure 2-33 View Service Consumer



The user can click edit button to edit the **Service Consumer**.

Edit Service Consumer

13. Click ⋮ and click **Edit**.

    The **Edit Service Consumer** screen is displayed.

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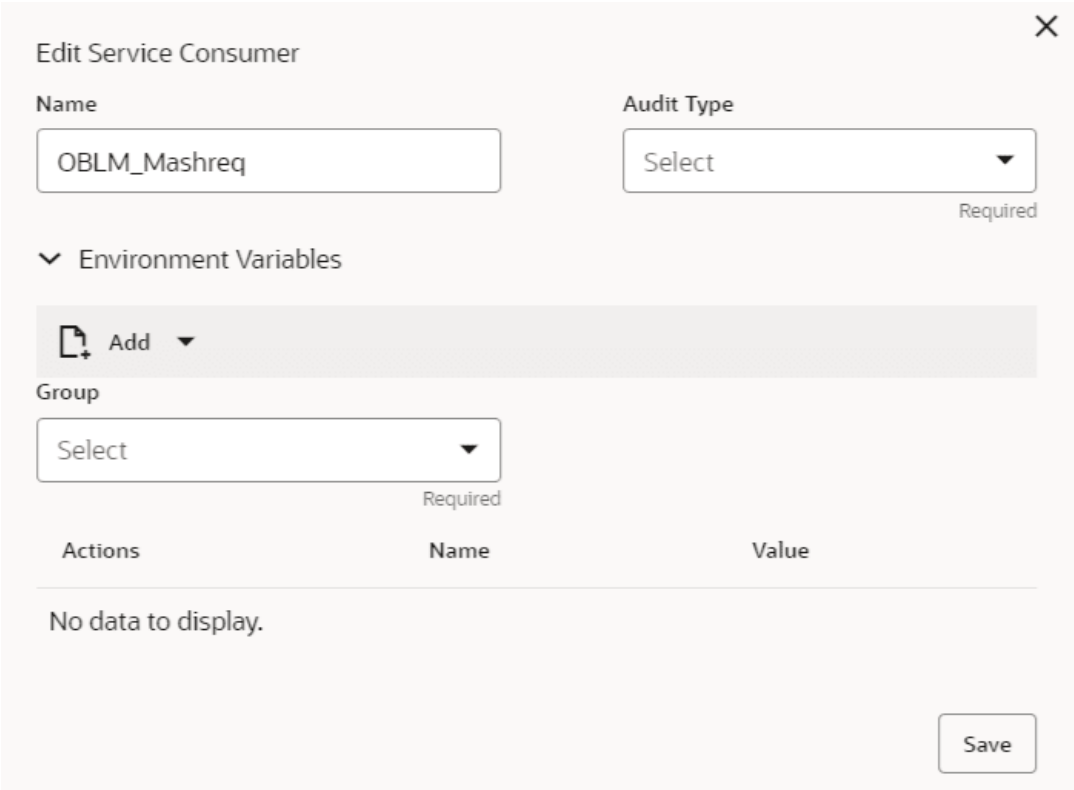
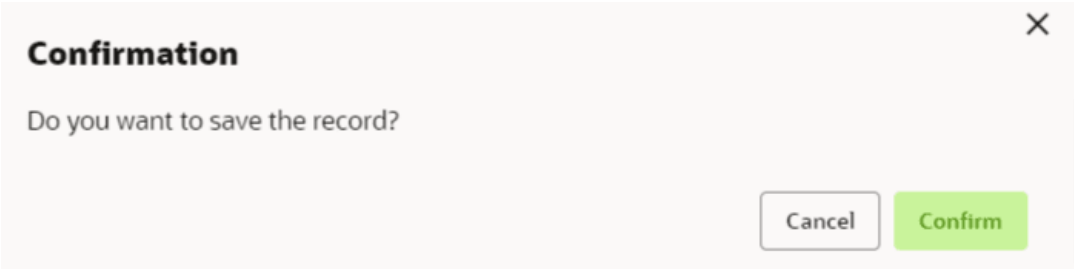
Figure 2-34 Edit Service Consumer



14. Click **Save** to save the details.

    The **Confirmation** screen is displayed.

Figure 2-35 Confirmation - Edit Service Consumer



15. Click **Confirm** to save the record.

Delete Service Consumer

16. Click ⋮ and click **Delete**.

    The **Confirmation** screen is displayed.

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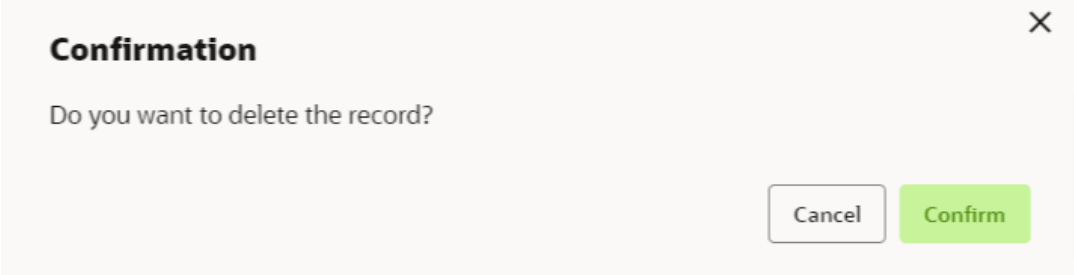
Figure 2-36 Confirmation - Delete Service Consumer



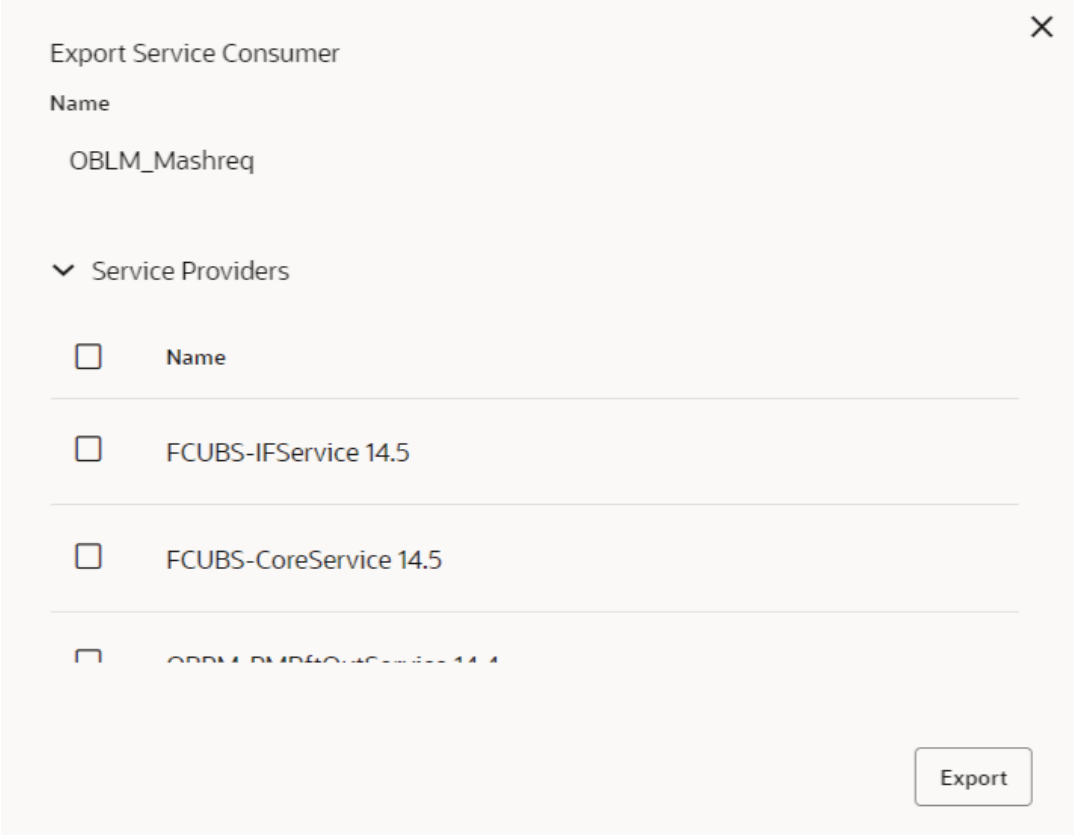
17. Click **Confirm** to delete the record.

Export Service Consumer in JSON

18. Click ⋮ and click **Export**. Select **JSON**.

    The **Export Service Consumer** screen is displayed.

Figure 2-37 Export Service Consumer - JSON



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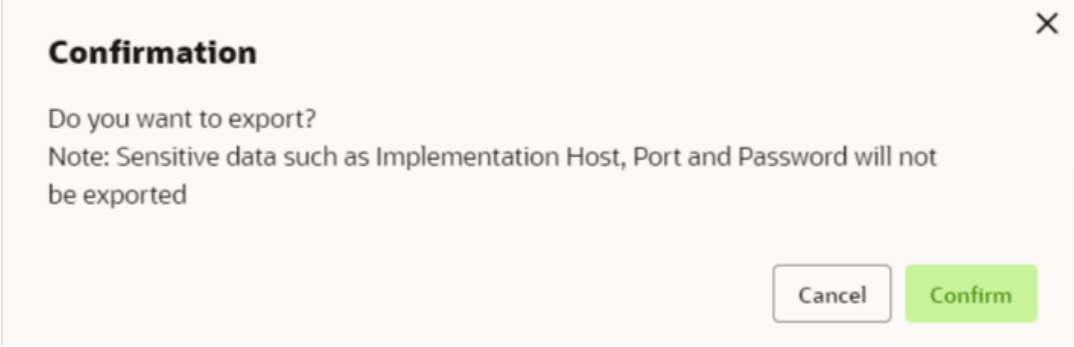
Note

- The user has an option to select service providers from the list which needs to be exported or can click on select all for all service providers.
- The JSON Export feature exports below data:
  - Selected service consumer
  - All consumer services
  - Selected service providers with services
  - Default implementation of selected service providers with services (without Host, Port and Authentication Password)
  - Default transformations
  - All default implementation routes

19. Select the required service providers and click **Export**.

    The **Confirmation** screen is displayed.

Figure 2-38 Confirmation - Export Service Consumer in JSON



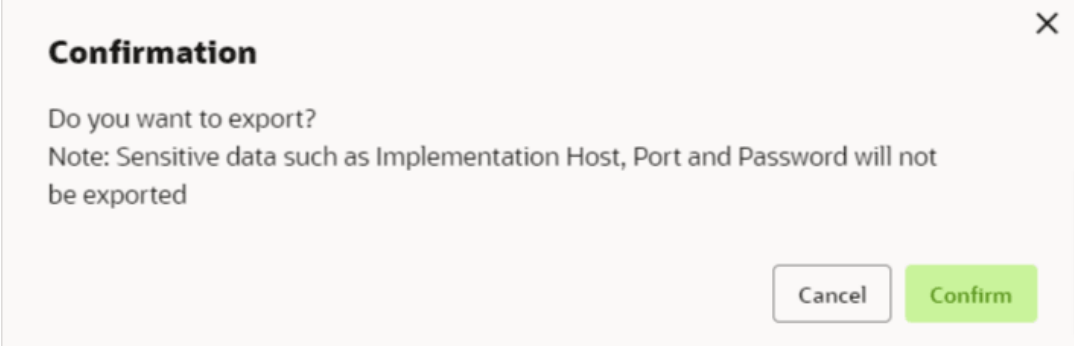
20. Click **Confirm** to export in JSON.

Export Service Consumer in SQL

21. Click **Export** and select **SQL**.

    The **Confirmation** screen is displayed.

Figure 2-39 Confirmation



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> **Note**
>
> The SQL Export feature exports entire configuration without Host, Port, and Authentication Password details.

22. Click **Confirm** to export the Service Consumer in SQL.

2.7.1.2 Service Providers

This topic describes the systematic instructions to configure the service providers.

The **Service Providers** are the product processors configure to process request send by oracle banking routing hub on behalf of service consumers. It comprises of the destination integration details.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Routing Hub**.
2. Under **Routing Hub**, click **Service Consumers**.
3. On **Service Consumers** screen, click the required service consumer.

   The **Service Providers** screen is displayed.

Figure 2-40 Service Providers

To Add Service Provider

4. Click **Add**.

   The **Add Service Provider** screen is displayed.

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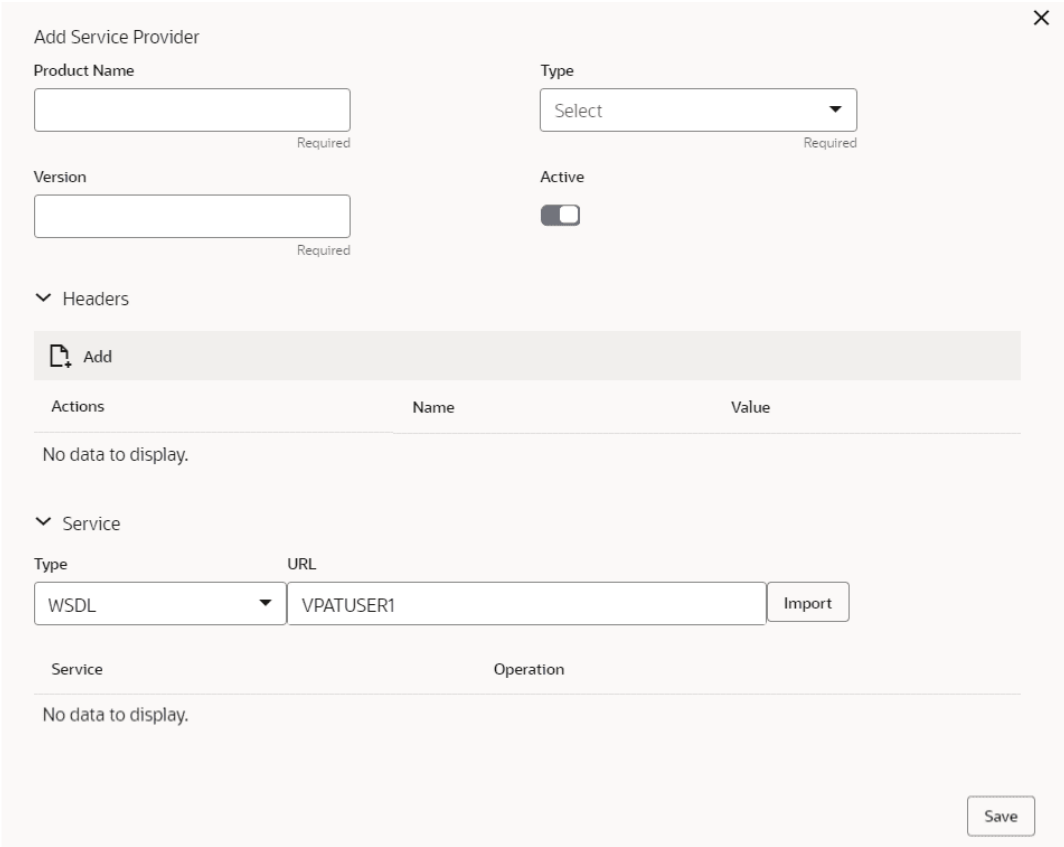
Figure 2-41 Add Service Provider



5. Specify the fields on the **Add Service Provider** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 2-29 Add Service Provider - Field Description

Field	Description
Product Name	Specify the product name of the service provider. **Note**: • Enter 0 to maximum of 255 characters. • No numeric value at beginning and no space allowed.
Type	Select the type of service provider from drop-down list The available options are: • **INTERNAL** • **EXTERNAL**
Version	Specify the provider version. **Note**: • Enter 0 to maximum of 255 characters. • Only numeric or decimal values are allowed.

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Table 2-29 (Cont.) Add Service Provider - Field Description

Field	Description
Active	Predefined values are Active / Inactive If a provider is marked as inactive, the system will stop all related routes.
Add	To add, refer to step 4.
Actions	Displays the action. The user can edit or delete the header.
Name	Displays the name of the header.
Value	Displays the value of the header.
Type	Select the type of service from the drop-down list. The available options are: • **WSDL** • **SWAGGER**
URL	Specify the service URL of the file location.
Import	Click **Import** to extract the service information from URL.
Service	Displays the extracted service from the selected URL.
Operation	Displays the extracted operation from the selected URL.

Headers

External product processor might require some standard headers to be passed along with the request. User can specify the headers which are required by service endpoints for its all implementations but not present in swagger file.

6. To add **Headers**, follow below steps.
   a. Click **Add**.

      The **Add Header** screen is displayed.

Figure 2-42 Add Header

   b. Specify the fields on the **Add Header** screen and click **OK**.

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> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

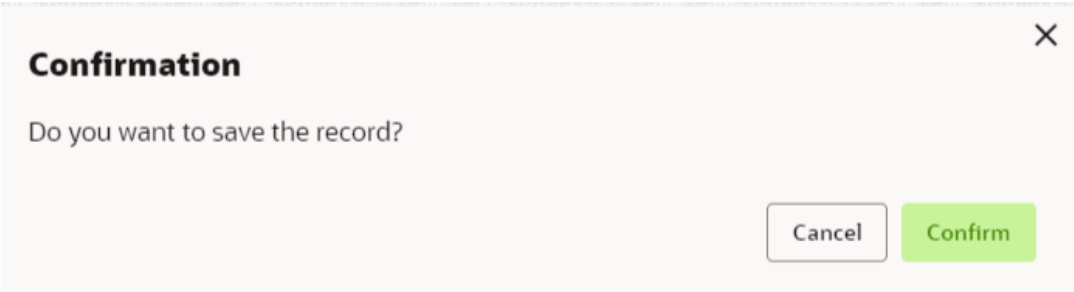
Table 2-30 Add Header - Field Description

Field	Description
Name	Specify the name of the header.
Value	Specify the value of the header.

7. Click **Save** to save the details.

   The **Confirmation** screen is displayed.

Figure 2-43 Confirmation



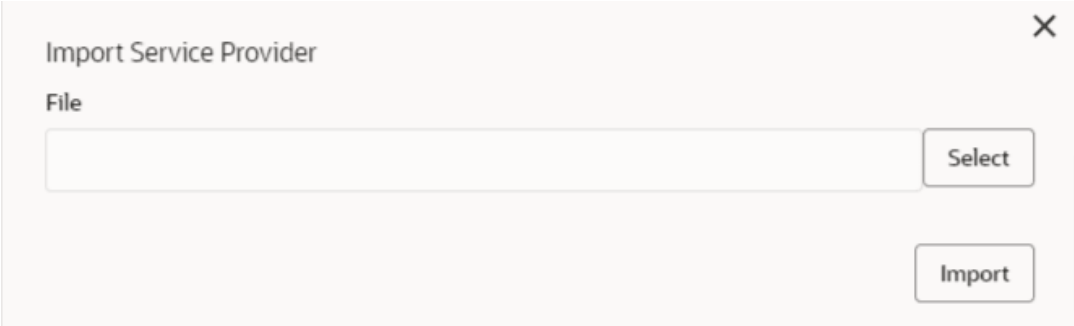
8. Click **Confirm** to save the record.

Import Service Provider

9. Click **Import**.

   The **Import Service Provider** screen is displayed.

Figure 2-44 Import Service Provider



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> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

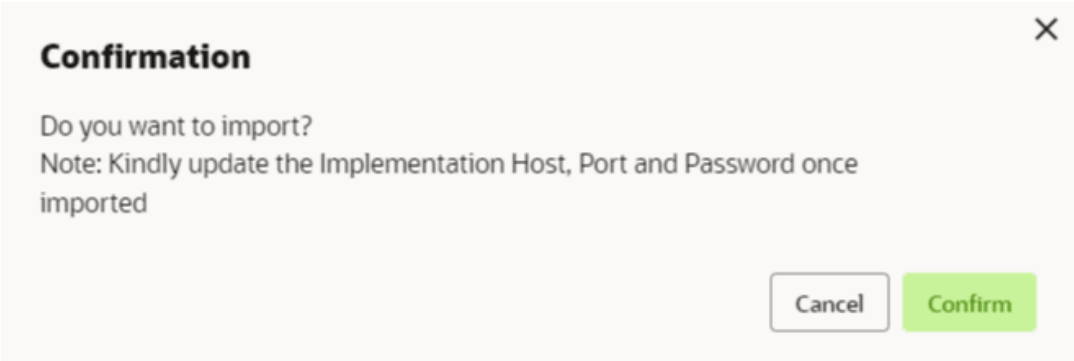
Table 2-31 Import Service Provider - Field Description

Field	Description
File	Select the file using **Select** button. **Note**: Allows only to select one file and accepts only JSON file.

10. Click **Import** to import the selected file.

    The **Confirmation** screen is displayed.

Figure 2-45 Confirmation - Import



> **Note**
>
> Below data needs to be changed after importing provider configuration file:
>
> - Implementation Host and Port
> - Implementation Authentication Password

11. Click **Confirm** to import the record.

View Service Provider

12. Click ⋮ and click **View**.

    The **View Service Provider** screen is displayed.

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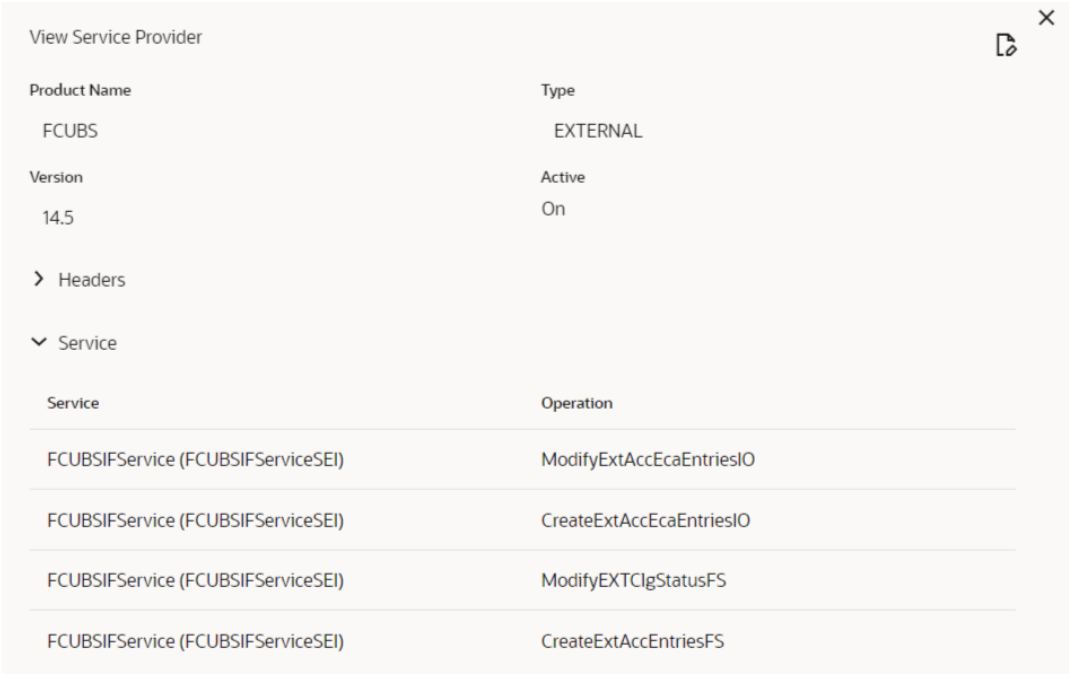
Figure 2-46 View Service Provider



The user can click edit button to edit the **Service Provider**.

Edit Service Provider

13. Click ⋮ and click **Edit**.

    The **Edit Service Provider** screen is displayed.

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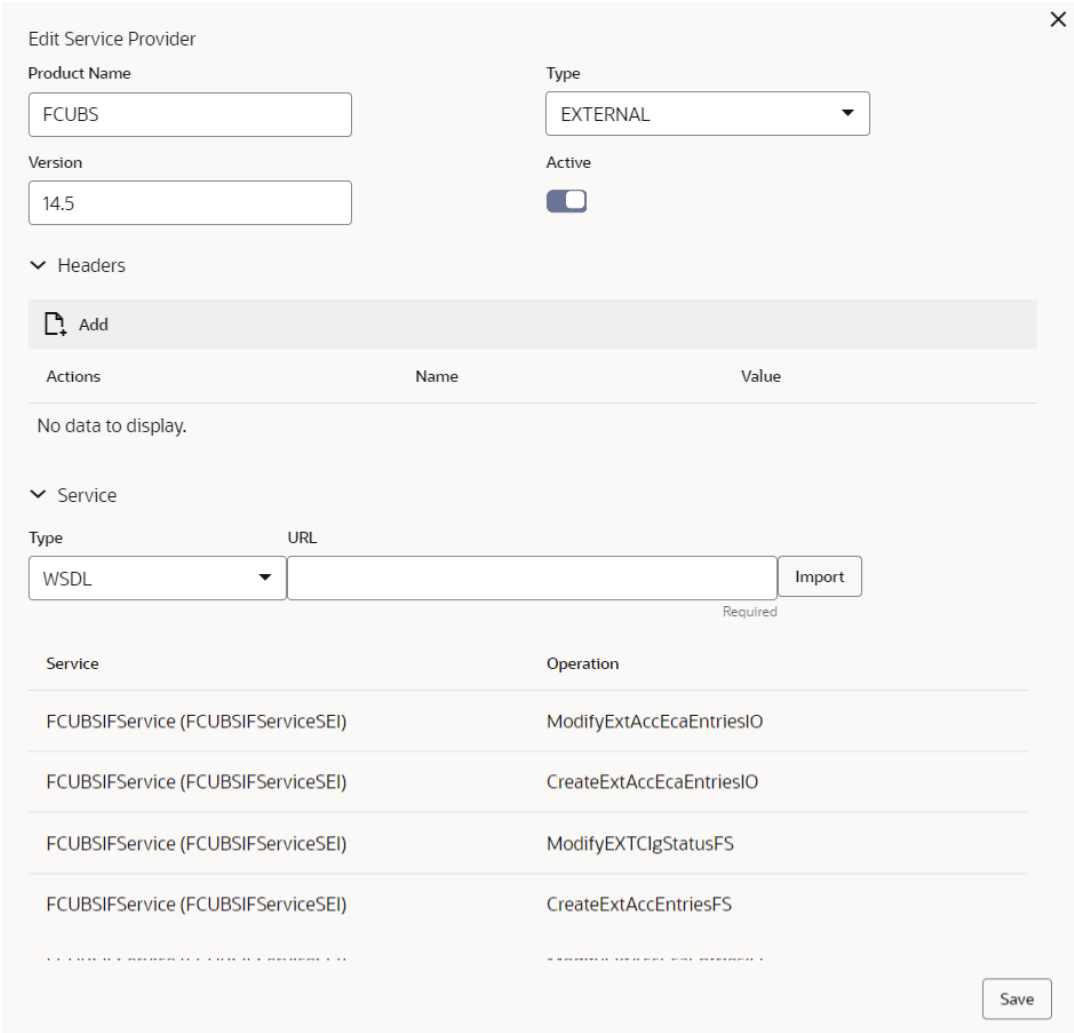
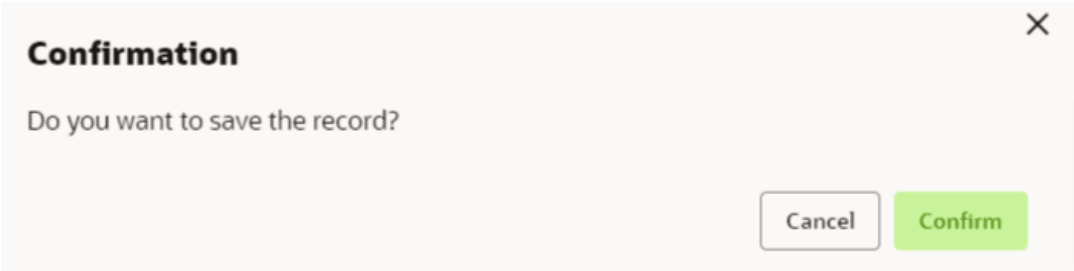
Figure 2-47 Edit Service Provider



14. Click **Save** to save the details.

    The **Confirmation** screen is displayed.

Figure 2-48 Confirmation - Edit Service Provider



15. Click **Confirm** to save the record.

Delete Service Provider

16. Click ⋮ and click **Delete**.

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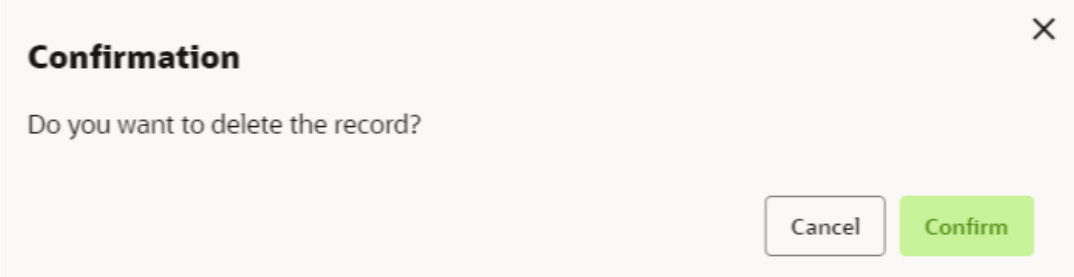
The **Confirmation** screen is displayed.

Figure 2-49 Confirmation - Delete Service Provider



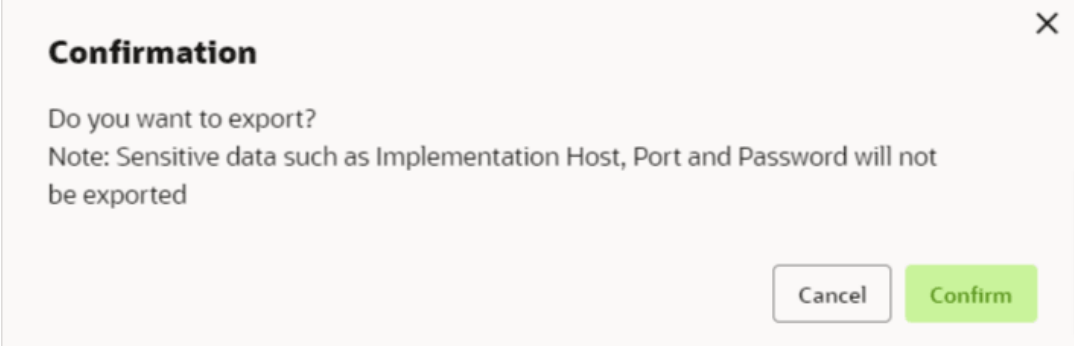
17. Click **Confirm** to delete the record.

Export Service Provider

18. Click ⋮ and click **Export**.

    The **Confirmation** screen is displayed.

Figure 2-50 Confirmation - Export Service Provider



> **Note**
>
> The following data cannot be exported:
>
> - Implementation Host
> - Implementation Port
> - Implementation Authentication Password
>
> The above data needs to be configured manually after importing the configuration file. Same has been mentioned in Import section.

19. Click **Confirm** to export the record.

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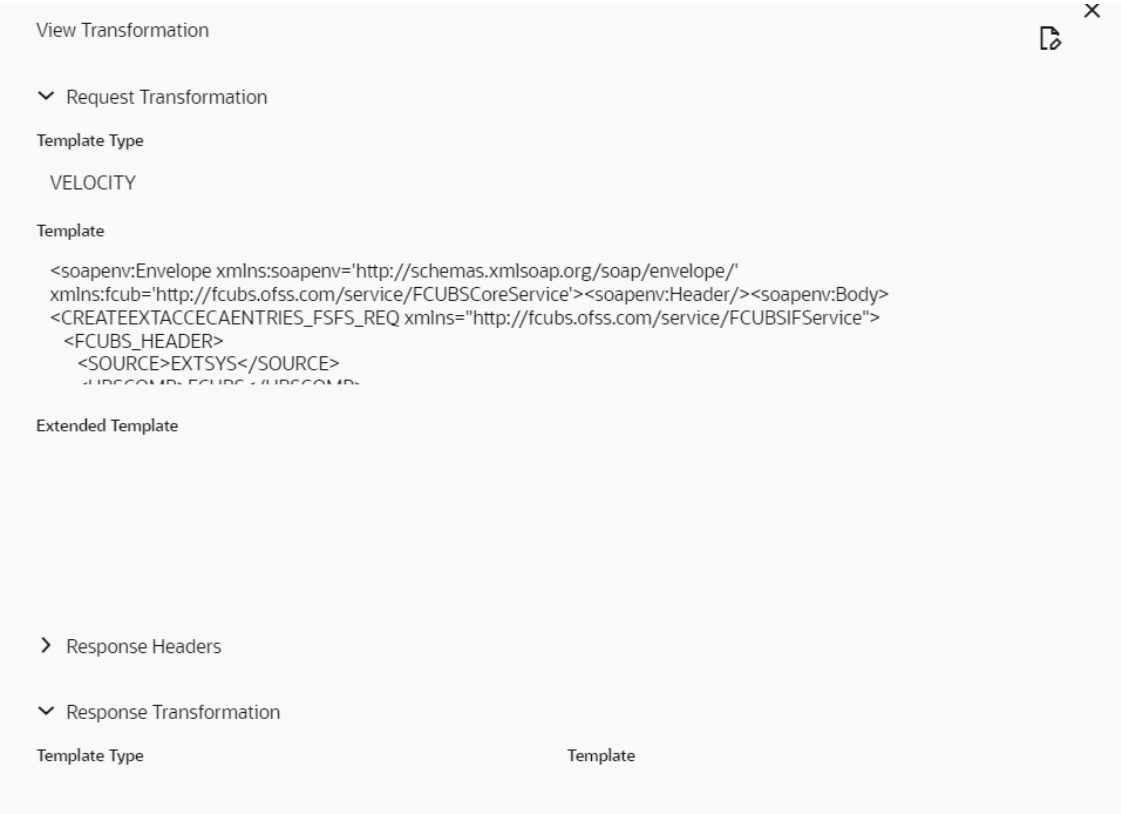
2.7.1.3 Experian Configuration

This topic provides the figures for the Experian configuration.

Experian Fetch Credit Report



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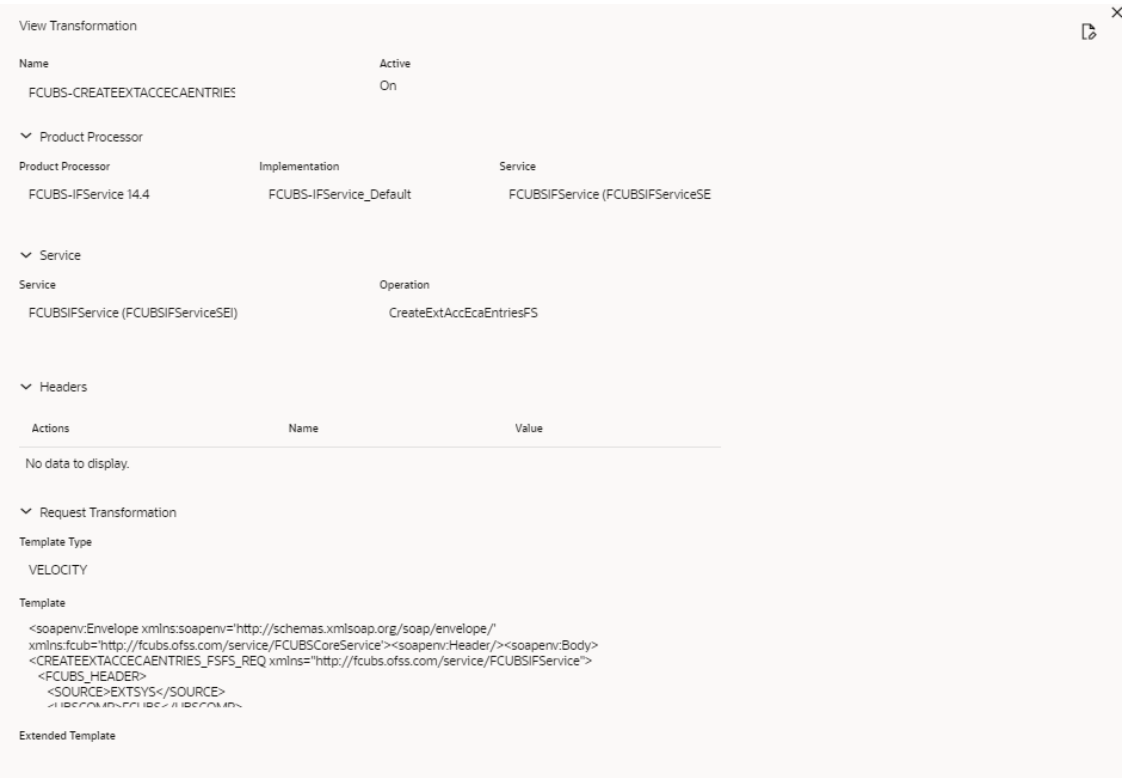
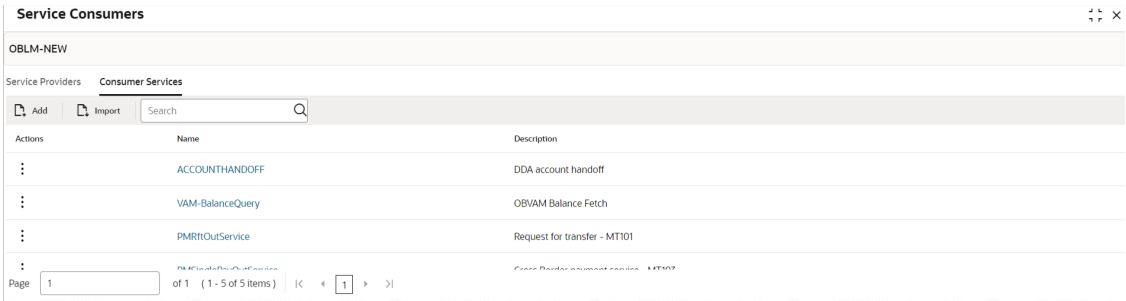


Experian Sandbox

The **Service Consumer** is used to export details of fetch credit report from sandbox environment.



2.7.1.4 Equifax Configuration

This topic describes the information about Equifax configuration.

Equifax is configured in lookup as a bureau and rule services to configure in Oracle Banking Routing Hub as consumer service to fetch details from Equifax sand.

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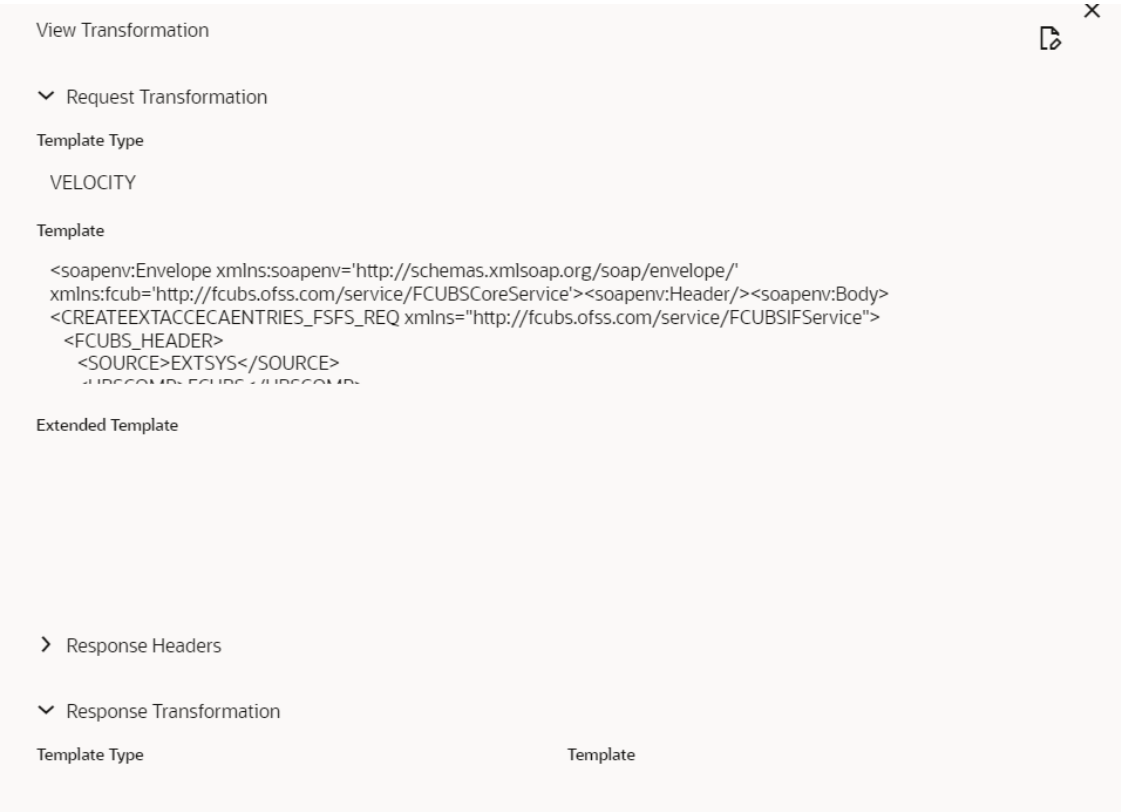
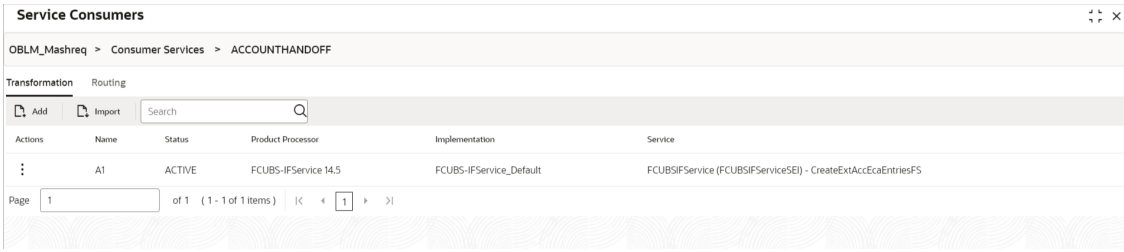
Equifax Fetch Credit Report





Equifax Sandbox

The **Service Consumer** exports details of fetch credit report from sandbox environment.

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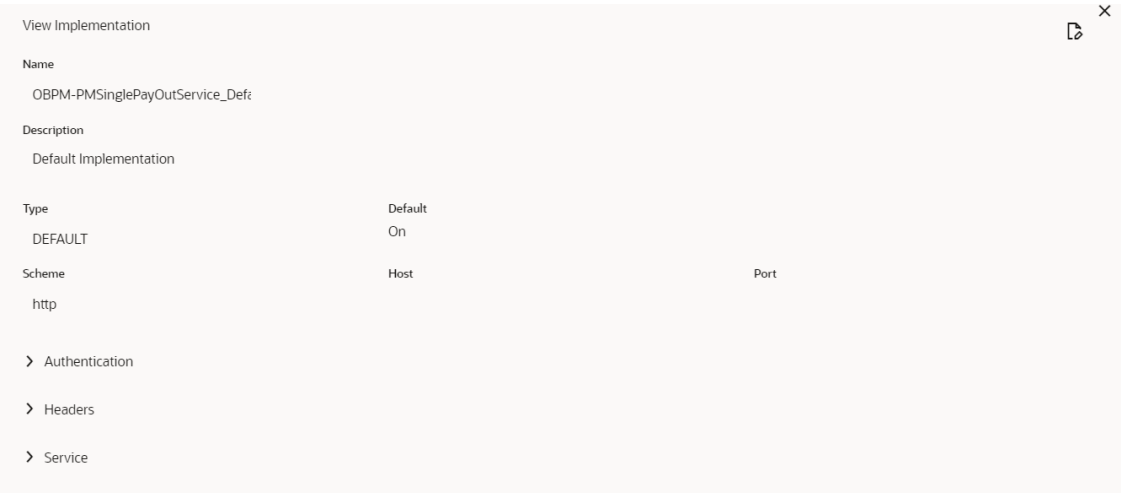

2.7.1.5 Document Configuration

This topic describes the information about document configuration.

Bureaus usually send applicants credit reports in PDF or encrypted format. The product processors prefers the PDF reports for easy readability and usability. In addition, product processors want to display PDF reports in their system and share these reports with the applicants. In such cases, the PDF credit reports are stored in the document server, which can be accessed by the bureau integration service and the product processor.

2.7.1.6 Troubleshooting

This topic describes the information for troubleshooting the Oracle Banking Routing Hub.

Oracle Banking Origination issues faced during cmc-obcbs-service and cmc-obrh-services integration

The password for the Experian account had expired.

The solution is to login to the Experian website and reset the password. The new password is generated via mail and you can configure in Oracle Banking Routing Hub for token generation.

Unable to connect to external server

Oracle Banking Routing Hub server is unable to connect to the experian server. The proxy is not configured

The VM arguments were added for oracle banking routing hub's managed server.

- `Dhttps.proxyHost=www-proxy-idc.in.example.com`
- `Dhttps.proxyPort=80`

Oracle Banking Routing Hub environment variable value not found

The environment variable for the Bureau Integration Service product processor is improper. `($.headers["bureauType"][0]) The correct path was provided($.headers["bureauType"][0]`

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3
Decision Service and Product Designer

This topic describes the information about decision service.

This topic contains the following subtopics:

- Overview
  This topic describes the overview about the Decision service.
- Process Flow
  This topic describes the information about the entire process flow for the Decision service.
- Strategy Configuration
  This topic describes the information about the strategy configuration for Decision service.
- System Parameter
  This topic describes the information about the system parameter configured in Decision service.
- Lookup
  This topic describes the information about the lookup feature in Decision service.
- Product Processor
  This topic describes the information about the product processor.
- Borrowing Capacity
  This topic describes the information about the total amount the applicant is eligible to borrow.
- Strategy Configuration
  This topic describes the information about the strategy configuration.
- Scoring Feature
  This topic describes the information about the scoring feature in Decision service.
- Quantitative Scoring Model
  This topic describes the information about the Quantitative scoring model for the Decision service.
- Decision Grade Matrix
  This topic describes the information about the decision grade matrix feature.
- Pricing
  This topic describes the information about the pricing feature in Decision service.
- Validation Model
  This topic describes the information about the Validation model.
- Qualitative Scoring Model
  This topic describes the information about the Qualitative scoring model for the Decision service.
- Questionnaire
  This topic describes the information about the questionnaire used for credit analysis.
- Counter
  This topic describes the information about the counter feature.

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- Charge Code
  This topic describes the information about the charge code feature.
- Execution Summary
  This topic describes the information to view the decisions, credit score and pricing for the processed application.
- Integrating Decision Service with Oracle Banking Routing Hub
  This topic describes the information to integrate the Decision service with Oracle Banking Routing Hub.
- Relationship Pricing
  This topic describes about the information on relationship pricing.
- Product Manufacturing
  This topic provides information on product manufacturing unit.
- Batch Category
  This topic describes the information to view the batch summary, maintenance and its operations.

3.1 Overview

This topic describes the overview about the Decision service.

The Decision service provides automatic decision making capabilities that can allow lenders to develop simple business processes and strengthen the decision-making process.

It gives flexibility to adjust the credit scoring model according to the lending policy.

When an organization calls the decision service to make a decision based on data attributes shared, system solves the best fit scoring model and provide scores and decisions.

Decision Service is a robust and scalable system that can be easily integrated with any product processor, providing auto-decision capability and risk-based pricing. The service has been enhanced with the following capabilities:

Relationship Pricing features, which make it capable of pricing based on cross-module attributes. The service can source such facts from multiple domains and store them in its local store. Further, it is possible to use a combination of facts from the incoming payload, local facts, and counters to make a benefit decision. These features are described in the section Relationship Pricing.

Product Designer features, which enables users to have a bird's eye view of all the products in the organization. A drill down into each product gives a view of the various features and attributes that make up the product in a presentable single page view. User can copy an existing product, edit the attributes, and create a new product with ease. The designer currently integrates with the respective product processors to render its view. These features are described in the section Product Manufacturing.

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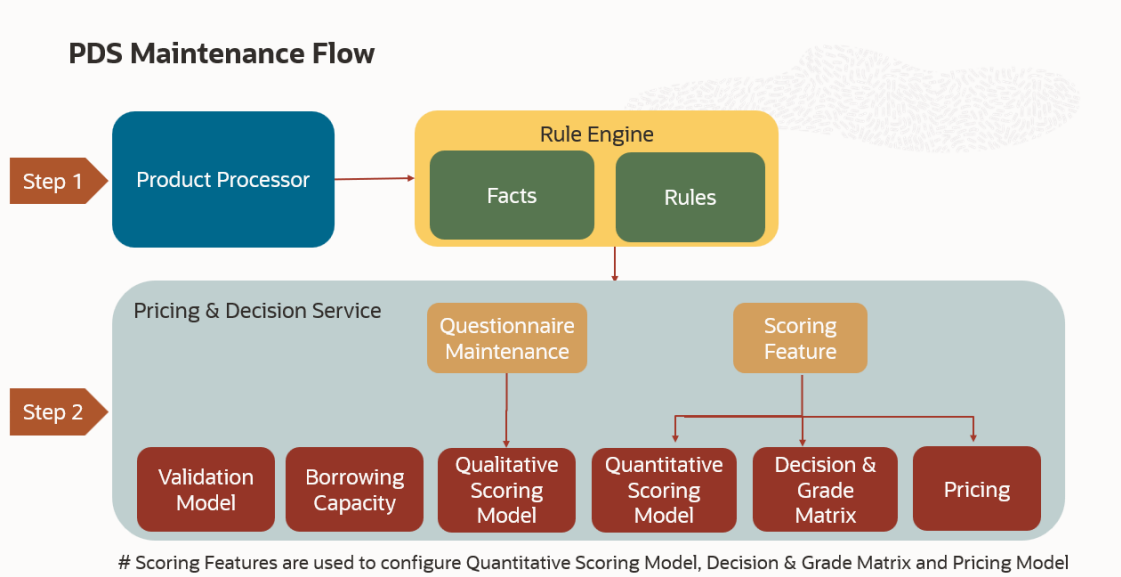
Figure 3-1 PDS Maintenance Flow



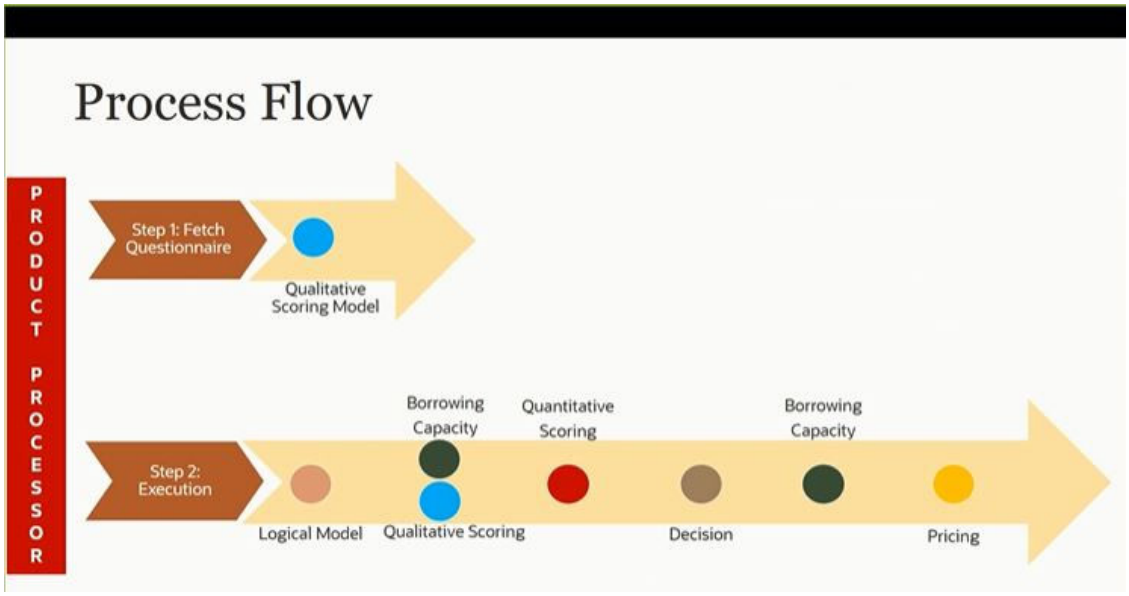
Decision service can be called from various product processor such as Collections, Deposits, Loans, Insurance, Trade Finance or Payment etc. This product processor calls the decision service and the decision service intern uses the rule engine to configure various complex rules.

The decision service can calculate behavioral scores and suggest the best recommended collection strategy accordingly. For lending products, it can offer a credit score, a decision based on the score, the recommended rate of interest and the ability to calculate which is the maximum amount that can be borrowed by the applicant.

3.2 Process Flow

This topic describes the information about the entire process flow for the Decision service.

Figure 3-2 Decision Service - Process Flow



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Questionnaire

The first step is to get the questionnaire. The product processor sends the data of all the applicants in the application. A qualitative scoring model is resolved for each applicant and this information along with the details of the questionnaire is sent back to the product processor. The product processor captures the response to the questions and sends back as part of the second step which is the execution of the credit decision.

Validation Model

First step in execution of the credit decision is validation screening. In this application prescreening is done to check the basic eligibility of the application as per the bank's policy. For example, if the bank's policy is not to fund to property in flood prone area, then as a part of this step, if the property is in flood prone area then the application will be rejected and the application will not be processed further. Or the applicant's minimum age should be more then 18 and the applicant applying is of less than 18, in that case the application is rejected, and it will not be processed further.

Borrowing Capacity

Once eligibility is checked, the next step is borrowing capacity. This is the maximum loan amount the applicant is eligible for. The stage at which it is to be calculated depends on the configuration made. It can be calculated before the scoring after the decision. The loan amount considered for decision is minimum of requested loan amount or the amount calculated for scoring, decision and pricing.

Qualitative Score

After borrowing capacity, the next step is qualitative scoring done using the feedback from the applicants for questionnaire.

Quantitative Score

After qualitative scoring next step is quantitative scoring where scoring is done using application and bureau attributes such as salary, number of credit lines, bureau score, etc.

Decision and Grade

The decision on the application is done based on the quantitative and qualitative scores. The decision can be approve, manual or decline.

The borrowing capacity can also be calculated after the decision, in this case, the amount calculated will be used only for pricing.

Pricing

The last step is to determine the recommended interest rate. This is a risk-based price that refers to offering different interest rates to different customers depending on their risk exposure.

A new export functionality is added to all the maintenances. Bulk creations option added on all the create maintenances. Even though screen shots from Borrowing capacity maintenance are attached below, the functionality is available on all maintenances.

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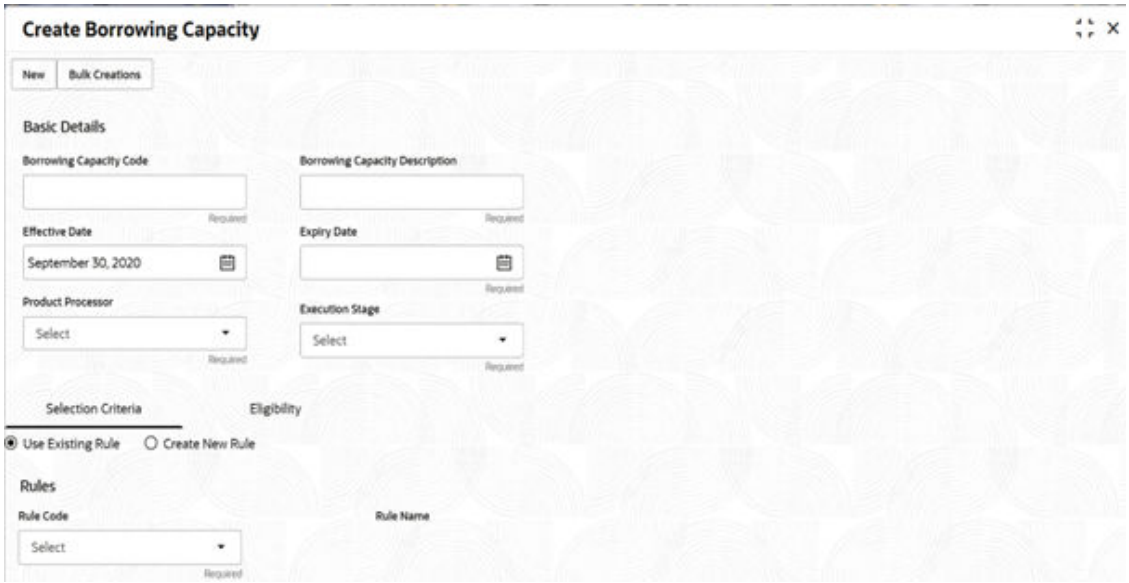
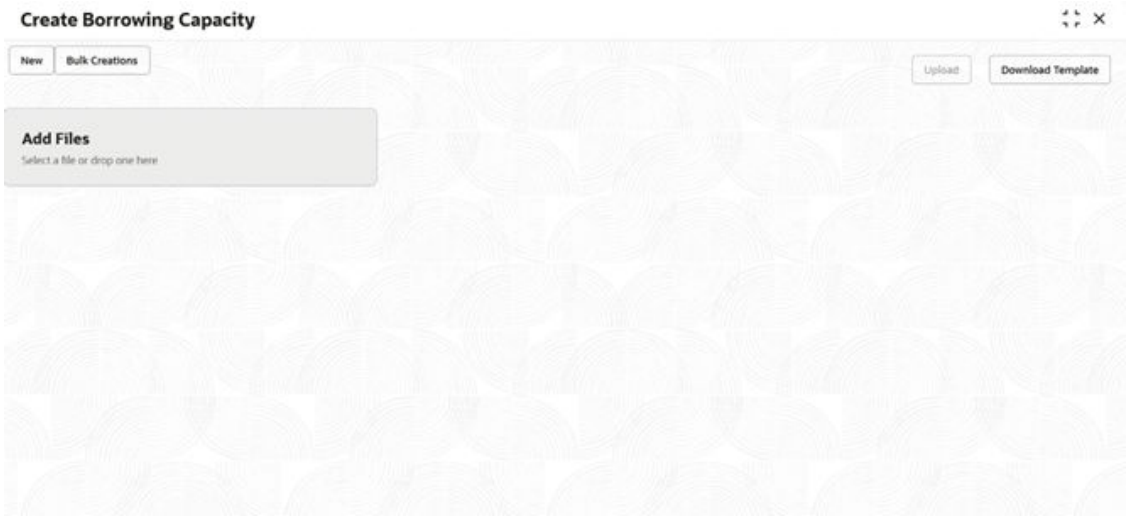
Figure 3-3 Bulk Creations



Once user clicks on **Bulk Creations**, system will give option of downloading the maintenance specific template. User can add data in the excel for bulk creation. And then click on **Upload** to upload and create the maintenances in bulk.

Figure 3-4 Bulk creations - Download template/ Upload



3.3 Strategy Configuration

This topic describes the information about the strategy configuration for Decision service.

Decision service is used for multiple purposes such as borrowing capacity, borrowing capacity plus pricing, only pricing, only decision, logical plus decision, etc. System should have an ability to configure the strategy like when the decision service is being called for borrowing capacity, should the request pass through the logical check. In addition, the product processor can configure different strategies for different product types or customer types. Strategy

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configuration allows the product processor to configure the strategy as per its requirements for all the modes for which decision service can be called. Separate strategy can be defined for origination, servicing or collection. In addition, multiple strategy can be defined for the same module like for origination, that is, multiple strategy can be defined. This maintenance allows the product processor to configure the strategy according to its need for all the modes for which the decision service can be called for.

The various request types using which the product processor can call the decision service are mentioned below:

- Score, Decision, and Pricing
- Score and Decision
- Scores
- Pricing and Borrowing Capacity
- Pricing
- Borrowing Capacity
- Decision
- Qualitative Score
- Quantitative Score

3.4 System Parameter

This topic describes the information about the system parameter configured in Decision service.

System Parameter define the information or values used throughout the system and drives the behavior of the features. They control the way task is executed, or whether the system performs a particular task. Some of the parameters are set when the system is installed, but the values associated with the parameter needs to be reviewed and is to be maintained.

Example:

- qualitativeScore
- quantitativeScore
- applicant_score
- Requested Amount
- CDS GRADE

The fact associated to these system parameters are used programmatically and added in the pool of facts. To define the system parameters, the keys of the system parameters have to be defined in a lookup called SYSPARAM.

This topic contains the following subtopics:

- Create System Parameter
  This topic describes the systematic instructions to create system parameter by updating the various details.
- View System Parameter
  This topic describes the systematic instructions to view the list of configured system parameter.

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3.4.1 Create System Parameter

This topic describes the systematic instructions to create system parameter by updating the various details.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Credit Decision**.
2. Under **Credit Decision**, click **Maintenance**. Under **Maintenance**, click **System Parameter**, then click **Create System Parameter**.

   The **Create System Parameter** screen is displayed.

Figure 3-5 Create System Parameter

3. Specify the fields on the **Create System Parameter** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 3-1 Create System Parameter - Field Description

Field	Description
Parameter Code	Select the parameter code from the drop-down list.
Parameter Description	Specify the short description for the parameter code.
Product Processor	Select the product processor from the drop-down list for which the parameter is being created.
Value	Specify the value for the parameter code.

4. Perform one of the following action:
   - Click **Save** to save the details.
     The **System Parameter** is successfully created and can be viewed using the View System Parameter screen.
   - Click **Cancel** to discard the changes and close the screen.

3.4.2 View System Parameter

This topic describes the systematic instructions to view the list of configured system parameter.

The user can configure the system parameter using the Create System Parameter screen. The status of the created system parameter is displayed as **Unauthorized** and **Open**. Once the checker authorizes the system parameter, the status is updated to **Authorized** and **Open**.

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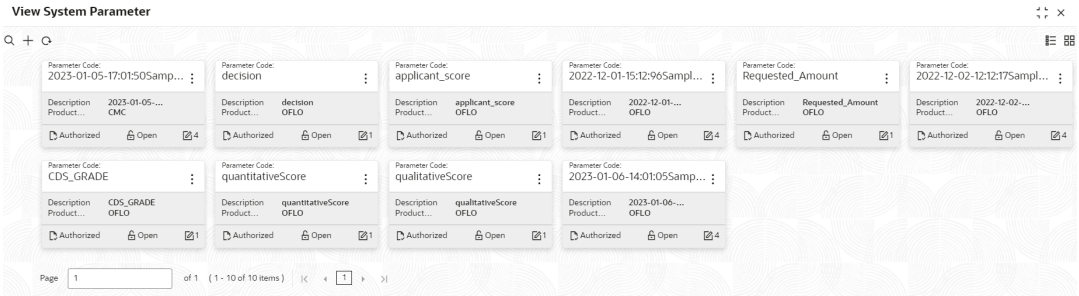
1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Credit Decision**.
2. Under **Credit Decision**, click **Maintenance**. Under **Maintenance**, click **System Parameter**, then click **View System Parameter**.

   The **View System Parameter** screen is displayed.

Figure 3-6 View System Parameter



For more information on fields, refer to the field description table.

Table 3-2 View System Parameter - Field Description

Field	Description
Parameter Code	Displays the parameter code.
Description	Displays the description of the parameter code.
Product Processor	Displays the product processor of the parameter.
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

3. On the **View System Parameter** screen, click icon.

   The **View System Parameter - Search** screen is displayed.

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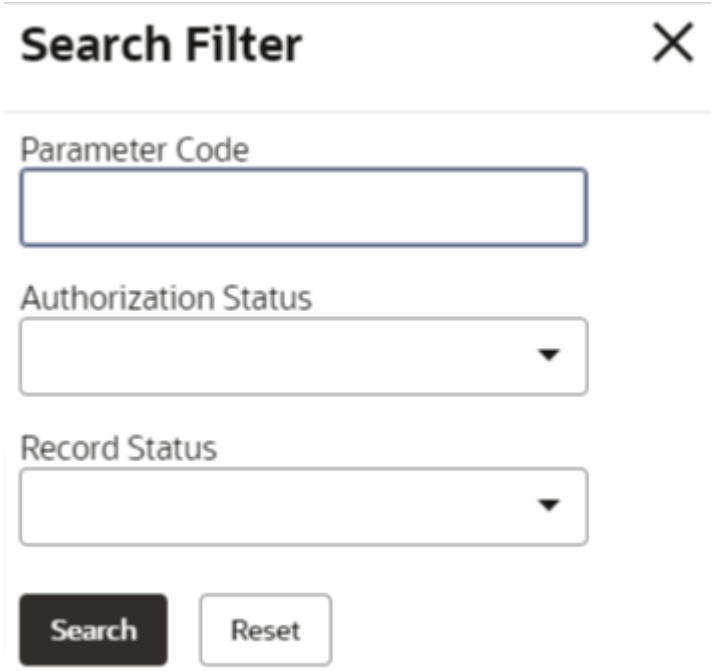
Figure 3-7 View System Parameter - Search



4. On the **View System Parameter - Search** screen, specify the **Search Filter** to fetch the required system parameter.

   For more information on fields, refer to the field description table.

Table 3-3 View System Parameter - Search – Field Description

Field	Description
Parameter Code	Specify the parameter code.
Authorization Status	Select the authorization status from the drop-down list. The available options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Select the record status from the drop-down list. The available options are: • **Open** • **Closed**

5. Click **Search** to display the required system parameter.

6. On **View System Parameter** screen, click ⋮ icon to **Unlock**, **Delete**, **Authorize** or **View** the created parameters.

7. Click **Unlock** to modify the created system parameter.

   The **System Parameter Maintenance - Modify** screen is displayed.

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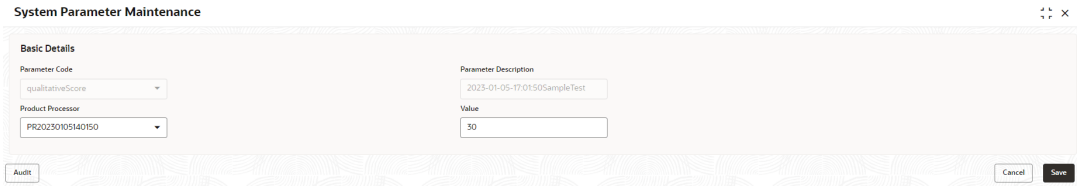
Figure 3-8 System Parameter Maintenance - Modify



For more information on fields, refer to the field description table.

Table 3-4 System Parameter Maintenance - Modify - Field Description

Field	Description
Parameter Code	Displays the created parameter code.
Parameter Description	Displays the created parameter description.
Product Processor	Specify the product processor of the created parameter.
Value	Specify the value for the created parameter.

8. Click **Save** to update the modified fields.
9. Click **View** to view the created system parameter.

   The **System Parameter Maintenance - View** screen displays.

Figure 3-9 System Parameter Maintenance - View

For more information on fields, refer to the field description table.

Table 3-5 System Parameter Maintenance - View - Field Description

Field	Description
Parameter Code	Displays the created parameter code.
Parameter Description	Displays the created parameter description.
Product Processor	Displays the product processor of the created parameter.
Value	Displays the value for the created parameter.

3.5 Lookup

This topic describes the information about the lookup feature in Decision service.

The lookup are the service for mapping of keys and values used to enrich the description of the data displayed to the user. The lookup screen allows user to define contents for a list of drop-

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down or value fields. These are used throughout the system. The identified fields only accept the entries stored.

Below are some examples of the lookup fields.

- Static/Enumeration values
  - Decision: Like Approve, Decline, Manual.
  - Colour – like red, green etc. Colour is used to highlight the decision i.e. Approve to be highlighted in Green, Reject can be highlighted in Red. The colour and decision combination is configurable.
  - Grade like A, B, C etc.
  - Strategy Configuration Code
  - ScoringModelType,
  - ExecutionSteps,
  - ExecutionModes,
  - BWCExecStage,
  - QuestionType,
  - QuestionSubType
- Dependent lookup based on another selection
  - Pricing lookup - Based on decision, Pricing should have different behaviour based on decision.

This topic contains the following subtopics:

- Create Lookup
  This topic describes the systematic instructions to create lookup definitions by updating various details.
- View Lookup
  This topic describes the systematic instructions to view the list of configured lookup for Decision Service.

3.5.1 Create Lookup

This topic describes the systematic instructions to create lookup definitions by updating various details.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Credit Decision**.
2. Under **Credit Decision**, click **Maintenance**. Under **Maintenance**, click **Lookup** then click **Create Lookup**.

   The **Create Lookup** screen is displayed.

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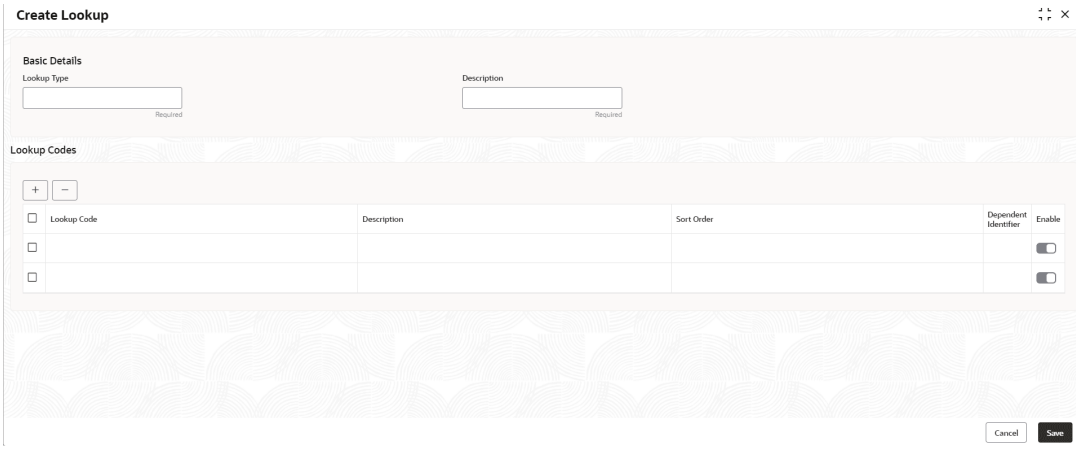
Figure 3-10 Create Lookup



3. Specify the fields on the **Create Lookup** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 3-6 Create Lookup - Field Description

Field	Description
Lookup Type	Specify the unique lookup type name.
Description	Specify the short description for lookup.
+ button	Click to add a new row.
- button	Click to delete a row that is already added.
Lookup Code	Specify the unique lookup code.
Description	Specify the short description for lookup.
Sort Order	Specify the sort order.
Dependent Identifier	Specify the dependent Identifier.
Enable	By default this option is enabled. Indicates if the lookup is enabled or not.

4. Perform one of the following action:
   - Click **Save** to save the details.
     The **Lookup** is successfully created and can be viewed using the View Lookup screen.
   - Click **Cancel** to discard the changes and close the screen.

3.5.2 View Lookup

This topic describes the systematic instructions to view the list of configured lookup for Decision Service.

The user can configure the lookup using the Create Lookup screen. The status of the created lookup is displayed as **Unauthorized** and **Open**. Once the checker authorizes the lookup, the status is updated to **Authorized** and **Open**.

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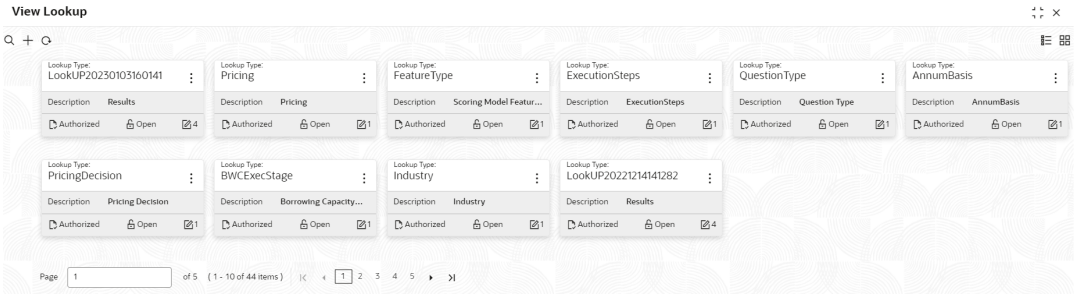
1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Credit Decision**.
2. Under **Credit Decision**, click **Maintenance**. Under **Maintenance**, click **Lookup** click **View Lookup**.

   The **View Lookup** screen is displayed.

Figure 3-11 View Lookup



For more information on fields, refer to the field description table.

Table 3-7 View Lookup - Field Description

Field	Description
Lookup Type	Displays the lookup type.
Description	Displays the description of the lookup type.
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

3. On **View Lookup** screen, click icon.

   The **View Lookup - Search** screen is displayed.

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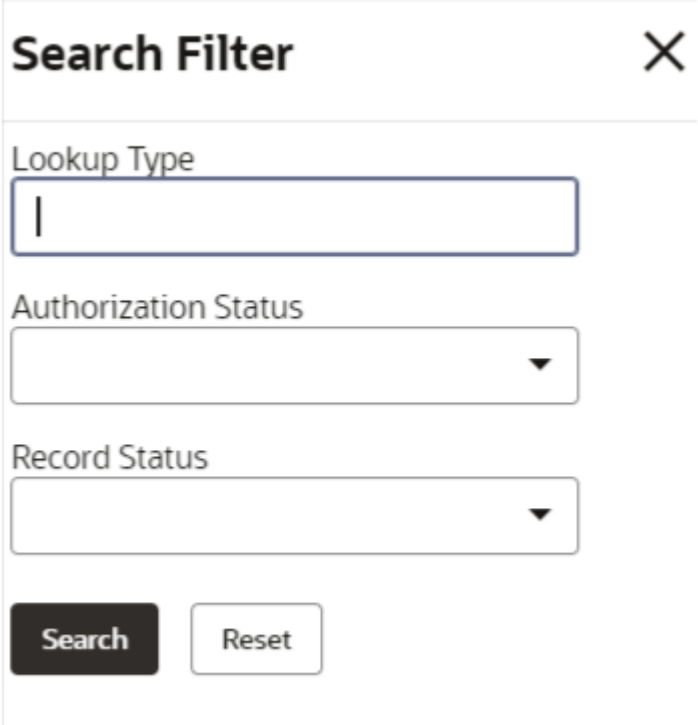
Figure 3-12 View Lookup - Search



4. On **View Lookup - Search** screen, specify the **Search Filter** to fetch the required lookup.

   For more information on fields, refer to the field description table.

Table 3-8 View Lookup – Search – Field Description

Field	Description
Lookup Type	Specify the lookup type name.
Authorization Status	Select the authorization status of the lookup. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Select the record status of the lookup. The options are: • **Open** • **Closed**

5. Click **Search** to display the required lookup.

6. On **View Lookup** screen, click ⋮ icon to **Unlock**, **Delete**, **Authorize** or **View** the created lookup.

7. Click **Unlock** to modify the created lookup.

   The **Lookup Maintenance - Modify** screen is displayed.

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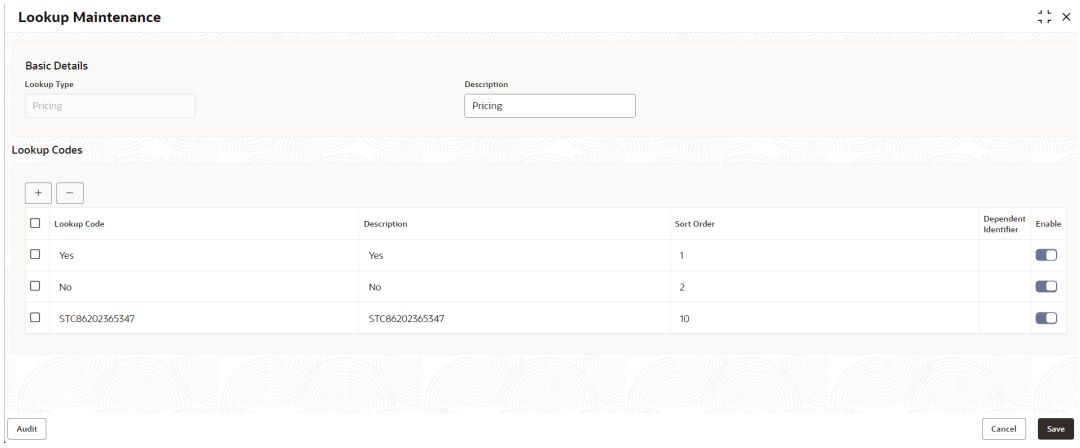
Figure 3-13 Lookup Maintenance - Modify



For more information on fields, refer to the field description table.

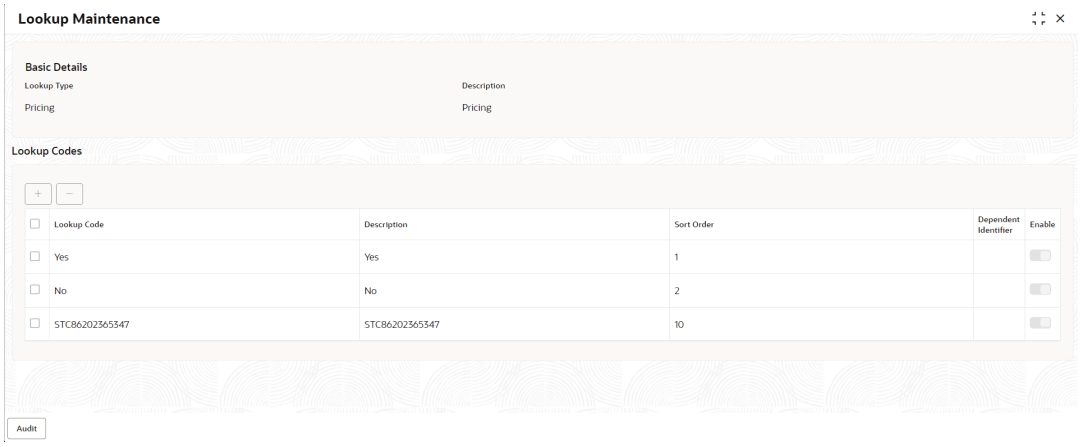
Table 3-9 Lookup Maintenance - Modify - Field Description

Field	Description
Lookup Type	Displays the created lookup type.
Description	Specify the description of the lookup type.
Lookup Code	Displays the lookup code for the created lookup.
Description	Displays the description for the created lookup.
Sort Order	Displays the sort order for the created lookup.
Dependent Identifier	Displays the dependent identifier for the created lookup.
Enable	Displays the lookup code if enabled for the created lookup.

8. Click **Save** to update the modified fields.
9. Click **View** to view the created lookup code.

   The **Lookup Maintenance - View** screen displays.

Figure 3-14 Lookup Maintenance - View



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For more information on fields, refer to the field description table.

Table 3-10 Lookup Maintenance - View - Field Description

Field	Description
Lookup Type	Displays the created lookup type.
Description	Displays the created lookup type description.
Lookup Code	Displays the lookup code for the created lookup.
Description	Displays the description for the created lookup.
Sort Order	Displays the sort order for the created lookup.
Dependent Identifier	Displays the dependent identifier for the created lookup.
Enable	Displays the lookup code if enabled for the created lookup.

3.6 Product Processor

This topic describes the information about the product processor.

The source system calling the decision system for decisioning the credit application is defined as product processor. There are multiple data segments like account information, customer details, collateral details, credit bureau information or any additional notes if any is received from the product processor for credit decisioning and pricing in decision service.

This topic contains the following subtopics:

- Create Product Processor
  This topic describes the systematic instructions to create product processor by updating various details.
- View Product Processor
  This topic describes the systematic instructions to view the list of product processor.
- Create Product Processor
  This topic describes the systematic instructions to create product processor by updating various details.
- View Product Processor
  This topic describes the systematic instructions to view the list of product processor.

3.6.1 Create Product Processor

This topic describes the systematic instructions to create product processor by updating various details.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Credit Bureau**.
2. Under **Credit Bureau**, click **Maintenance**. Under **Maintenance**, click **Product Processor**, then click **Create Product Processor**.

   The **Create Product Processor** screen is displayed.

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Figure 3-15 Create Product Processor

3. Specify the fields on the **Create Product Processor** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 3-11 Create Product Processor - Field Description

Field	Description
Product Processor Code	Specify the unique product processor code.
Product Processor Description	Specify the short description for product processor.
Effective Date	Specify the effective date.
Expiry Date	Specify the expiry date.

4. Perform one of the following action:
   - Click **Save** to save the details.
     The **Product Processor** is successfully created and can be viewed using the View Product Processor screen.
   - Click **Cancel** to discard the changes and close the screen.

3.6.2 View Product Processor

This topic describes the systematic instructions to view the list of product processor.

The user can create the product processor using the Create Product Processor screen. The status of the created system parameter is displayed as **Unauthorized** and **Open.** Once the checker authorizes the system parameter, the status is updated to **Authorized** and **Open**.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Credit Bureau**.

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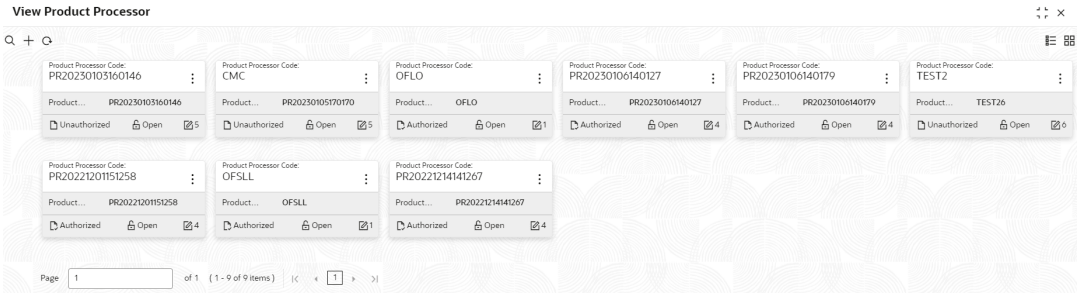
2. Under **Credit Bureau**, click **Maintenance**. Under **Maintenance**, click **Product Processor**, then click **View Product Processor**.

   The **View Product Processor** screen is displayed.

Figure 3-16 View Product Processor



For more information on fields, refer to the field description table.

Table 3-12 View Product Processor - Field Description

Field	Description
Product Processor Code	Displays the product processor code.
Product Processor Description	Displays the description of the product processor.
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

3. On **View Product Processor** screen, click icon.

   The **View Product Processor - Search** screen is displayed.

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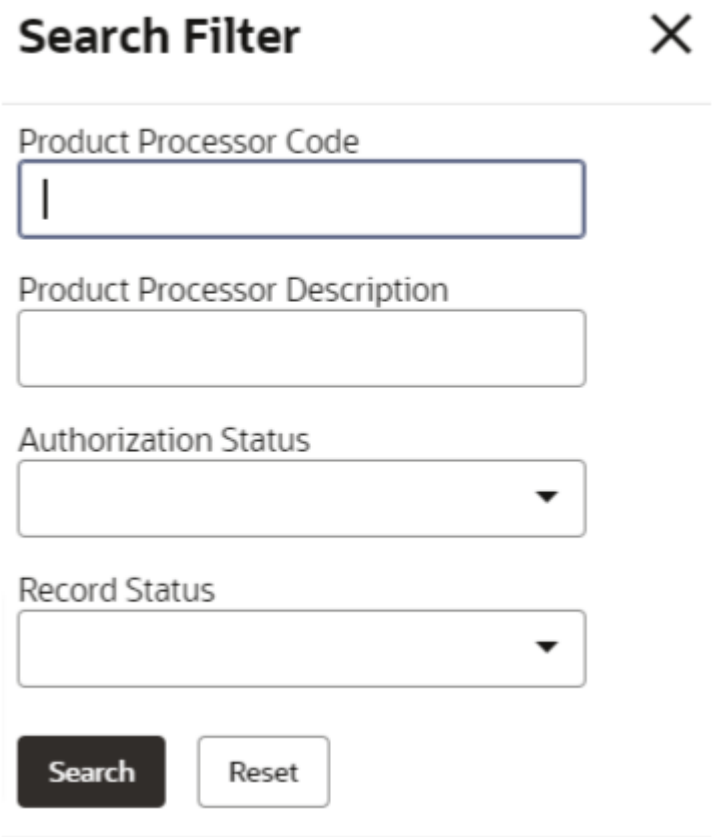
Figure 3-17 View Product Processor - Search



4. On the **View Product Processor - Screen** screen, specify the **Search Filter** to fetch the required product processor.

   For more information on fields, refer to the field description table.

Table 3-13 View Product Processor - Search - Field Description

Field	Description
Product Processor Code	Specify the product processor code.
Product Processor Description	Specify the product processor description.
Authorization Status	Select the authorization status of the product processor. The available options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Select the record status of the product processor. The available options are: • **Open** • **Closed**

5. Click **Search** to display the required product processor.

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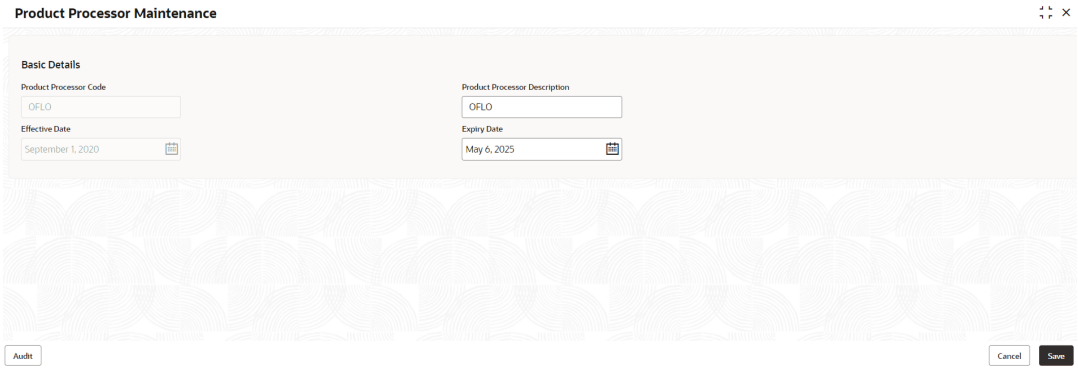
6. On the **View Product Processor** screen, click ⋮ icon to **Unlock**, **Delete**, **Authorize** or **View** the created product processor.
7. Click **Unlock** to modify the created product processor.

   The **Product Processor Maintenance - Modify** screen is displayed.

Figure 3-18 Product Processor Maintenance - Modify



For more information on fields, refer to the field description table.

Table 3-14 Product Processor Maintenance - Modify - Field Description

Field	Description
Product Processor Code	Displays the product processor code.
Product Processor Description	Displays the product processor description. This field is editable.
Effective Date	Displays the effective date of the created product processor. User can modify the same before authorization if it is future dated.
Expiry Date	Displays the expiry date of the created product processor. This field is editable.

8. Click **Save** save the details.
9. Click **View** to view the created product processor.

   The **Product Processor Maintenance - View** screen is displayed.

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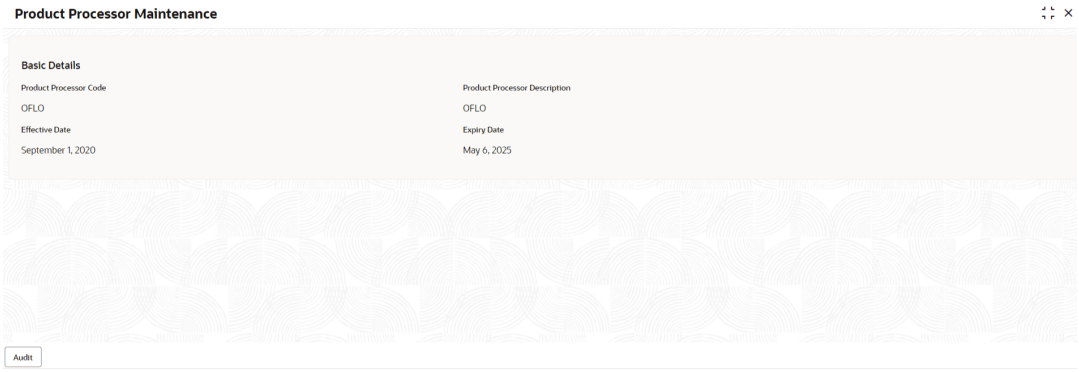
Figure 3-19 Product Processor Maintenance - View



For more information on fields, refer to the field description table.

Table 3-15 Product Processor Maintenance - View - Field Description

Field	Description
Product Processor Code	Displays the product processor code.
Product Processor Description	Displays the product processor description.
Effective Date	Displays the effective date of the created product processor.
Expiry Date	Displays the expiry date of the created product processor.

3.7 Borrowing Capacity

This topic describes the information about the total amount the applicant is eligible to borrow.

Maximum loan amount are used for loans, credit cards, and line of credit accounts. The maximum credit amount depends on a number of factors including the borrower's credit worthiness, that is, financial profile and debt to income, loan term, loan purpose, whether the loan is supported by a collateral etc.

Using this screen, the user can link a rule for calculating borrowing capacity. The user can calculate the maximum lendable amount based on the various criteria of the lender such as debt to income ratio, credit score, credit history, etc.

A sample rule to calculate borrowing capacity is given below:

Scenario: Based on Income and FICO score

Rule 1:

IF MIN(FICO_SCORE) >= 500 AND MIN(EMPLOYMENT_PERIOD)< 1 YEAR

THEN MULTIPLIER = 5

ELSEIF MIN(FICO_SCORE) < 500 AND MIN(EMPLOYMENT_PERIOD) > 1 YEAR

THEN MULTIPLIER = 4

Rule2: Max Lendable Amount

MIN(Income) * Rule1

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This topic contains the following subtopics:

- Create Borrowing Capacity
  This topic describes the systematic instructions to define the borrowing capacity based on the various input.
- View Borrowing Capacity
  This topic describes the systematic instructions to view the borrowing capacity.

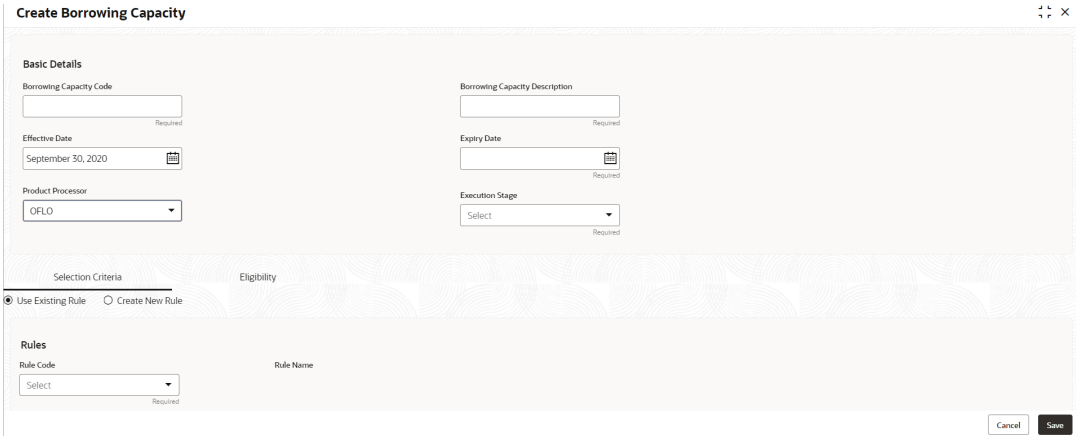
3.7.1 Create Borrowing Capacity

This topic describes the systematic instructions to define the borrowing capacity based on the various input.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Credit Decision**.
2. Under **Credit Decision**, click **Maintenance**. Under **Maintenance**, click **Borrowing Capacity**, then click **Create Borrowing Capacity**.

   The **Create Borrowing Capacity** screen is displayed.

Figure 3-20 Create Borrowing Capacity



3. Specify the fields on the **Create Borrowing Capacity** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 3-16 Create Borrowing Capacity - Field Description

Field	Description
Borrowing Capacity Code	Specify the unique borrowing capacity code.
Borrowing Capacity Description	Specify a short description for the borrowing capacity.
Effective Date	Specify the effective date.

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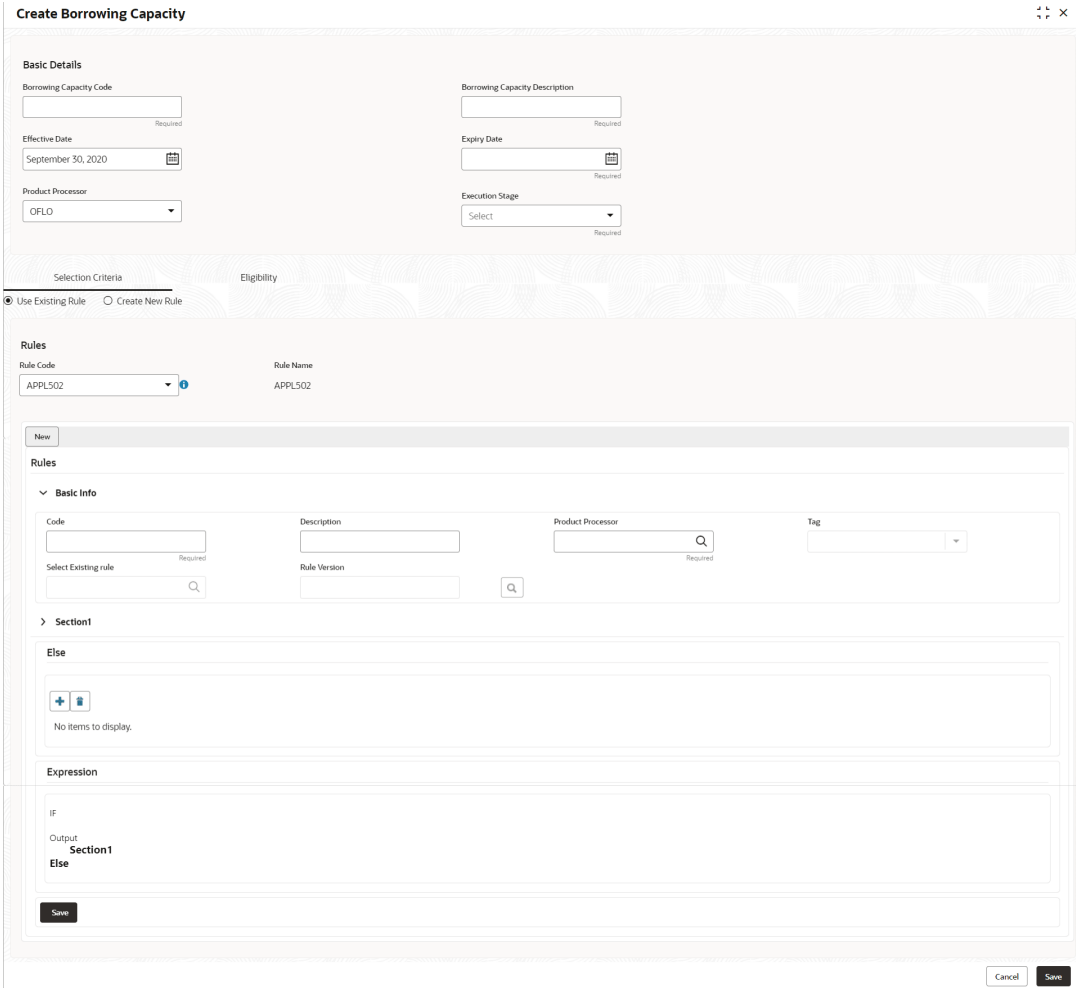
Table 3-16 (Cont.) Create Borrowing Capacity - Field Description

Field	Description
Expiry Date	Specify the expiry date.
Product Processor	Specify the product processor for which the borrowing capacity is being defined.
Execution Stage	Select the required option for execution stage from the drop-down list. The available options are: • **Before Decision**: If this option is selected, amount is calculated before scoring model resolution. Loan amount is replaced with the minimum of requested loan amount and maximum lendable amount for scoring and pricing. • **After Decision**: If this option is selected, Amount is calculated after decision and before pricing. Loan amount is replaced with the minimum of requested loan amount and maximum lendable amount for pricing.

4. On the **Create Borrowing Capacity** screen, click **Selection Criteria** tab to define selection criteria rules.

   The **Create Borrowing Capacity - Selection Criteria** screen is displayed.

Figure 3-21 Create Borrowing Capacity - Selection Criteria



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For more information on fields, refer to the field description table.

Table 3-17 Create Borrowing Capacity - Selection Criteria - Field Description

Field	Description
Use Existing Rule	By default, this option is enabled. Indicates if the existing rule is linked.
Rule Code	Select the rule code from the drop down list.
	Click this icon to get the information about the rule.
Rule Name	Displays the rule name for the selected rule code.
New	Select this option to create new rule.
Code	Specify the rule code.
Description	Specify the rule description.
+ icon	Click this icon to add new expression.
Fact / Rules	Select the fact or rule from the drop-down list. Once the user selects the fact/rules, one more field opens adjacent to the output, update the same based on the selected output option.
Operator	Select the comparison operator from the drop-down list. The available options are: • **<** • **>** • **+** • **=** • **%** • **!=** • **-** • **>=** • **<=** • ***** • **/** • **Contains** • **In** • **Matches** • **NotMatches** • **NotContains** • **Notin**
Data Type	Select the data type for the fact or rule. Once the user select the data type, one more field opens adjacent to the output, update the same based on the selected output option. The available options are: • **Text** • **Number** • **Boolean** • **Date** • **Fact** • **Rules** The below option appears if the **Data Type** is selected as **Boolean**. • **True** • **False**

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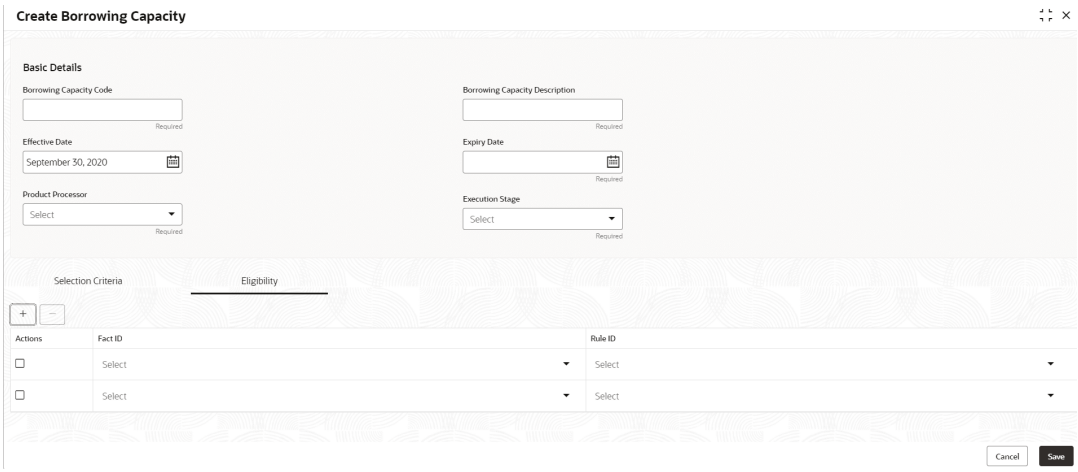
Table 3-17 (Cont.) Create Borrowing Capacity - Selection Criteria - Field Description

Field	Description
Output	Select the output from the drop-down list. Once the user select the data type, one more field opens adjacent to the output, update the same based on the selected output option. The available options are: • **Text** • **Number** • **Boolean** • **Date** • **Fact** • **Rules** The below option appears if the **Data Type** is selected as **Boolean**. • **True** • **False**
Expression	Displays the expression updated in the expression builder.

5. On the **Create Borrowing Capacity** screen, click the **Eligibility** to define eligibility.

   The **Create Borrowing Capacity - Eligibility** screen is displayed.

Figure 3-22 Create Borrowing Capacity - Eligibility



For more information on fields, refer to the field description table.

Table 3-18 Create Borrowing Capacity - Eligibility - Field Description

Field	Description
+ icon	Click this icon to add a new row.
- icon	Click this icon to delete a row, which is already added.
Actions	Select this check box corresponding to the row to be deleted.
Fact ID	Select the fact ID from the drop-down list.
Rule ID	Select the rule ID from the drop-down list.

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Table 3-18 (Cont.) Create Borrowing Capacity - Eligibility - Field Description

Field	Description
	Click this icon to get the information about the rule.

6. Perform one of the following action:
   - Click **Save** to save the details.
     The **Borrowing Capacity** is successfully created and can be viewed using the View Borrowing Capacity screen.
   - Click **Cancel** to discard the changes and close the screen.

3.7.2 View Borrowing Capacity

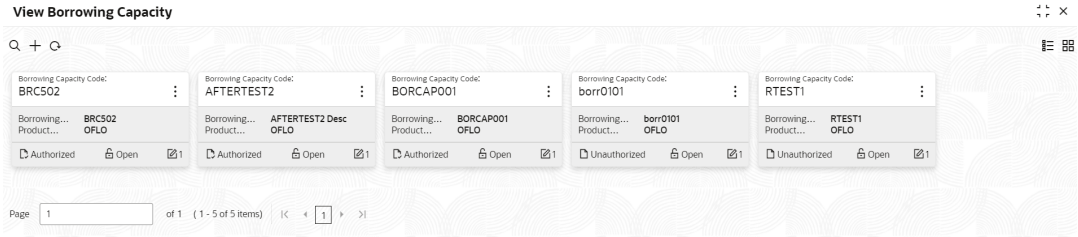
This topic describes the systematic instructions to view the borrowing capacity.

The user can configure the borrowing capacity using the Create Borrowing Capacity screen. The status of the created capacity is displayed as **Unauthorized** and **Open**. Once the checker authorizes the capacity, the status is updated to **Authorized** and **Open**.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Credit Decision**.
2. Under **Credit Decision**, click **Maintenance**. Under **Maintenance**, click **Borrowing Capacity**, then click **View Borrowing Capacity**.

   The **View Borrowing Capacity** screen is displayed.

Figure 3-23 View Borrowing Capacity



For more information on fields, refer to the field description table.

Table 3-19 View Borrowing Capacity – Field Description

Field	Description
Borrowing Capacity Code	Displays the borrowing capacity code.
Borrowing Capacity Description	Displays the borrowing capacity description.
Product Processor	Displays the product processor.

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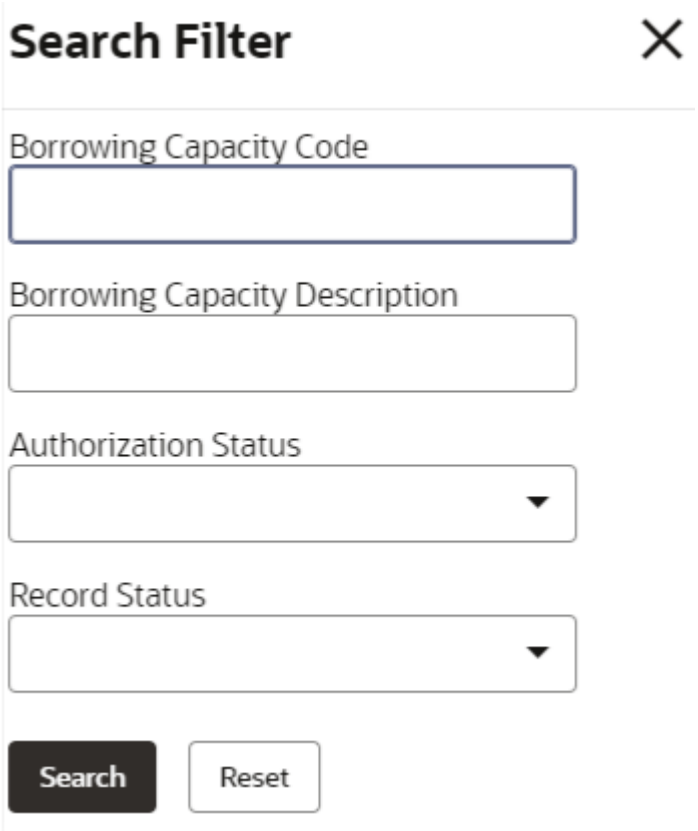
Table 3-19 (Cont.) View Borrowing Capacity – Field Description

Field	Description
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

3. On the **View Borrowing Capacity** screen, click icon.

   The **View Borrowing Capacity - Search** screen is displayed.

Figure 3-24 View Borrowing Capacity - Search



4. On the **View Borrowing Capacity - Search** screen, specify the **Search Filter** to fetch the required borrowing capacity.

   For more information on fields, refer to the field description table.

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Table 3-20 View Borrowing Capacity - Search – Field Description

Field	Description
Borrowing Capacity Code	Specify the borrowing capacity code.
Borrowing Capacity Description	Specify the borrowing capacity description.
Authorization Status	Select the authorization status from the drop-down list. The available options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Select the record status from the drop-down list. The available options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

5. Click **Search** to display to required borrowing capacity.
6. On the **View Borrowing Capacity** screen, click ⋮ icon to **Unlock**, **Delete**, **Authorize** or **View** the created borrowing capacity.
7. Click **Unlock** to modify the borrowing capacity.

   The **Borrowing Capacity Maintenance - Modify** screen is displayed.

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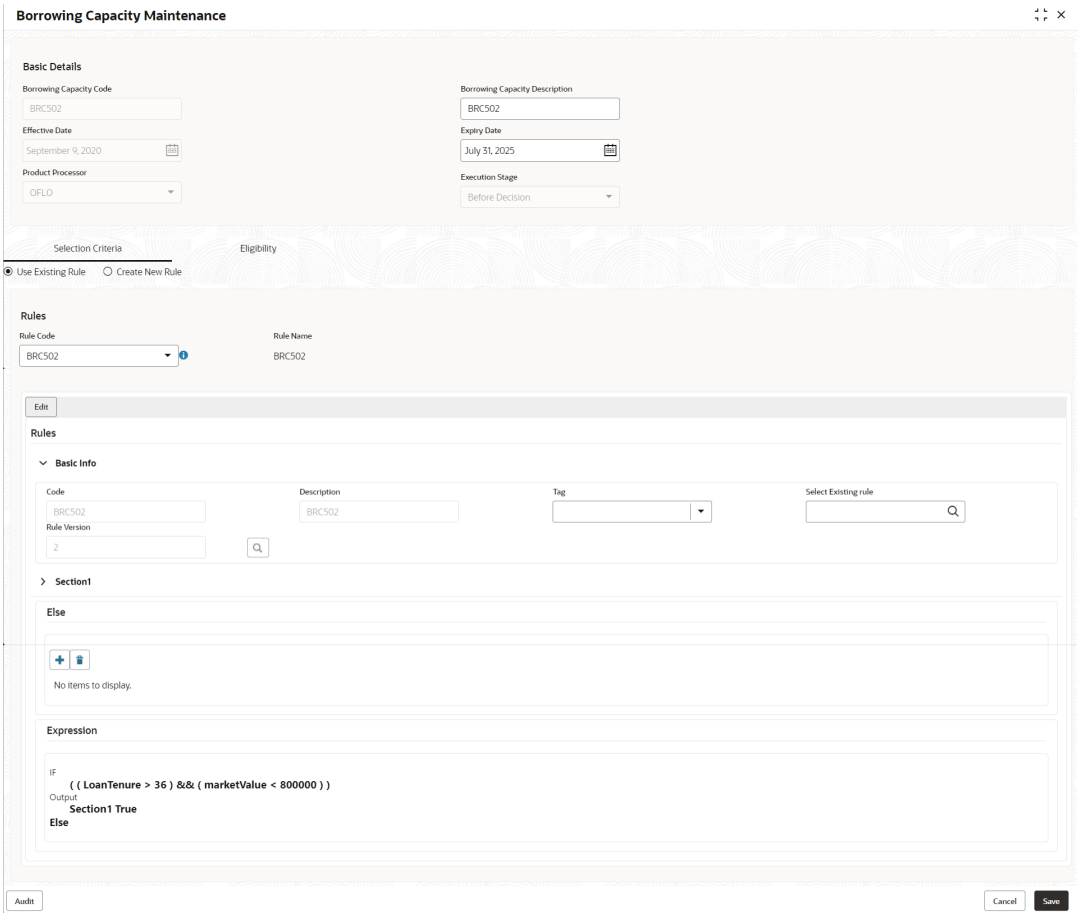
Figure 3-25 Borrowing Capacity Maintenance - Modify



> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 3-21 Borrowing Capacity Maintenance - Modify - Field Description

Field	Description
Borrowing Capacity Code	Displays the model code for the created borrowing capacity.
Borrowing Capacity Description	The user can modify the model description for the created borrowing capacity.
Effective Date	The user can modify effective date for the borrowing capacity.
Expiry Date	The user can modify date of the created borrowing capacity.
Product Processor	Displays the product processor for the borrowing capacity.
Execution Stage	Displays execution stage for the borrowing capacity.

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Table 3-21 (Cont.) Borrowing Capacity Maintenance - Modify - Field Description

Field	Description
Use Existing Rule	Indicates if the existing rule is linked.
Rule Code	The user can modify the rule code for the created borrowing capacity.
	Click this icon to get the information about the rule.
Rule Name	Displays the rule name of the rule code for the created borrowing capacity.
Create New Rule	The user can modify the rule code for the created borrowing capacity.
Code	Specify the new rule code for borrowing capacity.
Description	Specify the rule description for the borrowing capacity.
Fact / Rules	Displays the fact or rule for the created borrowing capacity.
Operator	Displays the comparison operator for the created borrowing capacity.
Data Type	Displays the data type for the fact or rule for the created borrowing capacity.
Output	Displays the output for the created borrowing capacity.
Expression	Displays the expression updated in the expression builder for the created borrowing capacity.
Fact ID	The user can modify the fact ID of the created borrowing capacity.
Rule ID	The user can modify the rule ID of the created borrowing capacity.
	Click this icon to get the information about the rule.

8. Click **Save** to save the details.
9. Click **View** to view the borrowing capacity.

   The **Borrowing Capacity Maintenance – View** screen is displayed.

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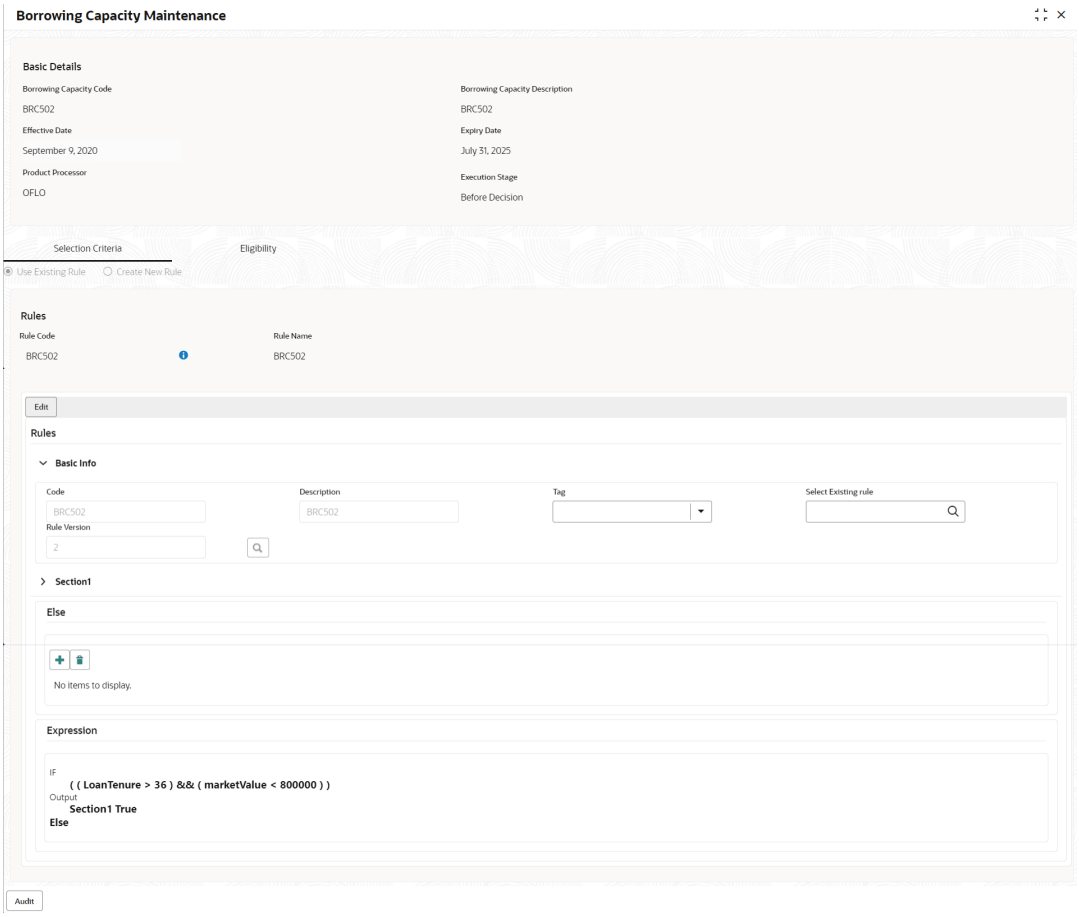
Figure 3-26 Borrowing Capacity Maintenance – View



For more information on fields, refer to the field description table.

Table 3-22 Borrowing Capacity Maintenance - View - Field Description

Field	Description
Borrowing Capacity Code	Displays the model code for the created borrowing capacity.
Borrowing Capacity Description	Displays the model description for the created borrowing capacity.
Effective Date	Displays effective date for the borrowing capacity.
Expiry Date	Displays date of the created borrowing capacity.
Product Processor	Displays the product processor for the borrowing capacity.
Execution Stage	Displays execution stage for the borrowing capacity.
Use Existing Rule	Indicates if the existing rule is linked.
Rule Code	Displays the rule code for the created borrowing capacity.
	Click this icon to get the information about the rule.
Rule Name	Displays the rule name of the rule code for the created borrowing capacity.

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Table 3-22 (Cont.) Borrowing Capacity Maintenance - View - Field Description

Field	Description
Create New Rule	Displays the rule code for the created borrowing capacity.
Code	Displays the rule code for borrowing capacity.
Description	Displays the rule description for the borrowing capacity.
Fact / Rules	Displays the fact or rule for the created borrowing capacity.
Operator	Displays the comparison operator for the created borrowing capacity.
Data Type	Displays the data type for the fact or rule for the created borrowing capacity.
Output	Displays the output for the created borrowing capacity.
Expression	Displays the expression updated in the expression builder for the created borrowing capacity.
Fact ID	Displays the fact ID of the created borrowing capacity.
Rule ID	Displays the rule ID of the created borrowing capacity.
	Click this icon to get the information about the rule.

3.8 Strategy Configuration

This topic describes the information about the strategy configuration.

Decision service is used for multiple purposes such as borrowing capacity, borrowing capacity plus pricing, only pricing, only decision, logical plus decision etc. System should have an ability to configure the strategy like when the decision service is being called for borrowing capacity, should the request pass through the logical check. In addition, the product processor can configure different strategies for different product types or customer types. Strategy configuration allows the product processor to configure the strategy as per its requirements for all the modes for which decision service can be called. Separate strategy can be defined for origination, servicing or collection. In addition, multiple strategy can be defined for the same module like for origination i.e. multiple strategy can be defined. This maintenance allows the product processor to configure the strategy according to its need for all the modes for which the decision service can be called for.

This topic contains the following subtopics:

- Create Strategy Configuration
  This topic describes the systematic instructions to create strategy configuration as per the requirement.
- View Strategy Configuration
  This topic describes the systematic instructions to view the list of strategy configuration.

3.8.1 Create Strategy Configuration

This topic describes the systematic instructions to create strategy configuration as per the requirement.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Credit Decision**.
2. Under **Credit Decision**, click **Maintenance**. Under **Maintenance**, click **Strategy Configuration**, then click **Create Strategy Configuration**.

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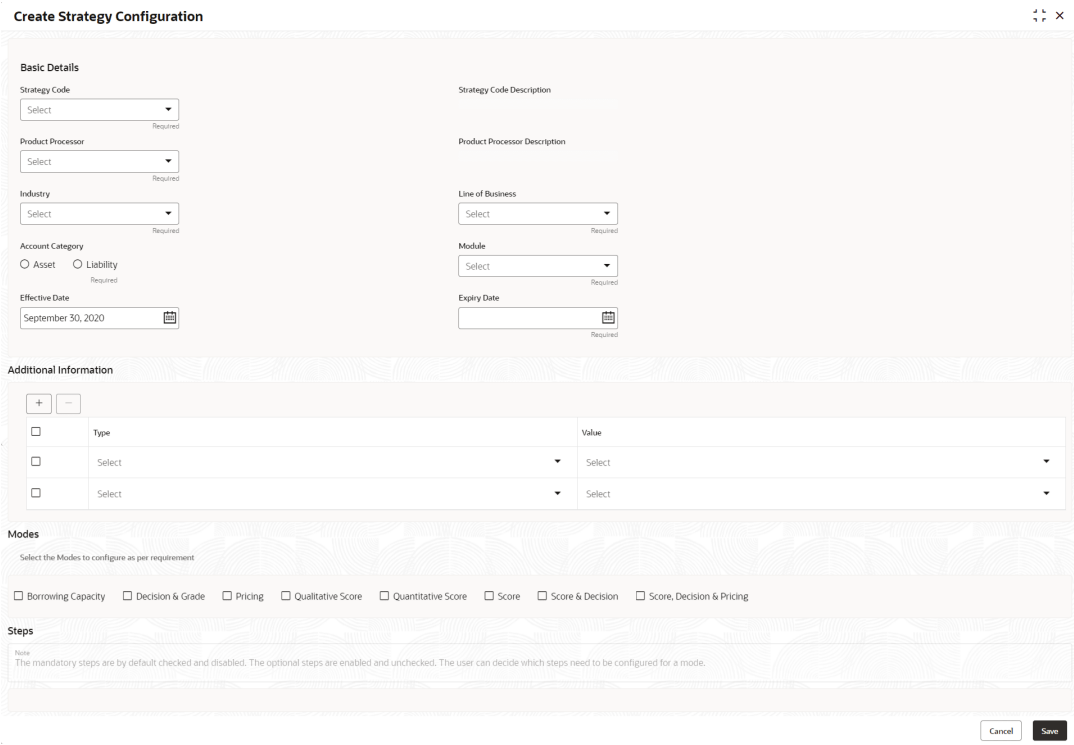
The **Create Strategy Configuration** screen is displayed.

Figure 3-27 Create Strategy Configuration



3. Specify the fields on **Create Strategy Configuration** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 3-23 Create Strategy Configuration - Field Description

Field	Description
Strategy Code	Specify the unique strategy code.
Strategy Code Description	Specify the short description for the strategy code.
Product Processor	Specify the product processor for which the strategy is being configured.
Product Processor Description	Displays the product processor description.

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Table 3-23 (Cont.) Create Strategy Configuration - Field Description

Field	Description
Industry	Select the industry type from the drop-down list . The values are configurable based on the lookup values maintained. The available options are: • **Banking Industry** • **Insurance** • **Trade Finance**
Line Of Business	Select the line of business type from the drop-down list . The values are configurable based on the lookup values maintained. The available options are: • **Corporate** • **Retail** • **SMEnt**
Account Category	Indicates whether the strategy created is for asset or Liabilities.
Module	Select the module from the drop-down list . The values are configurable based on the lookup values maintained. The available options are: • **Collection** • **Origination** • **Servicing**
Effective Date	Specify the effective date.
Expiry Date	Specify the expiry date.
+ button	Click to add a new facts.
- button	Click to delete a row that is already added.
Type	Select the fact type from the drop-down list.
Value	Select the value configured for the fact type from the drop-down list. The values are configurable based on the lookup values maintained.
Modes	Select the modes from the drop-down list. The available options are: • **Borrowing Capacity** • **decision & Grade** • **Pricing** • **Qualitative Score** • **Quantitative Score** • **Score** • **Score and Decision** • **Score, Decision & Pricing** If the **Module** is selected as **Collection**, then below options are available. • **Decision & Grade** • **Qualitative Score** • **Quantitative Score** • **Score** • **Score and Decision**
Steps	Steps are defined based on the modes selected. Example: If **Borrowing Capacity** mode is selected, the check box for borrowing capacity is by default selected and disabled. You can select the other steps.

4. Perform one of the following action:

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- Click **Save** to save the details.
  The **Strategy Configuration** is successfully created and can be viewed using the View Strategy Configuration screen.
- Click **Cancel** to discard the changes and close the screen.

3.8.2 View Strategy Configuration

This topic describes the systematic instructions to view the list of strategy configuration.

The user can create the strategy configuration using the Create Strategy Configuration screen. The status of the created strategy configuration is displayed as **Unauthorized** and **Open**. Once the checker authorizes the strategy configuration, the status is updated to **Authorized** and **Open**.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Credit Decision**.
2. Under **Credit Decision**, click **Maintenance**. Under **Maintenance**, click **Strategy Configuration**, then click **View Strategy Configuration**.

   The **View Strategy Configuration** screen is displayed.

Figure 3-28 View Strategy Configuration

For more information on fields, refer to the field description table.

Table 3-24 View Strategy Configuration - Field Description

Field	Description
Strategy Code	Displays the strategy code.
Strategy Description	Displays the description of the strategy.
Product Processor	Displays the product processor of the strategy.
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

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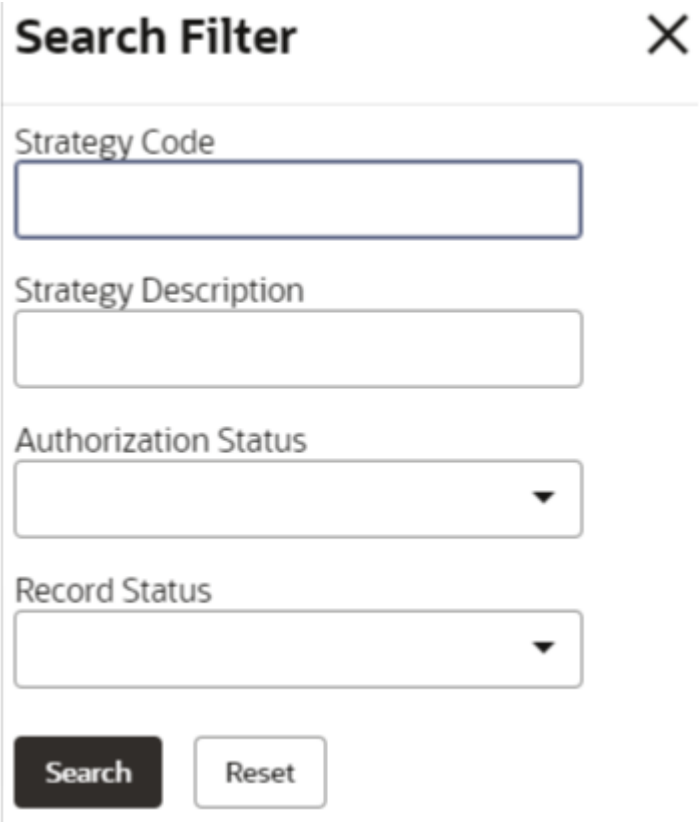
3. On **View Strategy Configuration** screen, click icon.

   The **View Strategy Configuration - Search** screen is displayed.

Figure 3-29 View Strategy Configuration - Search



4. On the **View Strategy Configuration - Search** screen, specify the **Search Filter** to fetch the required strategy configuration.

   For more information on fields, refer to the field description table.

Table 3-25 View Strategy Configuration - Search – Field Description

Field	Description
Strategy Code	Specify the strategy code.
Strategy Description	Specify the description of the strategy.
Authorization Status	Select the authorization status from the drop-down list. The available options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Select the record status from the drop-down list. The available options are: • **Open** • **Closed**

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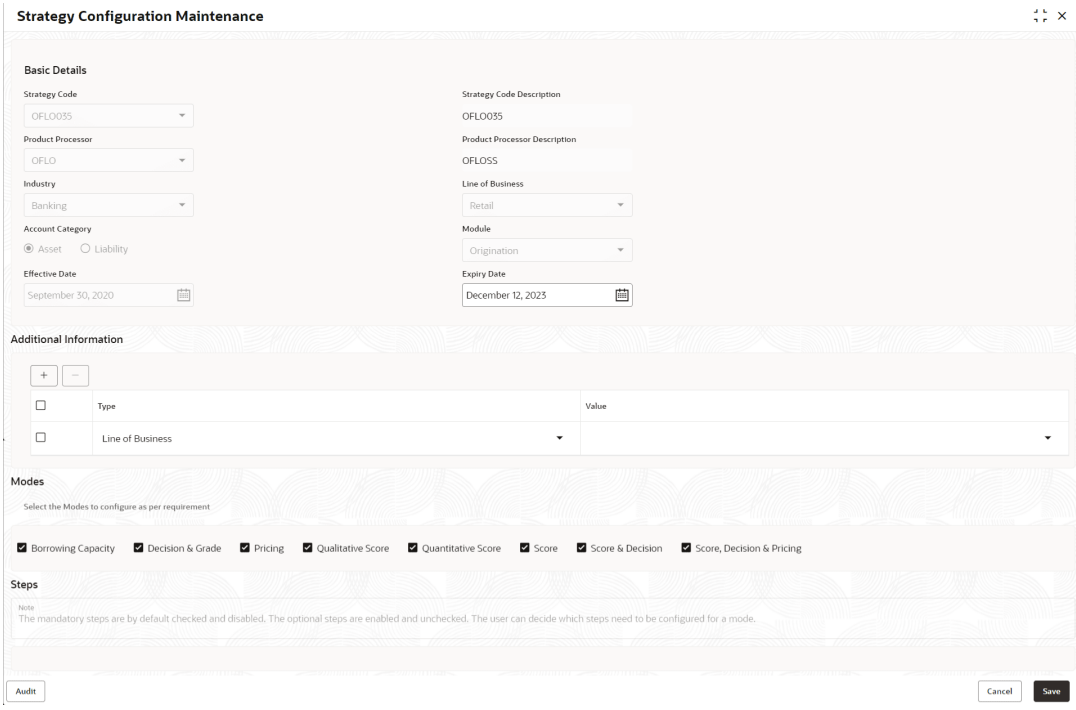
5. Click **Search** to display the required strategy configuration.

6. On the **View Strategy Configuration** screen, click ⋮ icon, to **Unlock**, **Delete**, **Authorize** or **View** the created strategy configuration.

7. Click **Unlock** to modify the created strategy configuration.

   The **Strategy Configuration Maintenance - Modify** screen is displayed.

Figure 3-30 Strategy Configuration Maintenance - Modify



For more information on fields, refer to the field description table.

Table 3-26 Strategy Configuration Maintenance - Modify - Field Description

Field	Description
Strategy Code	Displays the created strategy code.
Strategy Code Description	Displays the created strategy code description.
Product Processor	Displays the product processor for the created strategy configuration.
Product Processor Description	Displays the product processor description for the created strategy configuration.
Account Category	Displays the account category for the created strategy configuration.
Module	Displays the module for the created strategy configuration.
Effective Date	Displays the effective date for the created strategy configuration.

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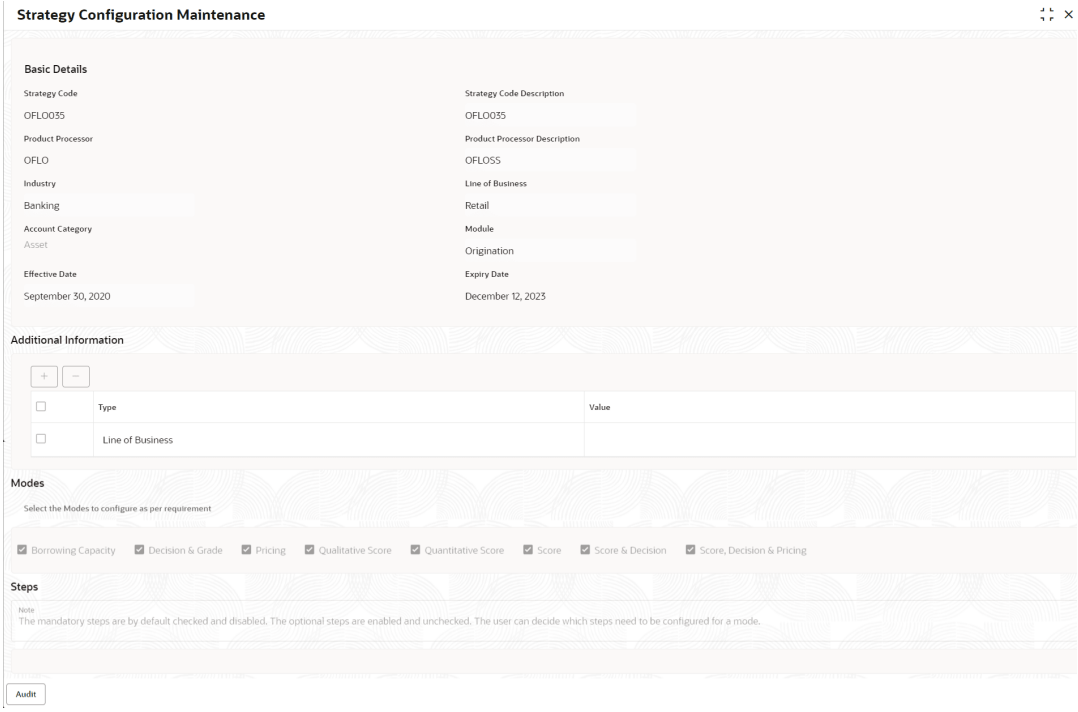
Table 3-26 (Cont.) Strategy Configuration Maintenance - Modify - Field Description

Field	Description
Expiry Date	Select the expiry date for the created strategy configuration.
Type	Displays the fact type for the created strategy configuration.
Value	Displays the fact value for the created strategy configuration.
Steps	Specify the steps defined for the created strategy configuration.

8. Click **Save** to save the details.
9. Click **View** to view the created strategy configuration.

   The **Strategy Configuration Maintenance - View** screen is displayed.

Figure 3-31 Strategy Configuration Maintenance - View



For more information on fields, refer to the field description table.

Table 3-27 Strategy Configuration Maintenance - View - Field Description

Field	Description
Strategy Code	Displays the created strategy code.
Strategy Code Description	Displays the created strategy code description.
Product Processor	Displays the product processor for the created strategy configuration.
Product Processor Description	Displays the product processor description for the created strategy configuration.

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Table 3-27 (Cont.) Strategy Configuration Maintenance - View - Field Description

Field	Description
Account Category	Displays the account category for the created strategy configuration.
Module	Displays the module for the created strategy configuration.
Effective Date	Displays the effective date for the created strategy configuration.
Expiry Date	Displays the expiry date for the created strategy configuration.
Type	Displays the fact type for the created strategy configuration.
Value	Displays the fact value for the created strategy configuration.
Steps	Displays the steps defined for the created strategy configuration.

3.9 Scoring Feature

This topic describes the information about the scoring feature in Decision service.

Lending institution have complex credit scoring models. The model uses the information contained in an application such as salary, credit commitments, and past loan performances to determine a credit score of an application or an existing customer. The model generates a score and based on that score, system takes the decision like approve, referred or to reject the application. To achieve these, in the decision service, you need to define maintenances of scoring feature. A feature can be either fact based or rule based. The features created in this maintenance can be linked in quantitative score model and decision grade matrix screen.

This topic contains the following subtopics:

- Create Scoring Feature
  This topic describes the systematic instructions to configure the scoring feature for determining the credit score.
- View Scoring Feature
  This topic describes the systematic instructions to view the list of scoring feature.

3.9.1 Create Scoring Feature

This topic describes the systematic instructions to configure the scoring feature for determining the credit score.

This score applies to applications during origination and based on the information received from the product processor.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Credit Decision**.
2. Under **Credit Decision**, click **Maintenance**. Under **Maintenance**, click **Scoring Feature**, then click **Create Scoring Feature**.

   The **Create Scoring Feature** screen is displayed.

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Figure 3-32 Create Scoring Feature

3. Specify the fields on the **Create Scoring Feature** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 3-28 Create Scoring Feature - Field Description

Field	Description
Feature Code	Specify the unique feature code.
Feature Description	Specify a short description for the feature.
Product Processor	Specify the product processor for which the feature is being created.
Rule	Select the rule, if it is required to define the feature. This option is used to decide whether the feature is rule based or fact based. The available options are: • **Yes** • **No**
Fact Code	Select the fact code to be mapped to the feature from the drop-down list. This field is enabled if the **Rule** is selected as **No**.
Fact Name	Specify the fact name of the feature. This field is enabled if the **Rule** is selected as **No**.
Rule Code	Select the rule code to be mapped to the feature from the drop-down list. This field is enabled if the **Rule** is selected as **Yes**.
	Click this icon to get the information about the rule.
Rule Name	Specify the rule name for the selected rule. This field is enabled if the **Rule** is selected as **Yes**.

4. Perform one of the following action:
   - Click **Save** to save the details.
     The **Scoring Feature** is successfully created and can be viewed using the View Scoring Feature screen.
   - Click **Cancel** to discard the changes and close the screen.

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3.9.2 View Scoring Feature

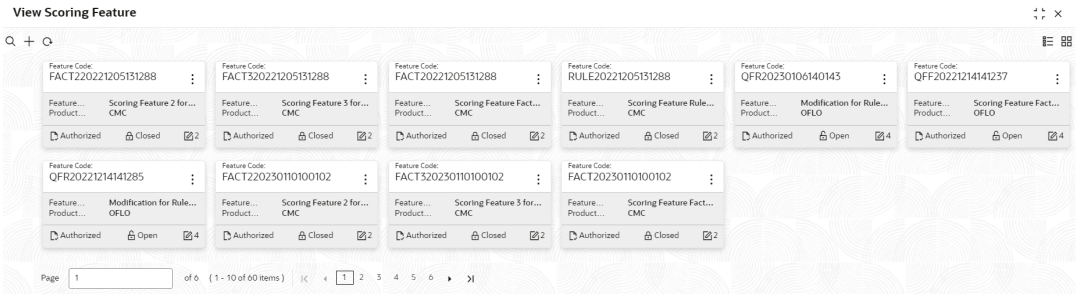
This topic describes the systematic instructions to view the list of scoring feature.

The user can configure the scoring feature using the Create Scoring Feature screen. The status of the created scoring feature is displayed as **Unauthorized** and **Open**. Once the checker authorizes the model, the status is updated to **Authorized** and **Open**.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Credit Decision**.
2. Under **Credit Decision**, click **Maintenance**. Under **Maintenance**, click **Scoring Feature**, then click **View Scoring Feature**.

   The **View Scoring Feature** screen is displayed.

Figure 3-33 View Scoring Feature



For more information on fields, refer to the field description table.

Table 3-29 View Scoring Feature – Field Description

Field	Description
Feature Code	Displays the feature code.
Feature Description	Displays the description of the feature.
Product Processor	Displays the product processor for which the feature is created.
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

3. On the **View Scoring Feature** screen, Click icon.

   The **View Scoring Feature - Search** screen is displayed.

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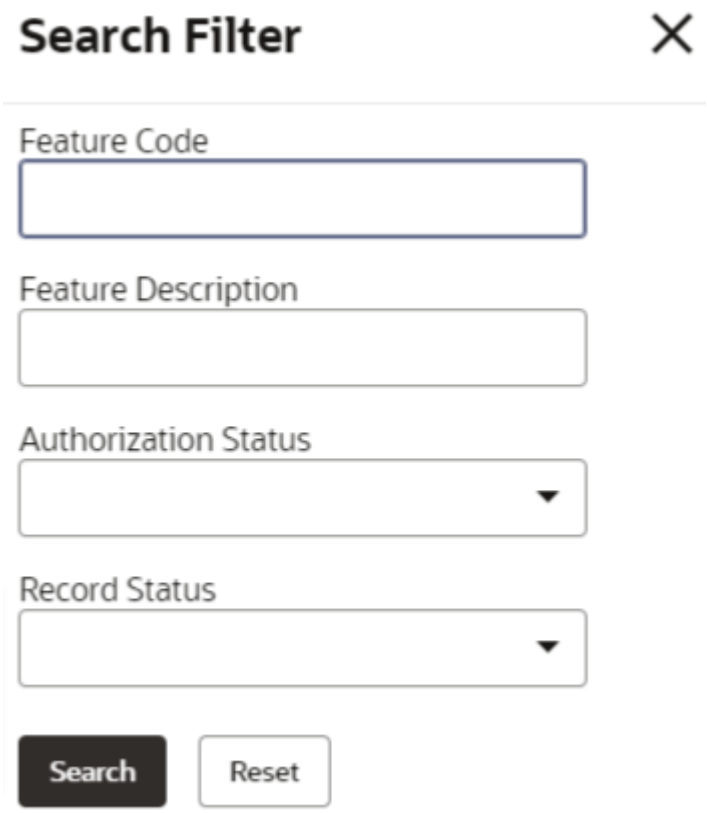
Figure 3-34 View Scoring Feature - Search



For more information on fields, refer to the field description table.

Table 3-30 View Scoring Feature - Search – Field Description

Field	Description
Feature Code	Specify the feature code.
Feature Description	Specify the feature description.
Authorization Status	Select the authorization status from the drop-down list. The available options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Select the record status from the drop-down list. The available options are: • **Open** • **Closed**

4. Click **Search** to display the required scoring feature.
5. On the **View Scoring Feature** screen, click ⋮ icon to **Unlock**, **Delete**, **Authorize** or **View** the created scoring feature.
6. Click **Unlock** to modify the created scoring feature.

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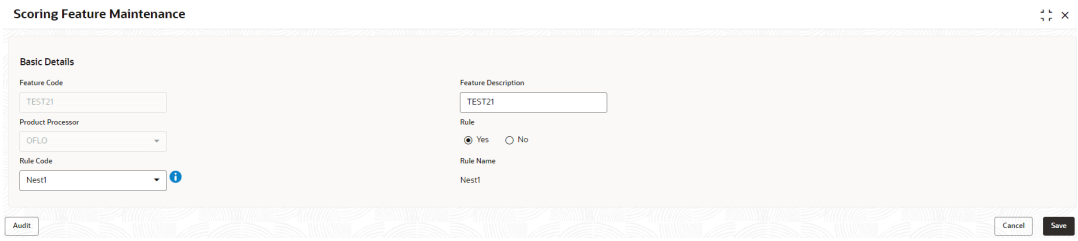
The **Scoring Feature Maintenance - Modify** screen is displayed.

Figure 3-35 Scoring Feature Maintenance - Modify



> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 3-31 Scoring Feature Maintenance - Modify - Field Description

Field	Description
Feature Code	Displays the feature code.
Feature Description	The user can modify the feature description.
Product Processor	Displays the product processor for the created scoring feature.
Rule	The user can modify the rule defined to the feature.
Rule Code	The user can modify the rule code of the feature. This field is displayed, if the **Rule** is selected as **Yes**.
	Click this icon to get the information about the rule.
Rule Name	Displays the rule name of the feature. This field is displayed, if the **Rule** is selected as **Yes**.
Fact Code	The user can modify the fact code of the feature. This field is displayed, if the **Rule** is selected as **No**.
Fact Name	Displays the fact name of the feature. This field is displayed, if the **Rule** is selected as **No**.

3.10 Quantitative Scoring Model

This topic describes the information about the Quantitative scoring model for the Decision service.

Quantitative analysis involves, an assessment of the financial position based on the customer's income and monthly expenses. It may also include a cash flow analysis of the customer's accounts and credit history.

Banks usually grant loan based on a credit scoring model that combines quantitative and qualitative analysis.

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This topic contains the following subtopics:

- Create Quantitative Scoring Model
  This topic describes the systematic instructions to configure the quantitative scoring model based on the various scoring parameters.
- View Quantitative Scoring Model
  This topic describes the systematic instructions to view the list of configured quantitative scoring model.

3.10.1 Create Quantitative Scoring Model

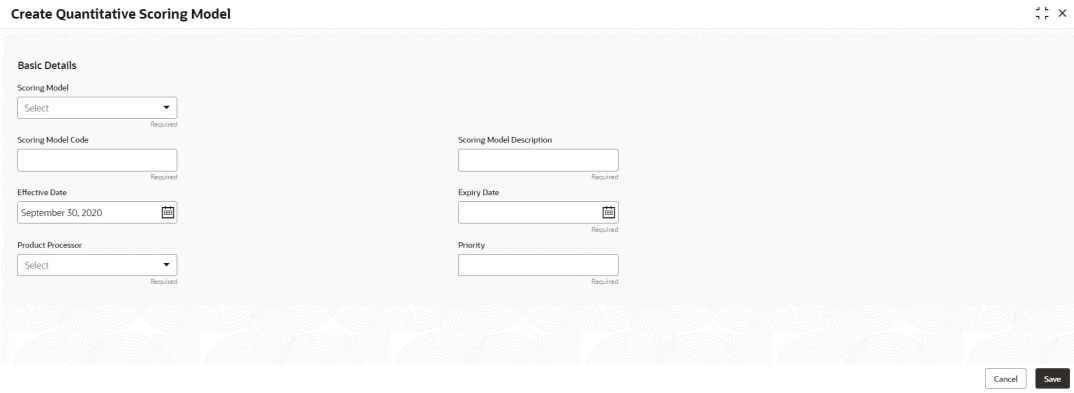
This topic describes the systematic instructions to configure the quantitative scoring model based on the various scoring parameters.

The parameters driving the scoring models are configurable. The user can create quantitative scoring model by updating various details.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Credit Decision**.
2. Under **Credit Decision**, click **Maintenance**. Under **Maintenance**, click **Quantitative Scoring Model**, then click **Create Quantitative Scoring Model**.

   The **Create Quantitative Scoring Model** screen is displayed.

Figure 3-36 Create Quantitative Scoring Model



3. Specify the fields on the **Create Quantitative Scoring Model** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

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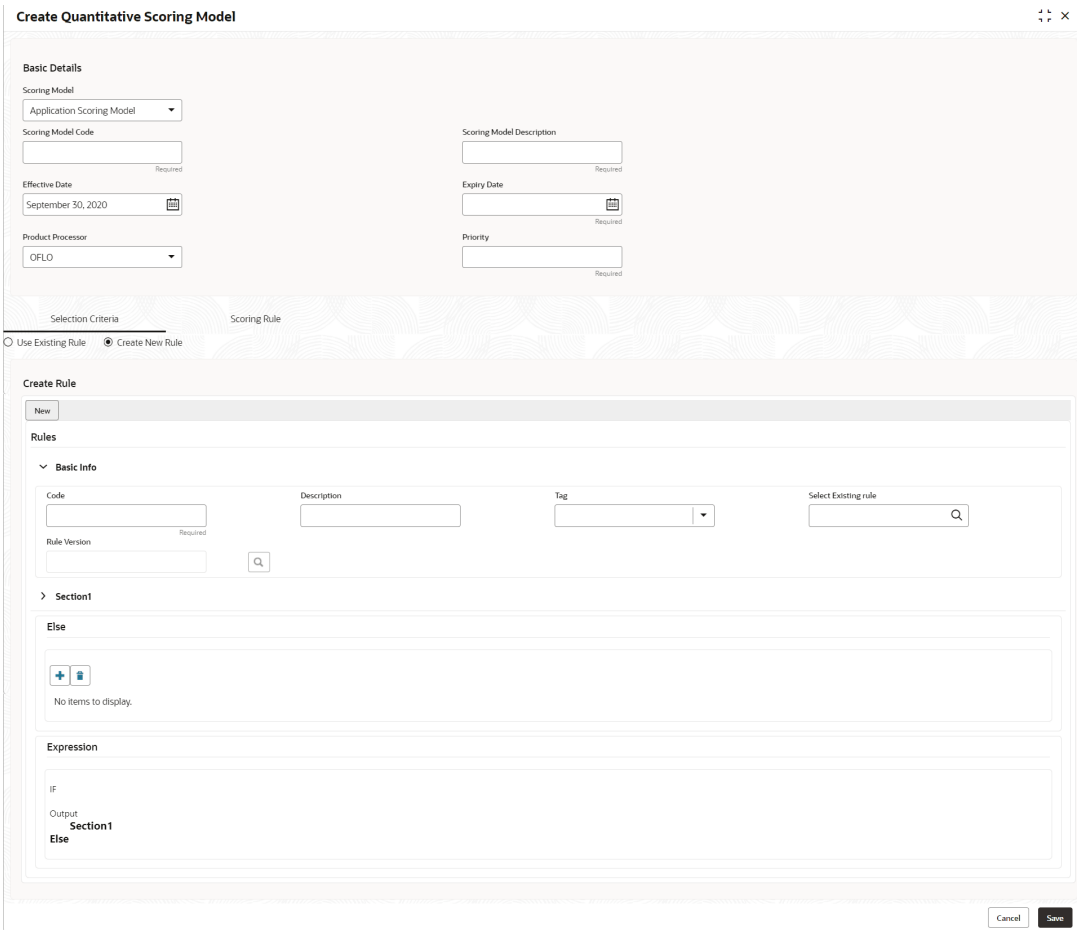
Table 3-32 Create Quantitative Scoring Model - Field Description

Field	Description
Scoring Model	Select the scoring model from the drop-sown list. The available options are: • **Application Scoring Model** • **Applicant Scoring Model** • **Multi-Applicant Scoring Model**
Scoring Model Code	Specify the unique scoring model code.
Scoring Model Description	Specify a short description for the scoring model.
Effective Date	Specify the effective date.
Expiry Date	Specify the expiry date.
Product Processor	Specify the product processor for which the model is being created.
Priority	Specify the priority of the model.

4. Click the **Selection Criteria** to define quantitative scoring model.

   The **Create Quantitative Scoring Model - Selection Criteria** screen is displayed.

Figure 3-37 Create Quantitative Scoring Model - Selection Criteria



For more information on fields, refer to the field description table.

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Table 3-33 Create Quantitative Scoring Model - Selection Criteria - Field Description

Field	Description
Use Existing Rule	By default, this option is enabled. Indicates if the existing rule is linked.
Rule Code	Select the rule code from the drop down list.
	Click this icon to get the information about the existing rule.
Rule Name	Displays the rule name of the selected rule code.
Create New Rule	Select this option to create new rule.
Code	Specify the rule code.
Description	Specify the rule description.
+ icon	Click this icon to add new expression.
Fact / Rules	Select the fact or rule from the drop-down list. Once the user selects the fact/rules, one more field opens adjacent to the output, update the same based on the selected output option.
Operator	Select the comparison operator from the drop-down list. The available options are: • **<** • **>** • **+** • **=** • **%** • **!=** • **-** • **>=** • **<=** • ***** • **/** • **Contains** • **In** • **Matches** • **NotMatches** • **NotContains** • **Notin**
Data Type	Select the data type for the fact or rule. Once the user select the data type, one more field opens adjacent to the output, update the same based on the selected output option. The available options are: • **Text** • **Number** • **Boolean** • **Date** • **Fact** • **Rules** The below option appears if the **Data Type** is selected as **Boolean**. • **True** • **False**

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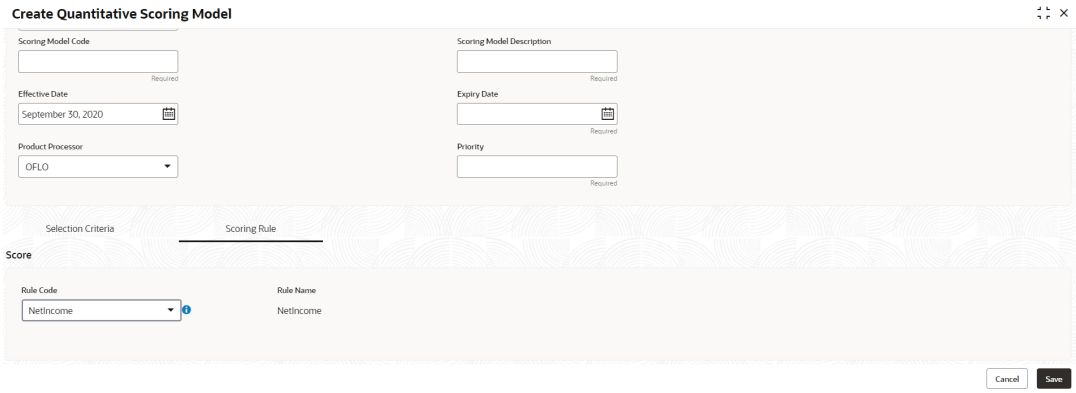
Table 3-33 (Cont.) Create Quantitative Scoring Model - Selection Criteria - Field Description

Field	Description
Output	Select the output from the drop-down list. Once the user select the data type, one more field opens adjacent to the output, update the same based on the selected output option. The available options are: • **Text** • **Number** • **Boolean** • **Date** • **Fact** • **Rules** The below option appears if the **Data Type** is selected as **Boolean**. • **True** • **False**
Expression	Displays the expression updated in the expression builder.

5. Click the **Scoring Rule** to define the rules. This tab is enabled if **Application Scoring Model** is selected.

   The **Create Quantitative Scoring Model - Scoring Rule** screen is displayed.

Figure 3-38 Create Quantitative Scoring Model - Scoring Rule



For more information on fields, refer to the field description table.

Table 3-34 Create Quantitative Scoring Model - Scoring Rule - Field Description

Field	Description
Rule Code	Select the rule code from the drop-down list.
	Click this icon to get the information about the rule.
Rule Name	Displays the rule name of the rule code.

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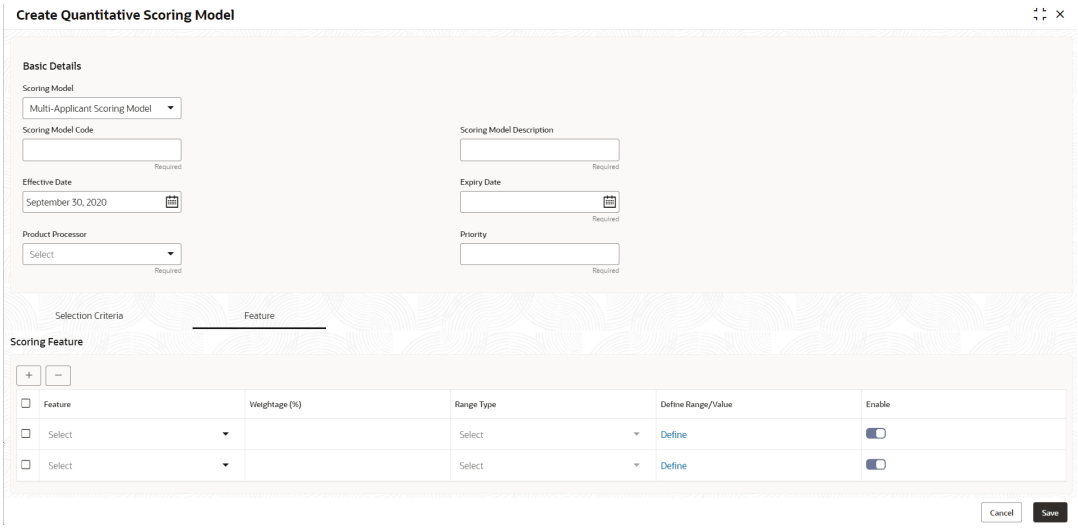
6. Click the **Feature** tab to define the feature. This tab is enabled if **Applicant Scoring Model** and **Multiple Applicant Scoring Model** is selected.

   The **Create Quantitative Scoring Model - Feature** screen is displayed.

Figure 3-39 Create Quantitative Scoring Model - Feature



For more information on fields, refer to the field description table.

Table 3-35 Create Quantitative Scoring Model - Feature - Field Description

Field	Description
+ icon	Click this icon to add a new row.
- icon	Click this icon to delete a row, which is already added.
Feature	Select the feature from the drop-down list.
Weightage (%)	Specify the weightage to be assigned to each feature code.
Range Type	Select the range type from the drop down list. The available options are: • **Max Value** • **Param Percent%** • **Value** For **Applicant Scoring Model**, this field is editable.
Define Range/Value	Click the **Define** link to define the score for the expected response.
Enable	By default, this option is enabled. Indicates if the scoring parameter is enabled or not.

7. Click the **Define** link to define a range or absolute values for each scoring feature to be considered for scoring model and score for that range or value.

   In case the data type of feature is numeric such as Bureau score, the **Create Quantitative Scoring Model - Define Link - Numeric Feature** screen is displayed.

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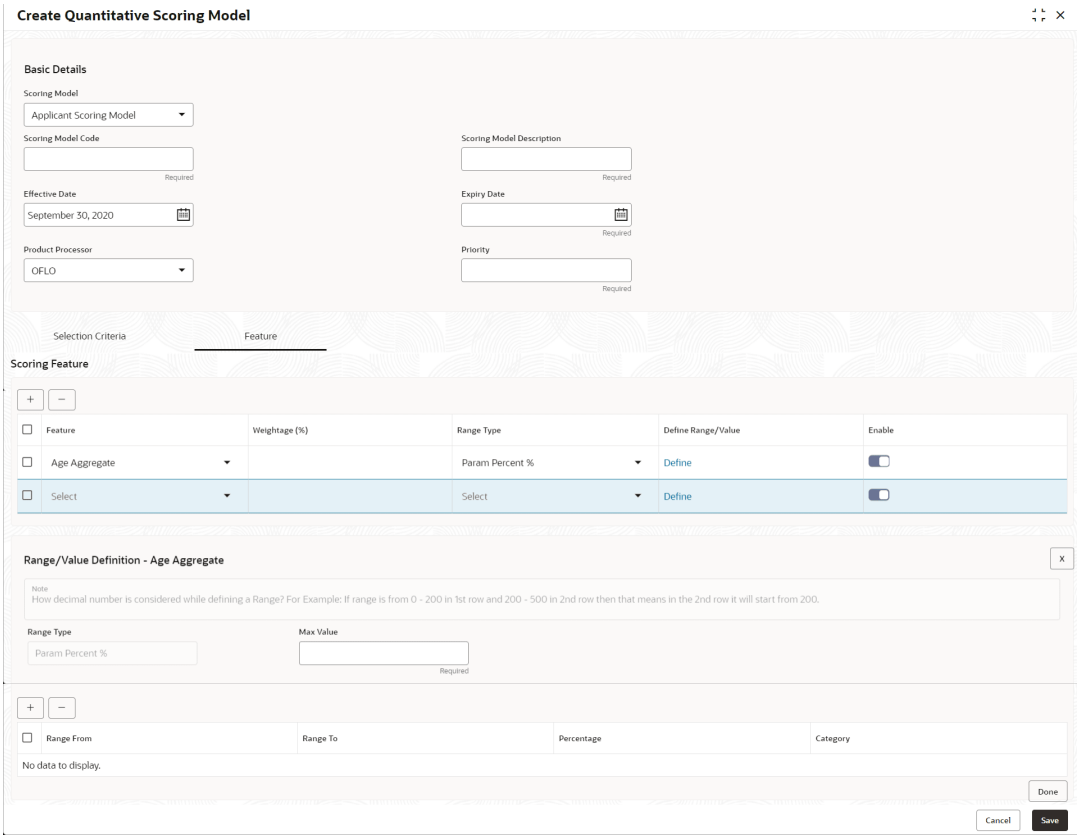
Figure 3-40 Create Quantitative Scoring Model - Define Link - Numeric Feature



For more information on fields, refer to the field description table.

Table 3-36 Create Quantitative Scoring Model - Define Link – Numeric Feature - Field Description

Field	Description
Range Type	Displays the range type selected.
Max Value	Specify the maximum value on which scoring has to be done, if range type ID is Max Value % or Param %.
+ icon	Click this icon to add a new row.
- icon	Click this icon to delete a row, which is already added.
Range From	Specify the minimum range of value based on which scoring is to be done.
Range To	Specify the maximum range of value based on which scoring is to be done.
Score/Percentage	Specify the percentage to be assigned for each range or value, if range type is Max value % or Param %. Specify the score to be assigned for each range or value, if range type is Value.

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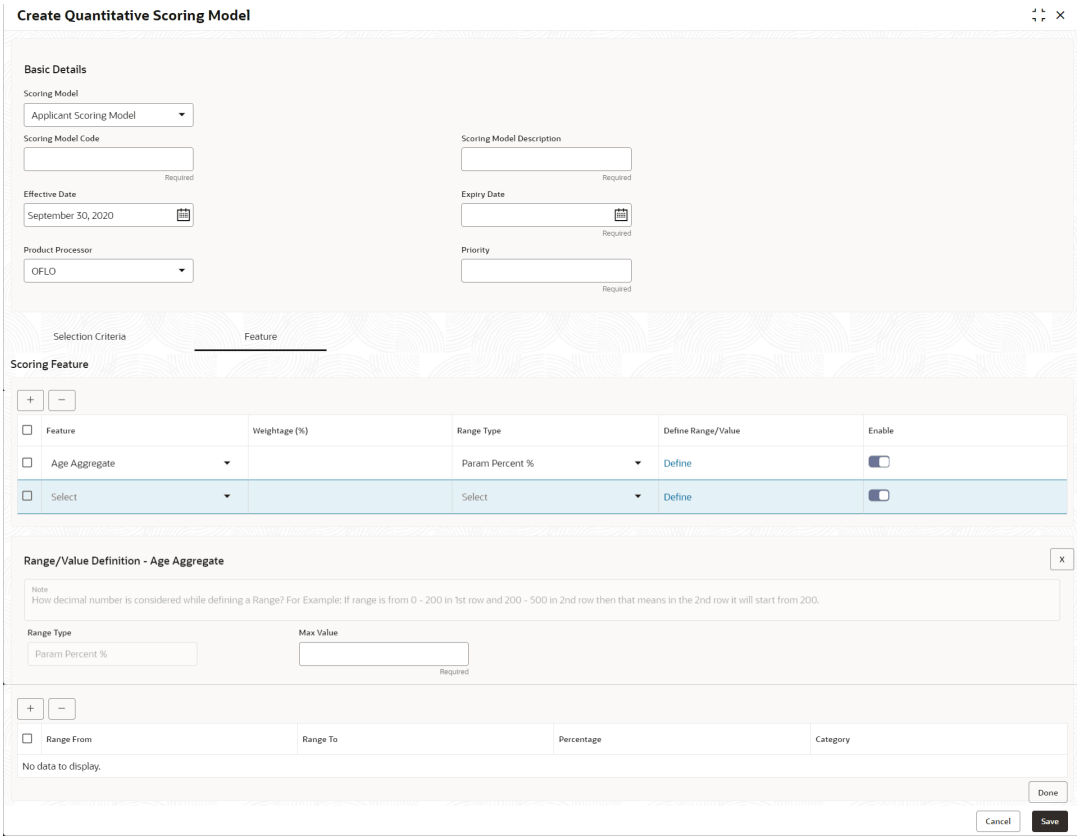
Table 3-36 (Cont.) Create Quantitative Scoring Model - Define Link – Numeric Feature - Field Description

Field	Description
Category	Specify the category for each range or value from the drop-down list. The values are configurable based on the lookup values maintained. The available options are: • **Strong** • **Medium** • **Weak**

The following screen appears when user select an alphanumeric feature data type, such as 'Employment Category'.

Figure 3-41 Create Quantitative Scoring Model - Define Link –Alphanumeric Feature



For more information on fields, refer to the field description table.

Table 3-37 Create Quantitative Scoring Model - Define Link –Alphanumeric Feature - Field Description

Field	Description
Range Type	Displays the range type selected. The default value for the same is **Value**.
Max Value	Specify the maximum value for the range type.

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Table 3-37 (Cont.) Create Quantitative Scoring Model - Define Link –Alphanumeric Feature - Field Description

Field	Description
+ icon	Click this icon to add a new row.
- icon	Click this icon to delete a row, which is already added.
Value	Specify the value of the feature.
Score	Specify the score assigned for each range value.
Category	Specify the category for each range or value from the drop-down list. The available options are: • **Strong** • **Medium** • **Weak**

8. Click **Done** to save the data and close the range panel.
9. Perform one of the following action:
   - Click **Save** to save the details.
     The **Quantitative Scoring Model** is successfully created and can be viewed using the View Quantitative Scoring Model screen.
   - Click **Cancel** to discard the changes and close the screen.

3.10.2 View Quantitative Scoring Model

This topic describes the systematic instructions to view the list of configured quantitative scoring model.

The user can configure the qualitative scoring model using the Create Quantitative Scoring Model screen. The status of the uploaded model is displayed as **Unauthorized** and **Open**. Once the checker authorizes the model, the status is updated to **Authorized** and **Open**.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Credit Decision**.
2. Under **Credit Decision**, click **Maintenance**. Under **Maintenance**, click **Quantitative Scoring Model**, then click **View Quantitative Scoring Model**.
3. On the **View Quantitative Scoring Model** screen, click icon.

   The **View Quantitative Scoring Model - Search** screen is displayed.

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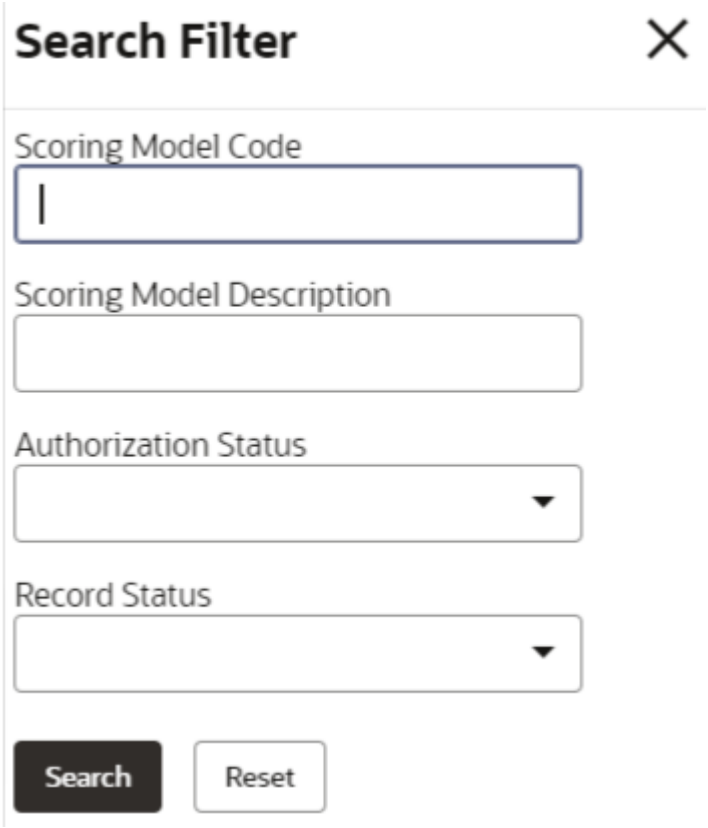
Figure 3-42 View Quantitative Scoring Model - Search



For more information on fields, refer to the field description table.

Table 3-38 View Quantitative Scoring Model - Search – Field Description

Field	Description
Scoring Model Code	Specify the scoring model code.
Scoring Model Description	Specify the description of the scoring model.
Authorization Status	Select the authorization status from the drop-down list. The available options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Select the record status from the drop-down list. The available options are: • **Open** • **Closed**

4. On the **View Quantitative Scoring Model** screen, click ⋮ icon to **Unlock**, **Delete**, **Authorize** or **View** the created quantitative scoring model.
5. Click **Unlock** to modify the created quantitative scoring model.

   The **Quantitative Scoring Model Maintenance - Modify** screen is displayed.

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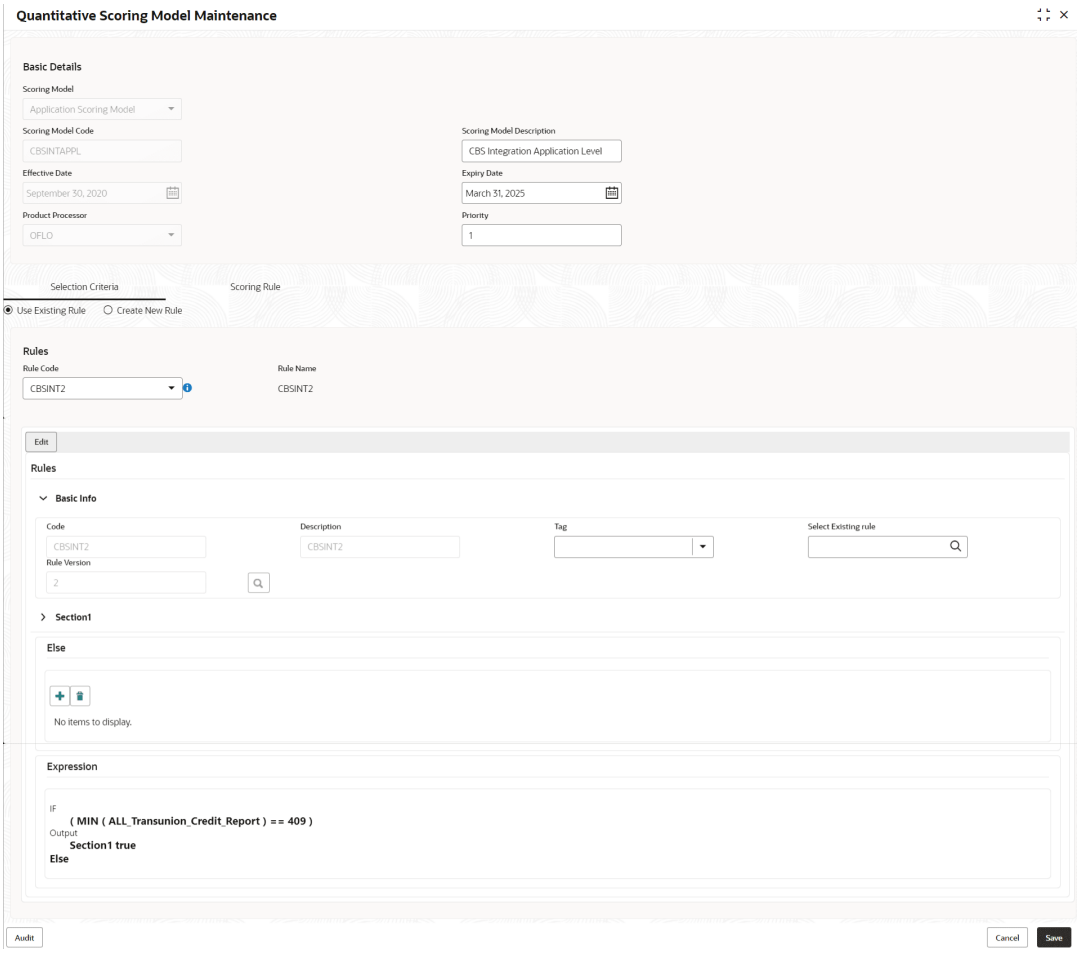
Figure 3-43 Quantitative Scoring Model Maintenance - Modify



> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 3-39 Quantitative Scoring Model Maintenance - Modify - Field Description

Field	Description
Application Scoring Model	Displays the application scoring model.
Scoring Model Code	Displays the qualitative scoring model code for the created quantitative scoring model.
Scoring Model Description	The user can modify the quantitative scoring model description for the created quantitative scoring model.
Effective Date	Displays the effective date of the created quantitative scoring model. The user can modify the same before authorization.
Expiry Date	Displays the expiry date of the created quantitative scoring model. The user can modify the same before authorization.

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Table 3-39 (Cont.) Quantitative Scoring Model Maintenance - Modify - Field Description

Field	Description
Product Processor	Displays the product processor for the created quantitative scoring model.
Priority	The user can modify the priority of the created quantitative scoring model.
Use Existing Rule	The user can modify the existing rule if linked.
Rule Code	Displays the rule code for the created quantitative scoring model.
	Click this icon to get the information about the rule.
Rule Name	Displays the rule name of the rule code for the created quantitative scoring model.
Code	Displays the rule code.
Description	Displays the rule description.
+ icon	This icon can add new expression.
Fact / Rules	Displays the fact or rule of the created quantitative scoring model.
Operator	Displays the comparison operator of the created quantitative scoring model.
Data Type	Displays the data type for the fact or rule for the created quantitative scoring model.
Output	Displays the output for the created quantitative scoring model.
Expression	Displays the expression updated in the expression builder for the created quantitative scoring model.
Feature	This tab is enabled for the **Applicant Scoring Model**.
+ icon	This icon adds new row.
- icon	This icon deletes a row, which is already added.
Feature	Displays the feature for the created quantitative scoring model.
Weightage (%)	The user can modify the weightage assigned to each feature for the created quantitative scoring model.
Range Type	Displays the range type for the created quantitative scoring model.
Define Range/Value	Displays the range/value defined for the created quantitative scoring model.
Range From	The user can modify the minimum range of value based on which scoring is done.
Range To	The user can modify the maximum range of value based on which scoring is done
Score	The user can modify the score for each range or value.
Category	The user can modify the category for the created quantitative scoring model.
Enable	Displays parameter for the created quantitative scoring model.
Scoring Rule	This tab is enabled for the **Application Scoring Model**.
Rule Code	Displays the rule code for the created quantitative scoring model.
	Click this icon to get the information about the rule.

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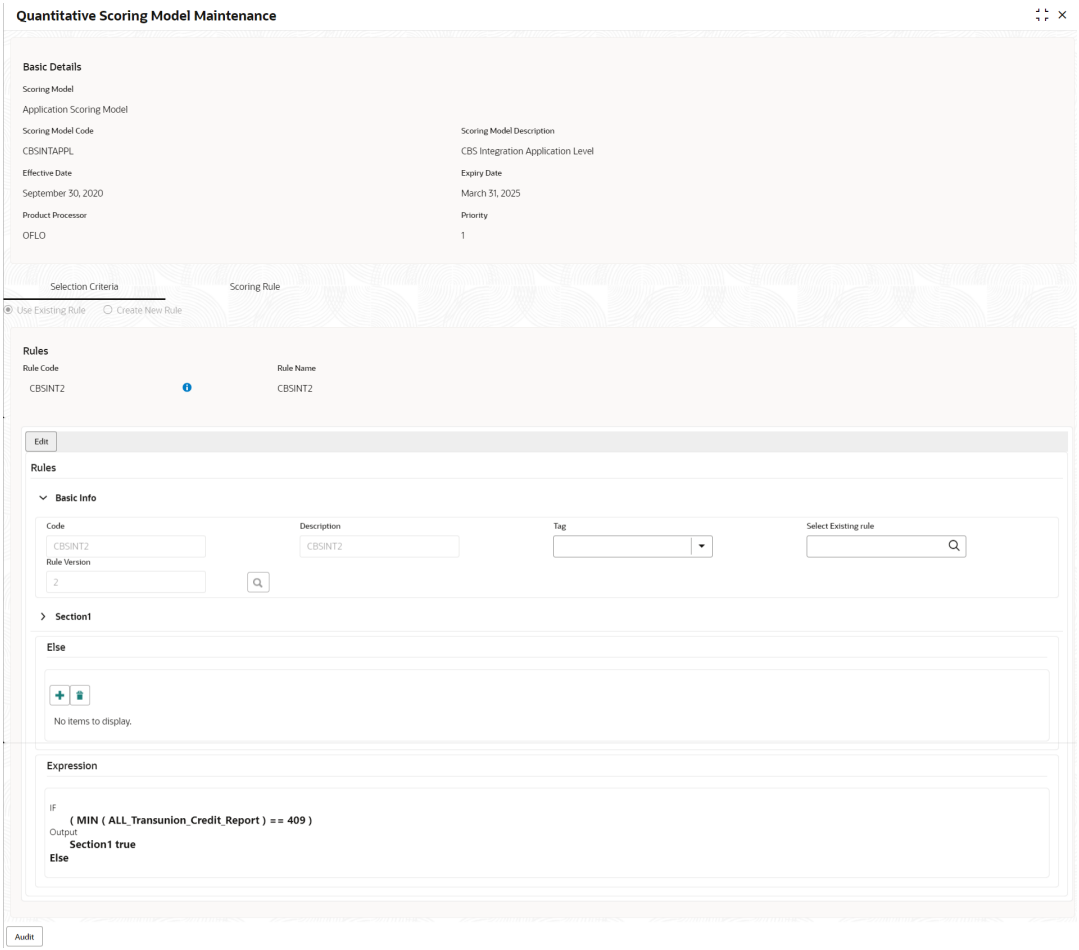
Table 3-39 (Cont.) Quantitative Scoring Model Maintenance - Modify - Field Description

Field	Description
Rule Name	Displays the rule name of the rule code for the created quantitative scoring model.

6. Click **Save** to save the details.
7. Click **View** to view the created quantitative scoring model.

   The **Quantitative Scoring Model Maintenance – View** screen is displayed.

Figure 3-44 Quantitative Scoring Model Maintenance – View



For more information on fields, refer to the field description table.

Table 3-40 Quantitative Scoring Model Maintenance - View - Field Description

Field	Description
Scoring Model	Displays the application scoring model.

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Table 3-40 (Cont.) Quantitative Scoring Model Maintenance - View - Field Description

Field	Description
Scoring Model Code	Displays the qualitative scoring model code for the created quantitative scoring model.
Scoring Model Description	Displays the quantitative scoring model description for the created quantitative scoring model.
Effective Date	Displays the effective date of the created quantitative scoring model. The user can modify the same before authorization.
Expiry Date	Displays the expiry date of the created quantitative scoring model. The user can modify the same before authorization.
Product Processor	Displays the product processor for the created quantitative scoring model.
Priority	The user can modify the priority of the created quantitative scoring model.
Use Existing Rule	The user can modify the existing rule if linked.
Rule Code	Displays the rule code for the created quantitative scoring model.
	Click this icon to get the information about the rule.
Rule Name	Displays the rule name of the rule code for the created quantitative scoring model.
Create New Rule	Displays the rule code for the created quantitative scoring model.
Code	Displays the rule code.
Description	Displays the rule description.
+ icon	This icon can add new expression.
Fact / Rules	Displays the fact or rule of the created quantitative scoring model.
Operator	Displays the comparison operator of the created quantitative scoring model.
Data Type	Displays the data type for the fact or rule for the created quantitative scoring model.
Output	Displays the output for the created quantitative scoring model.
Expression	Displays the expression updated in the expression builder for the created quantitative scoring model.
Feature	This tab is enabled for the **Applicant Scoring Model**.
+ icon	This icon adds new row.
- icon	This icon deletes a row, which is already added.
Feature	Displays the feature for the created quantitative scoring model.
Weightage (%)	Displays the weightage assigned to each feature for the created quantitative scoring model.
Range Type	Displays the range type for the created quantitative scoring model.
Define Range/ Value	Displays the range/value defined for the created quantitative scoring model.
Range From	The user can modify the minimum range of value based on which scoring is done.
Range To	The user can modify the maximum range of value based on which scoring is done
Score	Displays the score for each range or value.
Category	Displays the category for the created quantitative scoring model.

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Table 3-40 (Cont.) Quantitative Scoring Model Maintenance - View - Field Description

Field	Description
Enable	Displays parameter for the created quantitative scoring model.
Scoring Rule	This tab is enabled for the **Application Scoring Model**.
Rule Code	Displays the rule code for the created quantitative scoring model.
	Click this icon to get the information about the rule.
Rule Name	Displays the rule name of the rule code for the created quantitative scoring model.

3.11 Decision Grade Matrix

This topic describes the information about the decision grade matrix feature.

The Decision Grade Matrix can define the decision and grade based on the score calculated by the scoring model.

This topic contains the following subtopics:

- Create Decision Grade Matrix
  This topic describes the systematic instructions to create decision and grade matrix by updating various details.
- View Decision Grade Matrix
  This topic describes the systematic instructions to view the decision grade matrix.

3.11.1 Create Decision Grade Matrix

This topic describes the systematic instructions to create decision and grade matrix by updating various details.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**,click **Credit Decision**.
2. Under **Credit Decision**, click **Maintenance**. Under **Maintenance**, click **Decision Grade Matrix**, then click **Create Decision Grade Matrix**.

   The **Create Decision Grade Matrix** screen is displayed.

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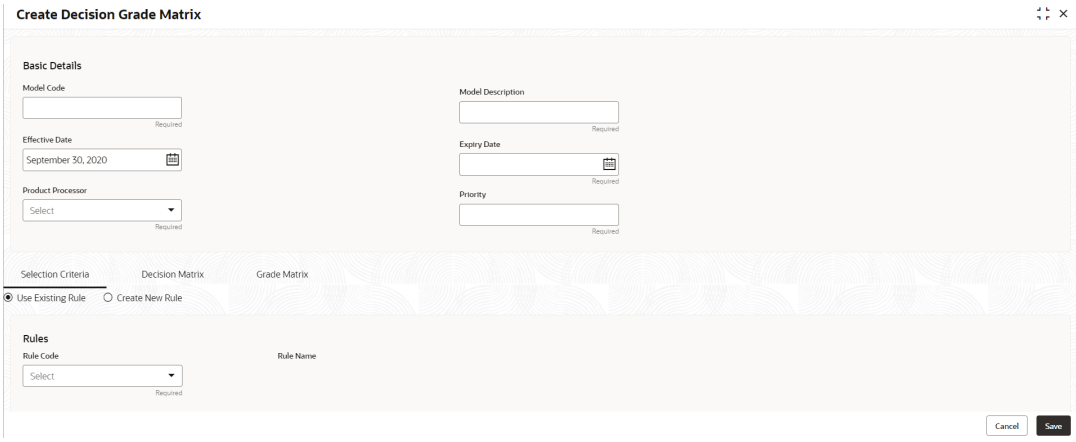
Figure 3-45 Create Decision Grade Matrix



3. Specify the fields on the **Create Decision Grade Matrix** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 3-41 Create Decision Grade Matrix - Field Description

Field	Description
Model Code	Specify the unique model code.
Model Description	Specify a short description for the model.
Effective Date	Specify the effective date.
Expiry Date	Specify the expiry date.
Product Processor	Specify the product processor for which the decision and grade matrix is being created.
Priority	Specify the priority of the model.

4. Click the **Selection Criteria** to configure the parameters based on which decision model is to be resolved.

   The **Create Decision Grade Matrix - Selection Criteria** screen is displayed.

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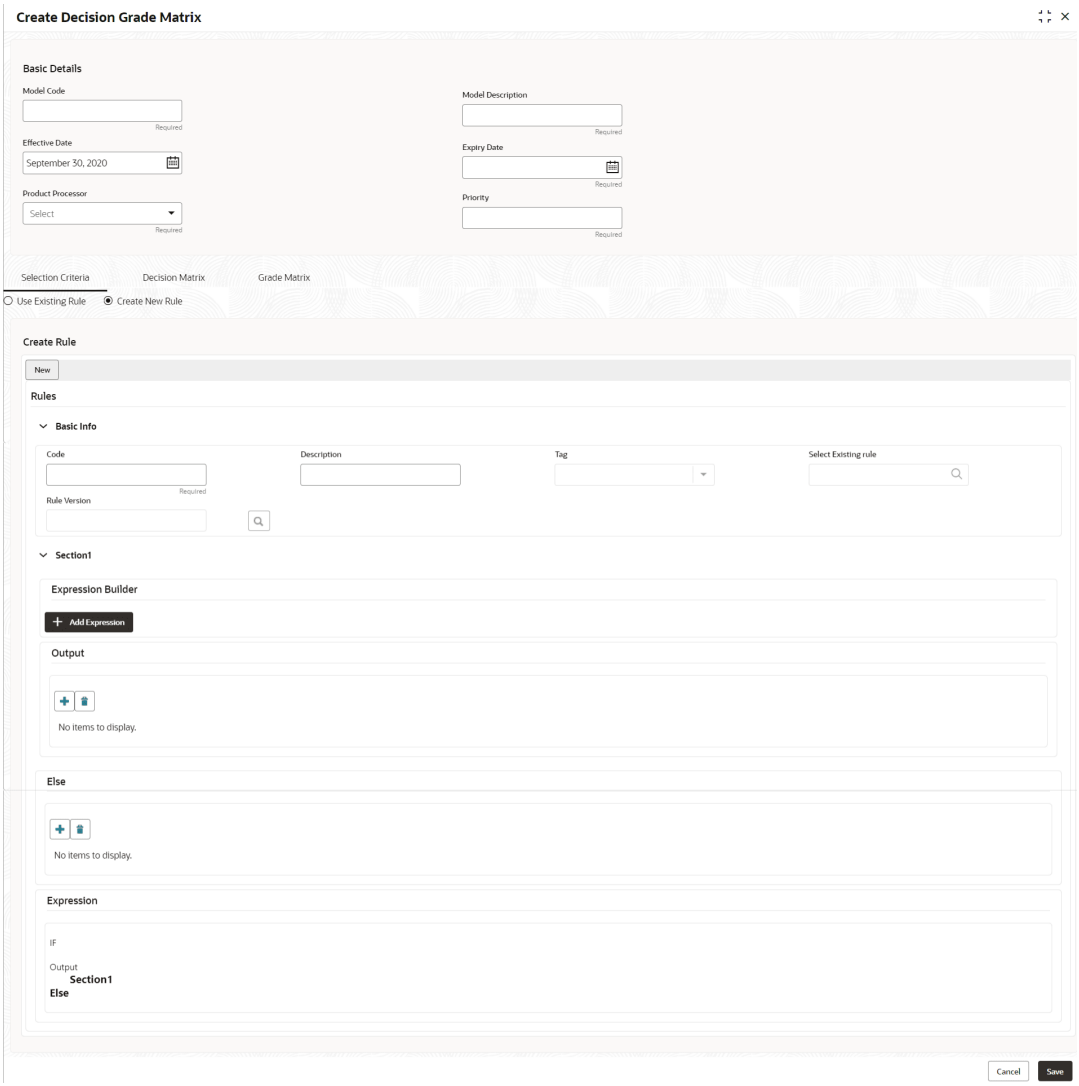
Figure 3-46 Create Decision Grade Matrix - Selection Criteria



For more information on fields, refer to the field description table.

Table 3-42 Create Decision Grade Matrix - Selection Criteria - Field Description

Field	Description
Use Existing Rule	By default, this option is enabled. Indicates if the existing rule is linked.
Rule Code	Select the rule code from the drop down list.
	Click this icon to get the information about the rule.
Rule Name	Displays the rule name of the rule code.
Create New Rule	Select this option to create new rule.
+ icon	Click this icon to add new expression.

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Table 3-42 (Cont.) Create Decision Grade Matrix - Selection Criteria - Field Description

Field	Description
Fact / Rules	Select the fact or rule from the drop-down list. Once the user selects the fact/rules, one more field opens adjacent to the output, update the same based on the selected output option.
Operator	Select the comparison operator from the drop-down list. The available options are: • **<** • **>** • **+** • **=** • **%** • **!=** • **-** • **>=** • **<=** • ***** • **/** • **Contains** • **In** • **Matches** • **NotMatches** • **NotContains** • **Notin**
Data Type	Select the data type for the fact or rule. Once the user select the data type, one more field opens adjacent to the output, update the same based on the selected output option. The available options are: • **Text** • **Number** • **Boolean** • **Date** • **Fact** • **Rules** The below option appears if the **Data Type** is selected as **Boolean**. • **True** • **False**
Output	Select the output from the drop-down list. Once the user select the data type, one more field opens adjacent to the output, update the same based on the selected output option. The available options are: • **Text** • **Number** • **Boolean** • **Date** • **Fact** • **Rules** The below option appears if the **Data Type** is selected as **Boolean**. • **True** • **False**
Expression	Displays the expression updated in the expression builder.

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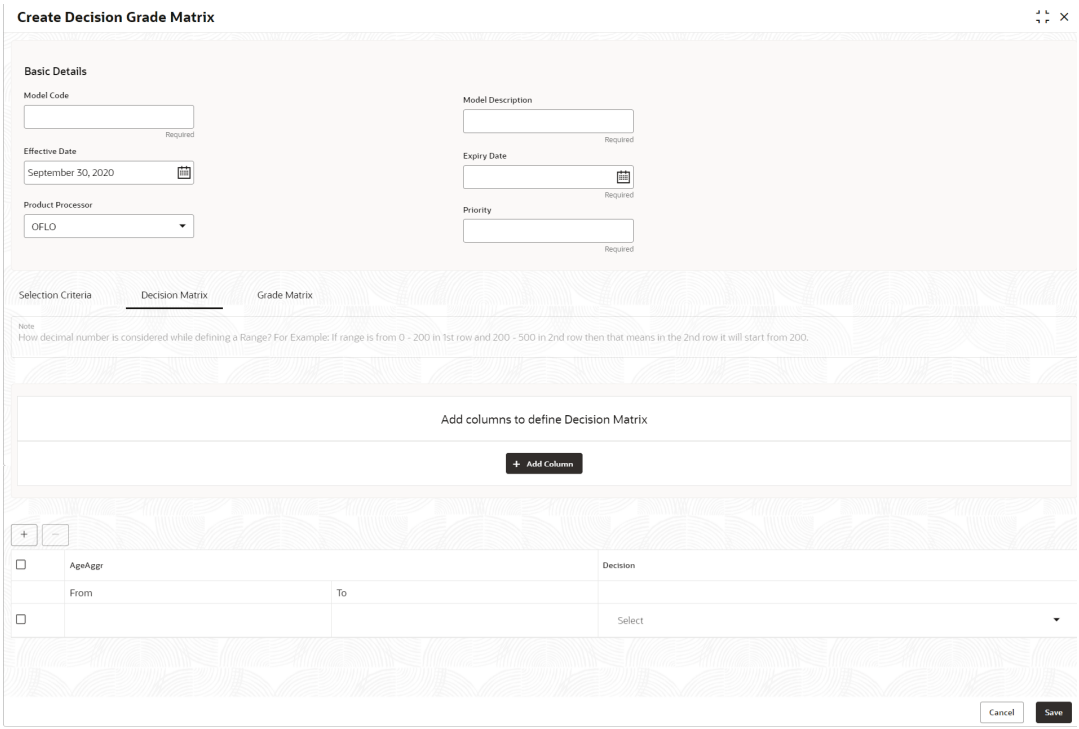
5. Click the **Decision Matrix** to define decision on the application. The user can select the feature for which the decision needs to be maintained like Quantitative/Qualitative.

   The **Create Decision Grade Matrix - Decision Matrix** screen is displayed.

Figure 3-47 Create Decision Grade Matrix - Decision Matrix



For more information on fields, refer to the field description table.

Table 3-43 Create Decision Grade Matrix - Decision Matrix - Field Description

Field	Description
Add Column	Click this button to add features for which decision has to be maintained. On click of **Add Column**, all the features are shown in the drop down list. Select the feature to be added. Click save to add the feature. If the feature is numeric type, two columns gets added in the table From and To. If the feature is character/alphanumeric type one column Value gets added. System should not save, if no feature have been added. User can click Cancel to close the window.
Link a Rule?	Select the appropriate radio button to link a rule to the features. The options are: • **Yes** - If this option is selected, the system displays the list of rules. Based on the rule mapped, the decision is provided. • **No** - If this option is selected, the system displays the list of decision lookup values.
+ icon	Click this icon to add a new row.
- icon	Click this icon to delete a row, which is already added.

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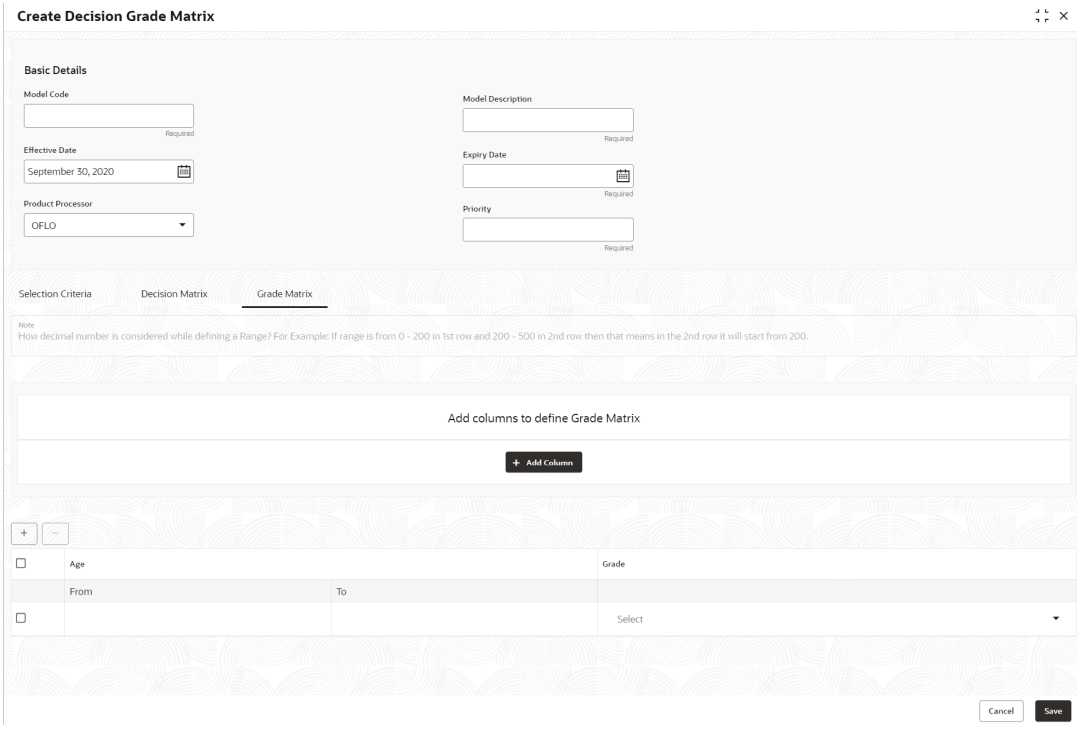
Table 3-43 (Cont.) Create Decision Grade Matrix - Decision Matrix - Field Description

Field	Description
Score From	Specify the minimum range of score for the decision.
Score To	Specify the maximum range of score for the decision.
Decision	Specify the decision of an application from the drop-down list. The values are configurable based on the look up values maintained The available options are: • **Approved** • **Manual** • **Rejected**
Rule	Displays the rules based on which decision is to be made. This field is enabled if **Link a Rule?** option is updated as **Yes**.

6. Click the **Grade Matrix** to assign the grade to the application that is used during the pricing of the application. You can select the feature for which the grade needs to be maintained like Quantitative/Qualitative.

   The **Create Decision Grade Matrix - Grade Matrix** screen is displayed.

Figure 3-48 Create Decision Grade Matrix - Grade Matrix



For more information on fields, refer to the field description table.

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Table 3-44 Create Decision Grade Matrix - Grade Matrix - Field Description

Field	Description
Add Column	Click **Add Column**, for addition of features for which decision has to be maintained.
Link a Rule?	Select the appropriate radio button to link a rule to the features. The options are: • **Yes** - If this option is selected, the system displays the list of rules. Based on the rule mapped, the decision is provided. • **No** - If this option is selected, the system displays the list of decision lookup values.
✕	Click this icon to delete a column, which is already added.
+ icon	Click this icon to add a new row.
- icon	Click this icon to delete a row, which is already added.
Score From	Specify the minimum range of score for the grade.
Score To	Specify the maximum range of score for the grade.
Grade	Specify the grade of the application based on the score scored. The values are configurable based on the look up values maintained. The available options are: • **A** • **B** • **C**
Value	Specify the value for which the grade has to be maintained. This field appears only if the data type of feature is Numeric such as Age, FICO score.
Rule	Displays the rules based on which decision is to be made. This field is enabled if **Link a Rule?** option is updated as **Yes**.

7. Perform one of the following action:
   - Click **Save** to save the details.
     The **Decision Grade Matrix** is successfully created and can be viewed using the View Decision and Grade Matrix screen.
   - Click **Cancel** to discard the changes and close the screen.

3.11.2 View Decision Grade Matrix

This topic describes the systematic instructions to view the decision grade matrix.

The user can create the decision grade matrix using the Create Decision Grade Matrix screen. The status of the uploaded model is displayed as **Unauthorized** and **Open**. Once the checker authorizes the matrix, the status is updated to **Authorized** and **Open**.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Credit Decision**.
2. Under **Credit Decision**, click **Maintenance**. Under **Maintenance**, click **Decision Grade Matrix**, then click **View Decision Grade Matrix**.

   The **View Decision Grade Matrix** screen is displayed.

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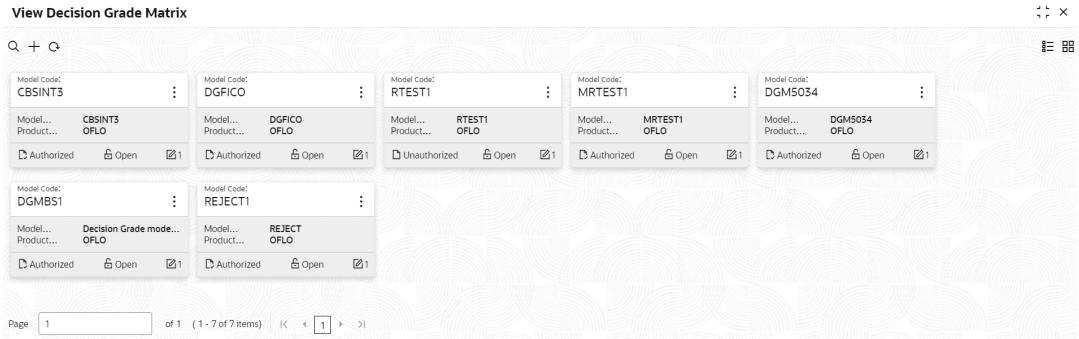
Figure 3-49 View Decision Grade Matrix



For more information on fields, refer to the field description table.

Table 3-45 View Decision Grade Matrix – Field Description

Field	Description
Model Code	Displays the model code.
Model Description	Displays the model description.
Product Processor	Displays the product processor for which the model is created.
Record Status	Displays the status of the record.
Modification Number	Displays the number of modification performed on the record.

3. On the **View Decision Grade Matrix** screen, click icon.

   The **View Decision Grade Matrix - Search** screen is displayed.

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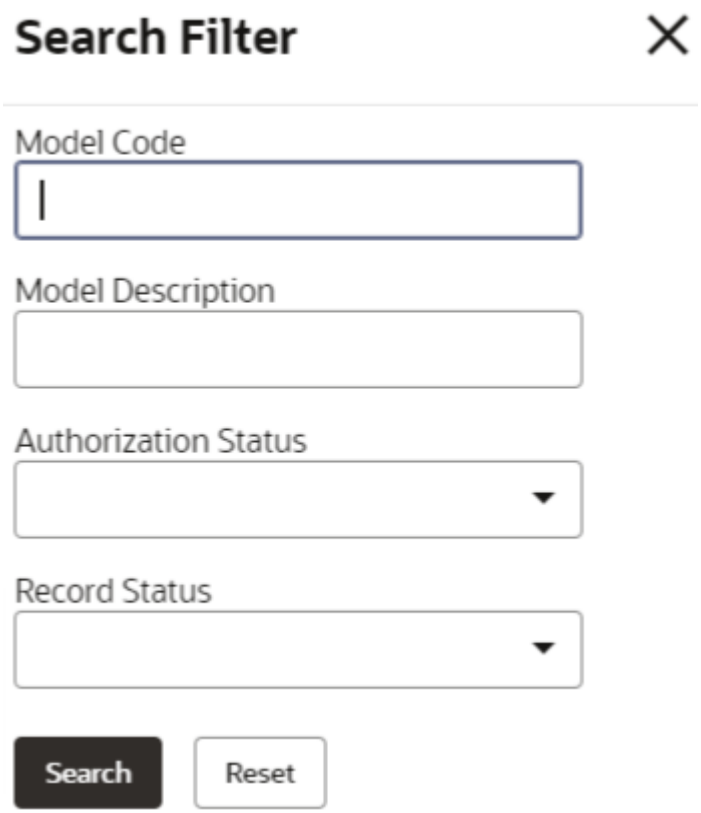
Figure 3-50 View Decision Grade Matrix - Search



For more information on fields, refer to the field description table.

Table 3-46 View Decision Grade Matrix - Search – Field Description

Field	Description
Model Code	Specify the model code.
Model Description	Specify the model description.
Authorization Status	Select the authorization status from the drop-down list. The available options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Select the record status from the drop-down list. The available options are: • **Open** • **Closed**

4. On **View Decision Grade Matrix** screen, click ⋮ icon to **Unlock**, **Delete**, **Authorize** or **View** the created decision grade matrix.
5. Click **Unlock** to modify the created decision grade matrix.

   The **Decision Grade Maintenance - Modify** screen is displayed.

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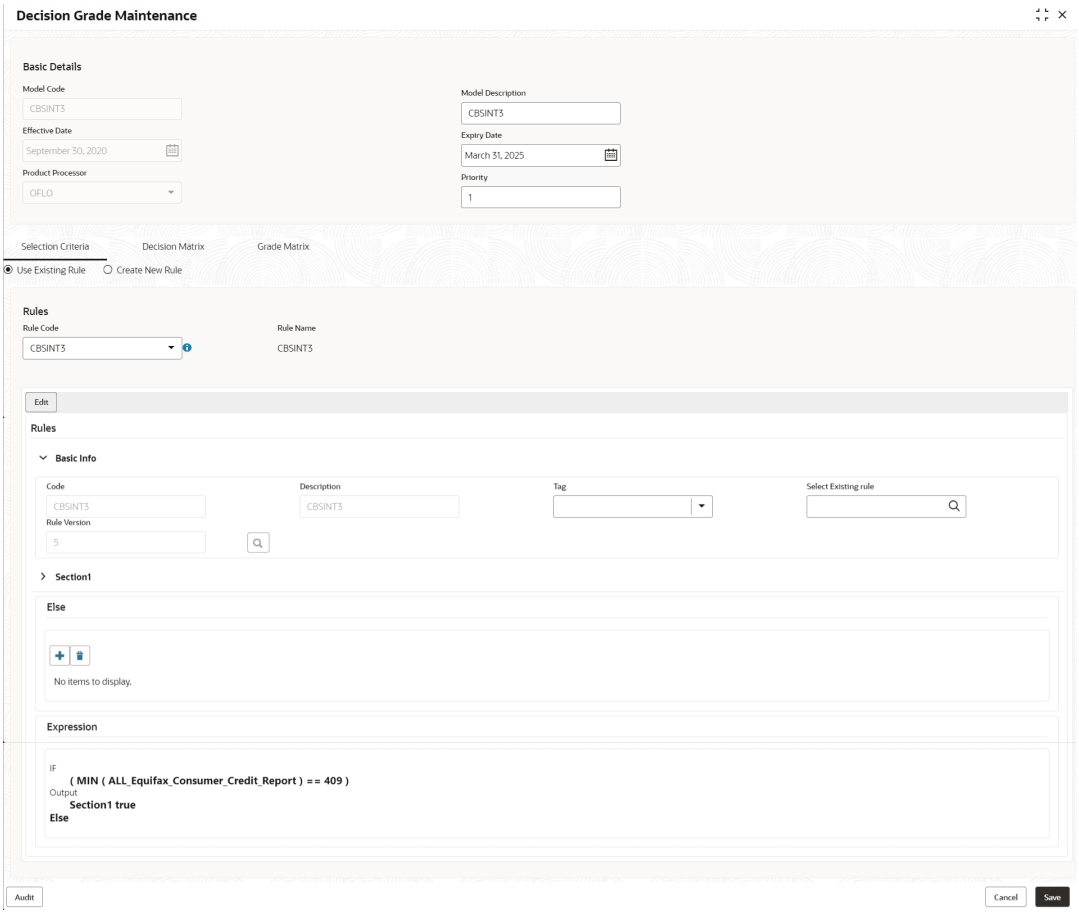
Figure 3-51 Decision Grade Maintenance - Modify



> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 3-47 Decision Grade Maintenance - Modify - Field Description

Field	Description
Model Code	Displays the model code for the created decision grade matrix.
Model Description	The user can modify the model description for the created decision grade matrix.
Effective Date	The user can modify effective date for the decision grade matrix.
Expiry Date	The user can modify date of the created decision grade matrix.
Product Processor	Displays the product processor for the decision grade matrix.
Priority	The user can modify the priority of the created decision grade matrix.

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Table 3-48 Selection Criteria - Field Description

Field	Description
Use Existing Rule	Indicates if the existing rule is linked.
Rule Code	The user can modify the rule code for the created decision grade matrix.
	Click this icon to get the information about the rule.
Rule Name	Displays the rule name of the rule code for the created decision grade matrix.
Create New Rule	The user can modify the rule code for the created decision grade matrix.
Description	Specify the rule description for the decision grade matrix.
Code	Specify the new rule code for decision grade matrix.

Table 3-49 Expression Builder - Field Description

Field	Description
+ icon	This icon can add new expression.
Fact / Rules	Displays the fact or rule for the created decision grade matrix.
Operator	Displays the comparison operator for the created decision grade matrix.
Data Type	Displays the data type for the fact or rule for the created decision grade matrix.
Output	Displays the output for the created decision grade matrix.
Expression	Displays the expression updated in the expression builder for the created decision grade matrix.

Table 3-50 Decision Matrix - Field Description

Field	Description
Add Column	Click this button to add features for which decision has to be maintained.
Link a Rule?	Select the appropriate radio button to link a rule to the features. The options are: • **Yes** - If this option is selected, the system displays the list of rules. Based on the rule mapped, the decision is provided. • **No** - If this option is selected, the system displays the list of decision lookup values.
+ icon	Click this icon to add new row.
- icon	Click this icon to delete a row, which is already added.
Score From	Specify the minimum range of score for the decision.
Score To	Specify the maximum range of score for the decision.

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Table 3-50 (Cont.) Decision Matrix - Field Description

Field	Description
Decision	Specify the decision of an application. The values configurable based on the lookup values maintained. The available options are: • **Approved** • **Manual** • **Rejected**
Rule	Displays the rules based on which decision is to be made. This field is enabled if **Link a Rule?** option is updated as **Yes**.

Table 3-51 Grade Matrix - Field Description

Field	Description
Add Column	Click this button to add features for which grade has to be maintained.
+ icon	Click this icon to add new row.
- icon	Click this icon delete a row, which is already added.
Score From	Specify the minimum range of score for the grade.
Score To	Specify the maximum range of score for the grade.
Grade	Specify the grade of an application based on the score scored. The values configurable based on the lookup values maintained. The available options are: • **A** • **B** • **C**

6. Click **Save** to save the details.
7. Click **View** to view the decision grade matrix.

   The **Decision Grade Maintenance – View** screen is displayed.

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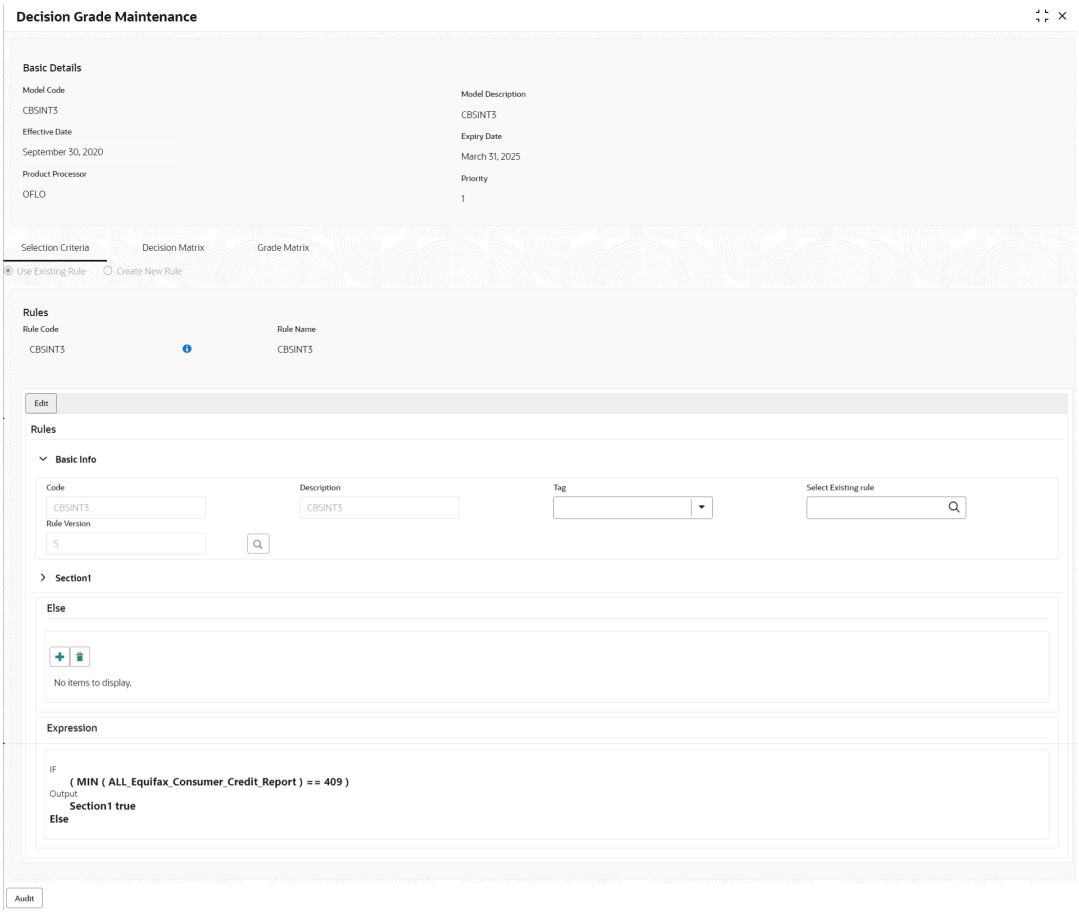
Figure 3-52 Decision Grade Maintenance – View



For more information on fields, refer to the field description table.

Table 3-52 Decision Grade Maintenance - View - Field Description

Field	Description
Model Code	Displays the model code for the created decision grade matrix.
Model Description	Displays the model description for the created decision grade matrix.
Effective Date	Displays the effective date for the decision grade matrix.
Expiry Date	Displays the expiry date of the created decision grade matrix.
Product Processor	Displays the product processor for the decision grade matrix.
Priority	Displays the priority of the created decision grade matrix.

Table 3-53 Selection Criteria - Field Description

Field	Description
Use Existing Rule	Indicates if the existing rule is linked.
Rule Code	Displays the rule code for the created decision grade matrix.

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Table 3-53 (Cont.) Selection Criteria - Field Description

Field	Description
	Click this icon to get the information about the rule.
Rule Name	Displays the rule name of the rule code for the created decision grade matrix.
Create New Rule	Displays the rule code for the created decision grade matrix.
Code	Specify the new rule code for decision grade matrix.
Description	Specify the rule description for the decision grade matrix.

Table 3-54 Expression Builder - Field Description

Field	Description
+ icon	Click this icon to add new expression.
Fact / Rules	Displays the fact or rule for the created decision grade matrix.
Operator	Displays the comparison operator for the created decision grade matrix.
Data Type	Displays the data type for the fact or rule for the created decision grade matrix.
Output	Displays the output for the created decision grade matrix.
Expression	Displays the expression updated in the expression builder for the created decision grade matrix.

Table 3-55 Decision Matrix - Field Description

Field	Description
Add Column	Click this button to add features for which decision has to be maintained.
+ icon	Click this icon to add new row.
- icon	Click this icon to delete a row, which is already added.
Score From	Displays the minimum range of score for the decision.
Score To	Displays the maximum range of score for the decision.
Decision	Displays the decision of an application. The values configurable based on the look up values maintained. The available options are: • **Approved** • **Manual** • **Rejected**
Rule	Displays the rules based on which decision is to be made. This field is enabled if **Link a Rule?** option is updated as **Yes**.

Table 3-56 Grade Matrix - Field Description

Field	Description
Add Column	Click this button to add features for which grade has to be maintained.

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Table 3-56 (Cont.) Grade Matrix - Field Description

Field	Description
+ icon	Click this icon to add new row.
- icon	Click this icon to delete a row, which is already added.
Score From	Displays the minimum range of score for the grade.
Score To	Displays the maximum range of score for the grade.
Grade	Displays the grade of an application based on the score scored. The values configurable based on the look up values maintained. The available options are: • **A** • **B** • **C**
Rule	Displays the rules based on which grade is to be made. This field is enabled if **Link a Rule?** option is updated as **Yes**.

3.12 Pricing

This topic describes the information about the pricing feature in Decision service.

Risk-based pricing refers to the offering of different interest rates to different customers depending on their credit worthiness. Thus, not all borrowers for the same product receives the same interest rate and credit terms. This means that high-risk borrowers who are less likely to repay their loans in full and on time will be charged higher rate of interest. While the low risk borrowers, having greater capacity to make payments will be charged lower rate of interest.

This topic contains the following subtopics:

- Create Pricing Model
  This topic describes the systematic instructions to create pricing model based on various pricing parameter by updating various details.
- View Pricing Model
  This topic describes the systematic instructions to view the list of pricing model.

3.12.1 Create Pricing Model

This topic describes the systematic instructions to create pricing model based on various pricing parameter by updating various details.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Credit Decision**.
2. Under **Credit Decision**, click **Maintenance**. Under **Maintenance**, click **Pricing Model**, then click **Create Pricing Model**.

   The **Create Pricing Model** screen is displayed.

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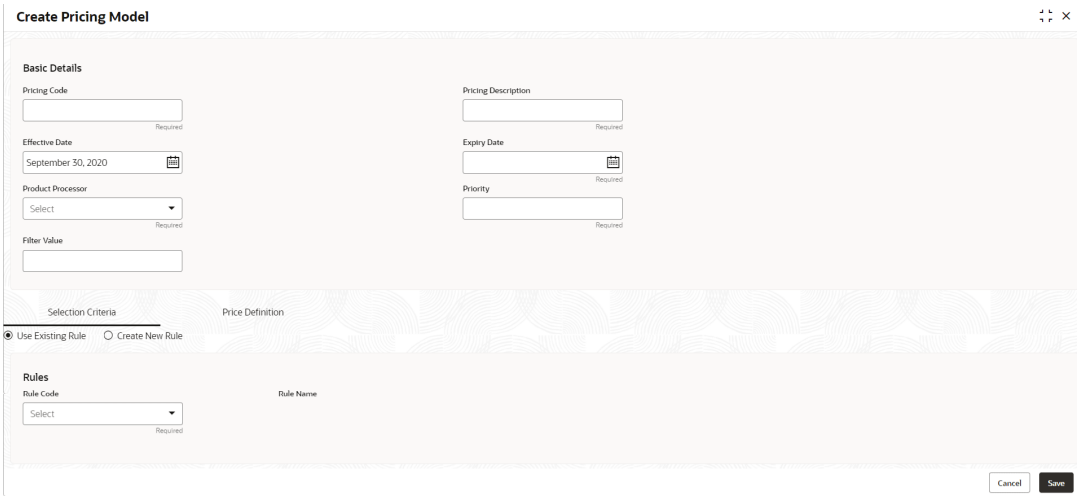
Figure 3-53 Create Pricing Model



3. Specify the fields on the **Create Pricing Model** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 3-57 Create Pricing Model - Field Description

Field	Description
Pricing Code	Specify the unique pricing code.
Pricing Description	Specify a short description for the pricing.
Effective Date	Specify the effective date.
Expiry Date	Specify the expiry date.
Product Processor	Specify the product processor for which the pricing is being created.
Priority	Specify the priority of the pricing.

4. Click the **Selection Criteria** to define pricing model.

   The **Create Pricing Model - Selection Criteria** screen is displayed.

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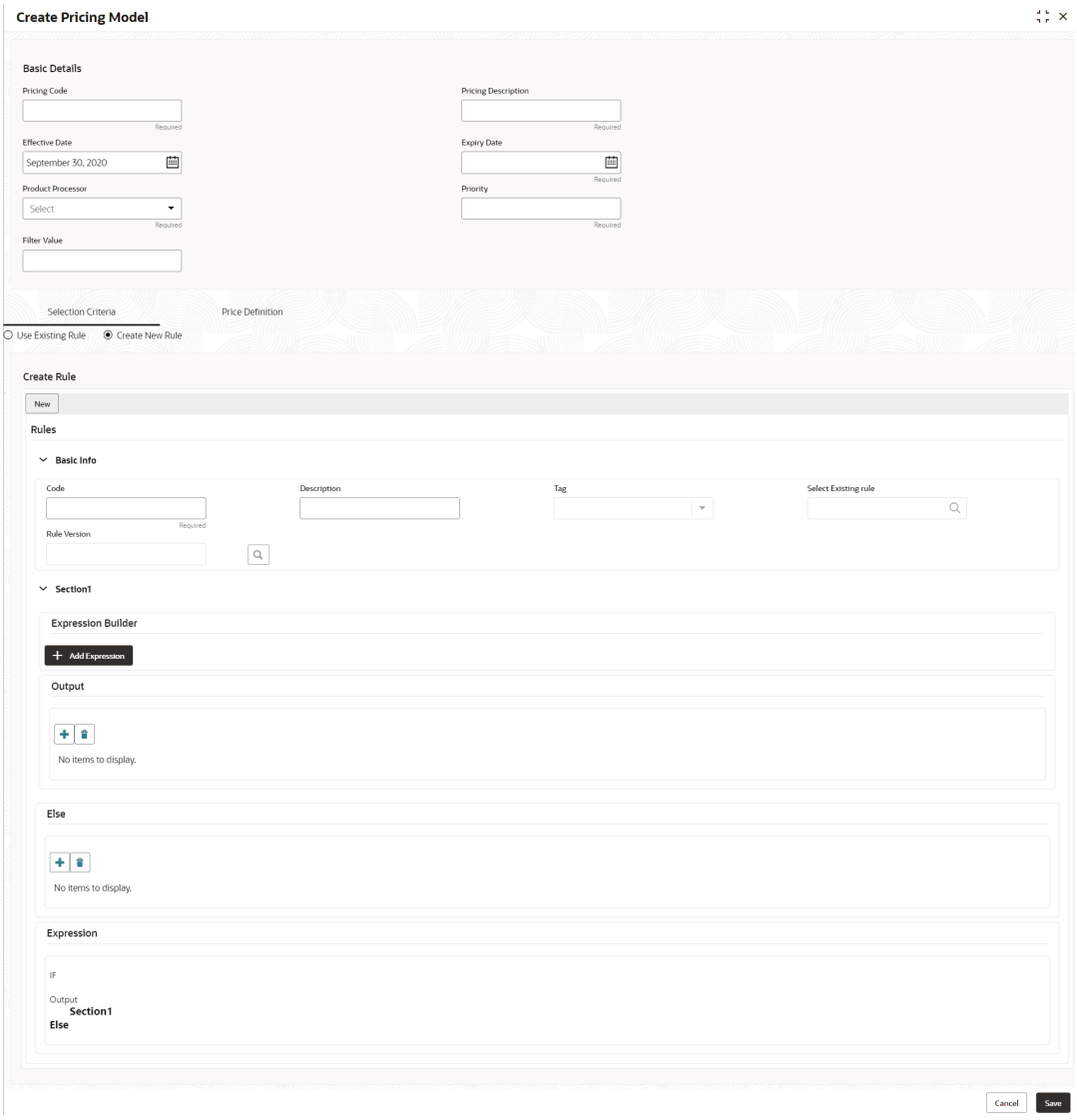
Figure 3-54 Create Pricing Model – Selection Criteria



For more information on fields, refer to the field description table.

Table 3-58 Create Pricing Model – Selection Criteria - Field Description

Field	Description
Use Existing Rule	By default, this option is enabled. Indicates if the existing rule is linked.
Rule Code	Select the rule code from the drop-down list.
	Click this icon to get the information about the rule.
Rule Name	Displays the rule name of the rule code.
Create New Rule	Select this option to create new rule.
Code	Specify the rule code.

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Table 3-58 (Cont.) Create Pricing Model – Selection Criteria - Field Description

Field	Description
Description	Specify the rule description.
+ icon	Click this icon to add new expression.
Fact / Rules	Select the fact or rule from the drop-down list. Once the user selects the fact/rules, one more field opens adjacent to the output, update the same based on the selected output option.
Operator	Select the comparison operator from the drop-down list. The available options are: • **<** • **>** • **+** • **=** • **%** • **!=** • **-** • **>=** • **<=** • ***** • **/** • **Contains** • **In** • **Matches** • **NotMatches** • **NotContains** • **Notin**
Data Type	Select the data type for the fact or rule. Once the user select the data type, one more field opens adjacent to the output, update the same based on the selected output option. The available options are: • **Text** • **Number** • **Boolean** • **Date** • **Fact** • **Rules** The below option appears if the **Data Type** is selected as **Boolean**. • **True** • **False**
Output	Select the output from the drop-down list. Once the user select the data type, one more field opens adjacent to the output, update the same based on the selected output option. The available options are: • **Text** • **Number** • **Boolean** • **Date** • **Fact** • **Rules** The below option appears if the **Data Type** is selected as **Boolean**. • **True** • **False**

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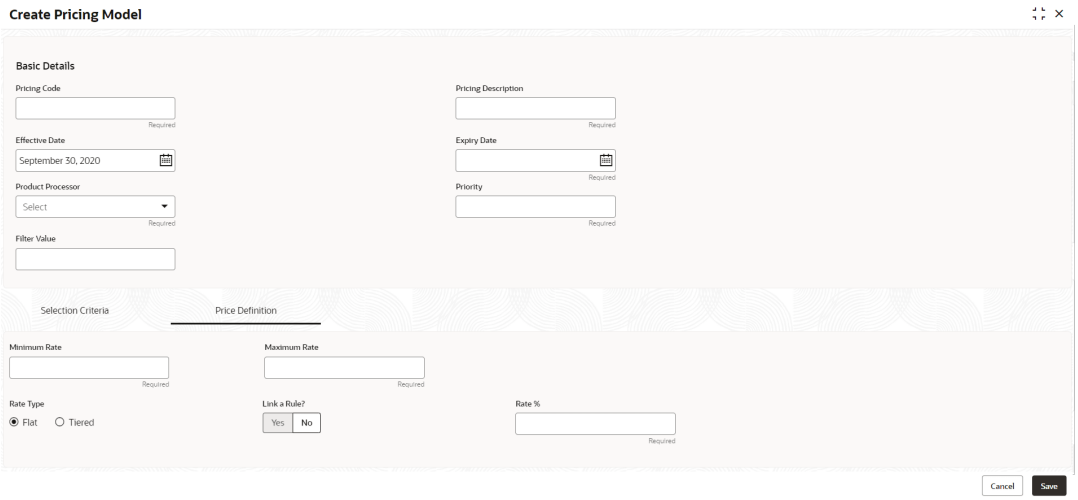
Table 3-58 (Cont.) Create Pricing Model – Selection Criteria - Field Description

Field	Description
Expression	Displays the expression updated in the expression builder.

5. Click **Price Definition** to define the pricing.
6. Select the **Rate Type** options as **Flat** to specify the flat rate.

   The **Create Pricing Model – Price Definition (Flat)** screen is displayed.

Figure 3-55 Create Pricing Model – Price Definition (Flat)



For more information on fields, refer to the field description table.

Table 3-59 Create Pricing Model – Price Definition (Flat) - Field Description

Field	Description
Minimum Rate	Specify the minimum rate applicable for the defined pricing code.
Maximum Rate	Specify the maximum rate applicable for the defined pricing code.
Rate Type	Select the rate type from the drop-down list as **Flat**.
Link a Rule?	Select the option whether to link a rule to derive the price. The options are: • **Yes** • **No**
Rate %	Specify the interest rate application for the defined pricing. This field displays once you select the **Rate Type** option as **Flat**and **Link a Rule?** option as **No**.
Rule	Select the rule for the defined pricing from the drop-down list. This field appears once you select the **Rate Type** option as **Flat** and **Link a Rule?** option as **Yes**.

7. Select the **Rate Type** options as **Tiered** to link the list of features.
8. Click **Add Columns** to select and link the features.

   The **Add Features** screen is displayed.

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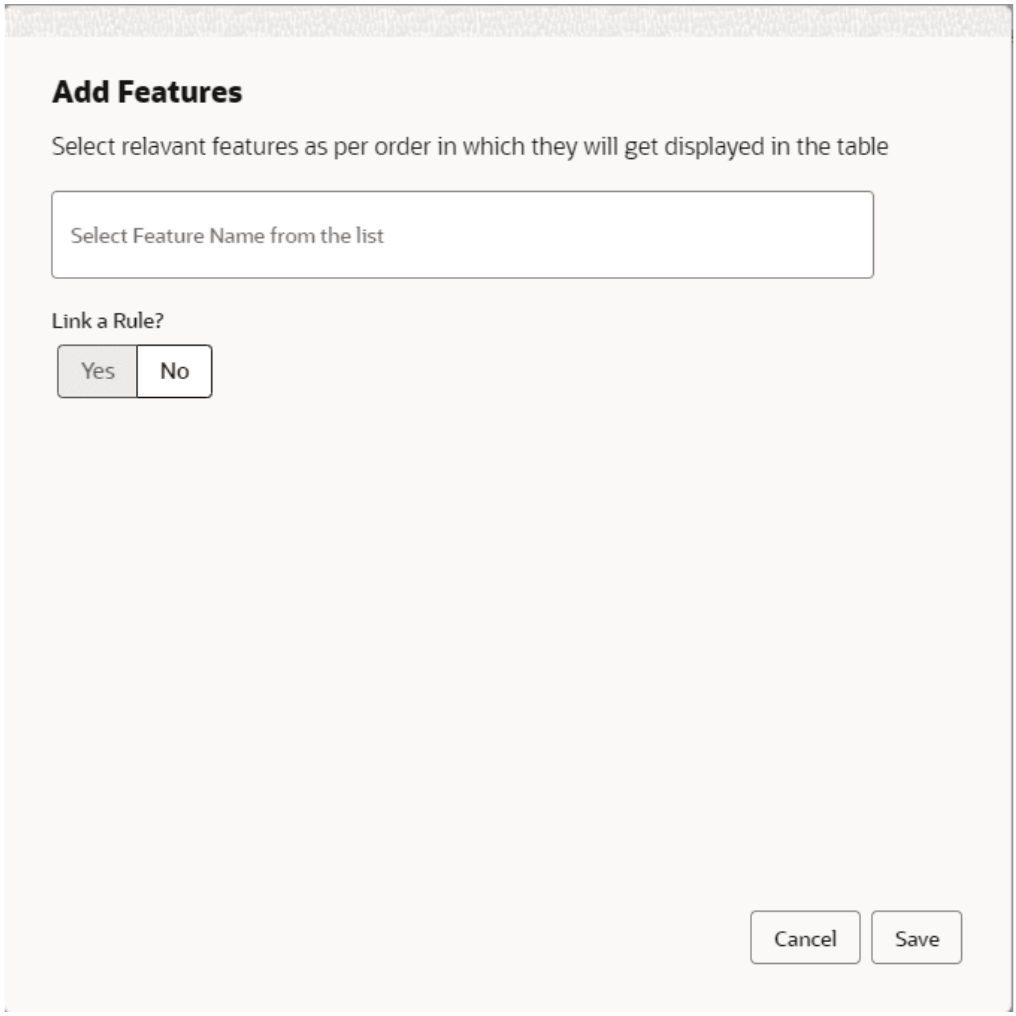
Figure 3-56 Add Features



9. Select the feature names from the list. ('n' number of features can be selected)
10. Select the option whether to link a rule for defining the interest rate.
11. Click **Save** to link the list of features for defining the tiered interest rate.

    The **Create Pricing Model – Price Definition (Tiered)** screen displays.

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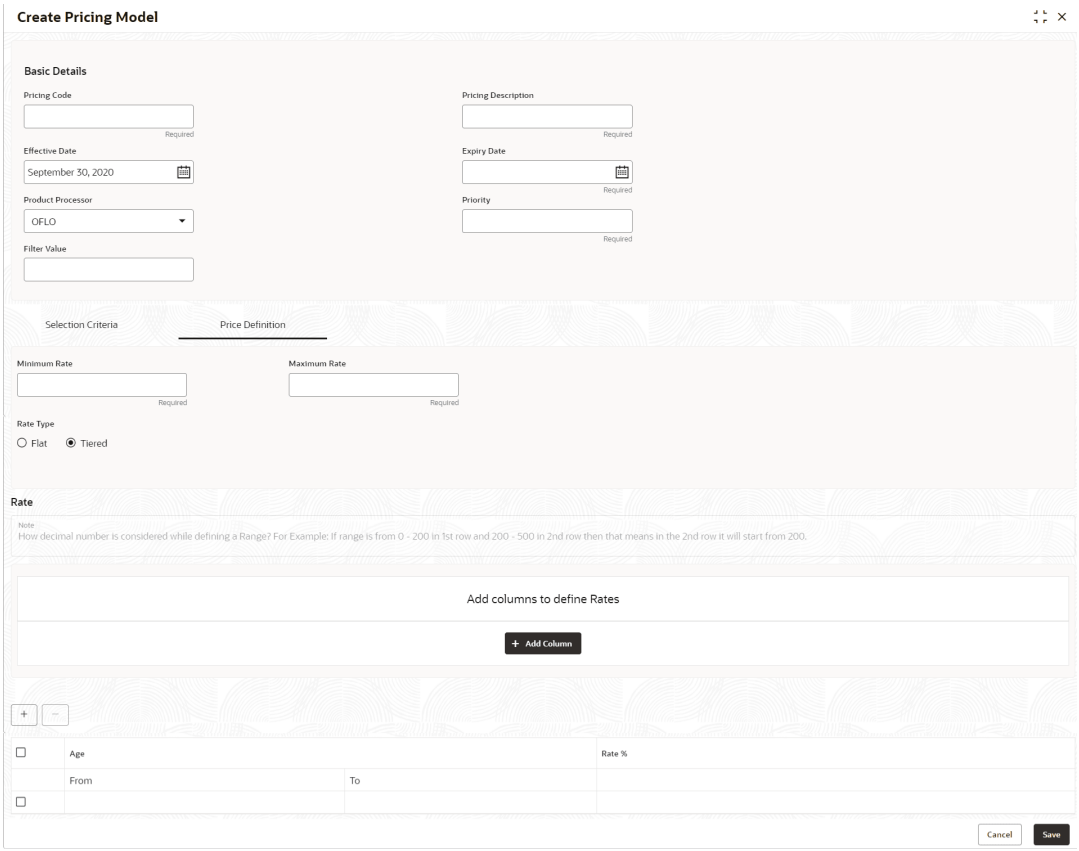
Figure 3-57 Create Pricing Model – Price Definition (Tiered)



For more information on fields, refer to the field description table.

Table 3-60 Create Pricing Model – Price Definition (Tiered) - Field Description

Field	Description
Minimum Rate	Specify the minimum rate applicable for the defined pricing code.
Maximum Rate	Specify the maximum rate applicable for the defined pricing code.
Rate Type	Select the rate type from the drop-down list as **Tiered**.
<Numeric Feature> From	Specify the minimum numeric value of feature to which the interest rate is applicable.
<Numeric Feature> To	Specify the maximum numeric value of feature to which the interest rate is applicable.
<Character Feature> Value	Specify the alphabetic value for which the interest rate is applicable.
Rate %	Specify the interest rate applicable for the defined tier. This field appears once you select the **Rate Type** option as **Tiered** and **Link a Rule?** option as **No**.
Rule	Select the rule for the defined tier from the drop-down list. This field appears once you select the **Rate Type** option as **Tiered** and **Link a Rule?** option as **Yes**.

12. Perform one of the following action:
    - Click **Save** to save the details.

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The **Pricing Model** is successfully created and can be viewed using View Pricing Model screen.

- Click **Cancel** to discard the changes and close the screen.

3.12.2 View Pricing Model

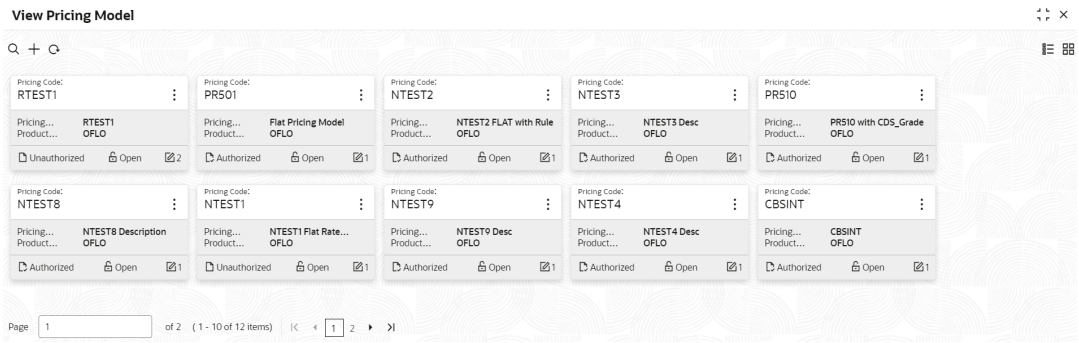
This topic describes the systematic instructions to view the list of pricing model.

The user can create the pricing model using the Create Pricing Model screen. The status of the uploaded model is displayed as **Unauthorized** and **Open**. Once the checker authorizes the model, the status is updated to **Authorized** and **Open**.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Credit Decision**.
2. Under **Credit Decision**, click **Maintenance**. Under **Maintenance**, click **Pricing Model**, then click **View Pricing Model**.

   The **View Pricing Model** screen is displayed.

Figure 3-58 View Pricing Model



For more information on fields, refer to the field description table.

Table 3-61 View Pricing Model – Field Description

Field	Description
Pricing Code	Displays the pricing code.
Pricing Description	Displays the description of the pricing model.
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modifications performed on the record.

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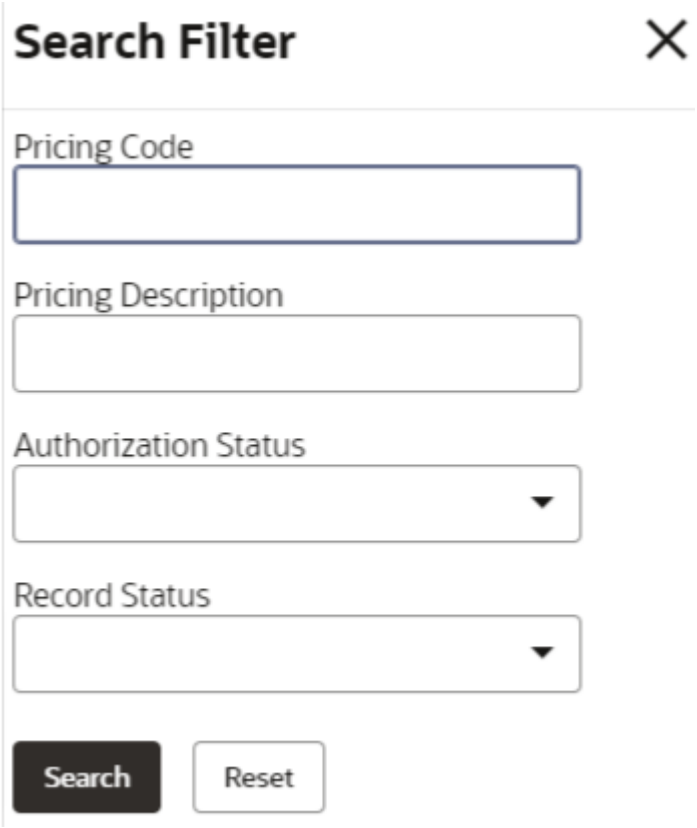
3. On the **View Pricing Model** screen, click icon.

   The **View Pricing Model - Search** screen is displayed.

Figure 3-59 View Pricing Model - Search



For more information on fields, refer to the field description table.

Table 3-62 View Pricing Model - Search – Field Description

Field	Description
Pricing Code	Specify the pricing code.
Pricing Description	Specify the description of the pricing model.
Authorization Status	Select the authorization status from the drop-down list. The available options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Select the record status from the drop-down list. The available options are: • **Open** • **Closed**

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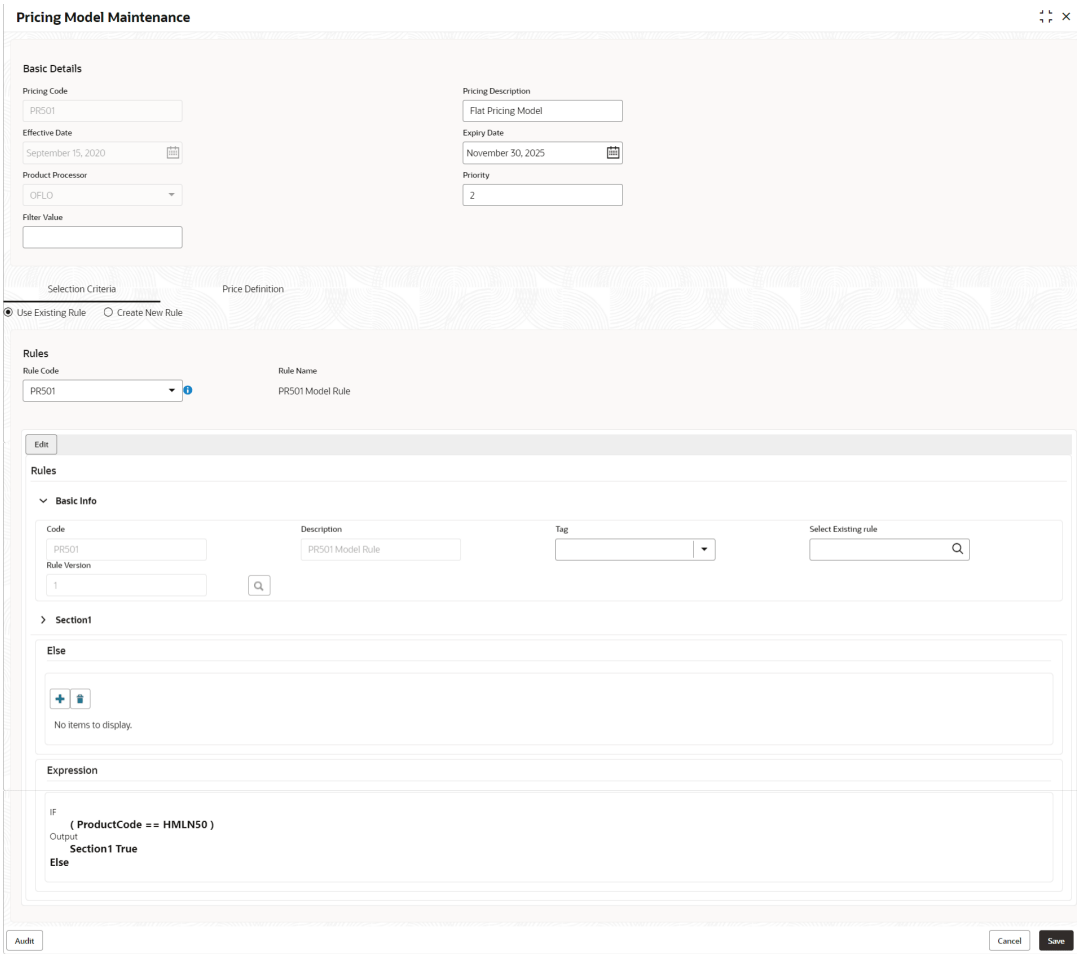
4. On the **View Pricing Model - Search** screen, click ⋮ icon to **Unlock**, **Delete**, **Authorize** or **View** the created pricing model.
5. Click **Unlock** to modify the created pricing model.

   The **Pricing Model Maintenance - Modify** screen is displayed.

Figure 3-60 Pricing Model Maintenance - Modify



> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 3-63 Pricing Model Maintenance - Modify - Field Description

Field	Description
Pricing Code	Displays the pricing code for the created quantitative pricing model.

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Table 3-63 (Cont.) Pricing Model Maintenance - Modify - Field Description

Field	Description
Pricing Description	Specify the pricing description for the created pricing model.
Effective Date	Specify the effective date for the created pricing model.
Expiry Date	Specify the expiry date for the created pricing model.
Product Processor	Displays the product processor for the created pricing model.
Priority	Specify the priority of the created pricing model.
Use Existing Rule	Specify the existing rule if linked.
Rule Code	Specify the rule code for the created pricing model.
	Click this icon to get the information about the rule.
Rule Name	Displays the rule name.
Create New Rule	Specify the new rule linked to the pricing model.
Code	Specify the new rule code for the created pricing model.
Description	Specify the rule description for the created pricing model.
+ icon	Click this icon can add new expression.
Fact / Rules	Displays the fact or rule of the created pricing model.
Operator	Displays the comparison operator of the created pricing model.
Data Type	Displays the data type for the fact or rule for the created pricing model.
Output	Displays the output for the created pricing model.
Expression	Displays the expression updated in the expression builder for the created pricing model.
Pricing Definition	The below listed fields appear in **Pricing Definition** tab.
Minimum Rate	Specify the minimum rate applicable for the defined pricing model.
Maximum Rate	Specify the maximum rate applicable for the defined pricing model.
Rate Type	Select the range type for the created pricing model from the drop-down list. The available options are: • **Flat** • **Tiered**
Rate%	Specify the interest rate application for the defined pricing. **Note**: This field appears once the user select the **Rate Type** option as **Flat** and **Link a Rule?** option as **Yes**.
Rule	Select the rule for the defined pricing. **Note**: This field appears once the user select the **Rate Type** option as **Flat** and **Link a Rule?** option as **Yes**.
<Numeric Feature> From	Specify the minimum numeric value of feature to which the interest rate is applicable. **Note**: This field displays if the **Rate Type** is selected as **Tiered**.
<Numeric Feature> To	Specify the maximum numeric value of feature to which the interest rate is applicable. **Note**: This field displays if the **Rate Type** is selected as **Tiered**.
<Character Feature> Value	Specify the alphabetic value for which the interest rate is applicable. **Note**: This field displays if the **Rate Type** is selected as **Tiered**.

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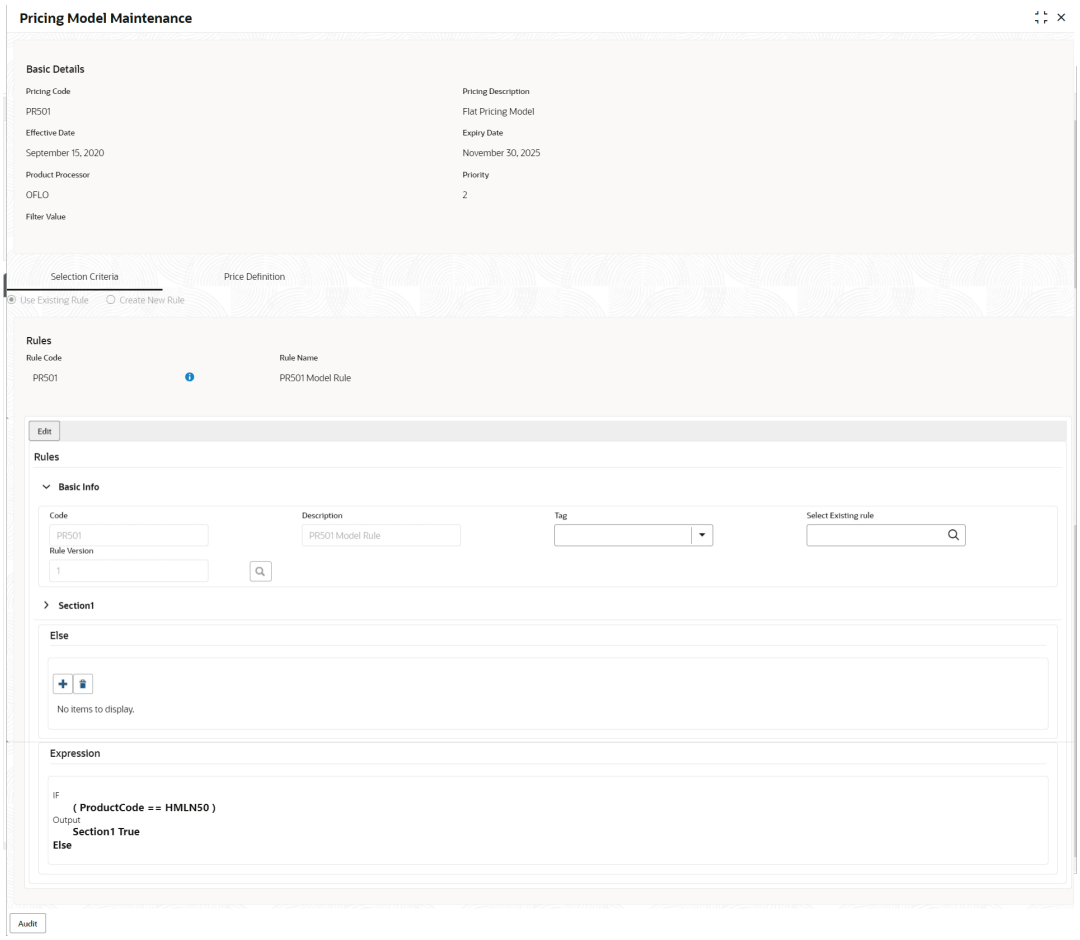
Table 3-63 (Cont.) Pricing Model Maintenance - Modify - Field Description

Field	Description
Rate%	Specify the interest rate applicable for the defined tier. **Note**: This field appears once you select the **Rate Type** option as **Tiered** and **Link a Rule?** option as **No**.
Rule	Select the rule for the defined tier. **Note**: This field appears once the user select the **Rate Type** option as **Tiered** and **Link a Rule?** option as **Yes**.

6. Click **Save** to save the details.
7. Click **View** to view the created quantitative scoring model.

   The **Pricing Model Maintenance – View** screen is displayed.

Figure 3-61 Pricing Model Maintenance - View



For more information on fields, refer to the field description table.

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Table 3-64 Pricing Model Maintenance - View - Field Description

Field	Description
Pricing Code	Displays the pricing code for the created quantitative pricing model.
Pricing Description	Displays the pricing description for the created pricing model.
Effective Date	Displays effective date for the created pricing model.
Expiry Date	Displays date for the created pricing model.
Product Processor	Displays the product processor for the created pricing model.
Priority	Displays the priority of the created pricing model.
Use Existing Rule	Displays the existing rule if linked.
Rule Code	Displays the rule code for the created pricing model.
	Click this icon to get the information about the rule.
Rule Name	Displays the rule name.
Create New Rule	Displays the new rule linked to the pricing model.
Code	Specify the new rule code for the created pricing model.
Description	Specify the rule description for the created pricing model.
+ icon	This icon can add new expression.
Fact / Rules	Displays the fact or rule of the created pricing model.
Operator	Displays the comparison operator of the created pricing model.
Data Type	Displays the data type for the fact or rule for the created pricing model.
Output	Displays the output for the created pricing model.
Expression	Displays the expression updated in the expression builder for the created pricing model.
Pricing Definition	The below fields appears in the **Pricing Definition** tab.
Minimum Rate	Displays the minimum rate applicable for the defined pricing model.
Maximum Rate	Displays the maximum rate applicable for the defined pricing model.
Rate Type	Displays the range type for the created pricing model from the drop-down list. The available options are: • **Flat** • **Tiered**
Rate%	Displays the interest rate application for the defined pricing. **Note**: This field appears once the user select the **Rate Type** as **Flat** and **Link a Rule?** option as **Yes**.
Rule	Displays the rule for the defined pricing. **Note**: This field appears once you select the **Rate Type** option as **Flat** and **Link a Rule?** option as **Yes**.
<Numeric Feature> From	Displays the minimum numeric value of feature to which the interest rate is applicable. **Note**: This field displays if the **Rate Type** is selected as **Tiered**.
<Numeric Feature> To	Displays the maximum numeric value of feature to which the interest rate is applicable. **Note**: This field displays if the **Rate Type** is selected as **Tiered**.
<Character Feature> Value	Displays the alphabetic value for which the interest rate is applicable. **Note**: This field displays if the **Rate Type** is selected as **Tiered**.

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Table 3-64 (Cont.) Pricing Model Maintenance - View - Field Description

Field	Description
Rate%	Displays the interest rate applicable for the defined tier. **Note**: This field appears once you select the **Rate Type** option as **Tiered** and **Link a Rule?** option as **No**.
Rule	Displays the rule for the defined tier. **Note**: This field appears once you select the **Rate Type** option as **Tiered** and **Link a Rule?** option as **Yes**.

3.13 Validation Model

This topic describes the information about the Validation model.

During credit decision, system evaluates a credit score that represents the creditworthiness of an individual. Banks also do an initial evaluation by using some rules to decide whether to proceed with credit decisioning process or not. A bank can perform this evaluation by maintaining a Validation model. Multiple levels of rule can be setup in Validation model. The system will process the next step of credit decisioning only if all the rules are satisfied. If any rule fails, then system will stop the processing and decline the request.

This topic contains the following subtopics:

- Create Validation Model
  This topic describes the systematic instructions to create Validation model based on the various input.
- View Validation Model
  This topic describes the systematic instructions to view the list of configured validation model.

3.13.1 Create Validation Model

This topic describes the systematic instructions to create Validation model based on the various input.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Credit Decision**.
2. Under **Credit Decision**, click **Maintenance**. Under **Maintenance**, click **Validation Model**, then click **Create Validation Model**.

   The **Create Validation Model** screen is displayed.

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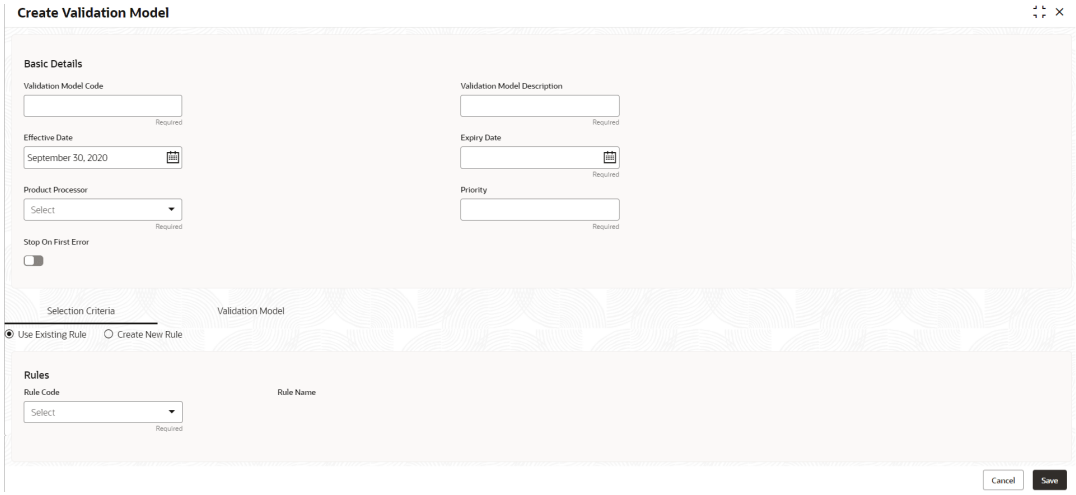
Figure 3-62 Create Validation Model



3. Specify the fields on the **Create Validation Model** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 3-65 Create Validation Model - Field Description

Field	Description
Validation Model Code	Specify the unique Validation model code.
Validation Model Description	Specify a short description for the Validation model.
Effective Date	Specify the effective date.
Expiry Date	Specify the expiry date.
Product Processor	Specify the product processor for which the Validation model is being created.
Priority	Specify the priority of the pricing.

4. Click the **Selection Criteria** to define selection criteria rules.

   The **Create Validation Model - Selection Criteria** screen is displayed.

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Figure 3-63 Create Validation Model - Selection Criteria

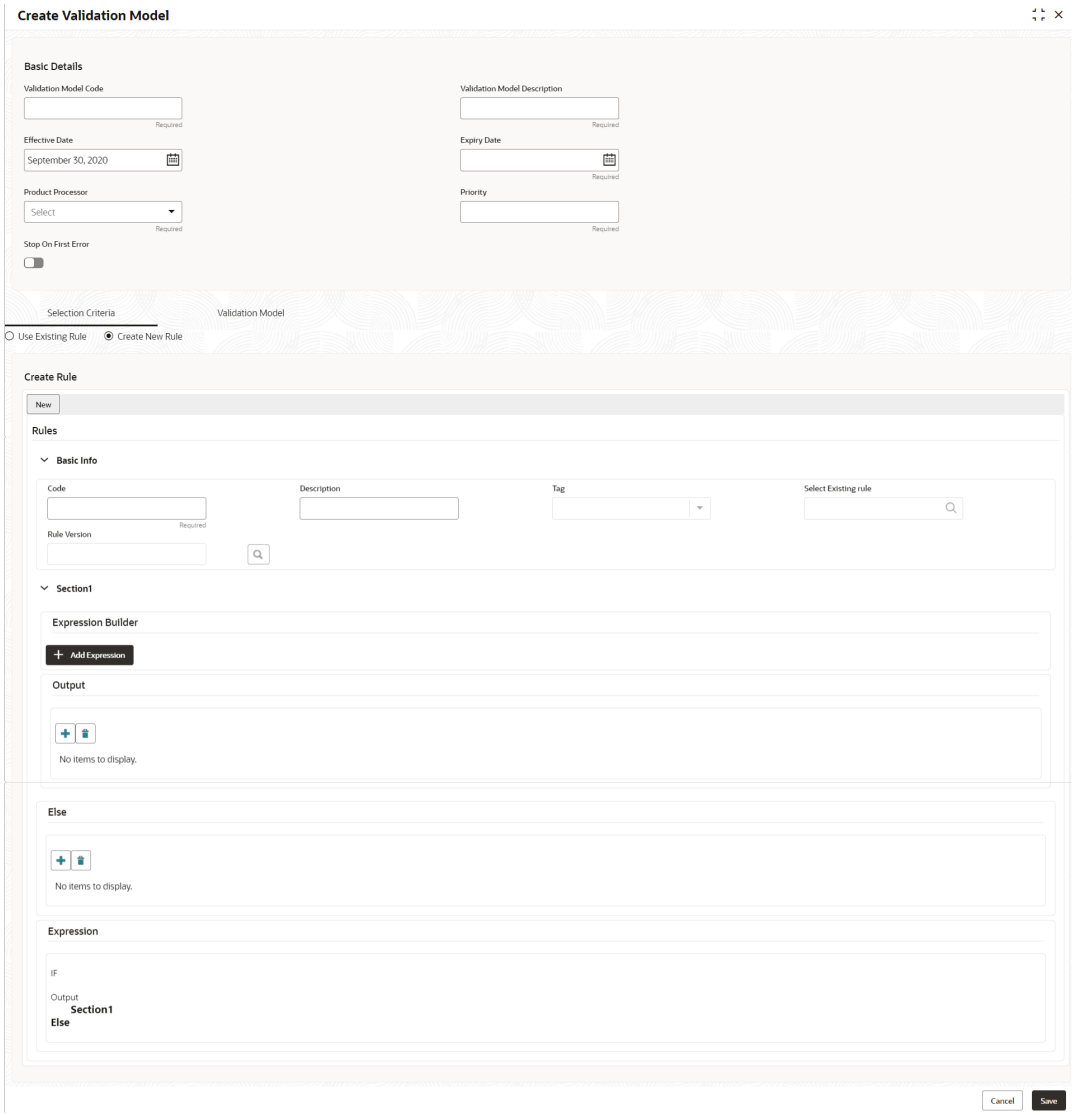

Table 3-66 Create Validation Model - Selection Criteria - Field Description

Field	Description
Use Existing Rule	By default, this option is enabled. Indicates if the existing rule is linked.
Rule Code	Select the rule code from the drop down list.
	Click this icon to get the information about the rule.
Rule Name	Displays the rule name of the rule code.
Create New Rule	Select this option to create new rule.
Code	Specify the rule code.
Description	Specify the rule description.
+ icon	Click this icon to add new expression.

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Table 3-66 (Cont.) Create Validation Model - Selection Criteria - Field Description

Field	Description
Fact / Rules	Select the fact or rule from the drop-down list. Once the user selects the fact/rules, one more field opens adjacent to the output, update the same based on the selected output option.
Operator	Select the comparison operator from the drop-down list. The available options are: • **<** • **>** • **+** • **=** • **%** • **!=** • **-** • **>=** • **<=** • ***** • **/** • **Contains** • **In** • **Like** • **Matches** • **NotMatches** • **NotContains** • **Notin**
Data Type	Select the data type for the fact or rule. Once the user select the data type, one more field opens adjacent to the output, update the same based on the selected output option. The available options are: • **Text** • **Number** • **Boolean** • **Date** • **Fact** • **Rules** The below option displays if the **Data Type** is selected as **Boolean**. • **True** • **False**
Output	Select the output from the drop-down list. Once the user select the data type, one more field opens adjacent to the output, update the same based on the selected output option. The available options are: • **Text** • **Number** • **Boolean** • **Date** • **Fact** • **Rules** The below option appears if the **Data Type** is selected as **Boolean**. • **True** • **False**
Expression	Displays the expression updated in the expression builder.

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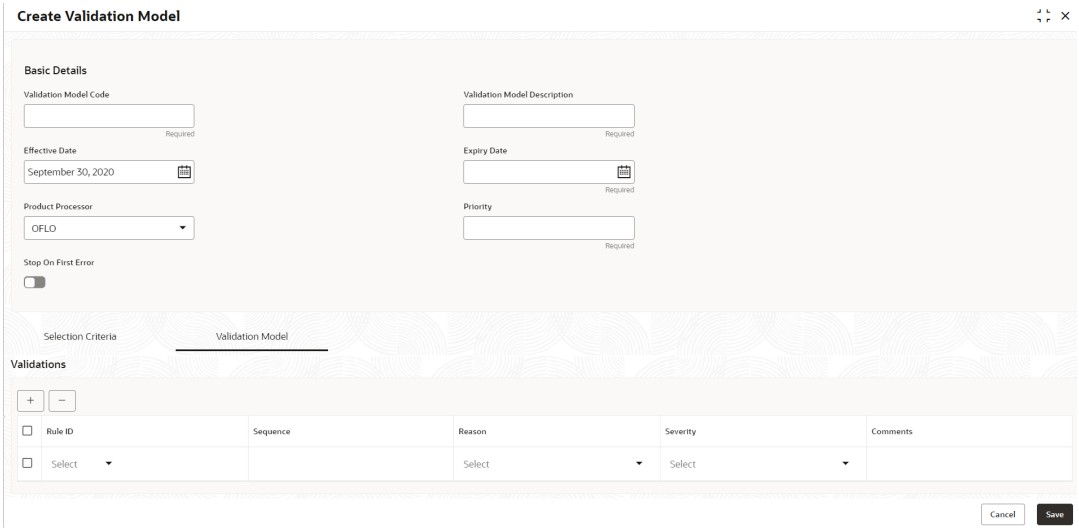
5. Click the **Validation Model** to define the pricing.

   The **Create Validation Model – Validation Model** screen is displayed.

Figure 3-64 Create Validation Model – Validation Model



For more information on fields, refer to the field description table.

Table 3-67 Create Validation Model – Validation Model - Field Description

Field	Description
+ icon	Click this icon to add a new row.
- icon	Click this icon to delete a row, which is already added.
Rule ID	Select the rule ID from the drop down list. All rules configured in the rule engine for the selected product processor are obtained.
	Click this icon to get the information about the rule.
Sequence	Specify the sequence of execution of rules.
Reason	Select the reason from the drop down list.
Comments	Specify the comments.

6. Perform one of the following action:

   - Click **Save** to save the details.
     The **Validation Model** is successfully created and can be viewed using the View Validation Model screen.
   - Click **Cancel** to discard the changes and close the screen.

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3.13.2 View Validation Model

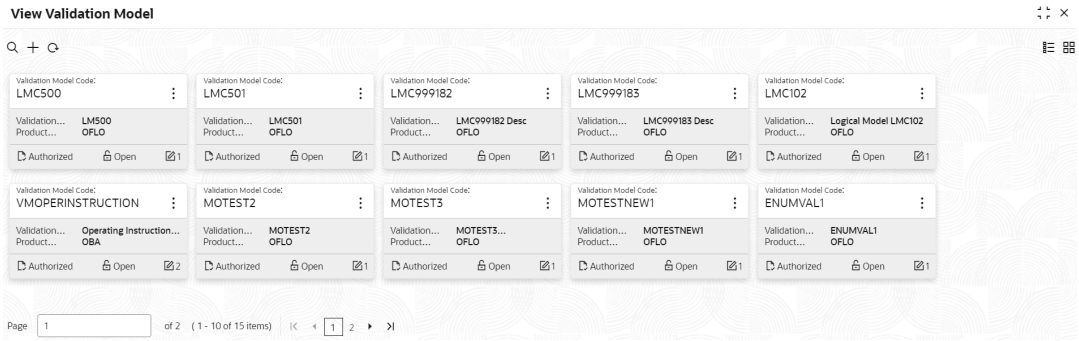
This topic describes the systematic instructions to view the list of configured validation model.

The user can configure the validation model using the Create Validation Model screen. The status of the created validation model is displayed as **Unauthorized** and **Open**. Once the checker authorizes the model, the status is updated to **Authorized** and **Open**.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Credit Decision**.
2. Under **Credit Decision**, click **Maintenance**. Under **Maintenance**, click **Validation Model**, then click **View Validation Model**.

   The **View Validation Model** screen is displayed.

Figure 3-65 View Validation Model



For more information on fields, refer to the field description table.

Table 3-68 View Validation Model – Field Description

Field	Description
Validation Model Code	Displays the validation model code.
Validation Model Description	Displays the description of the validation model.
Product Processor Code	Displays the product processor code.
Authorization Status	Select the authorization status from the drop-down list. The available options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Select the record status from the drop-down list. The available options are: • **Open** • **Closed**

3. On the **View Validation Model** screen, click

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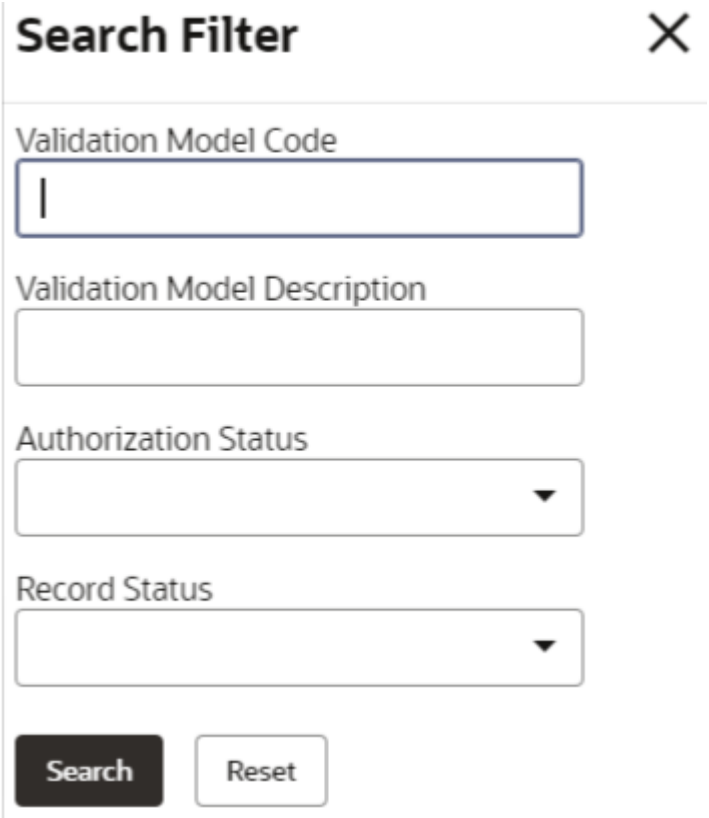
icon.

The **View Validation Model - Search** screen is displayed.

Figure 3-66 View Validation Model - Search



For more information on fields, refer to the field description table.

Table 3-69 View Validation Model - Search – Field Description

Field	Description
Validation Model Code	Specify the validation model code.
Validation Model Description	Specify the description of the validation model.
Authorization Status	Select the authorization status from the drop-down list. The available options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Select the record status from the drop-down list. The available options are: • **Open** • **Closed**

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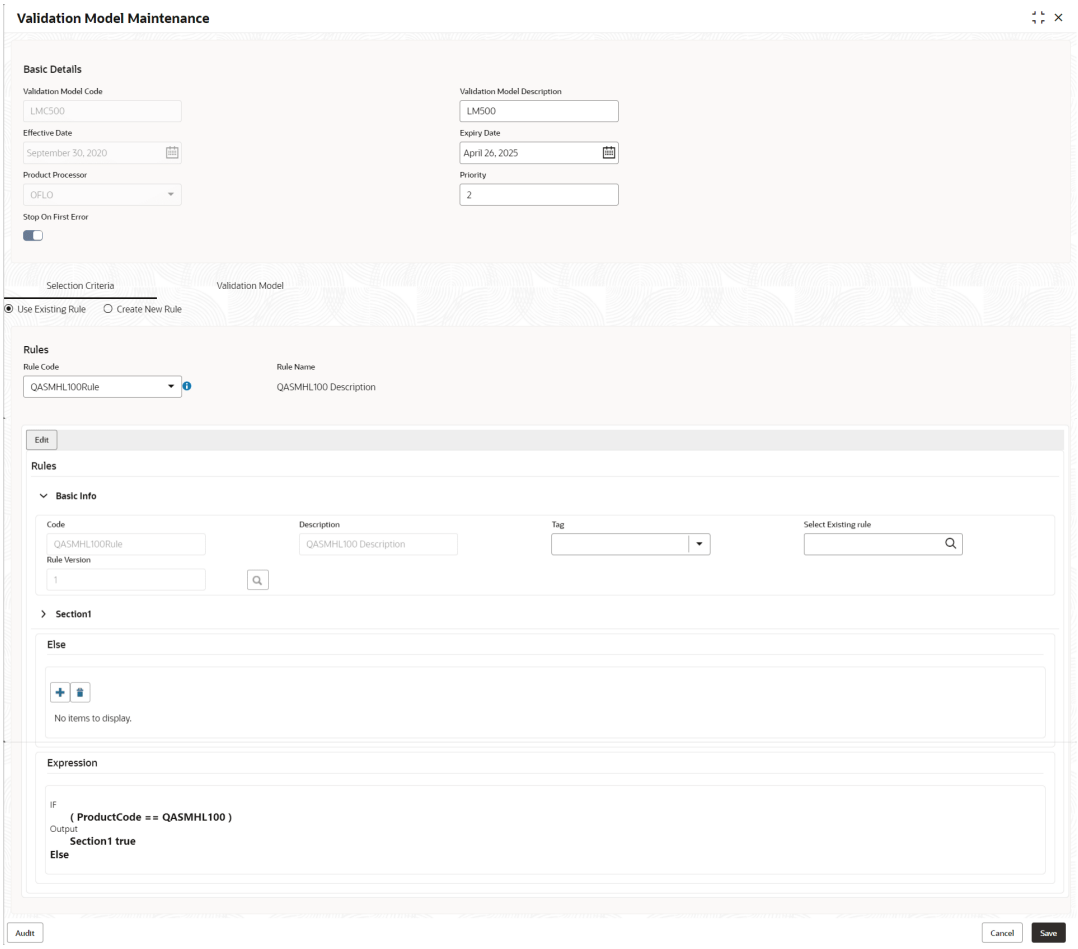
4. On the **View Validation Model** screen, click ⋮ icon to **Unlock**, **Delete**, **Authorize** or **View** the created validation model.
5. Click **Unlock** to modify the created validation model.

   The **Validation Model Maintenance - Modify** screen is displayed.

Figure 3-67 Validation Model Maintenance - Modify



> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

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Table 3-70 Validation Model Maintenance - Modify - Field Description

Field	Description
Validation Model Code	Displays the created validation model code.
Validation Model Description	The user can modify the description for the created validation model.
Effective Date	The user can modify effective date for the created validation model.
Expiry Date	The user can modify expiry date for the created validation model.
Product Processor	Displays the product processor for the created validation model.
Priority	The user can modify the priority of the created validation model.
Use Existing Rule	The user can modify the existing rule if linked.
Rule Code	The user can modify the rule code for the created validation model.
	Click this icon to get the information about the rule.
Rule Name	Displays the rule name.
Create New Rule	The user can modify the new rule linked to the validation model.
Code	Specify the new rule code for the created validation model.
Description	Specify the rule description for the created validation model.
+ icon	This icon can add new expression.
Fact / Rules	Displays the fact or rule of the created validation model.
Operator	Displays the comparison operator of the created validation model.
Data Type	Displays the data type for the fact or rule for the created validation model.
Output	Displays the output for the created validation model.
Expression	Displays the expression updated in the expression builder for the created validation model.
Rule ID	The user can modify the rule ID of the created validation model.
	Click this icon to get the information about the rule.
Sequence	Displays the sequence of the created validation model.
Reason	The user can modify the reason of the created validation model.
Comments	The user can modify the comments of the created validation model.

6. Click **Save** to save the details.
7. Click **View** to view the created validation model.

   The **Validation Model Maintenance – View** screen is displayed.

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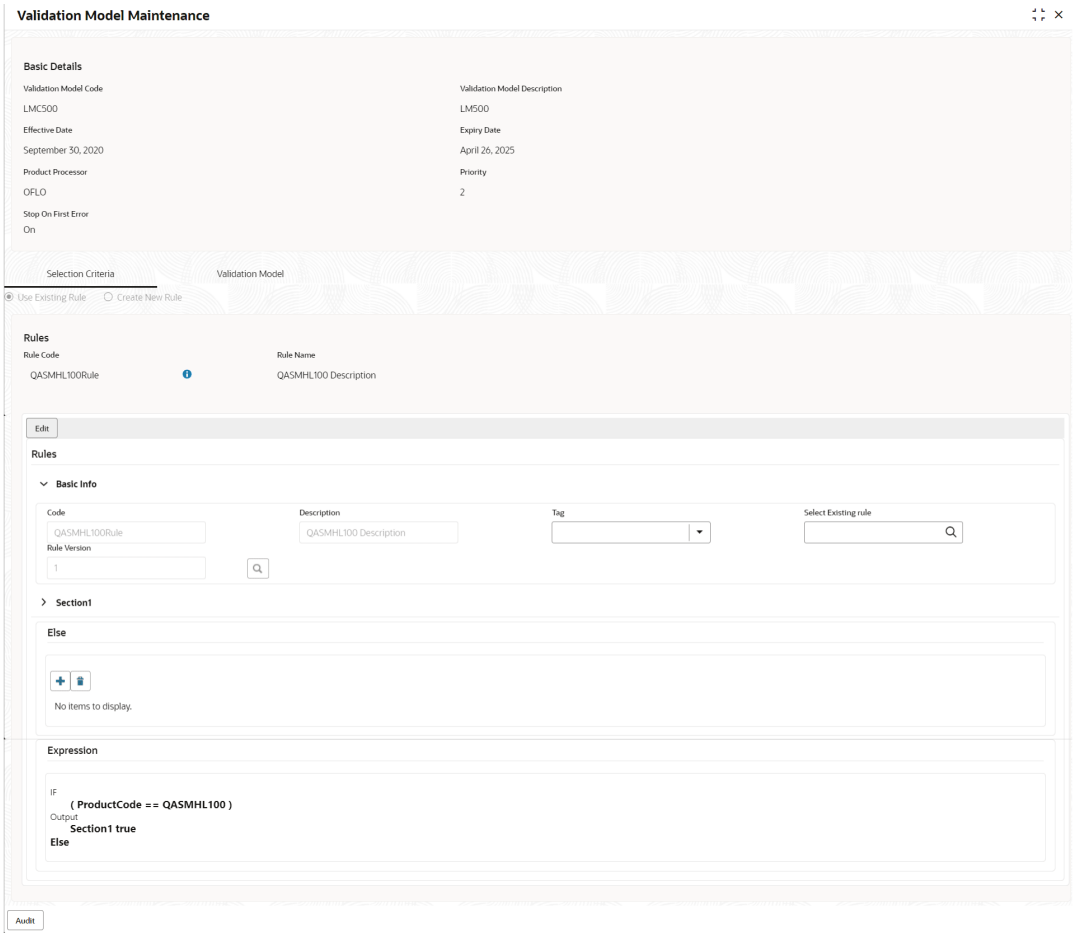
Figure 3-68 Validation Model Maintenance - View



For more information on fields, refer to the field description table.

Table 3-71 Validation Model Maintenance - View - Field Description

Field	Description
Validation Model Code	Displays the created validation model code.
Validation Model Description	Displays the description for the created validation model.
Effective Date	Displays the effective date for the created validation model.
Expiry Date	Displays the expiry date for the created validation model.
Product Processor	Displays the product processor for the created validation model.
Priority	Displays the priority of the created validation model.
Use Existing Rule	Displays the existing rule if linked.
Rule Code	Displays the rule code for the created validation model.
	Click this icon to get the information about the rule.

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Table 3-71 (Cont.) Validation Model Maintenance - View - Field Description

Field	Description
Rule Name	Displays the rule name.
Create New Rule	Displays the new rule linked to the validation model.
Code	Displays the new rule code for the created validation model.
Description	Displays the rule description for the created validation model.
+ icon	This icon can add new expression.
Fact / Rules	Displays the fact or rule of the created validation model.
Operator	Displays the comparison operator of the created validation model.
Data Type	Displays the data type for the fact or rule for the created validation model.
Output	Displays the output for the created validation model.
Expression	Displays the expression updated in the expression builder for the created validation model.
Rule ID	Displays the rule ID of the created validation model.
	Click this icon to get the information about the rule.
Sequence	Displays the sequence of the created validation model.
Reason	Displays the reason of the created validation model.
Comments	Displays the comments of the created validation model.

3.14 Qualitative Scoring Model

This topic describes the information about the Qualitative scoring model for the Decision service.

Financial institution use different models for different product or use case. The qualitative scoring model used for home loan would be different then the personal loan. Banks usually grant loan based on a credit scoring model that combines quantitative and qualitative analysis.

This topic contains the following subtopics:

- Create Qualitative Scoring Model
  This topic describes the systematic instructions to configure the qualitative scoring model based on the various scoring parameters.
- View Qualitative Scoring Model
  This topic describes the systematic instructions to view the list of configured qualitative scoring model.

3.14.1 Create Qualitative Scoring Model

This topic describes the systematic instructions to configure the qualitative scoring model based on the various scoring parameters.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Credit Decision**.
2. Under **Credit Decision**, click **Maintenance**. Under **Maintenance**, click **Qualitative Scoring**, then click **Qualitative Scoring Model**.

   The **Create Qualitative Scoring Model** screen is displayed.

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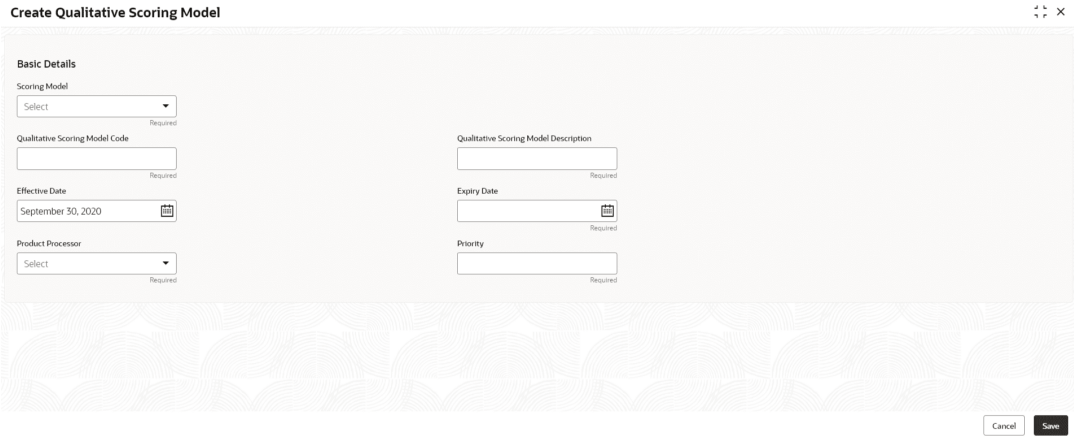
Figure 3-69 Create Qualitative Scoring Model



3. Specify the fields on the **Create Qualitative Scoring Model** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 3-72 Create Qualitative Scoring Model - Field Description

Field	Description
Scoring Model	Select the scoring model from the drop-sown list. The available options are: • **Application Scoring Model** • **Applicant Scoring Model**
Qualitative Scoring Model Code	Specify the unique scoring model code.
Qualitative Scoring Model Description	Specify a short description for the scoring model.
Effective Date	Specify the effective date.
Expiry Date	Specify the expiry date.
Product Processor	Specify the product processor for which the model is being created.
Priority	Specify the priority of the model.

4. Click the **Selection Criteria** to define qualitative scoring model.

   The **Create Qualitative Scoring Model - Selection Criteria** screen is displayed.

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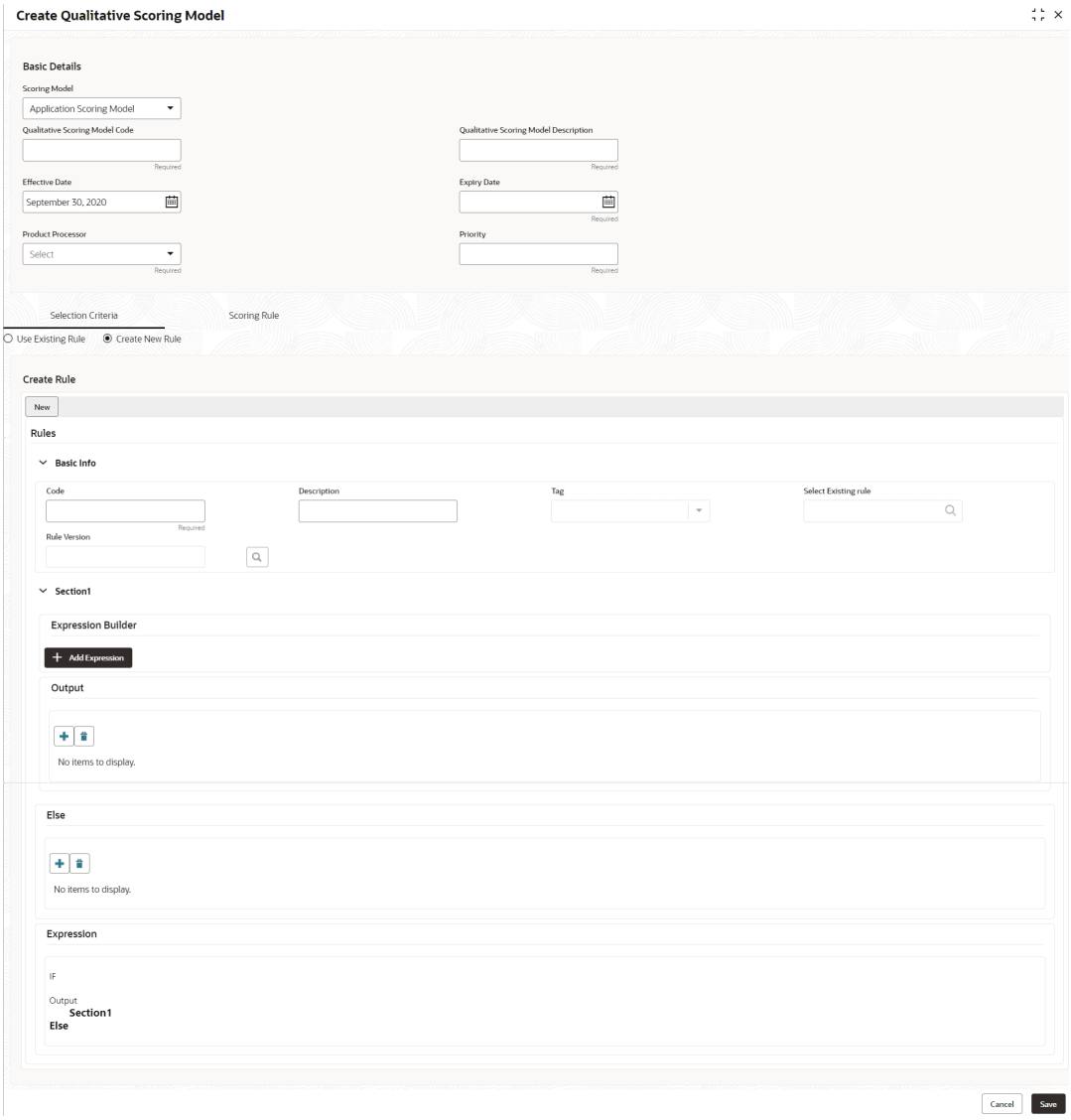
Figure 3-70 Create Qualitative Scoring Model - Selection Criteria



For more information on fields, refer to the field description table.

Table 3-73 Create Qualitative Scoring Model - Selection Criteria - Field Description

Field	Description
Use Existing Rule	Indicates if the existing rule is linked. By default, this option is enabled.
Rule Code	Select the rule code from the drop down list.
	Click this icon to get the information about the rule.
Rule Name	Displays the rule name of the rule code.
Create New Rule	Select this option to create new rule.
Code	Specify the rule code.

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Table 3-73 (Cont.) Create Qualitative Scoring Model - Selection Criteria - Field Description

Field	Description
Description	Specify the rule description.
+ icon	Click this icon to add new expression.
Fact / Rules	Select the fact or rule from the drop-down list. Once the user selects the fact/rules, one more field opens adjacent to the output, update the same based on the selected output option.
Operator	Select the comparison operator from the drop-down list. The available options are: • **<** • **>** • **+** • **=** • **%** • **!=** • **-** • **>=** • **<=** • ***** • **/** • **Contains** • **In** • **Matches** • **NotMatches** • **NotContains** • **Notin**
Data Type	Select the data type for the fact or rule. Once the user select the data type, one more field opens adjacent to the output, update the same based on the selected output option. The available options are: • **Text** • **Number** • **Boolean** • **Date** • **Fact** • **Rules** The below option appears if the **Data Type** is selected as **Boolean**. • **True** • **False**

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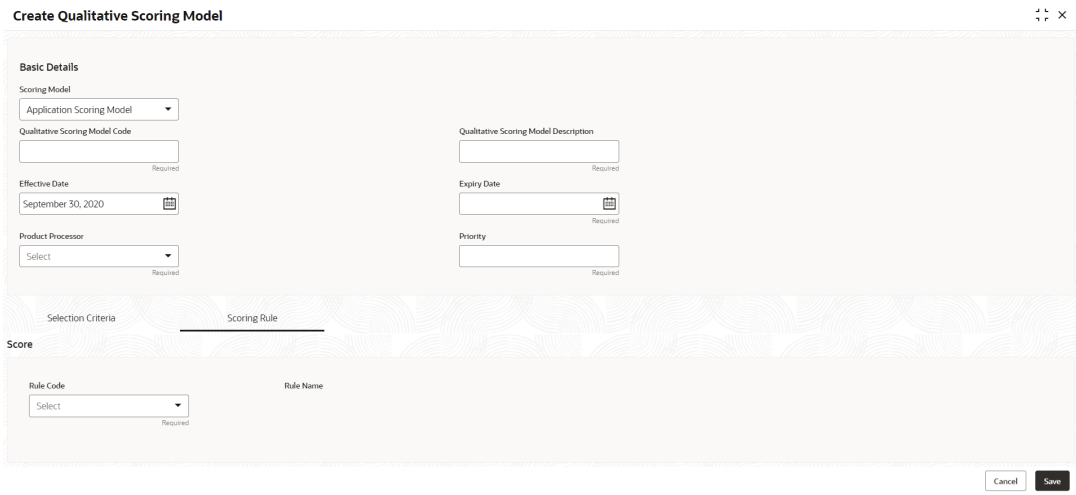
Table 3-73 (Cont.) Create Qualitative Scoring Model - Selection Criteria - Field Description

Field	Description
Output	Select the output from the drop-down list. Once the user select the data type, one more field opens adjacent to the output, update the same based on the selected output option. The available options are: • **Text** • **Number** • **Boolean** • **Date** • **Fact** • **Rules** The below option appears if the **Data Type** is selected as **Boolean**. • **True** • **False**
Expression	Displays the expression updated in the expression builder.

5. Click the **Scoring Rule** to define the rules. This tab is enabled if **Application Scoring Model** is selected.

   The **Create Qualitative Scoring Model - Scoring Rule** screen is displayed.

Figure 3-71 Create Qualitative Scoring Model - Scoring Rule



For more information on fields, refer to the field description table.

Table 3-74 Create Qualitative Scoring Model - Scoring Rule - Field Description

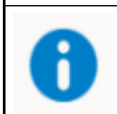
Field	Description
Rule Code	Select the rule code from the drop-down list.
	Click this icon to get the information about the rule.

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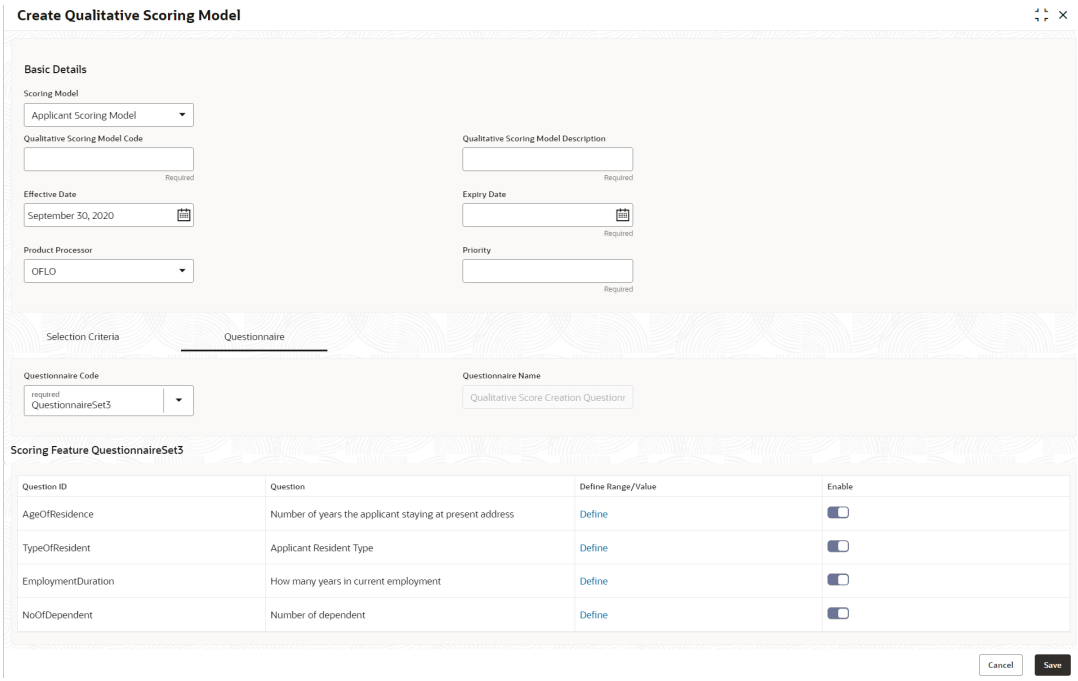
Table 3-74 (Cont.) Create Qualitative Scoring Model - Scoring Rule - Field Description

Field	Description
Rule Name	Displays the rule name of the rule code.

6. Click the **Questionnaire** tab to define the scoring model based on the various questionnaires. This tab is enabled if **Applicant Scoring Model** is selected.

   The **Create Qualitative Scoring Model - Questionnaire** screen is displayed.

Figure 3-72 Create Qualitative Scoring Model - Questionnaire



For more information on fields, refer to the field description table.

Table 3-75 Create Qualitative Scoring Model - Questionnaire - Field Description

Field	Description
Questionnaire Code	Select the questionnaire code from the drop-down list. It will list down all the questionnaire created as a part of create questionnaire.
Questionnaire Name	Displays the questionnaire name of the selected questionnaire code.
Question ID	Displays the question ID in the questionnaire.
Question	Displays the question description linked to the question ID.
Define Range/ Value	Click the **Define** link to define the score for the expected response.
Enable	Indicates if the question ID is enabled or not. By default, this option is enabled.

7. Click the **Define** link to define a range or absolute values for questions.

   The **Create Qualitative Scoring Model - Define Link** screen is displayed.

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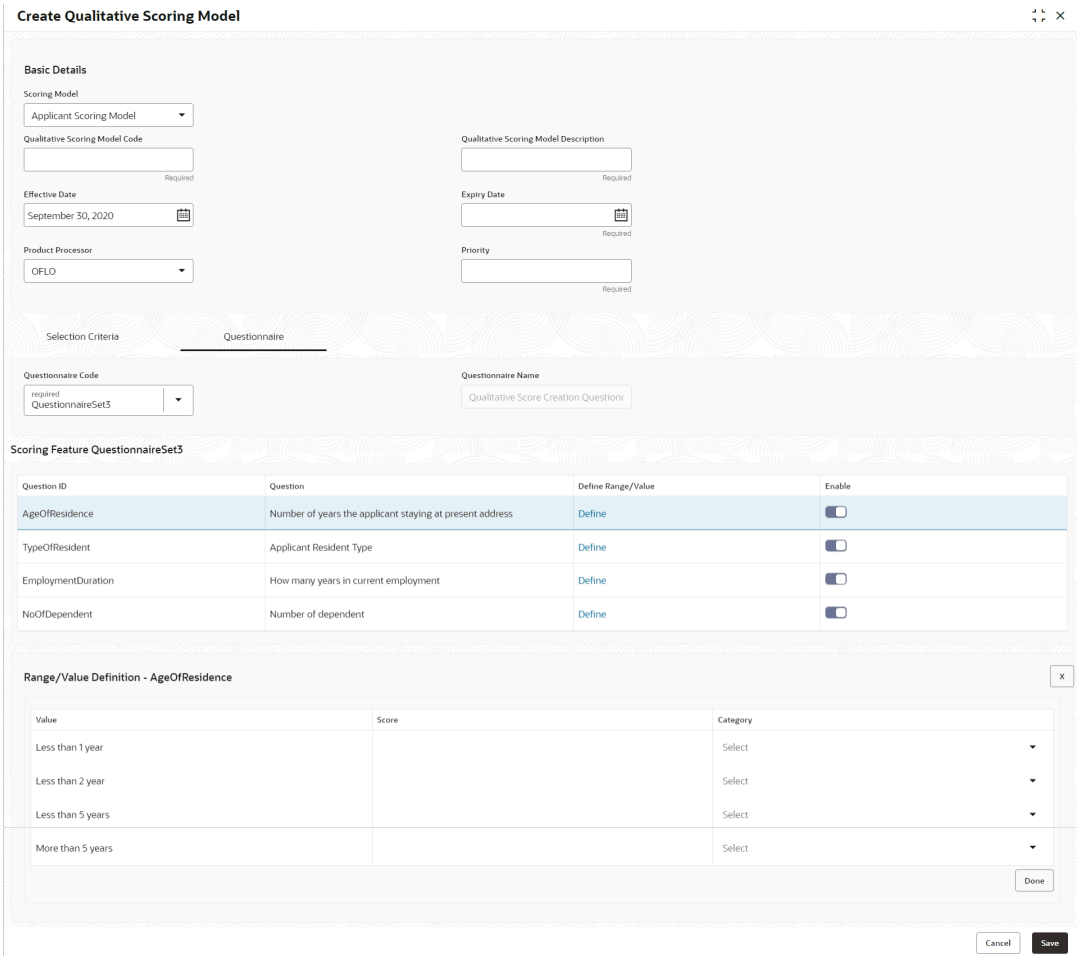
Figure 3-73 Create Qualitative Scoring Model - Define Link



For more information on fields, refer to the field description table.

Table 3-76 Create Qualitative Scoring Model - Define Link – Numeric Feature - Field Description

Field	Description
Value	Displays the options available for a questionnaire.
Score	Specify the score to be assigned to each value.
Category	Specify the category for each range or value from the drop-down list. The values are configurable based on the lookup values maintained. The available options are: • **Strong** • **Medium** • **Weak**

8. Click **Done** to save the data and close the range panel.
9. Perform one of the following action:
   - Click **Save** to save the details.
     The **Qualitative Scoring Model** is successfully created and can be viewed using the View Qualitative Scoring Model screen.

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- Click **Cancel** to discard the changes and close the screen.

3.14.2 View Qualitative Scoring Model

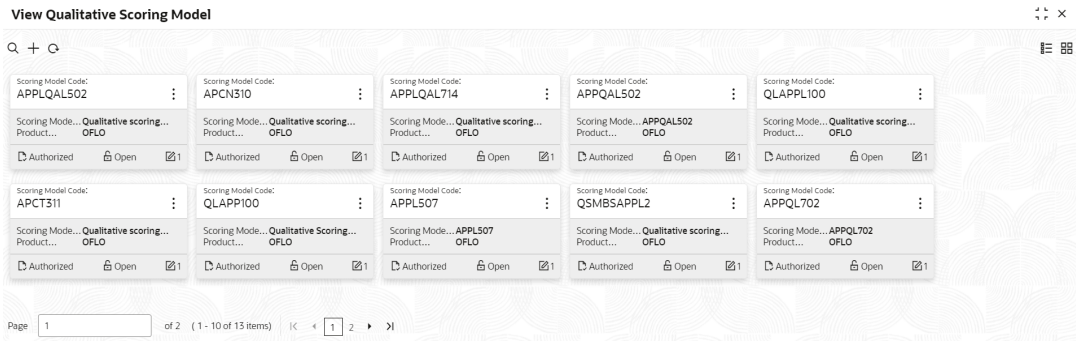
This topic describes the systematic instructions to view the list of configured qualitative scoring model.

The user can configure the qualitative scoring model using the **Create Qualitative Scoring Model** screen. The status of the uploaded model is displayed as **Unauthorized** and **Open**. Once the checker authorizes the model, the status is updated to **Authorized** and **Open**.

1. On **Homescreen**, click **Core Maintenance**, under **Core Maintenance**, click **Credit Decision**.
2. Under **Credit Decision**, click **Maintenance**, under **Maintenance**, click **Qualitative Scoring**, under **Qualitative Scoring Model**, click **View Qualitative Scoring Model**.

   The **View Qualitative Scoring Model** screen displays.

Figure 3-74 View Qualitative Scoring Model



For more information on fields, refer to the field description table.

Table 3-77 View Qualitative Scoring Model – Field Description

Field	Description
Scoring Model Code	Displays the scoring model code.
Scoring Model Description	Displays the description of the scoring model.
Product Processor Code	Displays the product processor code
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

3. On **View Qualitative Scoring Model** screen, click

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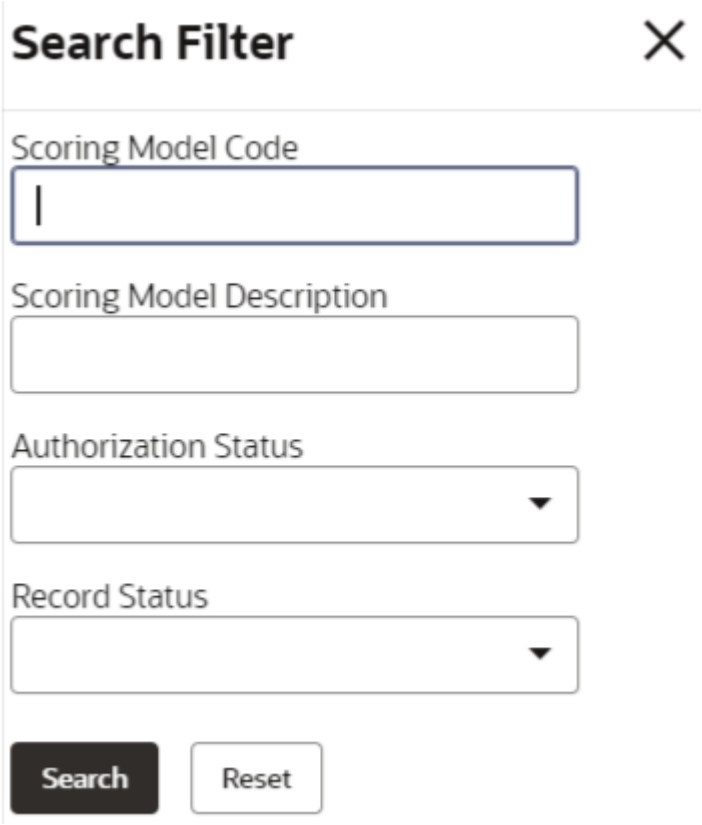
icon.

The **View Qualitative Scoring Model - Search** screen displays.

Figure 3-75 View Qualitative Scoring Model - Search



For more information on fields, refer to the field description table.

Table 3-78 View Qualitative Scoring Model - Search – Field Description

Field	Description
Scoring Model Code	Specify the scoring model code.
Scoring Model Description	Specify the description of the scoring model.
Authorization Status	Select the authorization status from the drop-down list. The available options are: • **Authorized** • **Rejected** • **Unauthorized**

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Table 3-78 (Cont.) View Qualitative Scoring Model - Search – Field Description

Field	Description
Record Status	Select the record status from the drop-down list. The available options are: • **Open** • **Closed**

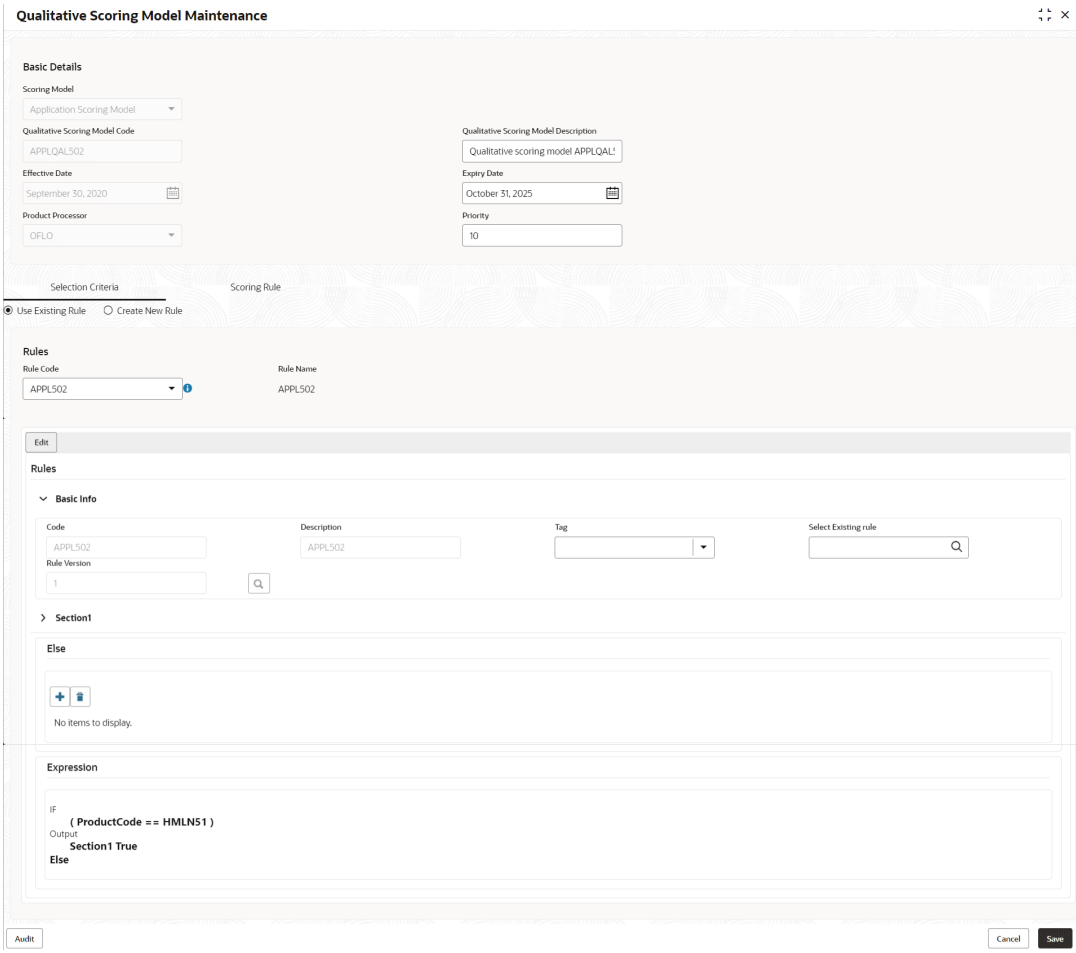
4. On **View Qualitative Scoring Model** screen, click

icon to **Unlock**, **Delete**, **Authorize**, or **View** the created qualitative scoring model.

5. Click **Unlock** to modify the created qualitative scoring model.

   The **Qualitative Scoring Model Maintenance - Modify** screen displays.

Figure 3-76 Qualitative Scoring Model Maintenance - Modify



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> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 3-79 Qualitative Scoring Model Maintenance - Modify - Field Description

Field	Description
Scoring Model	Displays the scoring model for the created qualitative scoring model.
Qualitative Scoring Model Code	Displays the qualitative scoring model code for the created qualitative scoring model.
Qualitative Scoring Model Description	The user can modify the qualitative scoring model description for the created qualitative scoring model.
Effective Date	Displays the effective date of the created qualitative scoring model. User can modify the same before authorization.
Expiry Date	Displays the expiry date of the created qualitative scoring model. User can modify the same before authorization.
Product Processor	Displays the product processor for the created qualitative scoring model.
Priority	The user can modify the priority of the created qualitative scoring model.
Use Existing Rule	User can modify the existing rule if linked.
Rule Code	Displays the rule code for the created qualitative scoring model.
	Click this icon to get the information about the rule.
Rule Name	Displays the rule name of the rule code for the created qualitative scoring model.
Code	Displays the rule code.
Description	Displays the rule description.
+ icon	Click this icon to add new expression.
Fact / Rules	Displays the fact or rule of the created qualitative scoring model.
Operator	Displays the comparison operator of the created qualitative scoring model.
Data Type	Displays the data type for the fact or rule for the created qualitative scoring model.
Output	Displays the output for the created qualitative scoring model.
Expression	Displays the expression updated in the expression builder for the created qualitative scoring model.
Rule Code	User can modify the rule code for the created qualitative scoring model.
Rule Name	Displays the name for the created qualitative scoring model.
Questionnaire	This tab is applicable for **Applicant Scoring Model**.
Questionnaire Code	User can modify the questionnaire code for the created qualitative scoring model.

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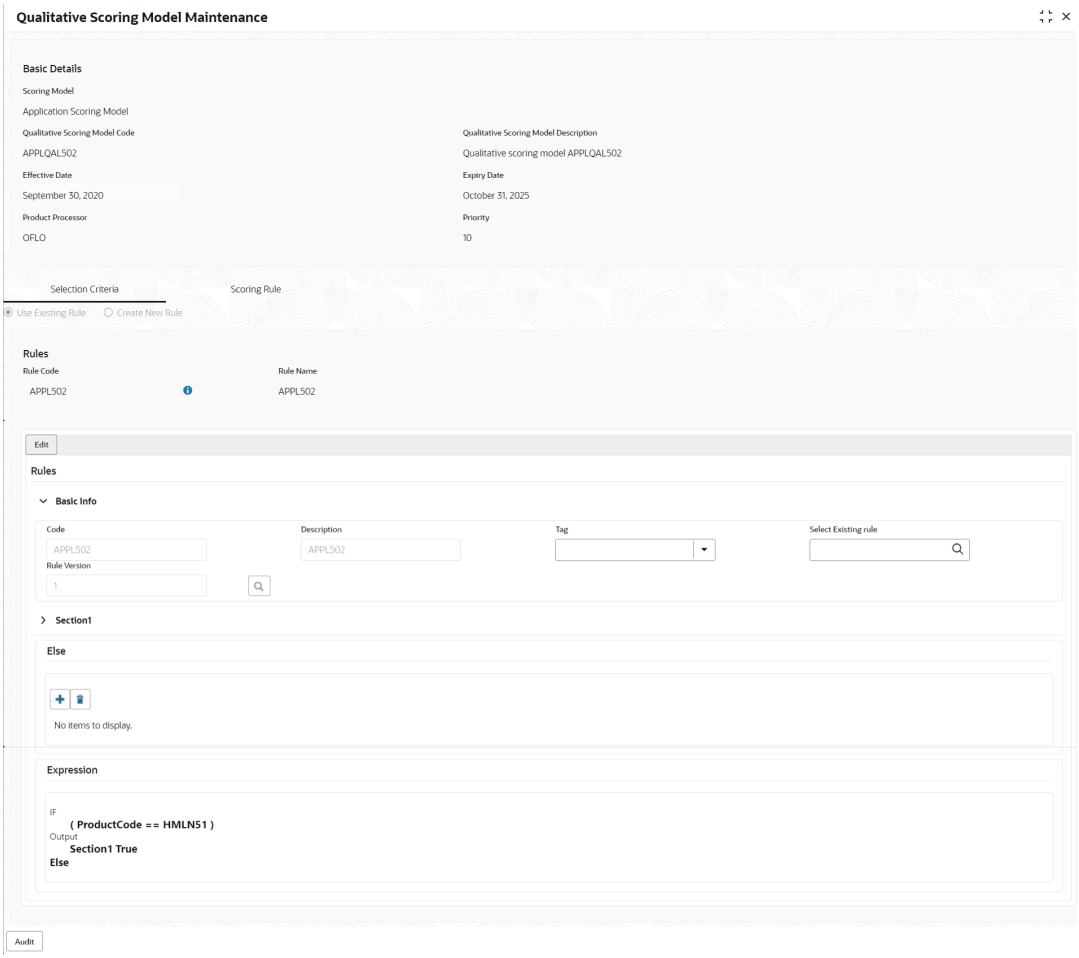
Table 3-79 (Cont.) Qualitative Scoring Model Maintenance - Modify - Field Description

Field	Description
Questionnaire Name	Displays the questionnaire name for the created qualitative scoring model.
Question ID	Displays the question ID for the created qualitative scoring model.
Question	Displays the question for the created qualitative scoring model.
Define Range/Value	User can modify the defined range or value.
Value	Displays the defined value for the created qualitative scoring model.
Score	User can modify the score for the created qualitative scoring model.
Category	User can modify the category for the created qualitative scoring model.
Enable	Displays if the question ID is enabled or not.

6. Click **Save** to update the modified fields.
7. Click **View** to view the created qualitative scoring model.

   The **Qualitative Scoring Model Maintenance – View** screen displays.

Figure 3-77 Qualitative Scoring Model Maintenance – View



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For more information on fields, refer to the field description table.

Table 3-80 Qualitative Scoring Model Maintenance - View - Field Description

Field	Description
Scoring Model	Displays the scoring model for the created qualitative scoring model.
Qualitative Scoring Model Code	Displays the qualitative scoring model code for the created qualitative scoring model.
Qualitative Scoring Model Description	Displays the qualitative scoring model description for the created qualitative scoring model.
Effective Date	Displays the effective date of the created qualitative scoring model. User can modify the same before authorization.
Expiry Date	Displays the expiry date of the created qualitative scoring model. User can modify the same before authorization.
Product Processor	Displays the product processor for the created qualitative scoring model.
Priority	The user can modify the priority of the created qualitative scoring model.
Use Existing Rule	Displays the existing rule if linked.
Rule Code	Displays the rule code for the created qualitative scoring model.
	Click this icon to get the information about the rule.
Rule Name	Displays the rule name of the rule code for the created qualitative scoring model.
Code	Displays the rule code.
Description	Displays the rule description.
+ icon	Click this icon to add new expression.
Fact / Rules	Displays the fact or rule of the created qualitative scoring model.
Operator	Displays the comparison operator of the created qualitative scoring model.
Data Type	Displays the data type for the fact or rule for the created qualitative scoring model.
Output	Displays the output for the created qualitative scoring model.
Expression	Displays the expression updated in the expression builder for the created qualitative scoring model.
Rule Code	Displays the rule code for the created qualitative scoring model.
Rule Name	Displays the name for the created qualitative scoring model.
Questionnaire	This tab is applicable for **Applicant Scoring Model**.
Questionnaire Code	Displays the questionnaire code for the created qualitative scoring model.
Questionnaire Name	Displays the questionnaire name for the created qualitative scoring model.
Question ID	Displays the question ID for the created qualitative scoring model.
Question	Displays the question for the created qualitative scoring model.
Define Range/Value	Displays the defined range or value.
Value	Displays the defined value for the created qualitative scoring model.
Score	Displays the score for the created qualitative scoring model.

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Table 3-80 (Cont.) Qualitative Scoring Model Maintenance - View - Field Description

Field	Description
Category	Displays the category for the created qualitative scoring model.
Enable	Displays if the question ID is enabled or not.

3.15 Questionnaire

This topic describes the information about the questionnaire used for credit analysis.

Credit analysis includes analysis of more information and data. Considering that, some of them have quantitative character and others qualitative, credit analysis are viewed from two aspects such as:

Quantitative analysis involves, an assessment of the financial position based on the customer's income and monthly expenses. It may also include a cash flow analysis of the customer's accounts and credit history.

While qualitative assessment, among others takes into account marital status, education or employment form.

Banks usually grant loan based on a credit scoring model that combines quantitative and qualitative analysis.

This topic contains the following subtopics:

- Create Questionnaire
  This topic describes the systematic instructions to configure the qualitative questionnaire based on the various parameters.
- View Questionnaire
  This topic describes the systematic instructions to view the list of configured questionnaire.

3.15.1 Create Questionnaire

This topic describes the systematic instructions to configure the qualitative questionnaire based on the various parameters.

This questionnaire can be further linked to define qualitative scoring model.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Credit Decision**.
2. Under **Credit Decision**, click **Maintenance**. Under **Maintenance**, click **Questionnaire**, then click **Create Questionnaire**.

   The **Create Questionnaire** screen is displayed.

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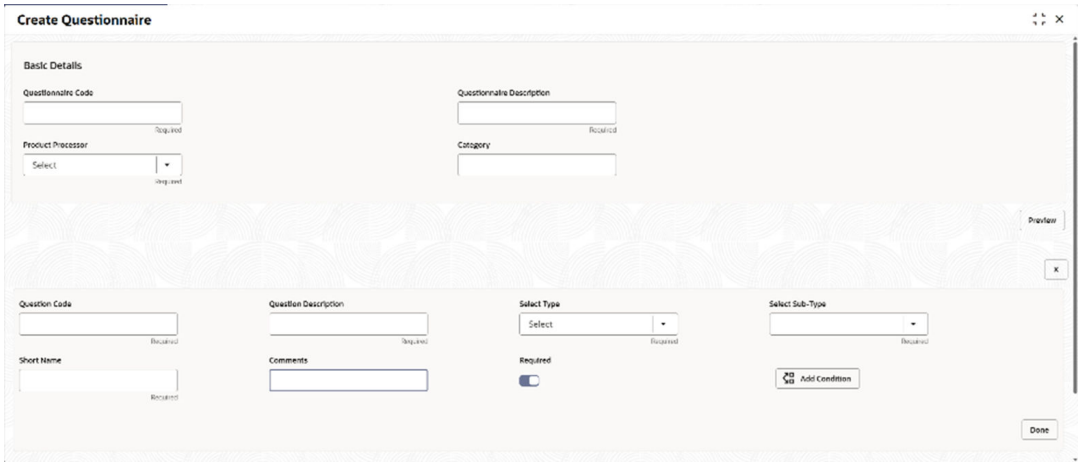
Figure 3-78 Create Questionnaire



3. Specify the fields on the **Create Questionnaire** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 3-81 Create Questionnaire - Field Description

Field	Description
Questionnaire Code	Specify the questionnaire code.
Questionnaire Description	Specify a short description for the questionnaire.
Product Processor	Specify the product processor for which the questionnaire is being created.
Category	Specify the category of the questionnaire.
Create	Click **Create** to configure the questions.
Question Code	Specify the unique question code.
Question Description	Specify the description for the question.
Select-Type	Select the type of response option from the drop-down list. The available options are: • **Single Select** • **Multi Select** • **Input** • **Date**
Select Sub-Type	Select the sub-type from the drop-down list. The available options are: • **Yes/No** • **Check box** • **Rapid Button** • **Drop down**

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Table 3-81 (Cont.) Create Questionnaire - Field Description

Field	Description
Short Name	Specify the short name of the question. This will be displayed in the Execution Summary.
Comments	Questionnaire is used to get the response from the Gen AI and shown on the screen. This optional field is used to capture a separate question description to be sent as a prompt to the Gen AI. This ensures a more effective response when the on-screen question differs from the required AI prompt.
Answer Code	Displays the answer code.
Answer Option	Specify all the expected response for the question configured.
Add	Click **Add** to add the expected response to the question.
Update	Click **Update** to edit the response.
Remove	Click remove to remove the response.
Required	By default, this option is enabled. Indicates whether the question is mandatory or optional.
Done	Click **Done** to save the data.
Preview	Click **Preview** to view the questions configured for the questionnaire along with the response choice.
	Click this icon to view the responses configured for the questionnaire.
	Click this icon to move the position of the questions.
	Click this icon to expand, copy or remove question.
Copy	Click this icon to copy the question.
Remove Question	Click this icon to remove the question.
Add Question	By Clicking **Add Question**, the user can add another question.

4. Perform one of the following action:
   - Click **Save** to save the details.
     The **Questionnaire** is successfully created and can be viewed using View Questionnaire screen.
   - Click **Cancel** to discard the changes and close the screen.

3.15.2 View Questionnaire

This topic describes the systematic instructions to view the list of configured questionnaire.

The user can create the questionnaire using the Create Questionnaire screen. The status of the created questionnaire is displayed as **Unauthorized** and **Open**. Once the checker authorizes the questionnaire, the status is updated to **Authorized** and **Open**.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Credit Decision**.
2. Under **Credit Decision**, click **Maintenance**. Under **Maintenance**, click **Questionnaire**, then click **View Questionnaire**.

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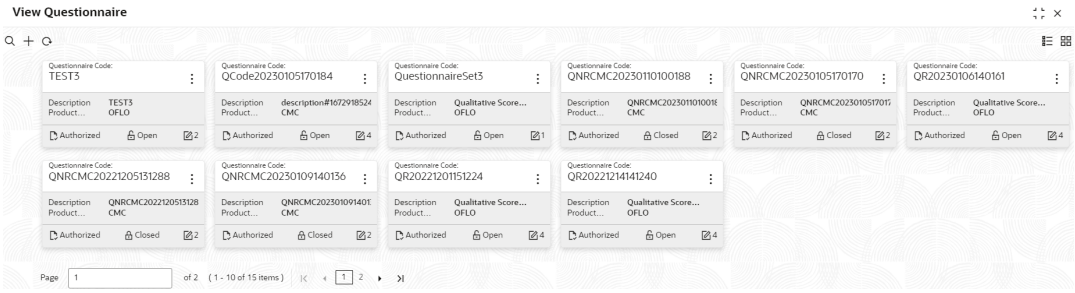
The **View Questionnaire** screen is displayed.

Figure 3-79 View Questionnaire



For more information on fields, refer to the field description table.

Table 3-82 View Questionnaire – Field Description

Field	Description
Questionnaire Code	Displays the questionnaire code.
Questionnaire Description	Displays the description of the questionnaire.
Product Processor Code	Displays the product processor code for which the questionnaire is created.
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

3. On the **View Questionnaire** screen, click icon.

   The **View Questionnaire - Search** screen is displayed.

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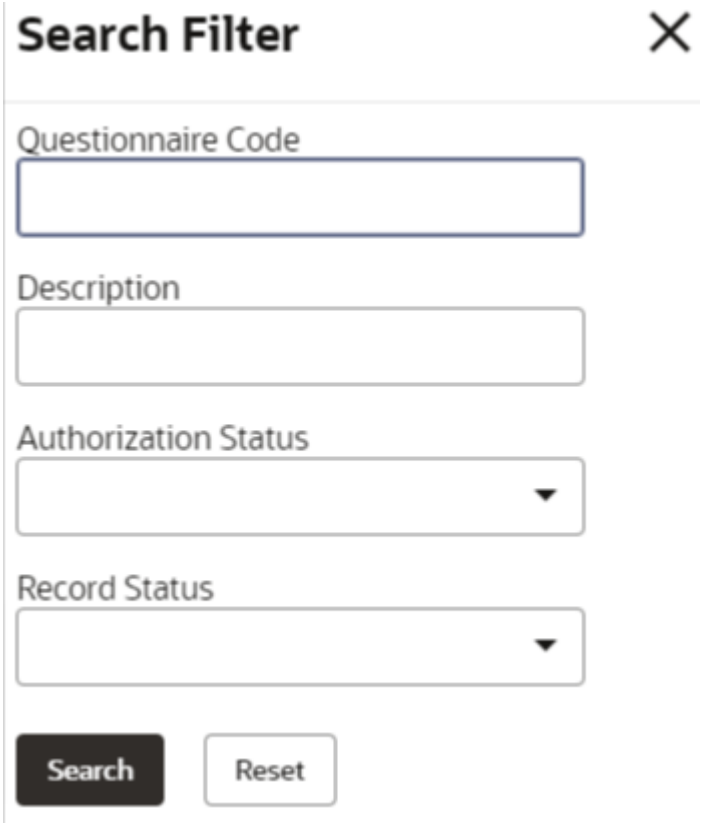
Figure 3-80 View Questionnaire - Search



For more information on fields, refer to the field description table.

Table 3-83 View Questionnaire - Search – Field Description

Field	Description
Questionnaire Code	Specify the questionnaire code.
Questionnaire Description	Specify the questionnaire description.
Authorization Status	Select the authorization status from the drop-down list. The available options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Select the record status from the drop-down list. The available options are: • **Open** • **Closed**

4. On the **View Questionnaire** screen, click ⋮ icon to **Unlock**, **Delete**, **Authorize** or **View** the created questionnaire.
5. Click **Unlock** to modify the created questionnaire.

   The **Questionnaire Maintenance - Modify** screen displays.

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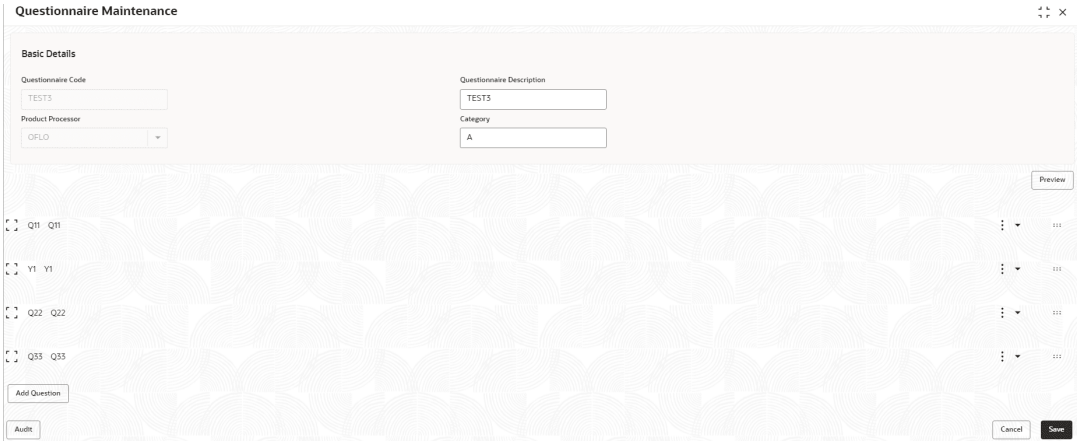
Figure 3-81 Questionnaire Maintenance - Modify



> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 3-84 Questionnaire Maintenance - Modify - Field Description

Field	Description
Questionnaire Code	Displays the questionnaire code.
Questionnaire Description	The user can modify the questionnaire description.
Product Processor	Displays the product processor for the created questionnaire.
Category	The user can modify the category of the created questionnaire.
Preview	Click **Preview** to display the questions configured for the questionnaire along with the response choice.
	Click this icon to expand copy or remove question.
	Click this icon to move the position of the questions.
	Click this icon to see the question details.
Question Code	Displays the question code for the created questionnaire.
Question Description	The user can modify the question code for the created questionnaire.
Select-Type	Displays the type of questionnaire.
Short Name	User can modify the short name of the created questionnaire.
Answer Code	Displays the answer code.

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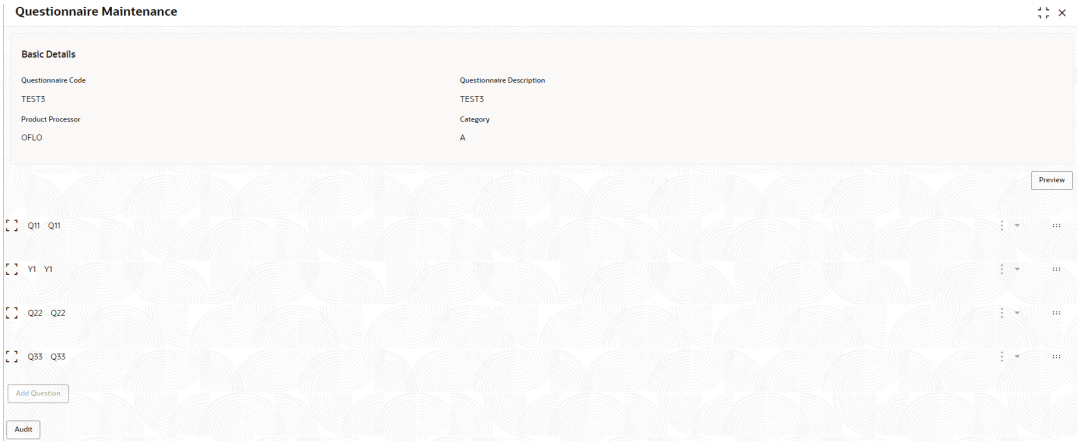
Table 3-84 (Cont.) Questionnaire Maintenance - Modify - Field Description

Field	Description
Answer Option	User can modify all the expected response for the question configured.
Required	User can modify if the question is mandatory or optional.

6. Click **Save** to update the modified fields.
7. Click **View** to view the created logical model.

   The **Questionnaire Maintenance – View** screen displays.

Figure 3-82 Questionnaire Maintenance – View



For more information on fields, refer to the field description table.

Table 3-85 Questionnaire Maintenance - View - Field Description

Field	Description
Questionnaire Code	Displays the questionnaire code.
Questionnaire Description	Displays the questionnaire description.
Product Processor	Displays the product processor for the created questionnaire.
Category	Displays the category of the created questionnaire.
Preview	Click **Preview** to display the questions configured for the questionnaire along with the response choice.
Question Code	Displays the question code for the created questionnaire.
Question Description	Displays the question code for the created questionnaire.
Select Type	Displays the type of questionnaire.
Short Name	Displays the short name of the created questionnaire.
Answer Code	Displays the answer code.
Answer Option	Displays all the expected response for the question configured.
Required	Displays if the question is mandatory or optional.

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3.16 Counter

This topic describes the information about the counter feature.

In many scenarios, charges are levied based on the number of transactions like ATM Transaction, Branch Cash Withdrawal etc. System should be able to give charge benefit based on the count of transaction.

To support the charge based on count, PDS will be enhanced where the Count of transaction will be maintained for an event which later can be used to give relationship pricing.

This topic contains the following subtopics:

- Create Counter
  This topic describes the systematic instructions to create counter by updating various details.
- View Counter
  This topic describes the systematic instructions to view the counter.

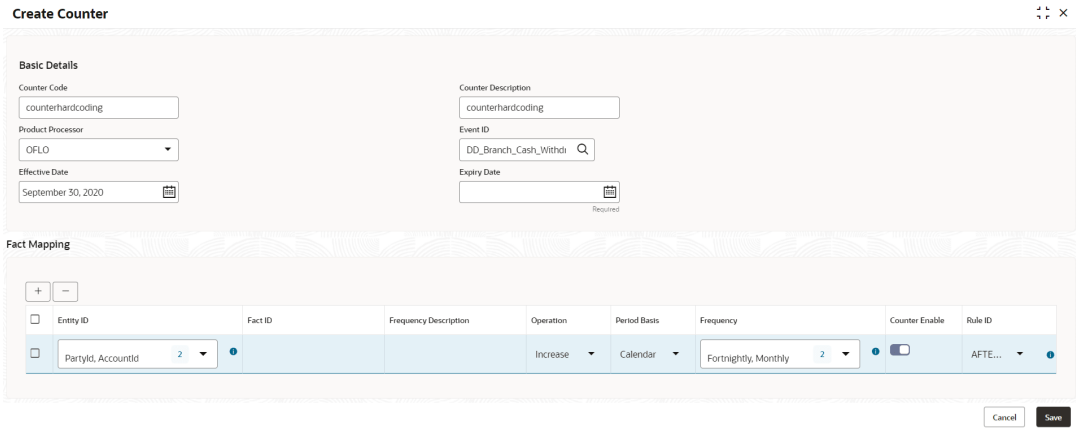
3.16.1 Create Counter

This topic describes the systematic instructions to create counter by updating various details.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Credit Decision**.
2. Under **Credit Decision**, click **Maintenance**, under **Maintenance**, click **Counter**,then click **Create Counter**.

   The **Create Counter** screen is displayed.

Figure 3-83 Create Counter



3. On **Create Counter** screen, Specify the fields.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

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Table 3-86 Create Counter - Field Description

Field	Description
Counter Code	Specify the unique counter code.
Counter Description	Specify the description for the counter.
Product Processor	Select the product processor from the drop-down list for which code is being created
Event ID	Click on icon and select the id from the list.
Effective Date	Specify the effective date.
Expiry Date	Specify the expiry date.
Entity ID	Select the options from the drop-down list. The available options are: • **PartyID** • **AccountID** • **CollateralID**
	Click this icon to get the information about the rule.
Fact ID	Specify the fact ID for the selected entity.
Frequency Description	Specify the description of the fact ID selected.
Operation	Select the value from the drop-down list. The available options are: • **Increase** • **Decrease**
Period Basis	Select from the drop-down list The available options are: • **Calendar** • **Anniversary** .
Frequency	Select the value from the drop-down list. The available options are: • **Daily** • **Weekly** • **Monthly** • **Quarterly** • **Half Yearly** • **Yearly**
	Click this icon to get the information about the rule.
Counter Enable	Click the toggle status to enable the counter.
Rule ID	Select the rule Id from the drop-down list.
	Click this icon to get the information about the rule.

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4. Perform one of the following action:
   - Click **Save** to save the details.
     The **Create Counter** is successfully created and can be viewed using the View Counter screen.
   - Click **Cancel** to discard the changes and close the screen.

3.16.2 View Counter

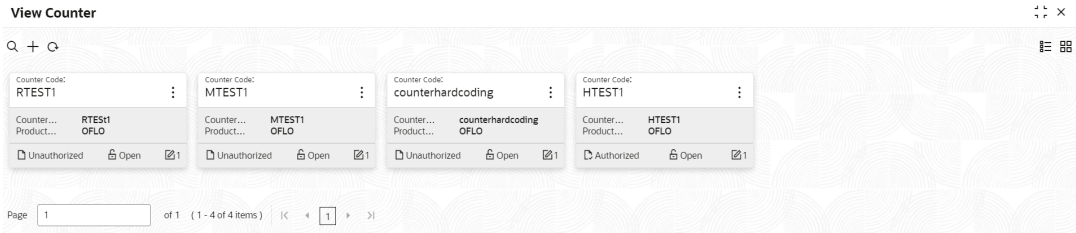
This topic describes the systematic instructions to view the counter.

The user can configure the lookup using the Create Counter screen. The status of the created lookup is displayed as **Unauthorized** and **Open**. Once the checker authorizes the lookup, the status is updated to **Authorized** and **Open**.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Credit Decision**.
2. Under **Credit Decision**, click **Maintenance**, under **Maintenance**, click **Counter**,then click **View Counter**.

   The **View Counter** screen is displayed.

Figure 3-84 View Counter



For more information on fields, refer to the field description table.

Table 3-87 View Counter

Field	Description
Counter Code	Displays the counter code.
Counter Description	Displays the description of the counter code.
Product Processor	Displays the product processor of the counter.
Status	Displays the status of the record.
Modification Number	Displays the number of modifications performed on the record.

3. On the **View Lookup** screen, click icon.

   The **View Counter - Search** screen is displayed.

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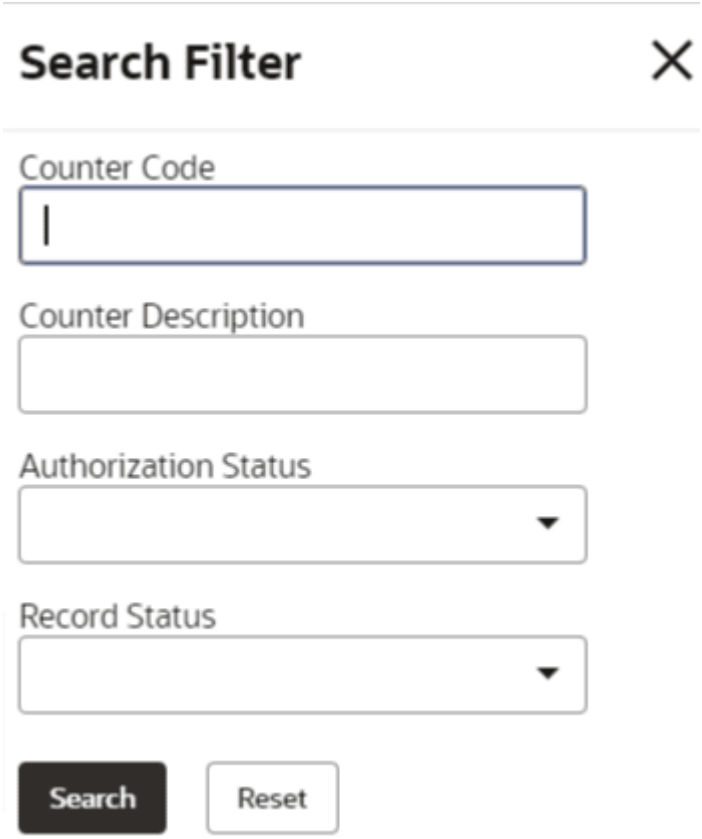
Figure 3-85 View Counter - Search



4. On the **View Counter - Search** screen, specify the **Search Filter** to fetch the required lookup.

   For more information on fields, refer to the field description table.

Table 3-88 View Counter – Search – Field Description

Field	Description
Counter Code	Specify the counter code.
Counter Description	Specify the counter description.
Authorization Status	Select the authorization status from the drop-down list. The available options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Select the record status from the drop-down list. The available options are: • **Open** • **Closed**

5. Click **Search** to display the required lookup.

6. On **View Counter** screen, click ⋮ icon to **Unlock**, **Delete**, **Authorize**, or **View** the created counter.

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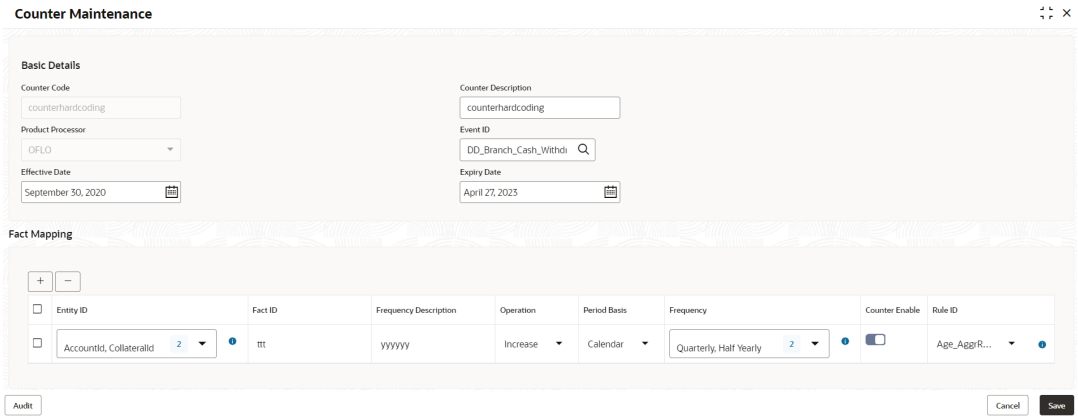
7. Click **Unlock** to modify the following fields.

   The **Counter Maintenance - Modify** screen is displayed.

Figure 3-86 Lookup Maintenance - Modify



For more information on fields, refer to the field description table.

Table 3-89 Counter Maintenance - Modify - Field Description

Field	Description
Counter Code	Displays the created counter code.
Counter Description	Displays the Counter Description. User can modify the same.
Product Processor	Displays the product processor of the created Counter code.
Effective Date	Displays the effective date of the created counter. User can modify the same before authorization if it is future dated.
Expiry Date	Displays the expiry date of the created counter. User can modify the same.
Entity ID	Displays the Entity IDs selected for created counter. User can modify the same.
3	User can modify the same
	Click to get the information about the rule.
Fact ID	Displays the Fact IDs selected for created counter. User can modify the same.

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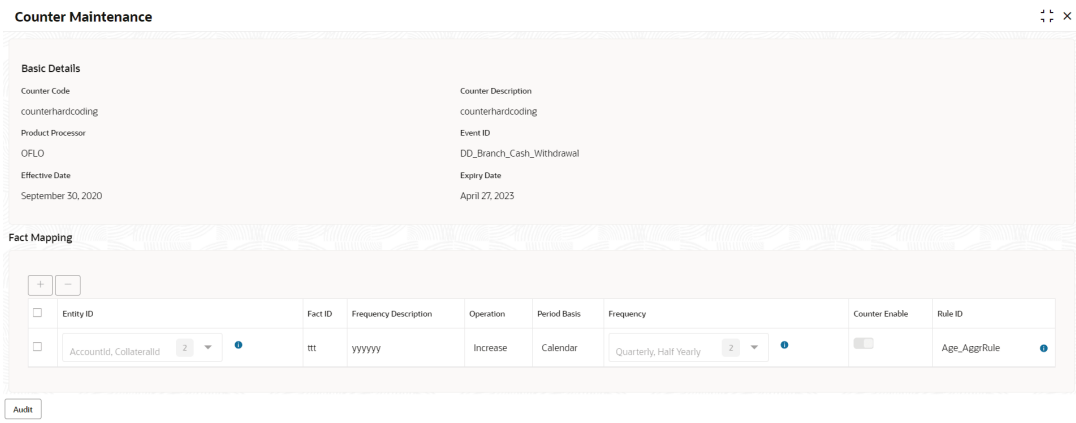
Table 3-89 (Cont.) Counter Maintenance - Modify - Field Description

Field	Description
Frequency Description	Displays the frequency description for the created counter. User can modify the same.
Operation	Displays the frequency for the created counter. User can modify the same.
Period Basis	Displays the period basis selected.
Frequency	Displays the frequency for the created counter. User can modify the same.
3	Displays the number of frequencies selected.
	Click to get the information about the rule.
Rule ID	Displays the Rule ID for selected for the created Counter.
	Click to get the information about the rule.

8. Click **Save** to save the details.
9. Click **View** to view the created counter.

   The **Counter Maintenance - View** screen is displayed.

Figure 3-87 Counter Maintenance - View



For more information on fields, refer to the field description table.

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Table 3-90 Counter Maintenance - View - Field Description

Field	Description
Counter Code	Displays the created counter code.
Counter Description	Displays the created counter description.
Product Processor	Displays the product processor of the created counter.
Event ID	Displays the ID for the created counter.
Effective Date	Displays the effective date for the created counter.
Expiry Date	Displays the expiry date for the created counter.
Entity ID	Displays the entity IDs for the created counter.
3	Displays the number of the IDs selected.
	Click to get the information about the rule.
Fact ID	Displays the fact IDs for the created counter.
Frequency Description	Displays the frequency description of the created counter.
Operation	Displays the operation for the created counter.
Period Basis	Displays the period basis.
Frequency	Displays the frequencies selected for the created counter.
3	Displays the number for frequencies selected.
	Click to get the information about the rule.
Rule ID	Displays the rule ID for the created counter.
	Click to get the information about the rule.

3.17 Charge Code

This topic describes the information about the charge code feature.

Fee definition can be simple like fixed amount or fixed percentage but can be complex which is based on various attributes like customer segment, count of transaction, amount of transaction etc.

Fees can be computed online as well as in bulk. Account booking fees or loan disbursement fees are an example of an online fee, that are assessed at the time of the incidence of the transaction, and which occur mostly one at a time.

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Monthly Instalment payments are generally processed in bulk. Customers / accounts that miss a payment are charged late fees, also in bulk. The fees compute engine makes use of the following bulk processing capabilities –

Batch processing – Oracle Banking Microservices Architecture (OBMA) platform provides a series of features to do bulk processing. More details are available in the platform user guide. Charges use the “job” capabilities of this service to do bulk computations.

Fast data transfers – OBMA platform provides fast data transfer capabilities to transfer data from one service to another. . More details are available in the platform user guide. These capabilities are used to transport relevant lending facts from the Lending services to the charges computation service to enable fee computations based on facts. The fees computed are also transported back to lending using fast data transfers, so that further lending jobs can do the charging on the account.

Category processing – The data transfers and the charges processing jobs are sequenced within a batch category sequencer engine. More details are available in the form of a dedicated section below in the Decision Service documentation. The batch category features also include an intuitive UI to setup the sequence and a dashboard to monitor the operations of each job giving elaborate progress details and counts of successes and failures.

This topic contains the following subtopics:

- Create Charge Code
  This topic describes the systematic instructions to create charge code by updating various details.
- View Charge Code
  This topic describes the systematic instructions to view the charge code for Decision Service.

3.17.1 Create Charge Code

This topic describes the systematic instructions to create charge code by updating various details.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Credit Decision**.
2. Under **Credit Decision**, click **Maintenance**. Under **Maintenance**, click **Charge Code**, then click **Create Charge Code**.

   The **Create Charge Code** screen is displayed.

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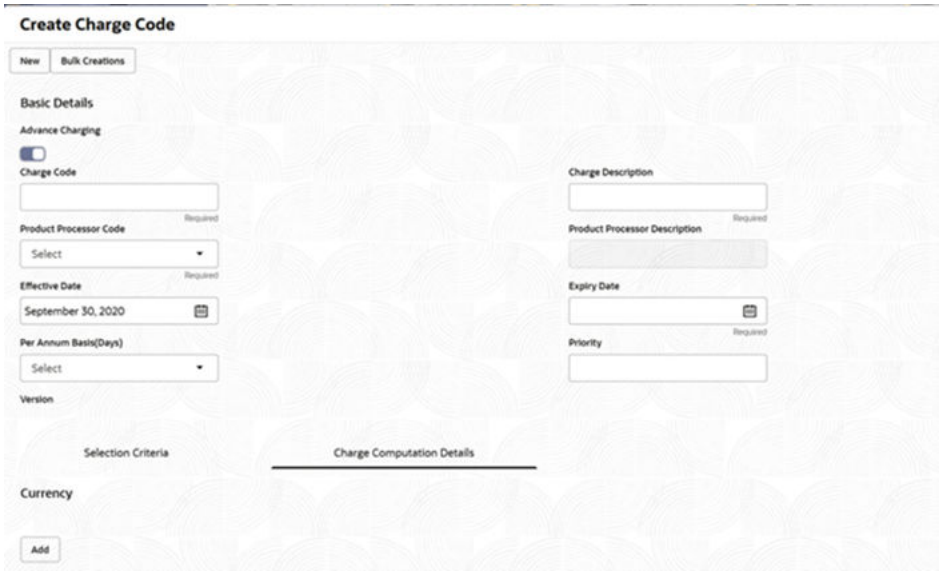
Figure 3-88 Create Charge Code



3. Specify the fields on the **Create Charge Code** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 3-91 Create Charge Code - Field Description

Field	Description
Advance Charging	Click the toggle status to enable the parameter. Indicates the definition is for advance or simple. By default, the status will be off.
Charge Code	Specify the unique code for the charge.
Charge Description	Specify a short description for the charge code.
Product processor Code	Select the product processor from the drop-down list for which the charge is being created.
Product Processor Description	Displays the description of the product processor code defined.
Effective Date	Specify the effective date.
Expiry Date	Specify the expiry date.
Charging Currency	Select the currency from the drop-down list.
Charge In Txn Currency	Click the toggle status to enable this parameter. Indicates the charge is to be charged of fee currency or transaction currency. By default, the status will be off.
Rate Code	Click on search and select from the list.

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Table 3-91 (Cont.) Create Charge Code - Field Description

Field	Description
Rate Type	Select the rate type from the drop-down list. The available options are: • **Buy** • **Sell** • **Mid**
Per Annum Basis (Days)	Select the days from the drop-down list. The available options are: • **360** • **365** • **366**
Priority	Specify the priority of the charge code. This field is visible only if the **Advance Charging** toggle is enabled.

4. On the **Create Charge Code** screen, click **Selection Criteria** tab to define selection criteria rules.

   The **Create Charge Code - Selection Criteria** screen is displayed.

> **Note**
>
> This tab is visible only if the **Advance Pricing** toggle is enabled.

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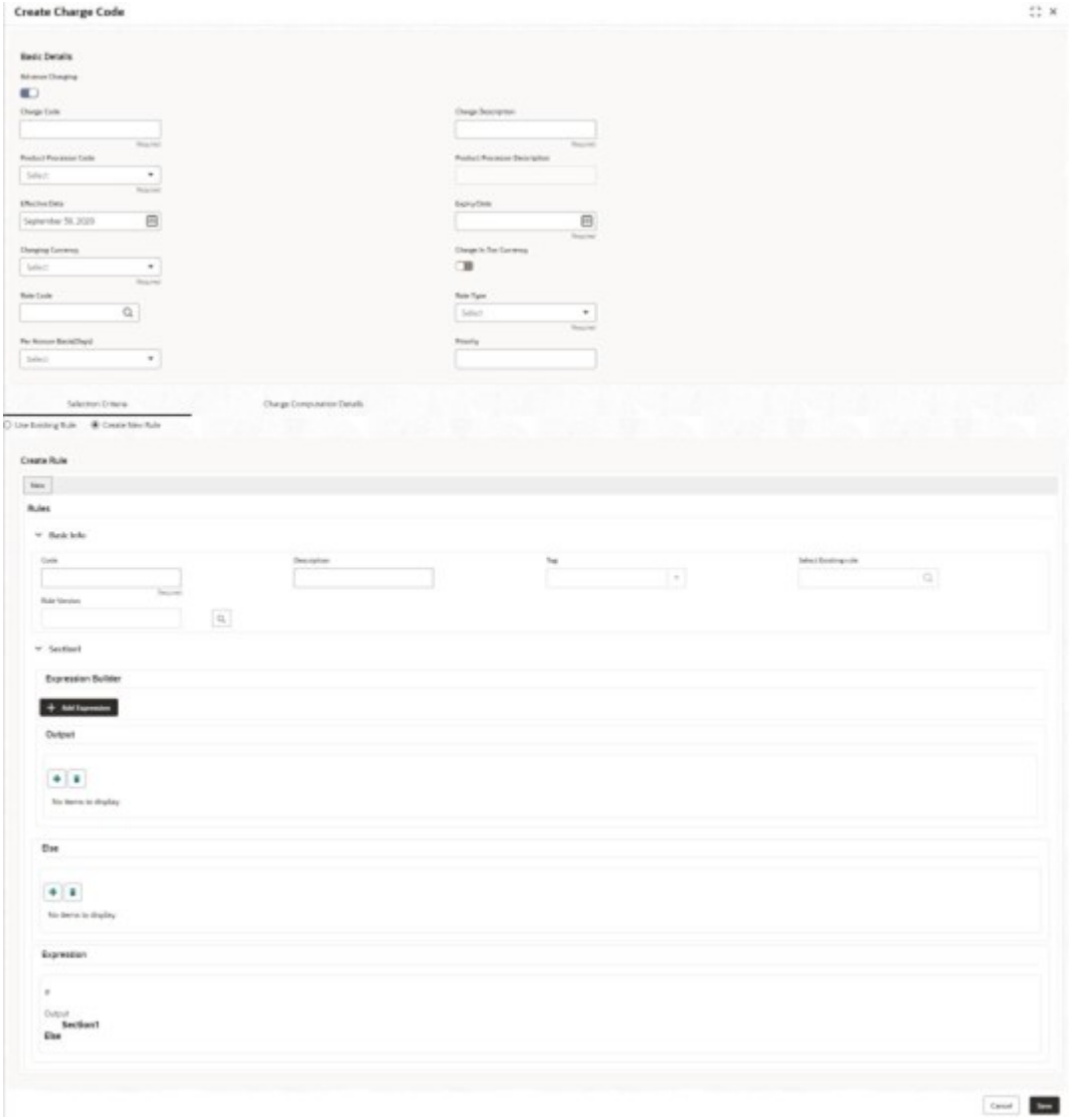
Figure 3-89 Create Charge Code - Selection Criteria



For more information on fields, refer to the field description table.

Table 3-92 Create Charge Code - Selection Criteria - Field Description

Field	Description
Use Existing Rule	By default, this option is enabled. Indicates if the existing rule is linked.
Rule Code	Select the rule code from the drop-down list.
	Click this icon to get the information about the rule.
Rule Name	Displays the rule name of the rule code.
Create New Rule	Select this option to create new rule.

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Table 3-92 (Cont.) Create Charge Code - Selection Criteria - Field Description

Field	Description
Code	Specify the rule code.
Description	Specify the rule description.
+ icon	Click this icon to add new expression.
Fact / Rules	Select the fact or rule from the drop-down list. Once the user selects the fact/rules, one more field opens adjacent to the output, update the same based on the selected output option.
Operator	Select the comparison operator from the drop-down list. The available options are: • **<** • **>** • **+** • **=** • **%** • **!=** • **-** • **>=** • **<=** • ***** • **/** • **Contains** • **In** • **Matches** • **NotMatches** • **NotContains** • **Notin**
Data Type	Select the data type for the fact or rule. Once the user select the data type, one more field opens adjacent to the output, update the same based on the selected output option. The available options are: • **Text** • **Number** • **Boolean** • **Date** • **Fact** • **Rules** The below option appears if the **Data Type** is selected as **Boolean**. • **True** • **False**

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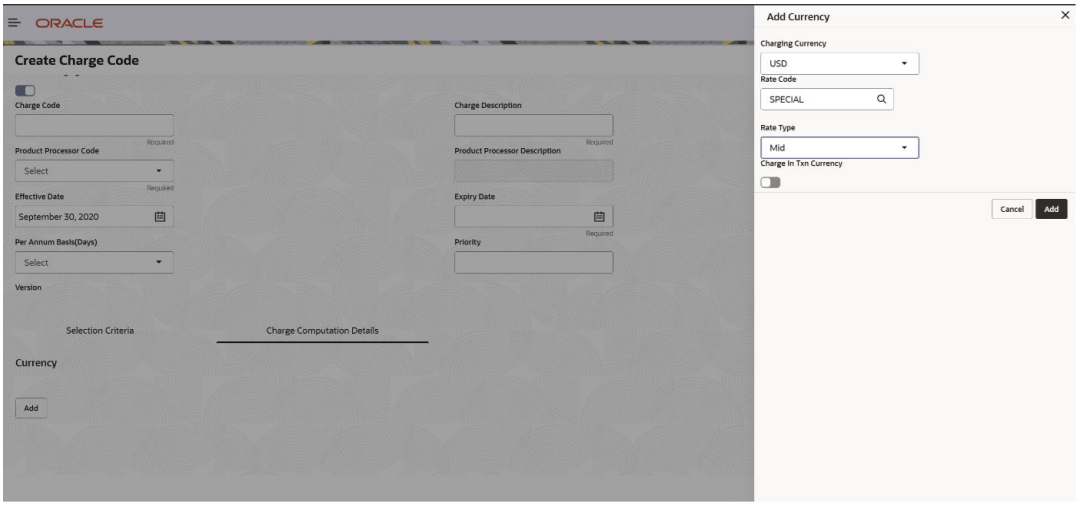
Table 3-92 (Cont.) Create Charge Code - Selection Criteria - Field Description

Field	Description
Output	Select the output from the drop-down list. Once the user select the data type, one more field opens adjacent to the output, update the same based on the selected output option. The available options are: • **Text** • **Number** • **Boolean** • **Date** • **Fact** • **Rules** The below option appears if the **Data Type** is selected as **Boolean**. • **True** • **False**
Expression	Displays the expression updated in the expression builder.

5. On the **Create Charge Code** screen, click **Charge Computation Details** to define computation details.
6. Click **Add** under currency,

   The **Add Currency** panel drawer will open to capture currency details.

Figure 3-90 Add Currency



7. After selecting currency details, when user clicks on **Add**, the Create Charge Code - Charge Computation Details screen is displayed.

   More than one currencies can be added now and each of them can have a different charge calculation logic.
   The **Create Charge Code - Charge Computation Details** screen is displayed.

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Figure 3-91 Create Charge Code - Charge Computation Details

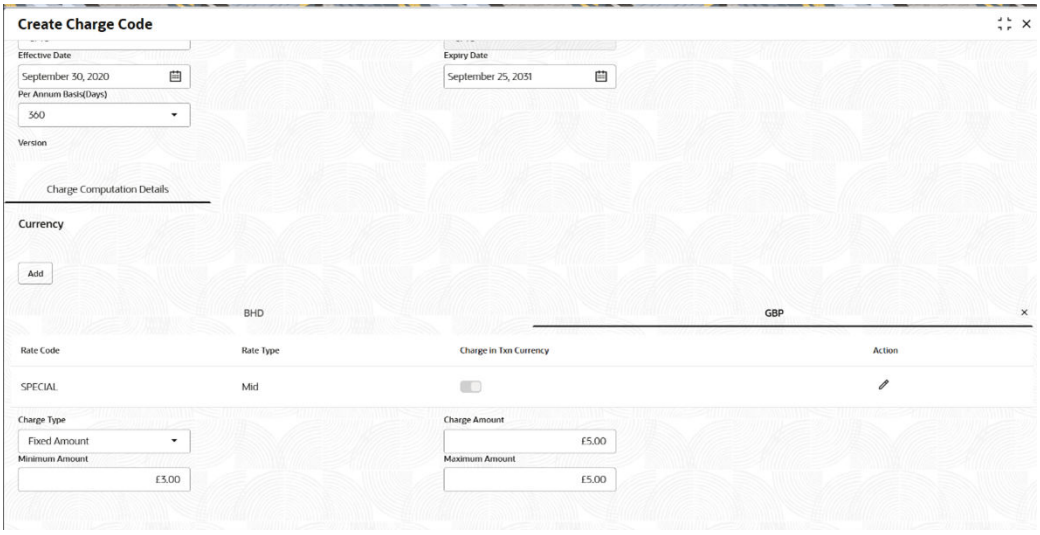
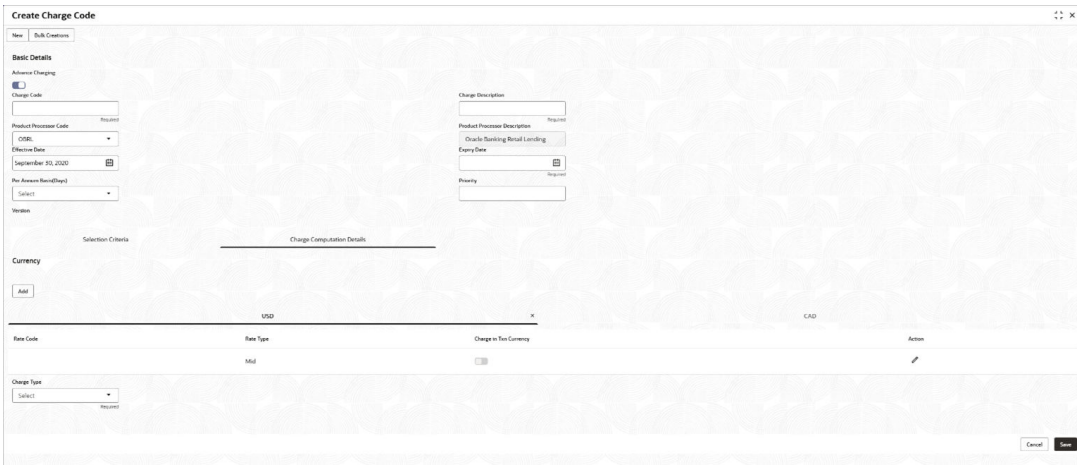


Figure 3-92 Create Charge Code - Charge Computation Details



For more information on fields, refer to the field description table.

Table 3-93 Create Charge Code - Charge Computation Details - Field Description

Field	Description
Charge Type	Select the type from the drop-down list. The available options are: • **Fixed Amount** • **Fixed Percentage** • **Tiered** • **Fixed Amount and Tiered** • **Fixed Percentage and Tiered**
Charge Amount	Specify the amount for the charge type. This field is displayed if the **Charge Type** is selected as **Fixed Amount**.

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Table 3-93 (Cont.) Create Charge Code - Charge Computation Details - Field Description

Field	Description
Percentage (%)	Specify the percentage for the charge type. This field is displayed if the **Charge Type** is selected as **Fixed Percentage**.
Minimum Amount	Specify the minimum amount to be charged. This field is displayed if the **Charge Type** is selected as **Fixed Percentage** or **Tiered** and **Tier Charge Type** as **Percentage/Amount or Percentage**.
Maximum Amount	Specify the maximum amount to be charged. This field is displayed if the **Charge Type** is selected as **Fixed Percentage or Tiered** and **Tier Charge Type** as **Percentage/Amount or Percentage**.
Tiered Charge Type	Select the tiered charge type from the drop-down list. The available options are: • **Amount** • **Percentage** • **Amount or Percentage** This field is displayed if the **Charge Type** is selected as **Tiered**. The below option appears if the **Advance Charging** is enabled. • **Rule** • **Amount or Rule** • **Percentage or Rule**
Tier Type	Select from tier type the drop-down list. The available options are: • **Cumulative** • **Slab** This field is displayed if the **Charge Type** is selected as **Tiered**.
Charge Per Count	Click on toggle status to enable the parameter. This field is displayed if the **Charge Type** is selected as **Tiered** and **Tier Charge Type** as **Amount**, **Amount or Rule**, and **Rule**.
Tier Criteria	Select the tier criteria from the drop-down list. The available options are: • **Amount** • **Period** • **Amount or Period** This field is disabled if the **Tier Type** is selected as **Slab**.
+ icon	Click to add a new row.
- icon	Click to delete the row.
Amount / Period / Amount or Period - From	Specify the start value of the count range. This field is displayed if the **Charge Type** is selected as **Tiered**.
Amount / Period / Amount or Period - To	Specify the final value of the count range This field is visible only if the **Charge Type** is selected as **Tiered**.

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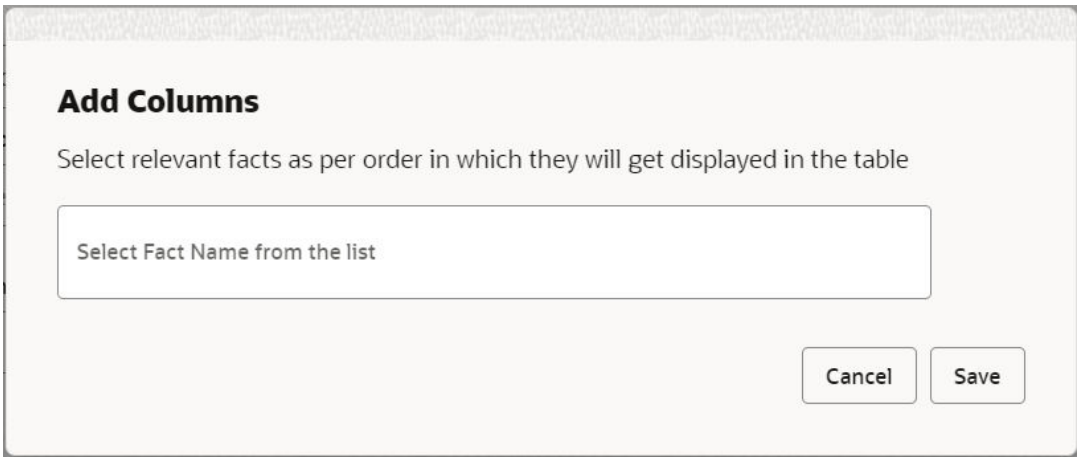
Table 3-93 (Cont.) Create Charge Code - Charge Computation Details - Field Description

Field	Description
Amount	Specify the amount. This field is displayed if the **Charge Type** is selected as **Tiered** and **Tiered Charge Type** as **Amount**.
Percentage	Specify the charge percentage. This field is displayed if the **Charge Type** is selected as **Tiered** and **Tiered Charge Type** as **Percentage**.
Output Option	Select the option from which the output must be displayed. This field is displayed if the **Charge Type** is selected as **Tiered** and **Tiered Charge Type** as **Amount or Percentage**.
Output	Specify the output. This field is displayed if the **Charge Type** is selected as **Tiered** and **Tiered Charge Type** as **Amount or Percentage**.
Basis of	Select from the drop-down list. This field is displayed if **Charge Type** is selected as **Tiered** and **Advance Charging** is enabled.
Rule	Toggle to enable if the rule is applicable. This field is displayed if the **Advance Charging** and **Rule** is enabled and **Charge Type** is selected as **Fixed Amount** or **Fixed Percentage**.
Rule ID	Select the rule from the drop-down list. This field is displayed if the **Advance Charging** and **Rule** is enabled.

8. Select the **Charge Type** as **Tiered** to link the features.
9. Click **+ Add/Edit column** to select and link the facts.

   The **+ Add/Edit column** pop-up screen is displayed.

Figure 3-93 Add Columns



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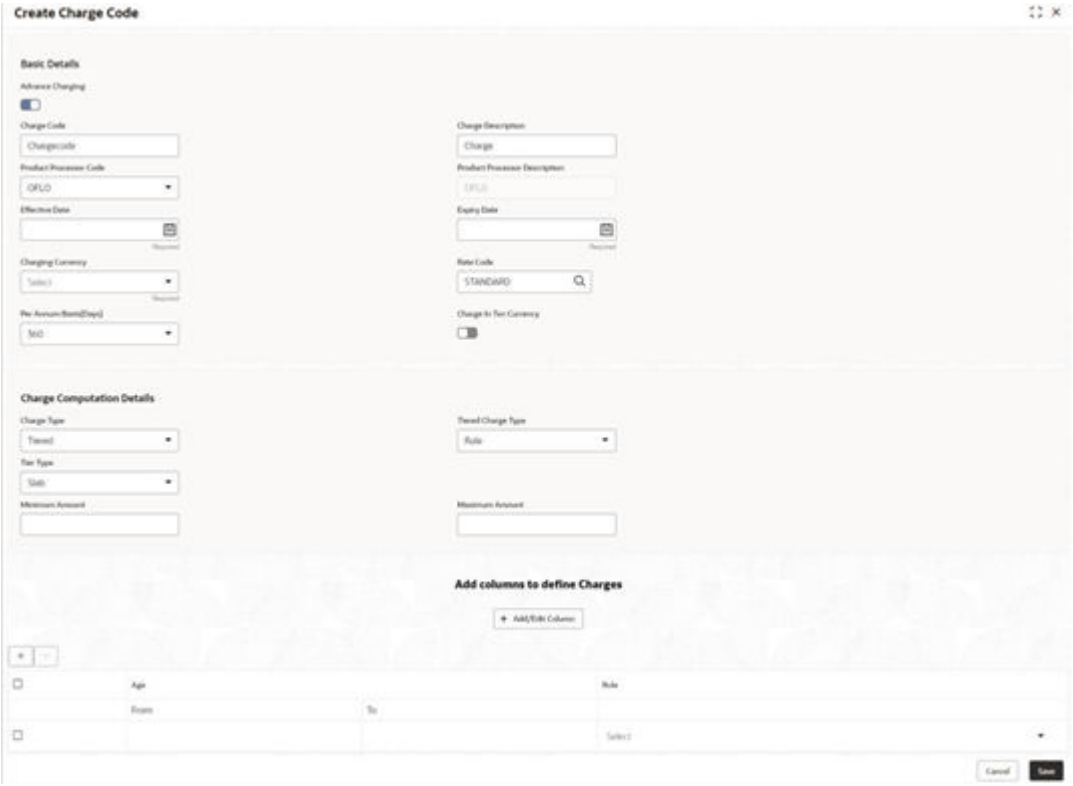
10. Select the facts names from the list. ('n' number of facts can be selected)
11. Click **Save** to link the features for defining the tiered charge type.

    The **Create Charge Code - Charge Computation Details (Tiered)** screen is displayed.

Figure 3-94 Create Charge Code - Charge Computation Details (Tiered)



For more information on fields, refer to the field description table.

Table 3-94 Create Charge Code - Charge Computation Details (Tiered)

Field	Description
+ icon	Click this icon to add a new row.
- icon	Click this icon to delete a row, which is already added.
<Numeric Feature>From	Specify the minimum numeric value of the facts selected.
<Numeric Feature>To	Specify the maximum numeric value of the facts selected.
<Numeric Feature>Value	Specify the value of the facts selected.
Rule	Select the rule from the drop-down list.
	Click this icon to get the information about the rule.

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12. Perform one of the following action:
    - Click **Save** to save the details.
      The **Create Charge Code** is successfully created and can be viewed using View Charge Code screen.
    - Click **Cancel** to discard the changes and close the screen.

Figure 3-95 Create Charge Code - Charge Computation Details (charge code as output)- Cumulative

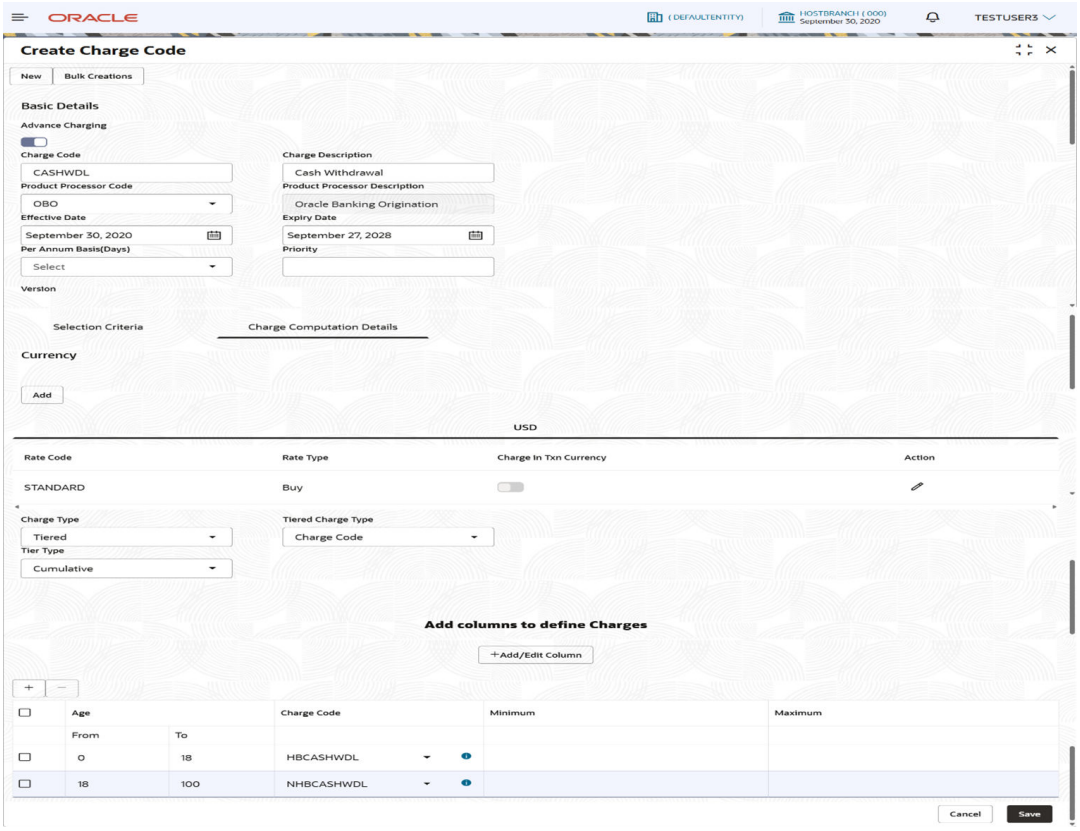

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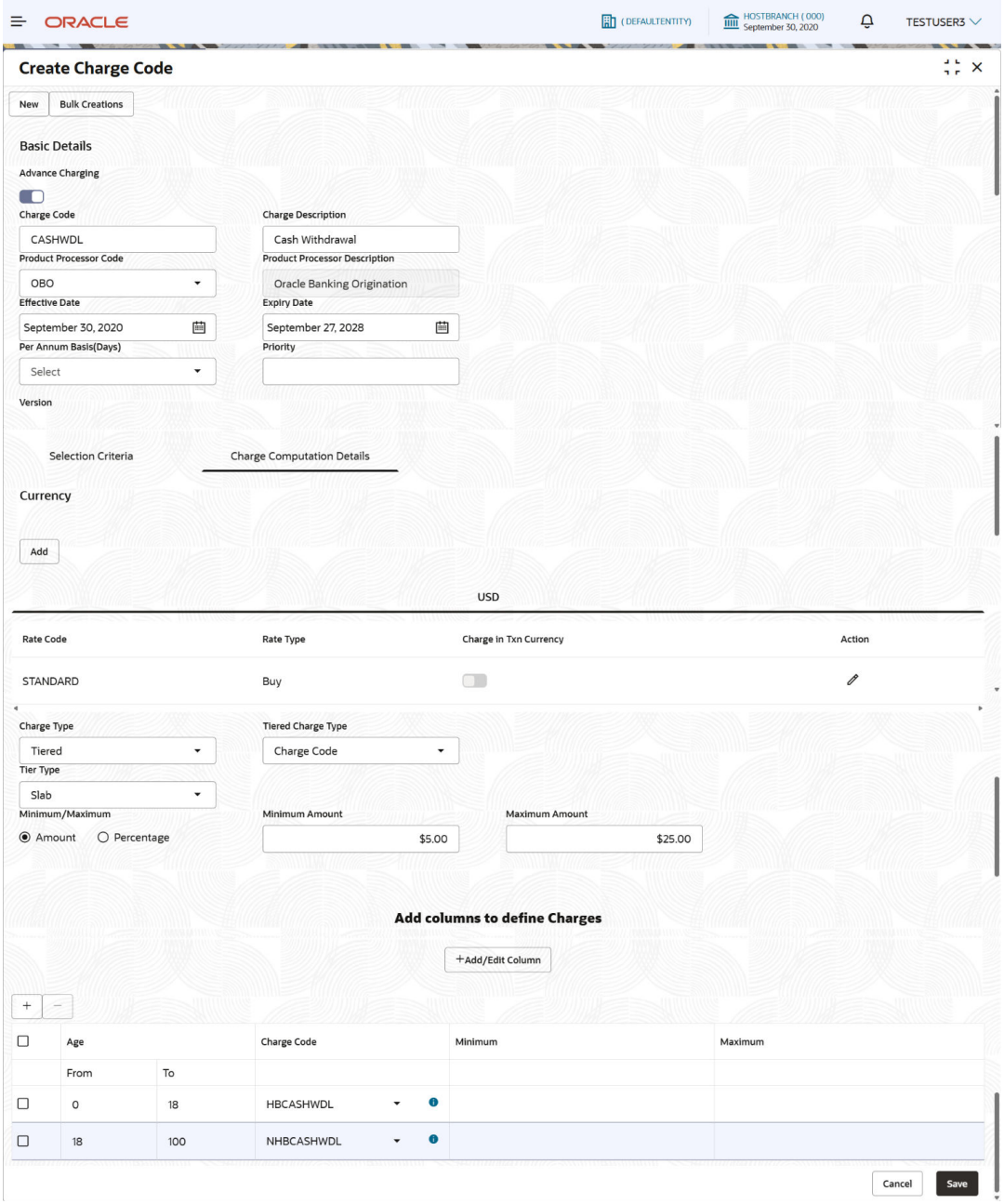
Figure 3-96 Create Charge Code - Charge Computation Details (charge code as output)-Slab



In both the above examples, the output of the child charge code will be used for the computation in cumulative/ slab calculation.

- Relationship pricing benefit with charges
  This topic describes the information about the relationship pricing benefit with charges.

3.17.1.1 Relationship pricing benefit with charges

This topic describes the information about the relationship pricing benefit with charges.

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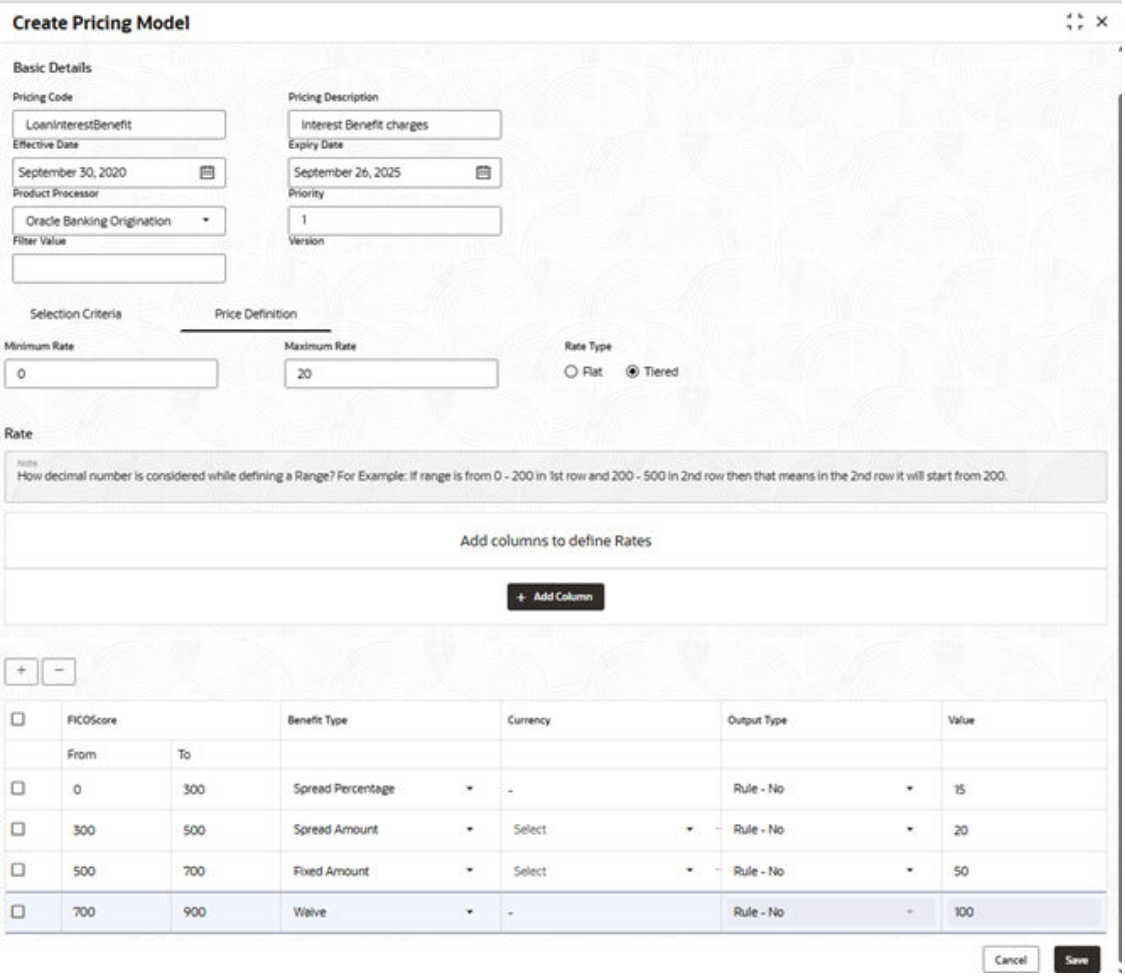
During evaluation user can send the rpApplicable flag as true in the context of getCharges and system will internally call the pricing model for extra benefits to be applied on the computed charges.

Figure 3-97 Create Pricing Model



Bank does not offer generic pricing be it interest/charge/commission to its entire customer base. It varies from customer to customer like a different interest rate for new customer Vis-a Vis an existing customer on saving account or loan account.

Various facilities on the account like waiver/discount on account maintenance fee, number of free ATM transaction, number of free cheque book etc., varies customer to customer based on various financial or non-financial factor such as age of relationship, customer exposure with the bank, customer category, products availed by the customer and many more such parameters. The benefit can be in any form like additional interest on saving account, waiver of fees, discounted interest rate on loan account, lesser margin charges on foreign exchange etc. Financial Institution needs a model, which can consider all these dynamic parameters and suggest best pricing, that it can offer to the customer.

Following benefit types are added: Benefit Type The following options are available:

Waive – full waiver is offered as benefit i.e. 100%. Waive-off benefit is applicable for price components of type charges, fees and commission

Fixed Percentage - fixed rate will be applied over the rate used for computation.

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Spread % - Spread rate will be either added to or subtracted from the rate computed.

Fixed Amount - fixed amount will be applied over the computed price amount.

Spread Amount - spread amount will be added to or subtracted from the base amount computed.

3.17.2 View Charge Code

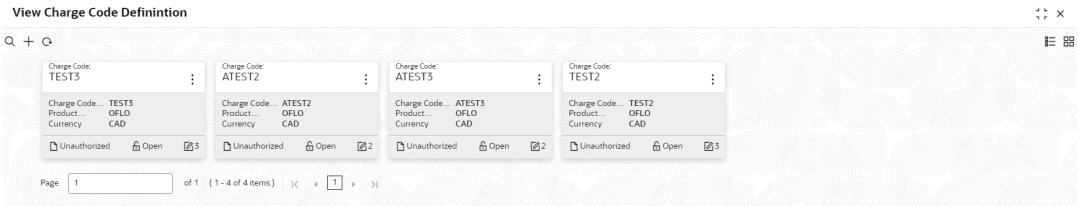
This topic describes the systematic instructions to view the charge code for Decision Service.

The user can configure the lookup using the Create Charge Code screen. The status of the created lookup is displayed as **Unauthorized** and **Open**. Once the checker authorizes the lookup, the status is updated to **Authorized** and **Open**.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Credit Decision**.
2. Under **Credit Decision**, click **Maintenance**. Under **Maintenance**, click **Charge Code**, then click **View Charge Code**.

   The **View Charge Code** screen is displayed.

Figure 3-98 View Charge Code



For more information on fields, refer to the field description table.

Table 3-95 View Charge Code

Field	Description
Charge Code	Displays the charge code.
Charge Code Description	Displays the description of the charge code.
Product Processor Code	Displays the product processor of the charge code.
Charging Currency	Displays the currency of the charge code.
Status	Displays the status of the record.
Modification Number	Displays the number of modifications performed on the record.

3. On the **View Charge Code** screen, click icon.

   The **View Charge Code - Search** screen is displayed.

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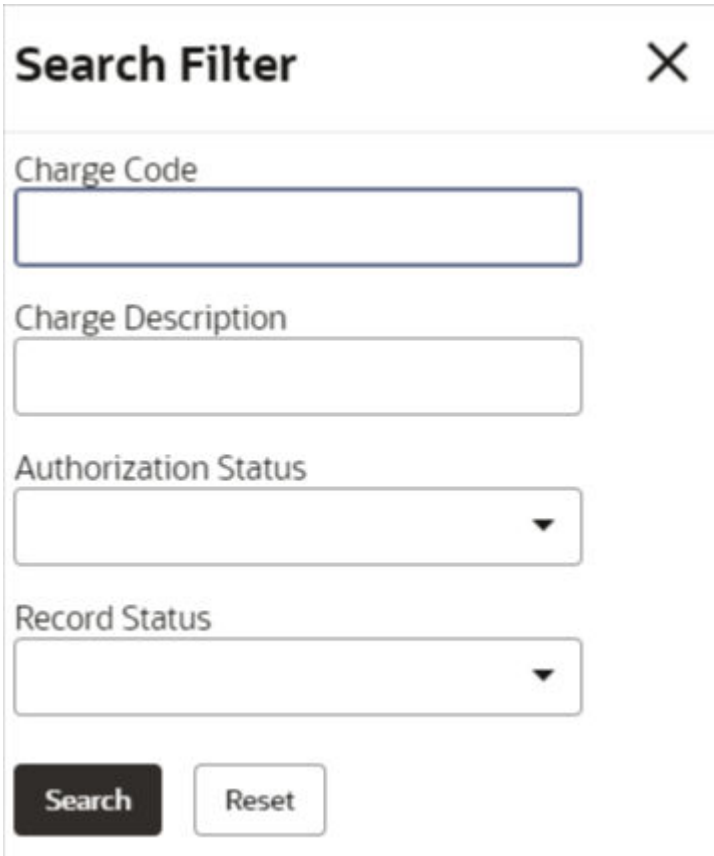
Figure 3-99 View Charge Code - Search



4. On the **View Charge Code - Search** screen, specify the **Search Filter** to fetch the required lookup.

   For more information on fields, refer to the field description table.

Table 3-96 View Charge Code – Search – Field Description

Field	Description
Charge Code	Specify the charge code.
Charge Code Description	Specify the short description for the charge code.
Authorization Status	Select the authorization status of the parameters. The available options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Select the record status of the parameters. The available options are: • **Open** • **Closed**

5. Click **Search** to display the required charge code.

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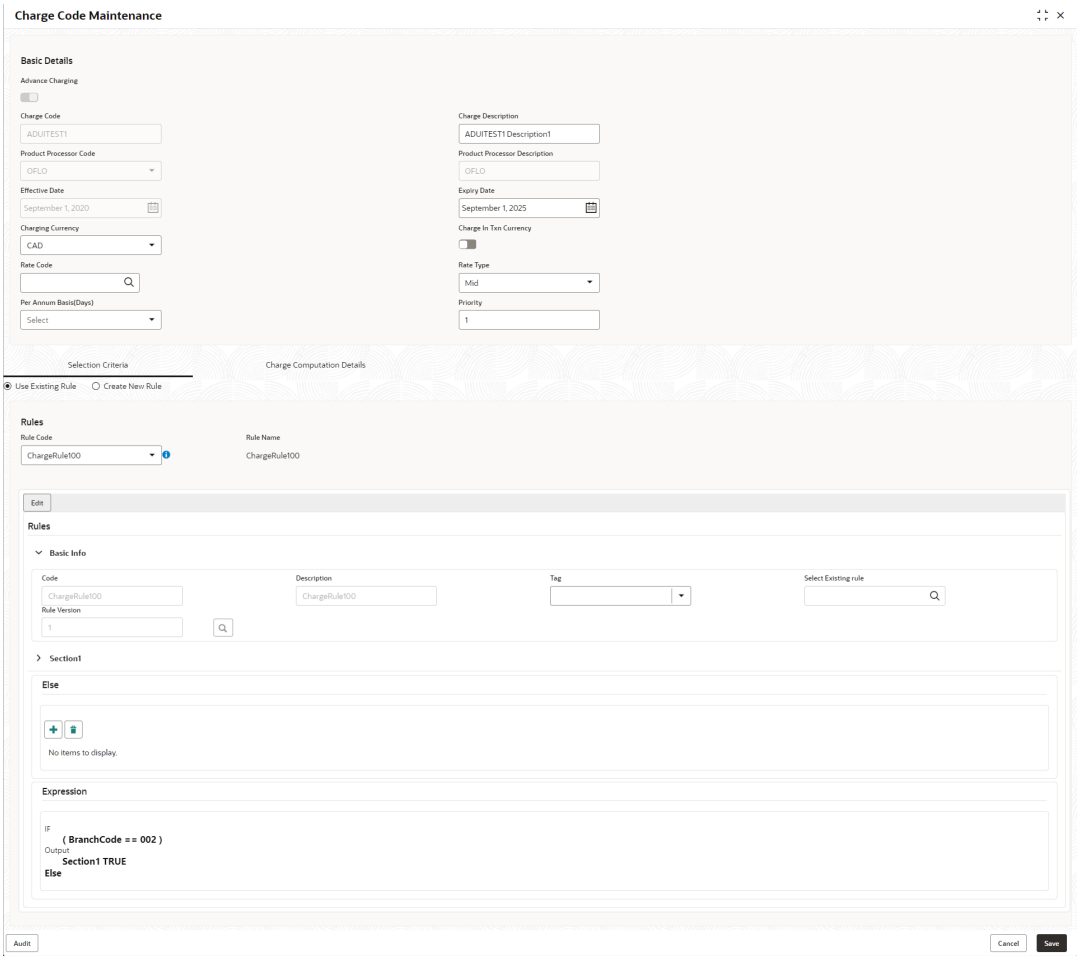
6. On the **View Charge Code** screen, click ⋮ icon to **Unlock**, **Delete**, **Authorize**, or **View** the created charge code.
7. Click **Unlock** to modify the following fields.

   The **Charge Code Maintenance - Modify** screen is displayed.

Figure 3-100 Charge Code Maintenance - Modify



For more information on fields, refer to the field description table.

Table 3-97 Charge Code Maintenance - Modify - Field Description

Field	Description
Advance Charging	Displays the toggle status.
Charge Code	Displays the created charge code.
Charge Description	Displays the description for the created charge code. User can modify the same.

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Table 3-97 (Cont.) Charge Code Maintenance - Modify - Field Description

Field	Description
Product Processor Code	Displays the product processor of the created charge code.
Product Processor Description	Displays the product processor of the created charge code.
Effective Date	Displays the effective date for the created charge code. User can modify the same if the date is future dated.
Expiry Date	Displays the expiry date for the created charge code. User can modify the same.
Charging Currency	Displays the type of the currency. User can modify the same.
Charge in Txn Currency	Displays the toggle status for the created charge code. User can modify the same.
Rate Code	Displays the rate code for the created charge code. User can modify the same.
Rate Type	Displays the rate type for the created charge code. User can modify the same.
Per Annum Basis (Days)	Displays the numbers of the days for the created code. User can modify the same.
Priority	Displays the priority of the created charge code. User can modify the same.
Use Existing Rule	Indicates if the existing rule is linked.
Rule Code	The user can modify the rule code for the created charge code.
	Click this icon to get the information about the rule.
Rule Name	Displays the rule name of the rule code for the created charge code.
Create New Rule	The user can modify the rule code for the created charge code.
Code	Specify the new rule code for charge code.
Description	Specify the rule description for the charge code.
Fact / Rules	Displays the fact or rule for the created charge code.
Operator	Displays the comparison operator for the created charge code.
Data Type	Displays the data type for the fact or rule for the created charge code.
Output	Displays the output for the created charge code.
Expression	Displays the expression updated in the expression builder for the created charge code.

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Table 3-97 (Cont.) Charge Code Maintenance - Modify - Field Description

Field	Description
Fact ID	The user can modify the fact ID of the created charge code.
Rule ID	The user can modify the rule ID of the created charge code.
	Click this icon to get the information about the rule.
Charge Type	Displays the type for the created charge code. User can modify the same.
Charge Amount	Displays the amount for the created charge code. User can modify the same. This field is displayed if the **Charge Type** is selected as **Fixed Amount**.
Percentage (%)	Displays the percentage for the created charge code. User can modify the same. This field is displayed if the **Charge Type** is selected as **Fixed Percentage.**
Minimum Amount	Displays the minimum amount. User can modify the same. This field will be displayed if the **Charge Type** is selected as **Fixed Percentage** or **Tiered** and **Tier Charge Type** as **Percentage/Amount or Percentage**.
Maximum Amount	Displays the maximum amount. User can modify the same. This field will be displayed if the **Charge Type** is selected as **Fixed Percentage or Tiered** and **Tier Charge Type** as **Percentage/Amount or Percentage**.
Tiered Charge Type	Displays the charge type for the created charge code. User can modify the same. This field is displayed if the **Charge Type** is selected as **Tiered**.
Tier Type	Displays the tier type for the created charge code. User can modify the same. This field is displayed if the **Charge Type** is selected as **Tiered**.
Change Per Count	Displays the toggle status for the created charge code. User can modify the same. This field is displayed if the **Charge Type** is selected as **Tiered** and **Tier Charge Type** as **Amount**, **Amount or Rule**, or **Rule**.

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Table 3-97 (Cont.) Charge Code Maintenance - Modify - Field Description

Field	Description
Tier Criteria	Displays the tier criteria for the created charge code. User can modify the same. This field is displayed if the **Charge Type** is selected as **Tiered**.
+ button	Click to add a new row.
- button	Click to delete the row.
Amount / Period / Amount or Period - From	Displays the start value of the count range. User can modify the same. This field is visible only if the **Charge Type** is selected as **Tiered**.
Amount / Period / Amount or Period - To	Displays the final value of the count range. User can modify the same. This field is visible only if the **Charge Type** is selected as **Tiered**.
Amount	Displays the charge amount. User can modify the same. This field is visible only if the **Charge Type** is selected as **Tiered** and **Tiered Charge Type** as **Amount**.
Percentage	Displays the charge percentage. User can modify the same. This field is visible only if the **Charge Type** is selected as **Tiered** and **Tiered Charge Type** as **Percentage**.
Output Option	Displays the output option selected. User can modify the same. This field is visible only if the **Charge Type** is selected as **Tiered** and **Tiered Charge Type** as **Amount or Percentage**.
Output	Displays the output. This field is visible only if the **Charge Type** is selected as **Tiered** and **Tiered Charge Type** as **Amount or Percentage**.
Basis of	Displays the basis of selected from the drop-down list. User can modify the same. This field is visible only if **Charge Type** is selected as **Tiered** and **Advance Charging** is enabled.
Rule ID	Displays the rule selected.
	Click this icon to get the information about the rule.

8. Click **Save** to save the details.
9. Click **View** to view the created charge code.

   The **Charge Code Maintenance - View**

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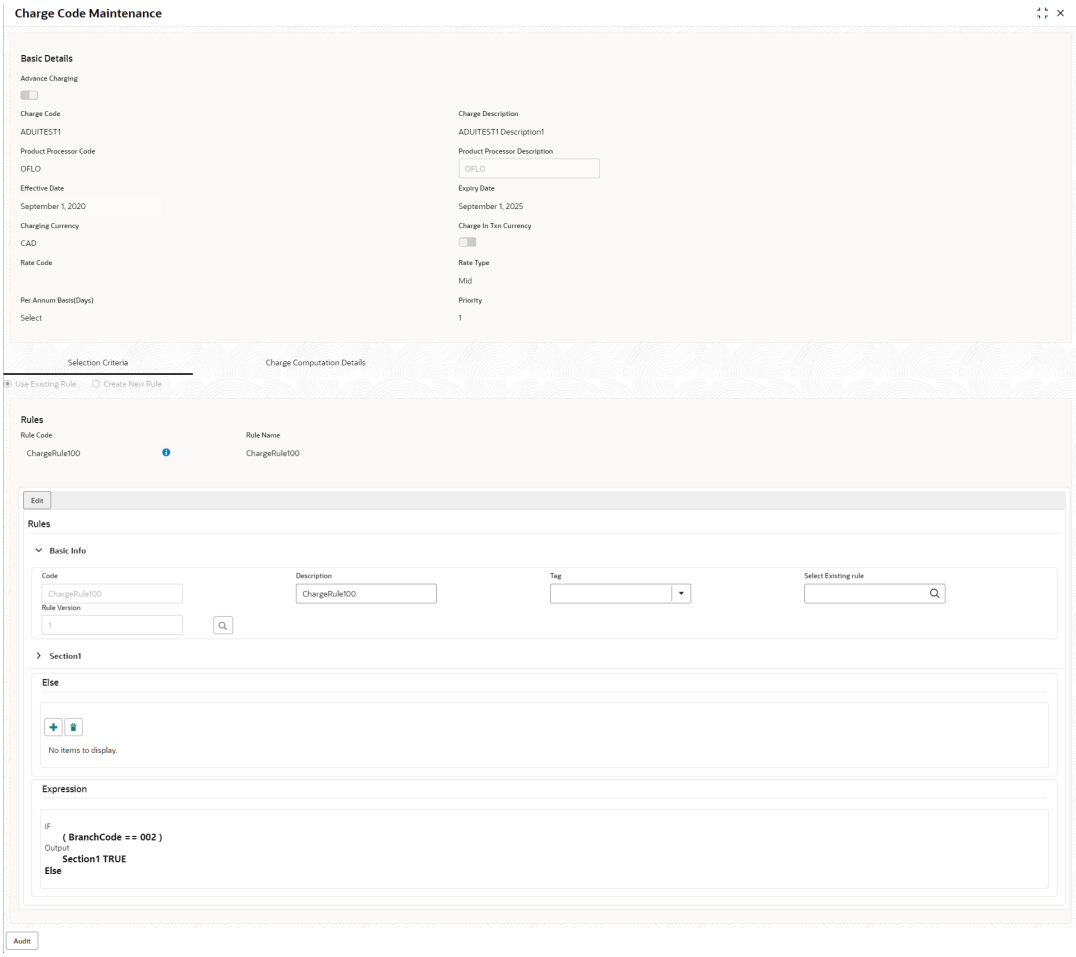
Figure 3-101 Charge Code Maintenance - View



For more information on fields, refer to the field description table.

Table 3-98 Charge Code Maintenance - View - Field Description

Field	Description
Charge Code	Displays the created charge code.
Charge Description	Displays the description for the created charge code.
Product Processor Code	Displays the product processor of the created charge code.
Product Processor Description	Displays the product processor of the created charge code.
Effective Date	Displays the effective date for the created charge code.
Expiry Date	Displays the expiry date for the created charge code.
Charging Currency	Displays the type of the currency.
Charge in Txn Currency	Displays the toggle status for the created charge code.

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Table 3-98 (Cont.) Charge Code Maintenance - View - Field Description

Field	Description
Rate Code	Displays the rate code for the created charge code.
Rate Type	Displays the rate type for the created charge code.
Per Annum Basis (Days)	Displays the numbers of the days for the created code.
Priority	Displays the priority of the created charge code.
Use Existing Rule	Indicates if the existing rule is linked.
Rule Code	Displays the rule code for the created charge code.
	Click this icon to get the information about the rule.
Rule Name	Displays the rule name of the rule code for the created charge code.
Create New Rule	Displays the rule code for the created charge code.
Code	Displays the rule code for charge code.
Description	Displays the rule description for the charge code.
Fact / Rules	Displays the fact or rule for the created charge code.
Operator	Displays the comparison operator for the created charge code.
Data Type	Displays the data type for the fact or rule for the created charge code.
Output	Displays the output for the created charge code.
Expression	Displays the expression updated in the expression builder for the created charge code.
Fact ID	Displays the fact ID of the created charge code.
Rule ID	Displays the rule ID of the created charge code.
	Click this icon to get the information about the rule.
Charge Type	Displays the type for the created charge code.
Charge Amount	Displays the amount for the created charge code. This field is displayed if the **Charge Type** is selected as **Fixed Amount** .
Percentage (%)	Displays the percentage for the created charge code. This field is displayed if the **Charge Type** is selected as **Fixed Percentage**.

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Table 3-98 (Cont.) Charge Code Maintenance - View - Field Description

Field	Description
Minimum Amount	Displays the minimum amount. This field is displayed if the **Charge Type** is selected as **Fixed Percentage** or **Tiered** and **Tier Charge Type** as **Percentage/Amount or Percentage**.
Maximum Amount	Displays the maximum amount. This field is displayed if the **Charge Type** is selected as **Fixed Percentage or Tiered** and **Tier Charge Type** as **Percentage/Amount or Percentage**.
Tiered Charge Type	Displays the charge type for the created charge code. This field is displayed if the **Charge Type** is selected as **Tiered**.
Tier Type	Displays the tier type for the created charge code. This field is displayed if the **Charge Type** is selected as **Tiered**.
Change Per Count	Displays the toggle status for the created charge code. This field is displayed if the **Charge Type** is selected as **Tiered** and **Tier Charge Type** as **Amount**, **Amount or Rule**, or **Rule**
Tier Criteria	Displays the tier criteria for the created charge code. This field is displayed if the **Charge Type** is selected as **Tiered**.
Amount / Period / Amount or Period - From	Displays the start value of the count range. This field is displayed if the **Charge Type** is selected as **Tiered**.
Amount / Period / Amount or Period - To	Displays the final value of the count range. This field is displayed if the **Charge Type** is selected as **Tiered**.
Amount	Displays the charge amount. This field is displayed if the **Charge Type** is selected as **Tiered** and **Tiered Charge Type** as **Amount**.
Percentage	Displays the charge percentage. This field is displayed if the **Charge Type** is selected as **Tiered** and **Tiered Charge Type** as **Percentage**.
Output Option	Displays the output option selected. This field is displayed if the **Charge Type** is selected as **Tiered** and **Tiered Charge Type** as **Amount or Percentage**.
Output	Displays the output. This field is displayed if the **Charge Type** is selected as **Tiered** and **Tiered Charge Type** as **Amount or Percentage**.

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Table 3-98 (Cont.) Charge Code Maintenance - View - Field Description

Field	Description
Basis of	Displays the basis of selected from the drop-down list. This field is displayed if **Charge Type** is selected as **Tiered** and **Advance Charging** is enabled.
Rule ID	Displays the rule selected.
	Click this icon to get the information about the rule.

3.18 Execution Summary

This topic describes the information to view the decisions, credit score and pricing for the processed application.

This topic contains the following subtopics:

- View Execution Summary
  This topic describes the systematic instructions to view the execution summary based on the various filter options provided.

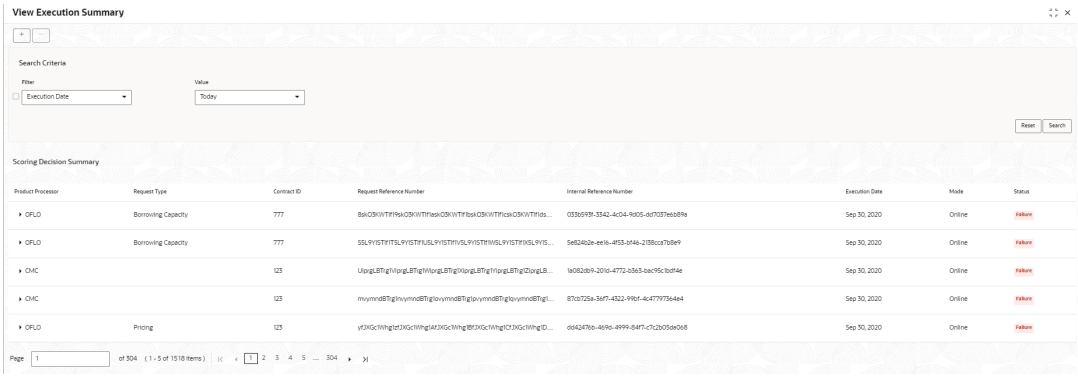
3.18.1 View Execution Summary

This topic describes the systematic instructions to view the execution summary based on the various filter options provided.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Credit Decision**.
2. Under **Credit Decision**, click **Operations**. Under **Operations**, click **Execution Summary**.

   The **View Execution Summary** screen is displayed.

Figure 3-102 View Execution Summary



For more information on fields, refer to the field description table.

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Table 3-99 View Execution Summary - Field Description

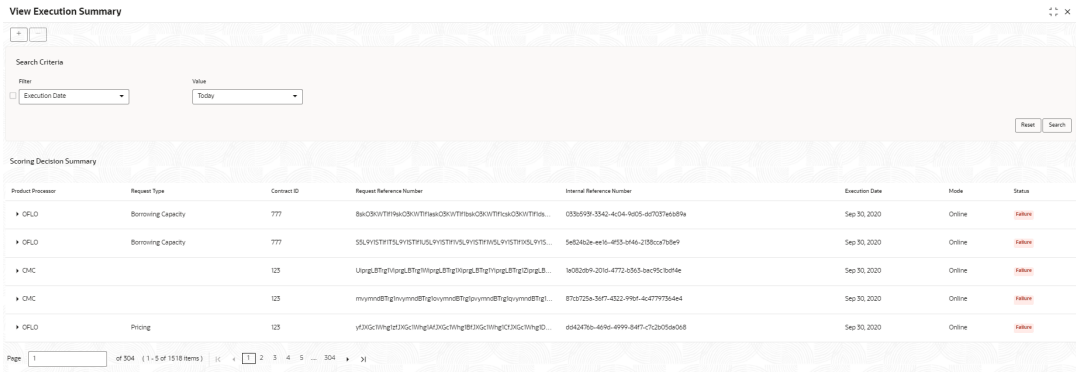
Field	Description
+ icon	Click the icon to add a new row.
- icon	Click the icon to delete a row, which is already added.
Filter	Select the required option to search for the execution summary. The available options are: • **Reference Number** • **Internal Reference Number** • **Decision** • **Batch/Online** • **Product Processor** • **Status** • **Request Type** • **Execution Date** • **Contract ID**
Value	Specify the required details or select an appropriate option for the selected filter option. This field is displayed once an option is selected from the **Filter** list.
From Date	Select the start date of the period during which the execution summary is generated. This field is displayed if option as **Execution Date** and value as **Date Range** is selected in the **Filter** field.
To Date	Select the end date of the period during which the execution summary is generated. This field is displayed if option as **Execution Date** and value as **Date Range** is selected in the **Filter** field.

3. In the **Search Criteria** section, specify the details and click **Search**.

   The search results displays with the list of records based on the specified criteria.

4. Click **Reset** to reset the search criteria.

Figure 3-103 Scoring Decision Summary



For more information on fields, refer to the field description table.

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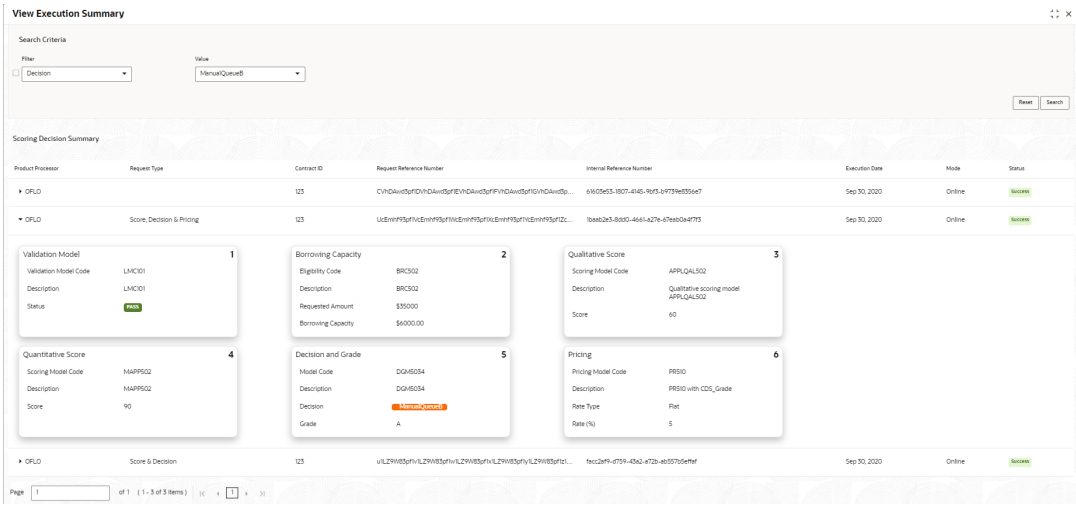
Table 3-100 Scoring Decision Summary - Field Description

Field	Description
Product Processor	View the name of the product processor that sent the request.
Request Type	View the request type sent by product processor.
Contract ID	View the contract ID sent by the product processor.
Reference Number	View the request reference number sent by product processor.
Internal Reference Number	View the internal reference number of the application.
Execution Date	View the execution date of the processing application.
Mode	View the mode of execution of the application.
Status	View the status of the processed application.

5. Click the corresponding icon to the required record to view the decision related details on each widget. Only one record can be viewed at a time. To view another record, close the previous record and then the next record can be viewed. The widgets are arranged in a flow in which the execution is done. These are indicated by showing the sequence 1, 2, 3 numbers at the top right corner. The widgets are selectable, on mouse over, the color of the widget changes to indicate that the widget is selectable.

6. When the status of the processed application **Fails**, a click on the failure message displays the step that is failed. For example, in case of the **Qualitative Score Model** is not resolved, then an error message is displayed in the **Qualitative Score Model** widget. The previous widget will show the data which was processed. If the validation processing fails, then the **Fail** status is shown in the **Validation Model** widget, and the reason for failure is displayed by a click on the widget.

Figure 3-104 View Execution Summary



For more information on fields, refer to the field description table.

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Table 3-101 View Execution Summary - Field Description

Field	Description
Validation Model Widget	Displays the status of the validation model processed.
Validation Model Code	Displays the validation model code, resolved for credit decision.
Description	Displays the validation model description, resolved for the credit decision.
Status	Displays the status of the validation model processed. • For status **Pass**, the color is shown as **Green**. • For status **Fail**, the color is shown as **Red**.
Borrowing Capacity Widget	Displays the maximum lendable amount that can be given for an application.
Eligibility Code	Displays the eligibility model code, resolved for calculating the borrowing capacity.
Description	Displays the eligibility model description, resolved for calculating the borrowing capacity.
Requested Amount	Displays the requested amount for the lending application.
Borrowing Capacity	Displays the maximum lendable amount that can be given for the application.
Qualitative Score Widget	Displays the qualitative credit score, post credit decision of the application.
Scoring Model Code	Displays the scoring model code, resolved for credit decision. • When **Is Application Decision Required** is **Yes**, the application level decision scoring code is displayed. • When **Is Application Decision Required** is **No**, the applicant level decision scoring code is displayed. • When **Is Application Decision Required** is **No**, and **Is Primary Applicant** is **No**, the application level decision scoring code is displayed.
Description	Displays the scoring model description, resolved for credit decision.
Score	Displays the qualitative credit score post credit decision of the application. • When **Is Application Decision Required** is **Yes**, the system performs the aggregation, which can be minimum, maximum or average of all applicant's score. The aggregation performed is defined as rules and linked at the application level scoring model and this aggregated score is displayed. • When **Is Application Decision Required** is **No**, the score is displayed by resolving the applicant level scoring model. • When **Is Application Decision Required** is **No**, and **Is Primary Applicant** is **No**, the system performs the aggregation, which can be minimum, maximum or average of all applicant's score. The aggregation performed is defined as rule and linked at the application level scoring model and this aggregated score is displayed.
Quantitative Score Widget	Displays the quantitative credit score post credit decision of the application.
Scoring Model Code	Displays the scoring model code, resolved for credit decision. • When **Is Application Decision Required** is **Yes**, the application level decision scoring code is displayed. • When **Is Application Decision Required** is **No**, the applicant level decision scoring code is displayed. • When **Is Application Decision Required** is **No**, and **Is Primary Applicant** is **No**, the multi applicant level scoring code is displayed.
Description	Displays the scoring model description, resolved for credit decision.

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Table 3-101 (Cont.) View Execution Summary - Field Description

Field	Description
Score	Displays the quantitative credit score, post credit decision of the application. • When **Is Application Decision Required** is **Yes**, the system performs the aggregation, which can be minimum, maximum or average of all applicant's score. The aggregation performed is defined as rules and linked at the application level scoring model and this aggregated score is displayed. • When **Is Application Decision Required** is **No**, the score is displayed by resolving the applicant level scoring model. • When **Is Application Decision Required** is **No**, and **Is Primary Applicant** is **No**, the score is displayed by resolving the multi applicant level scoring model.
Decision and Grade Widget	Displays the credit decision and scoring grade, taken for the application.
Model Code	Displays the model code, resolved for credit decision and grade.
Description	Displays the model description, resolved for credit decision and grade.
Decision	Displays the credit decision, taken for the application.
Grade	Displays the scoring grade, post credit decision of the application.
Pricing Widget	Displays the rate applicable post credit decision.
Pricing Model Code	Displays the pricing model code, resolved for credit decision.
Description	Displays the pricing model description, resolved for credit decision.
Rate Type	Displays the rate type applicable post credit decision.
Rate %	Displays the rate applicable post credit decision.

Click on the **Validation Model** widget, the following fields are displayed. The details for the request which was clicked on the landing page is displayed.

Figure 3-105 Validation Model Widget

For more information on fields, refer to the field description table.

Table 3-102 Validation Model Widget - Field Description

Field	Description
Product Processor	Displays the name of the product processor that sent the request. This field will be shown on click of each widget.
Request Type	Displays the request type sent by the product processor. This field will be shown on click of each widget.

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Table 3-102 (Cont.) Validation Model Widget - Field Description

Field	Description
Contract ID	Displays the contract ID sent by the product processor. This field will be shown on click of each widget.
Request Reference Number	Displays the request reference number sent by product processor. This field will be shown on click of each widget.
Internal Reference Number	Displays the internal reference number of the application. This field will be shown on click of each widget.
Execution Date	Displays the execution date of the processing application. This field will be shown on click of each widget.
Mode	Displays the mode of execution of the application. This field will be shown on click of each widget.
<Validation Model Code>	Displays the validation model code that is resolved for credit decision. Click the hyper link to view the rule executed to resolve the model.
Show Rule Log	Click to see the rule log.
	Click to expand the rule.
Expression	Displays the expression of the rule.
Input	Displays the input of the rule.
Value	Displays the value of the rule.
Description	Displays the description of the validation model.
Status	Displays the status of validation model.
Rule ID	Displays the rule ID executed for validation model processing. Click the hyperlink to view the rule executed.
Show Rule Log	Click to see the rule log.
	Click to expand the rule.
Expression	Displays the expression of the rule.
Input	Displays the input of the rule.
Value	Displays the value of the rule.
Sequence	Displays the sequence in which the rules are executed for validation model processing.
Status	Displays the status of the rule execution. In case the status is failed, the reason for failure is displayed as **Reason <>**. The options are: • **Pass** • **Not Executed** - This status is displayed against a rule if the **Stop on Failure** is set as **ON** and previous rule sequence has failed.

The following fields are displayed once the user click the **Borrowing Capacity** widget.

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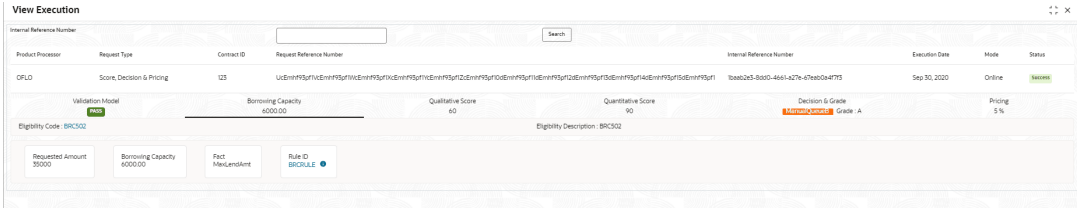
Figure 3-106 Borrowing Capacity Widget



For more information on fields, refer to the field description table.

Table 3-103 Borrowing Capacity Widget - Field Description

Field	Description
<Eligibility Code>	Displays the eligibility code resolved for calculating the borrowing capacity. Click the hyperlink to view the rule executed to resolve the borrowing capacity.
Show Rule Log	Click to see the rule log.
	Click to expand the rule.
Expression	Displays the expression of the rule.
Input	Displays the input of the rule.
Value	Displays the value of the rule.
Eligibility Description	Displays the eligibility description resolved for calculating the borrowing capacity.
Requested Amount	Displays the requested amount for the lending application.
Borrowing Capacity	Displays the maximum lendable amount that can be given for an application.
Fact	Displays the fact using which the maximum lendable amount was calculated.
Rule ID	Displays the rule ID executed for calculating the maximum lendable amount.
Show Rule Log	Click to see the rule log.
	Click to expand the rule.
Expression	Displays the expression of the rule.
Input	Displays the input of the rule.
Value	Displays the value of the rule.

The following fields are displayed once you click the **Qualitative Score** widget.

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Figure 3-107 Qualitative Score Widget – Bar Graph View

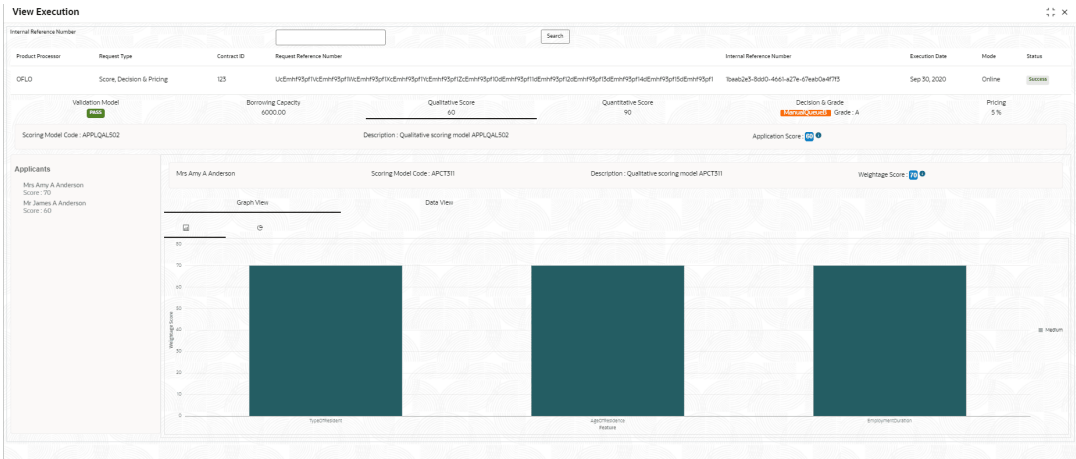


Figure 3-108 Qualitative Score Widget – Pie Graph View

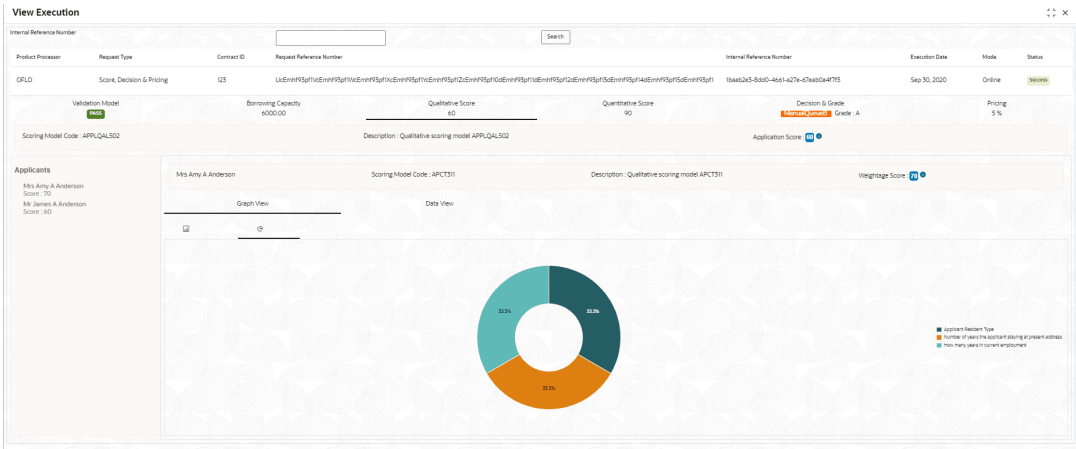
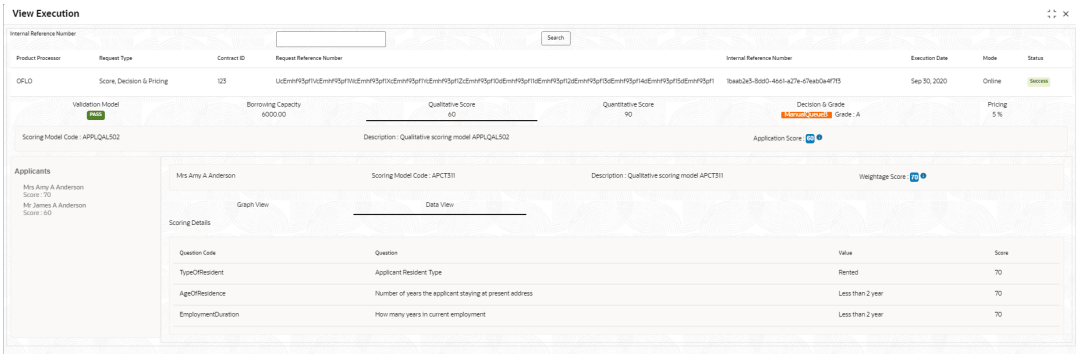


Figure 3-109 Qualitative Score Widget – Data View



For more information on fields, refer to the field description table.

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Table 3-104 Qualitative Score Widget - Field Description

Field	Description
<Scoring Model Code>	Displays the scoring model code resolved for credit decision. • When **Is Application Decision Required** is **Yes**, the application level decision scoring code is displayed. • When **Is Application Decision Required** is **No**, the applicant level decision scoring code is displayed. • When **Is Application Decision Required** is **No** and **Is Primary Applicant** is **No**, the application level scoring code is displayed.
Description	Displays the scoring model description resolved for credit decision.
Weightage Score/ Application Score	Displays the qualitative credit score post credit decision of the application. • When **Is Application Decision Required** is **Yes,** the field name is displayed as **Application Score.** The system performs the aggregation, which can be minimum, maximum or average of all applicant's score. The aggregation performed is defined as rules and linked at the application level scoring model and this aggregated score is displayed. • When **Is Application Decision Required** is **No,** the field name is displayed as **Weightage Score**. The score is displayed by resolving the applicant level scoring model. • When **Is Application Decision Required** is **No,** and **Is Primary Applicant** is **No,** the field name is displayed as **Application Score**. The system performs the aggregation, which can be minimum, maximum or average of all applicant's score. The aggregation performed is defined as rules and linked at the application level scoring model and this aggregated score is displayed.
ⓘ	Hover this icon to get the information about the formula for calculation of score.
<Applicant Name>	Displays the applicant names present in the application.
<Score>	Displays the weighted credit score post credit decision of the application. The score is calculated for each applicant by resolving the applicant level scoring model.
<Applicant Name>	Displays the applicant names present in the application.
Scoring Model Code	Displays the applicant level scoring model code resolved for credit decision.
Description	Displays the applicant scoring model description.
Weightage Score	Displays the weighted credit score post credit decision of the application.
ℹ	Hover this icon to get the information about the formula for calculation of score.

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Table 3-104 (Cont.) Qualitative Score Widget - Field Description

Field	Description
Graph View	Two graphical views are available. • **Bar Graphs** The details are shown as a graphical representation as bar charts. • List of question ID on the **X**-axis • Score on the **Y**-axis. Based on the evaluation of the category, the questions are shown in a particular color based on the maintenance done in the lookups screen. • **Pie Charts** The details are shown as a graphical representation as pie charts. The calculation logic for the question is (Score of the question/ Weightage score of the applicant)*100. The pis is shown from a pool of colors available/defined in the code.
Data View	The scoring details are shown as mentioned below in data view.
Question Code	Displays the question code resolved for the applicant in the scoring model.
Question	Displays the question description resolved for the applicant in the scoring model.
Value	Displays the response received for the question in the payload.
Score	Displays the score calculated for the question based on the range and the response. In case any question was optional for which the response was not received, **NA** will be displayed.

The following fields are displayed once you click the **Quantitative Score** widget.

Figure 3-110 Quantitative Score Widget – Bar Graph View

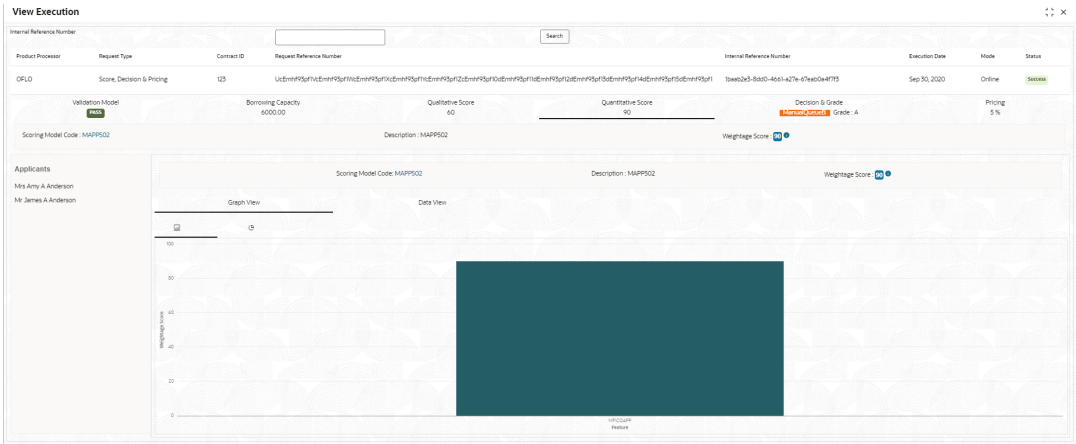

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Figure 3-111 Quantitative Score Widget – Pie Graph View

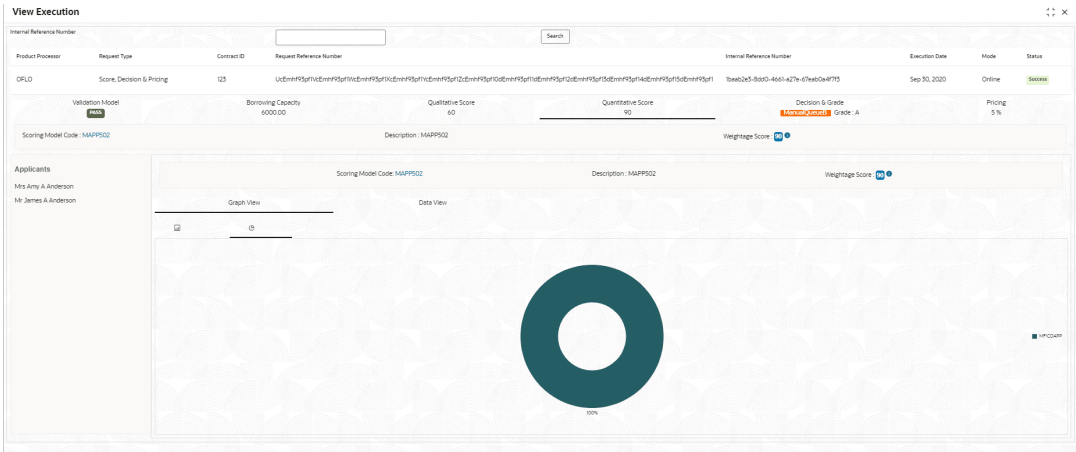
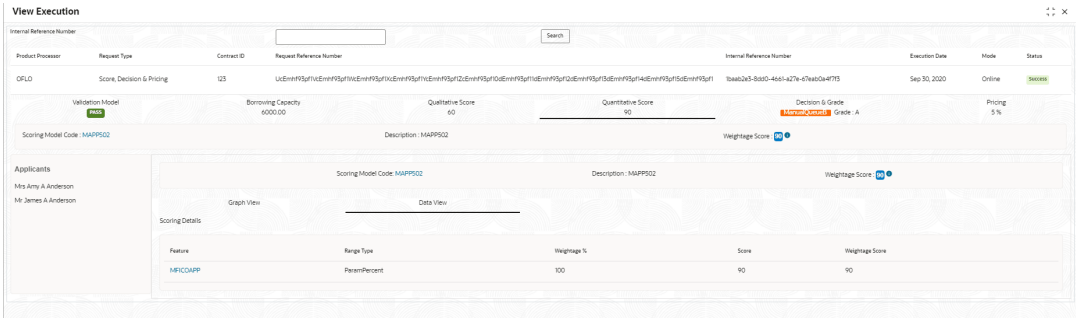


Figure 3-112 Quantitative Score Widget – Data View



For more information on fields, refer to the field description table.

Table 3-105 Quantitative Score Widget - Field Description

Field	Description
<Scoring Model Code>	Displays the scoring model code resolved for credit decision. • When **Is Application Decision Required** is **Yes,** the application level decision scoring code is displayed. • When **Is Application Decision Required** is **No,** the applicant level decision scoring code is displayed. • When **Is Application Decision Required** is **No** and **Is Primary Applicant** is **No,** the multi applicant level scoring code is displayed. Click the hyperlink to view the rule executed to resolve the quantitative score.
Show Rule Log	Click to see the rule log.
	Click to expand the rule.
Expression	Displays the expression of the rule.
Input	Displays the input of the rule.
Value	Displays the value of the rule.

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Table 3-105 (Cont.) Quantitative Score Widget - Field Description

Field	Description
Description	Displays the scoring model description resolved for credit decision.
Weightage Score	Displays the weightage score post credit decision of the application. • When **Is Application Decision Required** is **Yes**, the system performs the aggregation, which can be minimum, maximum or average of all applicant's score. The aggregation performed is defined as rules and linked at the application level scoring model and this aggregated score is displayed. • When **Is Application Decision Required** is **No**, the score is displayed by resolving the applicant level scoring model. • When **Is Application Decision Required** is **No** and **Is Primary Applicant** is **No**, the score is displayed by resolving multi applicant level scoring model. In case of **Is Application Decision Required** is **Yes**, the system displays the hyperlink on the weightage score value. It shows the aggregate rule details.
<Applicant Name>	Displays the applicant names present in the application.
<Score>	Displays the weighted credit score post credit decision of the application. The score is calculated for each applicant by resolving the applicant level scoring model. In case of multi applicant scenario, weightage score per applicant is not shown.
<Applicant Name>	Displays the applicant names present in the application.
Scoring Model Code	Displays the applicant level scoring model code resolved for credit decision. Applicant level scoring model is applicable for the below case. • If **Is Application Decision required** is **Yes** • If **Is Application Decision Required** is **No,** and **Is Primary Applicant** is **Yes** Multi applicant level scoring model is applicable in the below case. If **Is Application Decision Required** is **No,** and **Is Primary Applicant** is **No**. Click the hyperlink to view the rule executed to resolve the quantitative score.
Show Rule Log	Click to see the rule log.
	Click to expand the rule.
Expression	Displays the expression of the rule.
Input	Displays the input of the rule.
Value	Displays the value of the rule.
Description	Displays the applicant scoring model description.
Weightage Score	Displays the weighted credit score post credit decision of the application. The weightage score is calculated for each applicant by resolving the applicant scoring model. In case of multi applicant scoring model, for both the applicant the same score is shown since the score is not calculated per applicant.

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Table 3-105 (Cont.) Quantitative Score Widget - Field Description

Field	Description
	Hover this icon to get the information about the formula for calculation of score.
Graph View	Two graphical views are available. • **Bar Graphs** The details are shown as a graphical representation as bar charts. • List of features on the **X**-axis • Weightage Score on the **Y**-axis. Based on the evaluation of the category, the feature are shown in a particular color based on the maintenance done in the lookup screen. **Note**: For Multi Applicant scoring model all graphs is shown in the same color, as category evaluation is not applicable. • **Pie Charts** The details are shown as a graphical representation as pie charts. The calculation logic for the feature is (Weighted score of the feature/ Weightage score of the applicant)*100. The pie is shown from a pool of colors available/defined in the code.
Data View	The scoring details are shown as mentioned below in data view.
Feature	Displays the features resolved for the applicant in the scoring model. Click the hyperlink to view the rule executed to resolve the quantitative score.
Show Rule Log	Click to see the rule log.
	Click to expand the rule.
Expression	Displays the expression of the rule.
Input	Displays the input of the rule.
Value	Displays the value of the rule.
Value	Displays the value of the feature.
Range Type	Displays the range type for the feature.
Range	Displays the range resolved for the feature value for score resolution.
Weightage %	Displays the weightage defined for the feature in the scoring model.
Score	Displays the score calculated for the feature based on the range and feature value.
Weightage Score	Displays the weighed credit score post credit decision of the application.

The following fields are displayed once you click the **Decision and Grade** widget.

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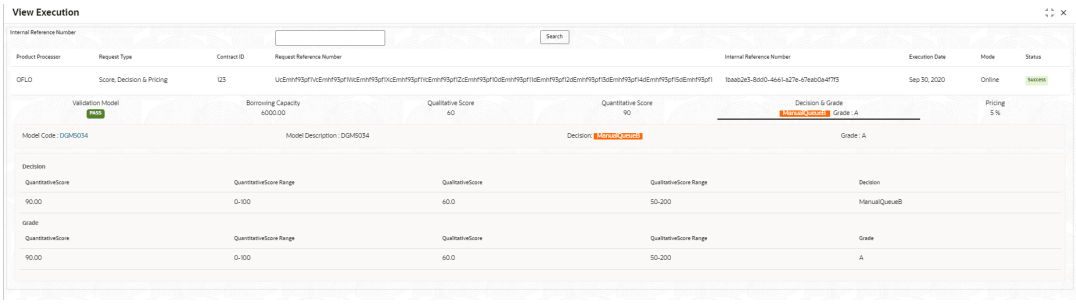
Figure 3-113 Decision and Grade Widget



For more information on fields, refer to the field description table.

Table 3-106 Decision and Grade Widget - Field Description

Field	Description
<Model Code>	Displays the model code resolved for credit decision and grade.
Show Rule Log	Click to see the rule log.
	Click to expand the rule.
Expression	Displays the expression of the rule.
Input	Displays the input of the rule.
Value	Displays the value of the rule.
Model Description	Displays the model description resolved for credit decision and grade.
Decision	Displays the credit decision taken for the application.
Grade	Displays the scoring grade post credit decision of the application.
Quantitative Score	Displays the quantitative score calculated for the application. If the feature is rule based, system displays the hyperlink.
Show Rule Log	Click to see the rule log.
	Click to expand the rule.
Expression	Displays the expression of the rule.
Input	Displays the input of the rule.
Value	Displays the value of the rule.
Quantitative Score Range	Displays the range resolved for the quantitative score value for score resolution.
Qualitative Score	Displays the qualitative score calculated for the application.
Qualitative Score Range	Displays the range resolved for the qualitative score value for score resolution.
Decision	Displays the credit decision taken for the application.
Rule ID	Displays the decision taken for the application. Click the hyperlink to view the rule executed.
Show Rule Log	Click to see the rule log.
	Click to expand the rule.
Expression	Displays the expression of the rule.
Input	Displays the input of the rule.

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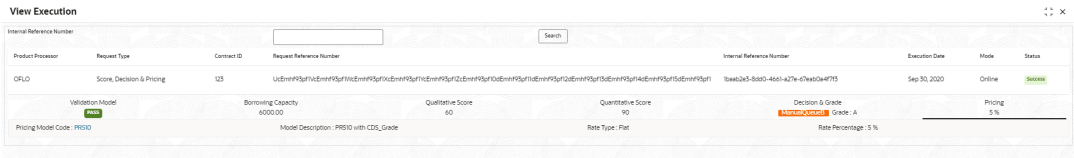
Table 3-106 (Cont.) Decision and Grade Widget - Field Description

Field	Description
Value	Displays the value of the rule.
Qualitative Score	Displays the qualitative score calculated for the application. If the feature is rule based, system displays the hyperlink.
Show Rule Log	Click to see the rule log.
	Click to expand the rule.
Expression	Displays the expression of the rule.
Input	Displays the input of the rule.
Value	Displays the value of the rule.
Qualitative Score Range	Displays the range resolved for the qualitative score value for score resolution.
Quantitative Score	Displays the quantitative score calculated for the application.
Quantitative Score Range	Displays the range resolved for the quantitative score value for score resolution.
Grade	Displays the scoring grade taken for the application.

The following fields are displayed once you click the **Pricing** widget.

Figure 3-114 Pricing Widget



For more information on fields, refer to the field description table.

Table 3-107 Pricing Widget - Field Description

Field	Description
<Pricing Model Code>	Displays the pricing model code resolved for credit decision. Click the hyperlink to view the rule executed to resolve the pricing model.
Show Rule Log	Click to see the rule log.
	Click to expand the rule.
Expression	Displays the expression of the rule.
Input	Displays the input of the rule.
Value	Displays the value of the rule.
Model Description	View the pricing model description resolved for credit decision.
Rate Type	View the rate type applicable post credit decision.
Rate Percentage	View the rate applicable post credit decision.
Loan Amount	View the eligible loan amount for the application.
Loan Tenure	View the loan tenure for the application.

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Table 3-107 (Cont.) Pricing Widget - Field Description

Field	Description
Loan Amount Range	View the range resolved for the loan amount value.
Loan Tenure Range	View the range resolved for the loan tenure value.
Rate %	View the rate applicable post credit decision.

The following fields are displayed once you click the **Charge** widget.

Figure 3-115 Charge Widget

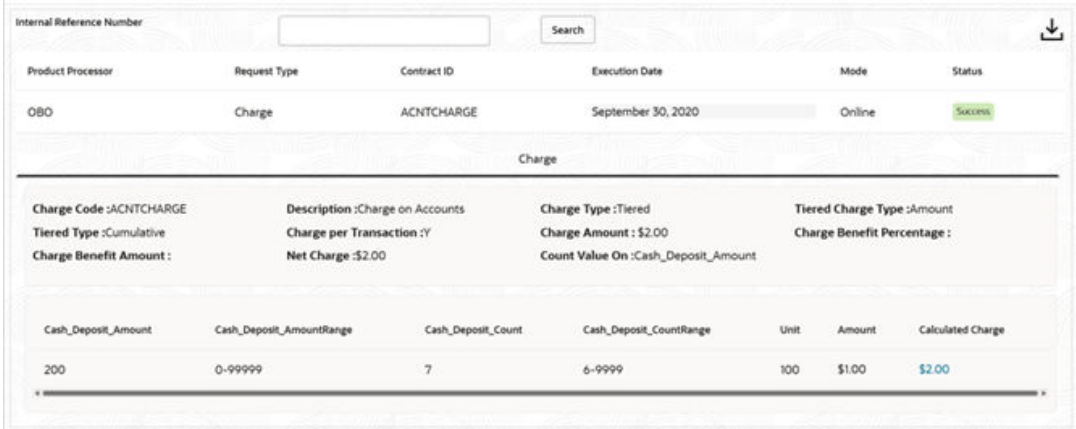
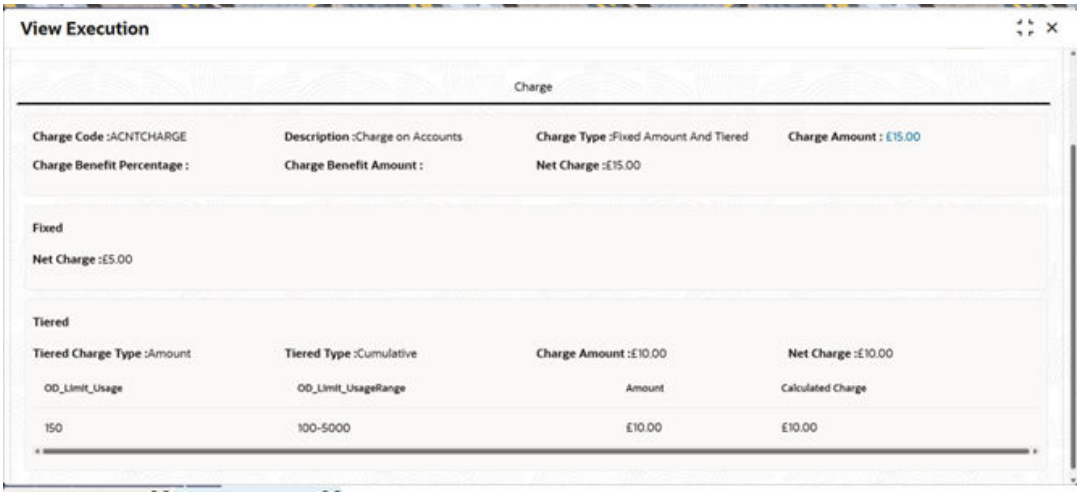


Figure 3-116 Charge Widget



For more information on fields, refer to the field description table.

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Table 3-108 Charge Widget - Field Description

Field	Description
<Charge Code>	Displays the Charge code evaluated for credit decision.
Description	Displays the description of the charge code.
Charge Type	Displays the type of the charge code.
Charge Percentage(%)	Displays of percentage of the charge code.
Minimum Amount	Displays the minimum amount.
Maximum Amount	Displays the maximum amount.
Basis of	Displays the attribute on which the percentage is applied
Charge Amount	Displays the charge amount computated. Click the hyperlink to view the rule executed to resolve the pricing model.
Logic	Displays the logic on which the charge amount has been calculated.
Amount	Displays the amount.
Charge Amount	Displays the charge amount calculated.
Charge to be Applied	Displays the charge applied.

3.19 Integrating Decision Service with Oracle Banking Routing Hub

This topic describes the information to integrate the Decision service with Oracle Banking Routing Hub.

This topic contains the following subtopics:

- Oracle Banking Routing Hub Configuration
  This topic describes the information about Oracle Banking Routing Hub Configuration for the Decision service.
- Oracle Banking Origination to Decision Service Configuration
  This topic describes the information about Oracle Banking Origination to Decision Service Configuration

3.19.1 Oracle Banking Routing Hub Configuration

This topic describes the information about Oracle Banking Routing Hub Configuration for the Decision service.

- Service Consumers
  This topic describes systematic instructions to configure the service consumers.
- Service Providers
  This topic describes the systematic instructions to configure the service providers.

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3.19.1.1 Service Consumers

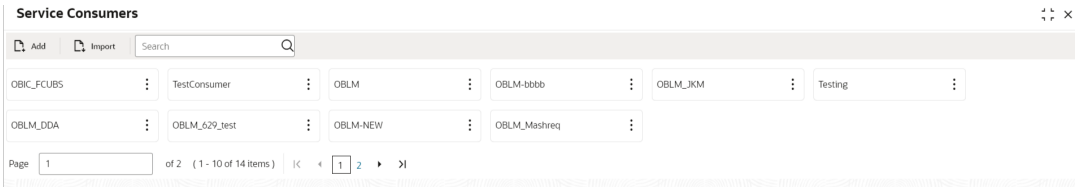
This topic describes systematic instructions to configure the service consumers.

The **Service Consumer** is an Oracle product that invokes Oracle Banking Routing Hub API. Oracle Banking Routing Hub analyses, evaluates the destination product processor and, transforms the data into a format of the same.
The **Service Consumer** comprises the source and destination integration details.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Routing Hub**.
2. Under **Routing Hub**, click **Service Consumers**.

   The **Service Consumers** screen is displayed.

Figure 3-117 Service Consumers



Add Service Consumer

3. Click **Add**.

   The **Add Service Consumer** screen is displayed.

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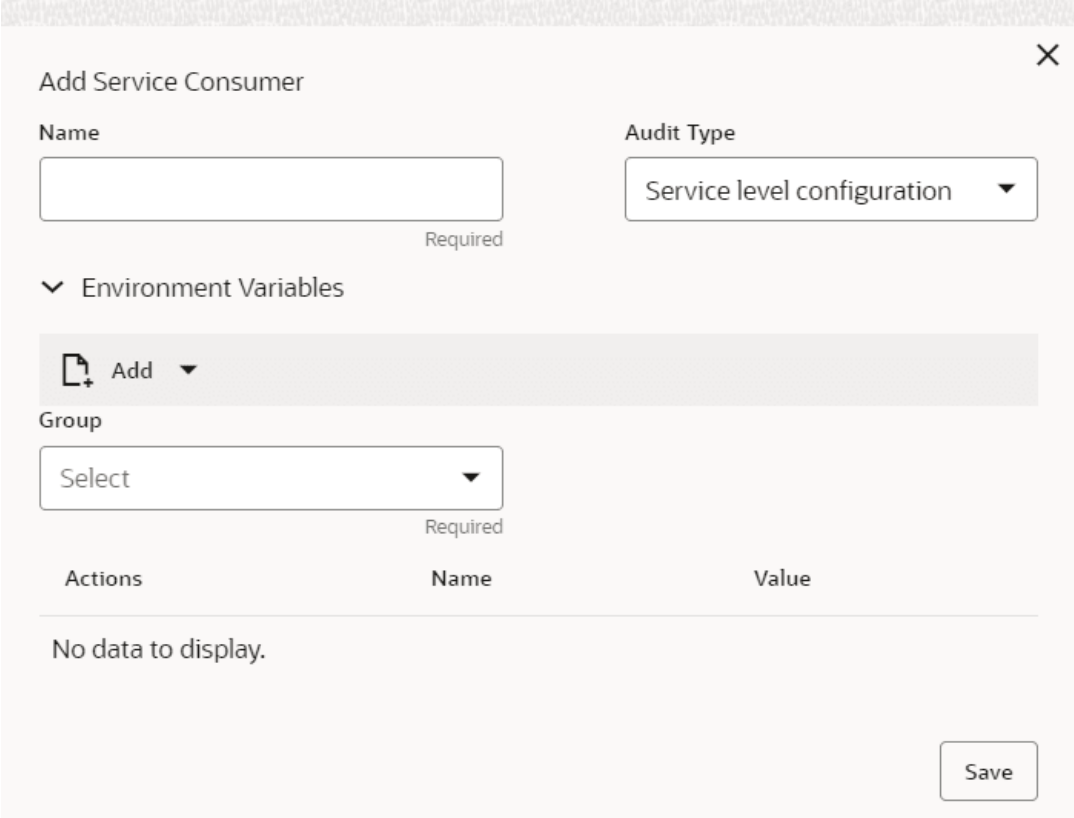
Figure 3-118 Add Service Consumer



4. Specify the fields on the **Add Service Consumer** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 3-109 Add Service Consumer - Field Description

Field	Description
Name	Specify the name of the service consumer. **Note:** • Enter 0 to maximum of 255 characters. • No numeric value at beginning and no space allowed.
Add	To add, refer to step 5. Select the group from the drop-down list. The available options are: • **Group** • **Variable**
Group	Select the group from the drop-down list.
Action	Displays the action. The user can edit or delete the header.
Name	Displays the name of the header.

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Table 3-109 (Cont.) Add Service Consumer - Field Description

Field	Description
Value	Displays the value of the header.

Environment Variables:
The user must define the group of variables which can be accessed throughout the specific consumer's configuration.

The syntax for accessing environment variables is below: $env.Environment_Group_Name.Environment_Variable_Name

For example, $env.COMMON.BRANCH_CODE

5. To add **Environment Variables**, follow below steps.
   a. On **Add Service Consumers**, click **Add** and select **Group** from drop-down list to add the group.

      The **Add Environment Group** screen is displayed.

      Figure 3-119 Add Environment Group

   b. Specify the fields on **Add Environment Group** screen and click **OK**.

      > **Note**
      > The fields marked as **Required** are mandatory.

      For more information on fields, refer to the field description table.

      Table 3-110 Add Environment Group - Field Description

Field	Description
Name	Specify the name of the environment group. **Note:** • Enter 0 to maximum of 255 characters. • No numeric value at beginning and no space allowed.

   c. Click **Add** on **Add Service Consumer** screen and select **Variable** from drop-down list to add the variable.

      The **Add Environment Variable** screen is displayed.

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Figure 3-120 Add Environment Variable

d. Specify the fields on the **Add Environment Variable** screen and click **OK**.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

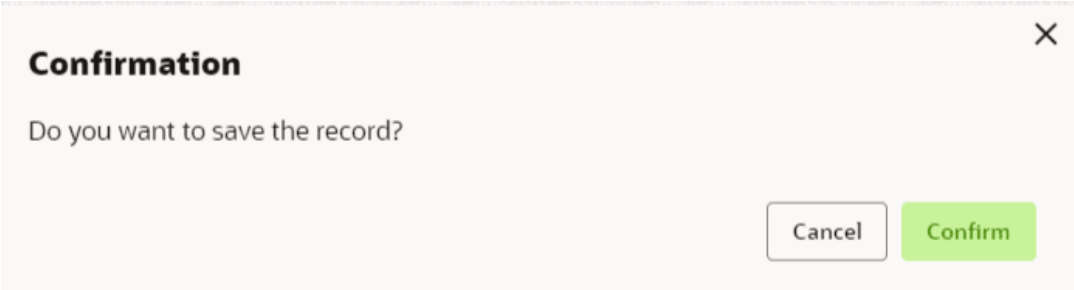
Table 3-111 Add Environment Variable - Field Description

Field	Description
Name	Specify the name of the environment variable. **Note:** • Enter 0 to maximum of 255 characters. • No numeric value at beginning and no space allowed.
Value	Specify the value of the environment variable. The value can either be hard coded or Velocity mapping.

6. Click **Save** to save the details.

   The **Confirmation** screen is displayed.

Figure 3-121 Confirmation - Add Service Consumers



7. Click **Confirm** to save the record.

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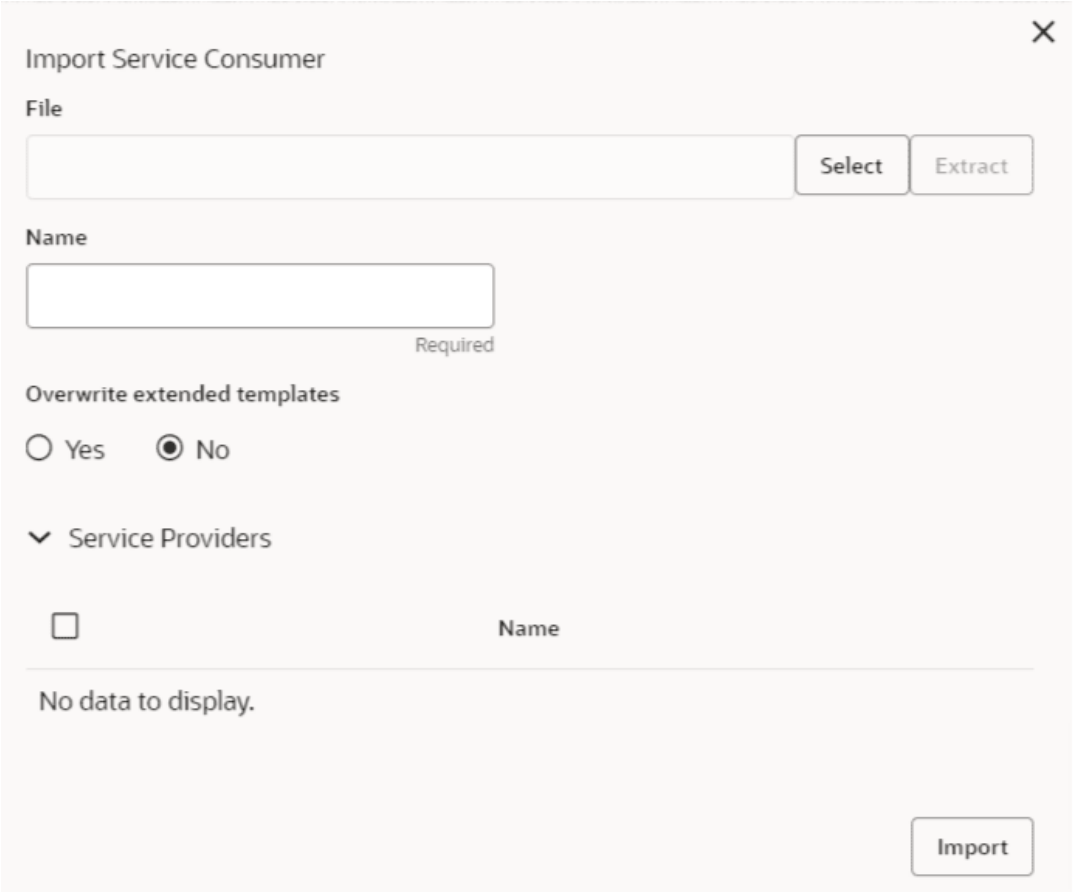
Import Service Consumer

8. Click **Import**.

   The **Import Service Consumer** screen is displayed.

Figure 3-122 Import Service Consumer



9. Specify the fields on the **Import Service Consumer** screen and click **OK**.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 3-112 Import Service Consumer - Field Description

Field	Description
File	Select the file using **Select**. **Note:** Allows only to select one file and accepts only JSON file.
Extract	Extracts the consumer name and service provider list from JSON file and displays it in the respective elements.

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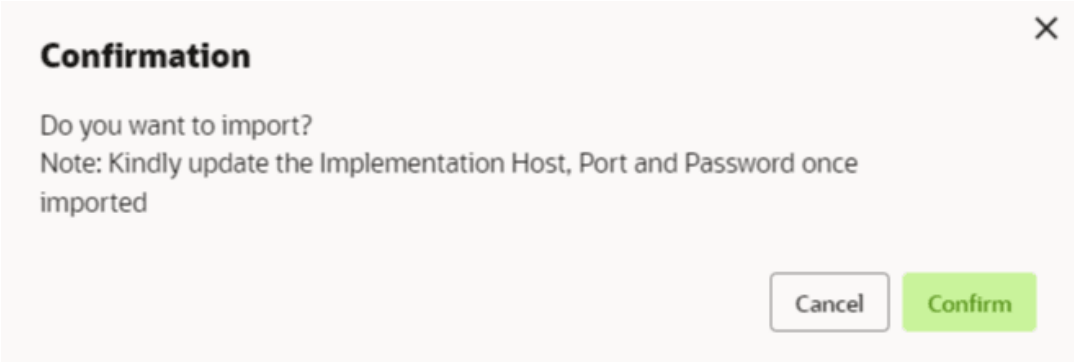
Table 3-112 (Cont.) Import Service Consumer - Field Description

Field	Description
Name	Specify the name of the service provider. **Note:** • Enter 0 to maximum of 255 characters. • No numeric value at beginning and no space allowed.
Name	Displays the list of service providers names that are present in JSON file.

10. Click **Import** to import the selected file.

    The **Confirmation** screen is displayed.

Figure 3-123 Confirmation - Import Service Consumer



11. Click **Confirm** to import the service consumer.

> **Note**
>
> Below data needs to be changed after importing provider configuration file:
>
> - Implementation Host and Port
> - Implementation Authentication Password

View Service Consumer

12. Click ⋮ and click **View**.

    The **View Service Consumer** screen is displayed.

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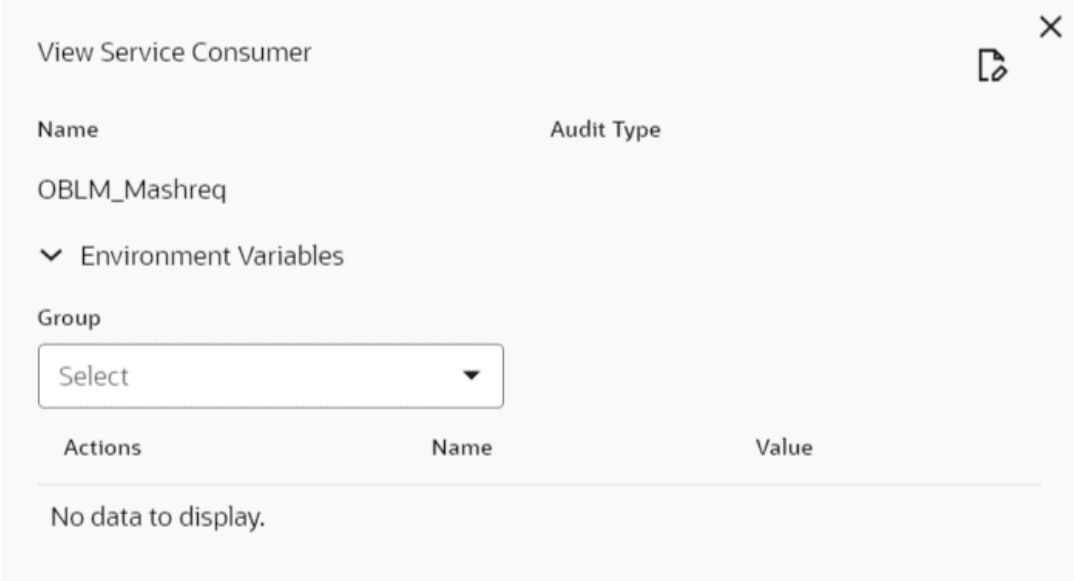
Figure 3-124 View Service Consumer



The user can click edit button to edit the **Service Consumer**.

Edit Service Consumer

13. Click ⋮ and click **Edit**.

    The **Edit Service Consumer** screen is displayed.

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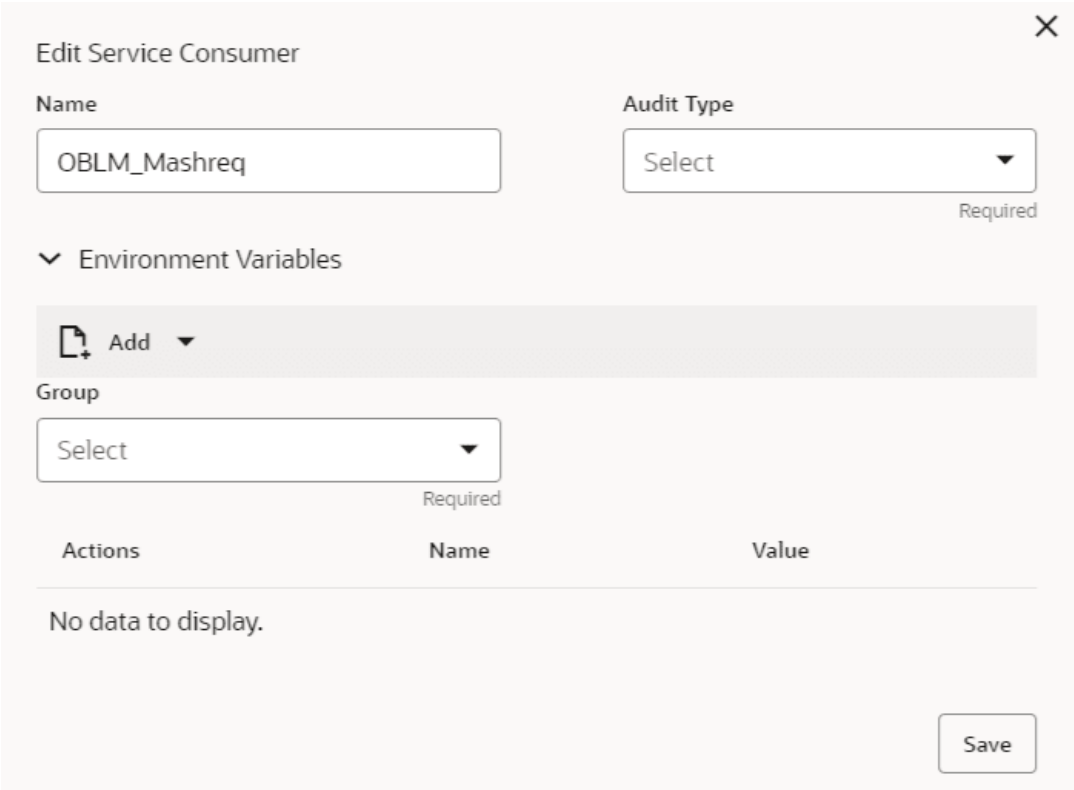
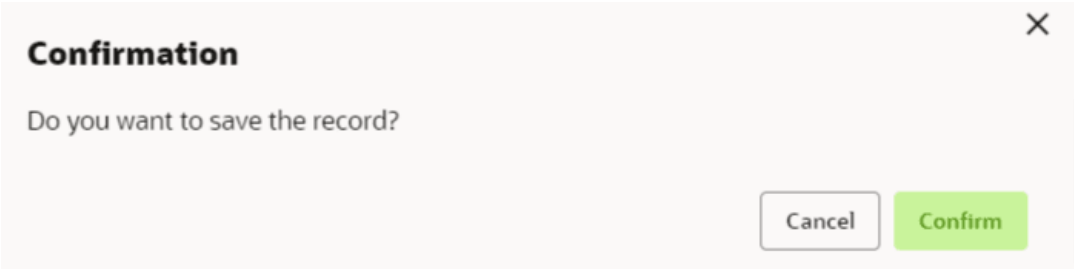
Figure 3-125 Edit Service Consumer



14. Click **Save** to save the details.

    The **Confirmation** screen is displayed.

Figure 3-126 Confirmation - Edit Service Consumer



15. Click **Confirm** to save the record.

Delete Service Consumer

16. Click ⋮ and click **Delete**.

    The **Confirmation** screen is displayed.

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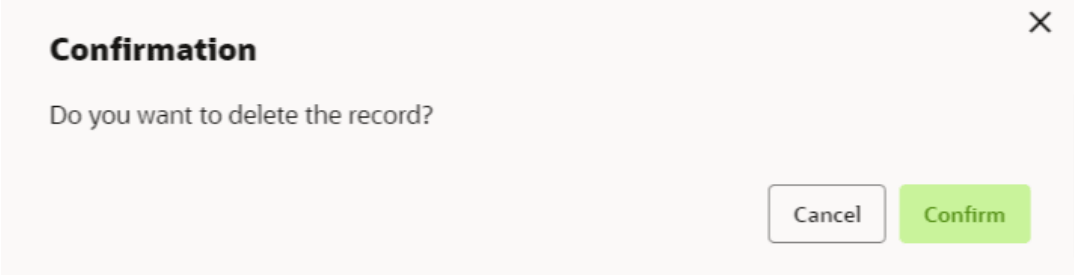
Figure 3-127 Confirmation - Delete Service Consumer



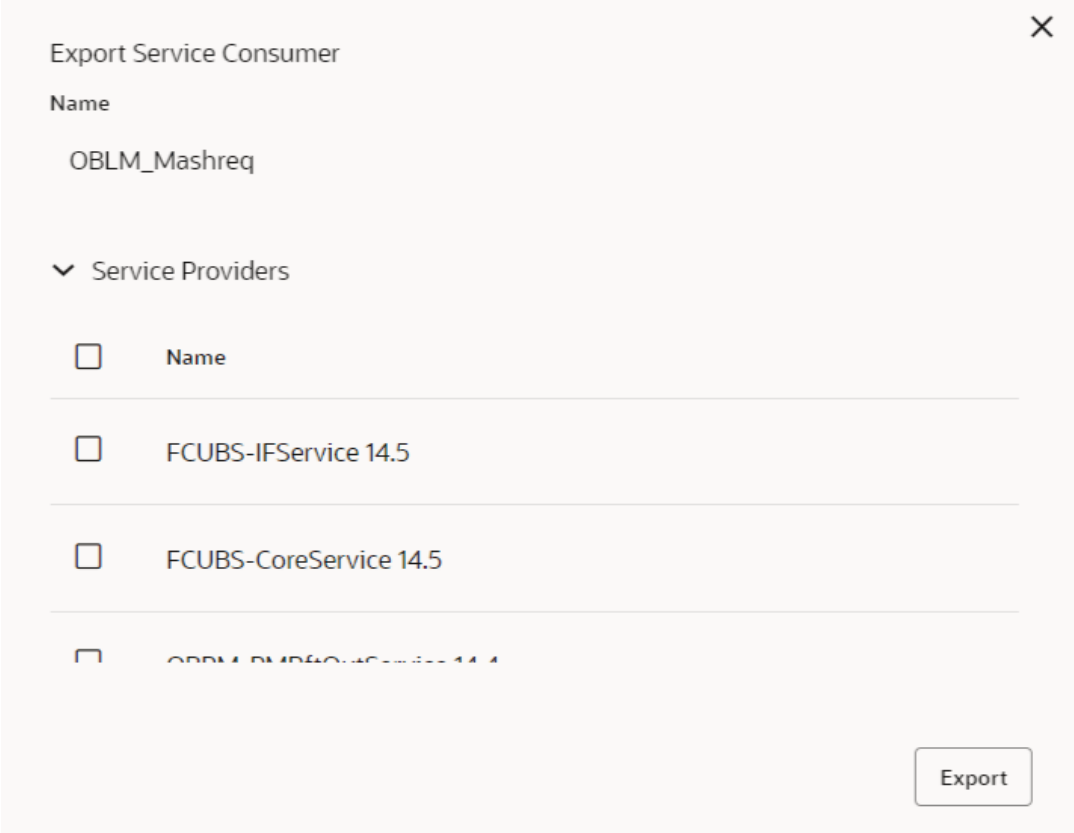
17. Click **Confirm** to delete the record.

Export Service Consumer in JSON

18. Click ⋮ and click **Export**. Select **JSON**.

    The **Export Service Consumer** screen is displayed.

Figure 3-128 Export Service Consumer - JSON



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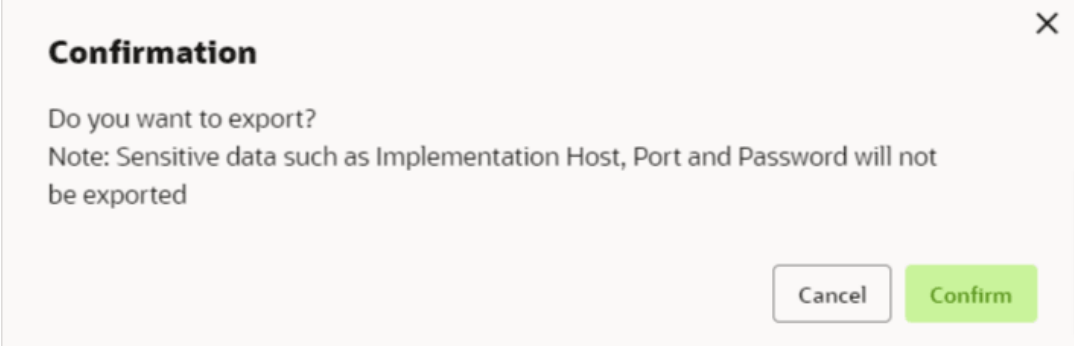
> **Note**
>
> - The user has an option to select service providers from the list which needs to be exported or can click on select all for all service providers.
> - The JSON Export feature exports below data:
> - Selected service consumer
> - All consumer services
> - Selected service providers with services
> - Default implementation of selected service providers with services (without Host, Port and Authentication Password)
> - Default transformations
> - All default implementation routes

19. Select the required service providers and click **Export**.

    The **Confirmation** screen is displayed.

Figure 3-129 Confirmation - Export Service Consumer in JSON



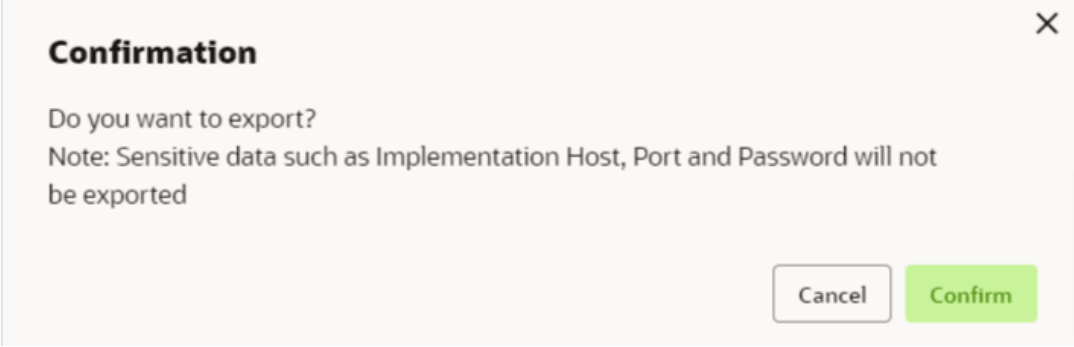
20. Click **Confirm** to export in JSON.

Export Service Consumer in SQL

21. Click **Export** and select **SQL**.

    The **Confirmation** screen is displayed.

Figure 3-130 Confirmation



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> **Note**
>
> The SQL Export feature exports entire configuration without Host, Port, and Authentication Password details.

22. Click **Confirm** to export the Service Consumer in SQL.

3.19.1.2 Service Providers

This topic describes the systematic instructions to configure the service providers.

The **Service Providers** are the product processors configure to process request send by oracle banking routing hub on behalf of service consumers. It comprises of the destination integration details.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Routing Hub**.
2. Under **Routing Hub**, click **Service Consumers**.
3. On **Service Consumers** screen, click the required service consumer.

   The **Service Providers** screen is displayed.

Figure 3-131 Service Providers

To Add Service Provider

4. Click **Add**.

   The **Add Service Provider** screen is displayed.

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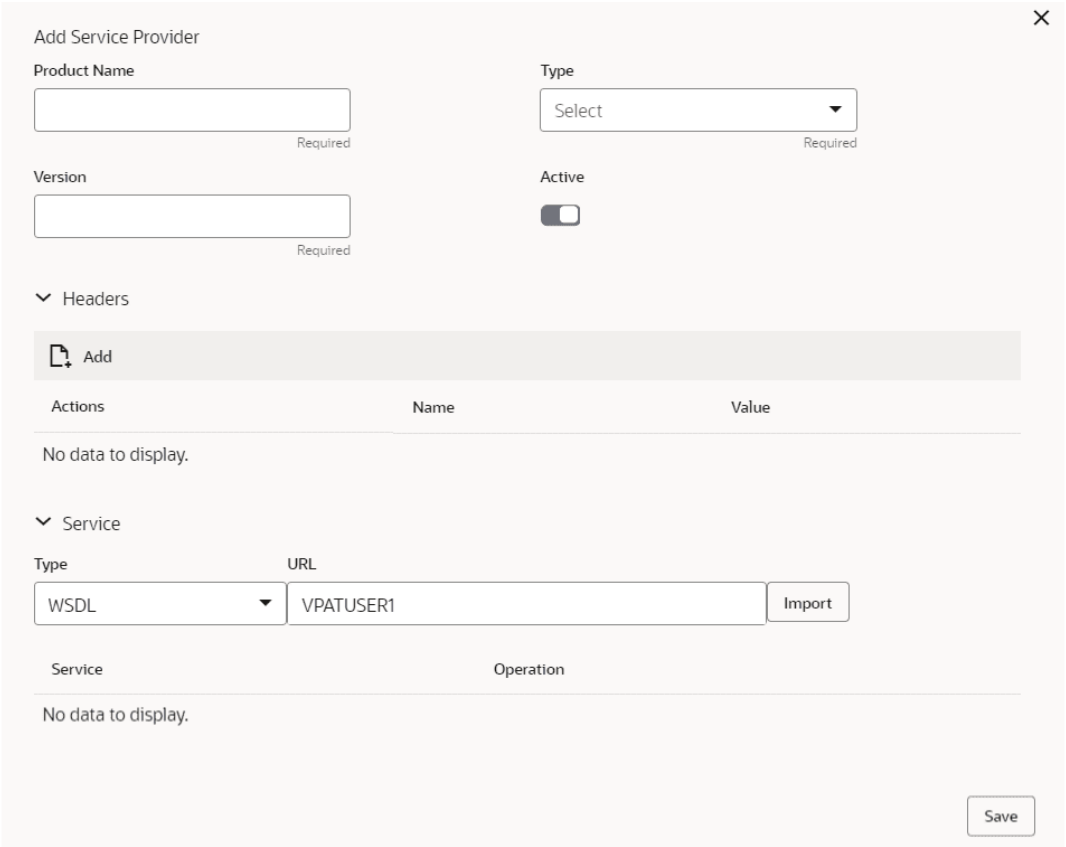
Figure 3-132 Add Service Provider



5. Specify the fields on the **Add Service Provider** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 3-113 Add Service Provider - Field Description

Field	Description
Product Name	Specify the product name of the service provider. **Note**: • Enter 0 to maximum of 255 characters. • No numeric value at beginning and no space allowed.
Type	Select the type of service provider from drop-down list The available options are: • **INTERNAL** • **EXTERNAL**
Version	Specify the provider version. **Note**: • Enter 0 to maximum of 255 characters. • Only numeric or decimal values are allowed.

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Table 3-113 (Cont.) Add Service Provider - Field Description

Field	Description
Active	Predefined values are Active / Inactive If a provider is marked as inactive, the system will stop all related routes.
Add	To add, refer to step 4.
Actions	Displays the action. The user can edit or delete the header.
Name	Displays the name of the header.
Value	Displays the value of the header.
Type	Select the type of service from the drop-down list. The available options are: • **WSDL** • **SWAGGER**
URL	Specify the service URL of the file location.
Import	Click **Import** to extract the service information from URL.
Service	Displays the extracted service from the selected URL.
Operation	Displays the extracted operation from the selected URL.

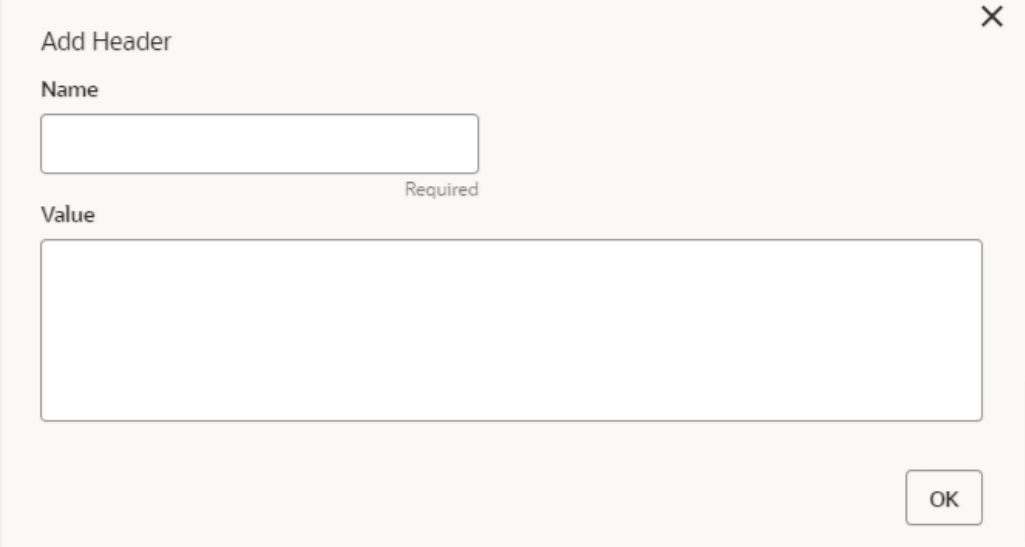
Headers

External product processor might require some standard headers to be passed along with the request. User can specify the headers which are required by service endpoints for its all implementations but not present in swagger file.

6. To add **Headers**, follow below steps.
   a. Click **Add**.

      The **Add Header** screen is displayed.

Figure 3-133 Add Header



   b. Specify the fields on the **Add Header** screen and click **OK**.

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> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

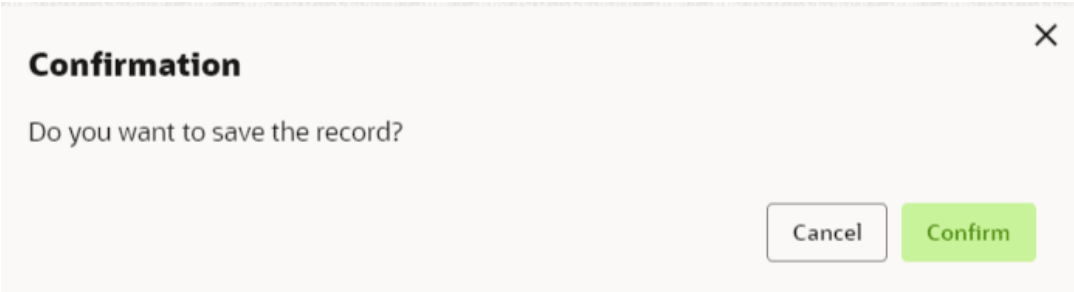
Table 3-114 Add Header - Field Description

Field	Description
Name	Specify the name of the header.
Value	Specify the value of the header.

7. Click **Save** to save the details.

   The **Confirmation** screen is displayed.

Figure 3-134 Confirmation



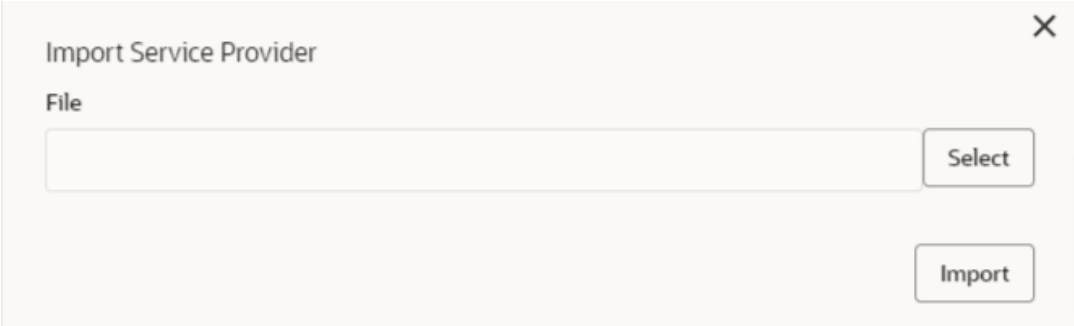
8. Click **Confirm** to save the record.

Import Service Provider

9. Click **Import**.

   The **Import Service Provider** screen is displayed.

Figure 3-135 Import Service Provider



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> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

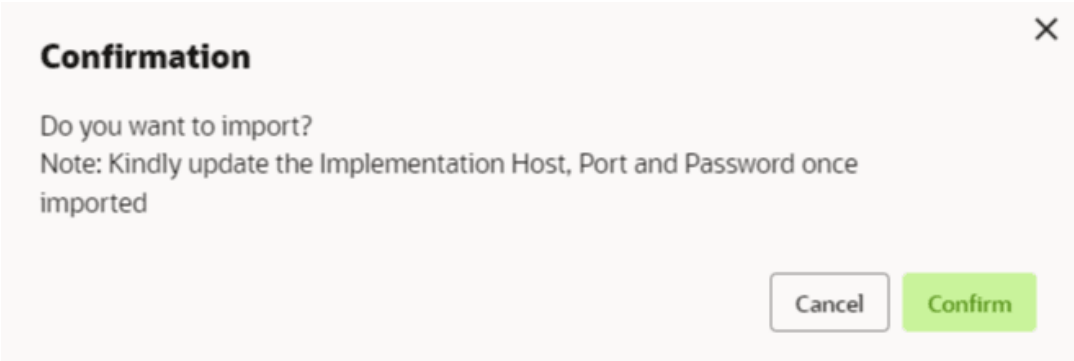
Table 3-115 Import Service Provider - Field Description

Field	Description
File	Select the file using **Select** button. **Note**: Allows only to select one file and accepts only JSON file.

10. Click **Import** to import the selected file.

    The **Confirmation** screen is displayed.

Figure 3-136 Confirmation - Import



> **Note**
>
> Below data needs to be changed after importing provider configuration file:
>
> - Implementation Host and Port
> - Implementation Authentication Password

11. Click **Confirm** to import the record.

View Service Provider

12. Click ⋮ and click **View**.

    The **View Service Provider** screen is displayed.

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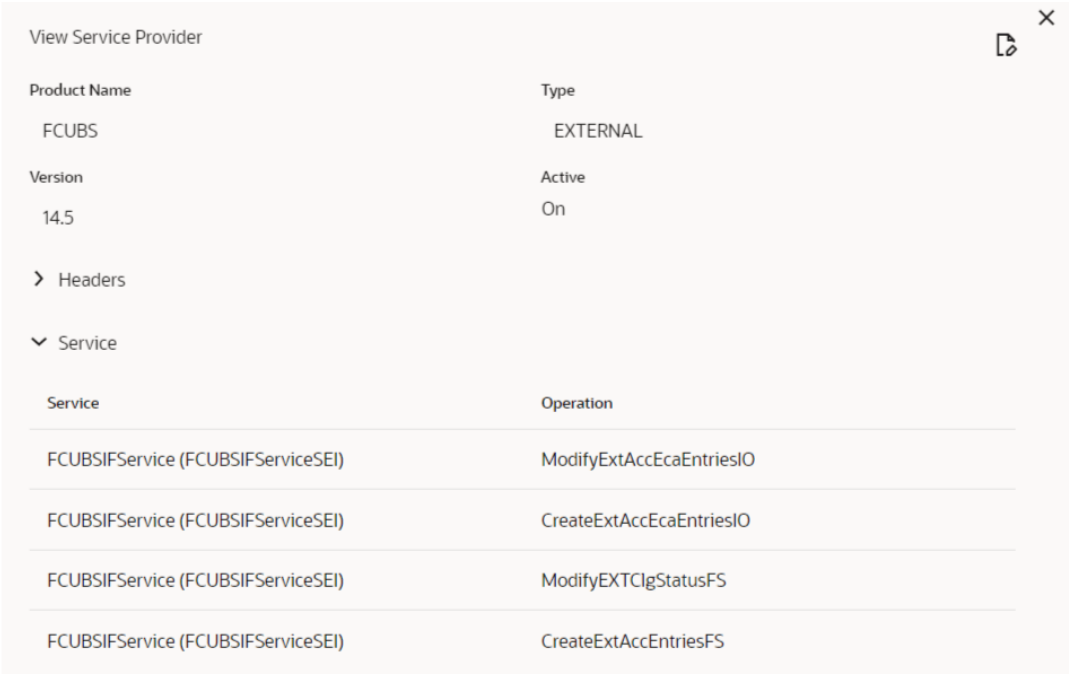
Figure 3-137 View Service Provider



The user can click edit button to edit the **Service Provider**.

Edit Service Provider

13. Click ⋮ and click **Edit**.

    The **Edit Service Provider** screen is displayed.

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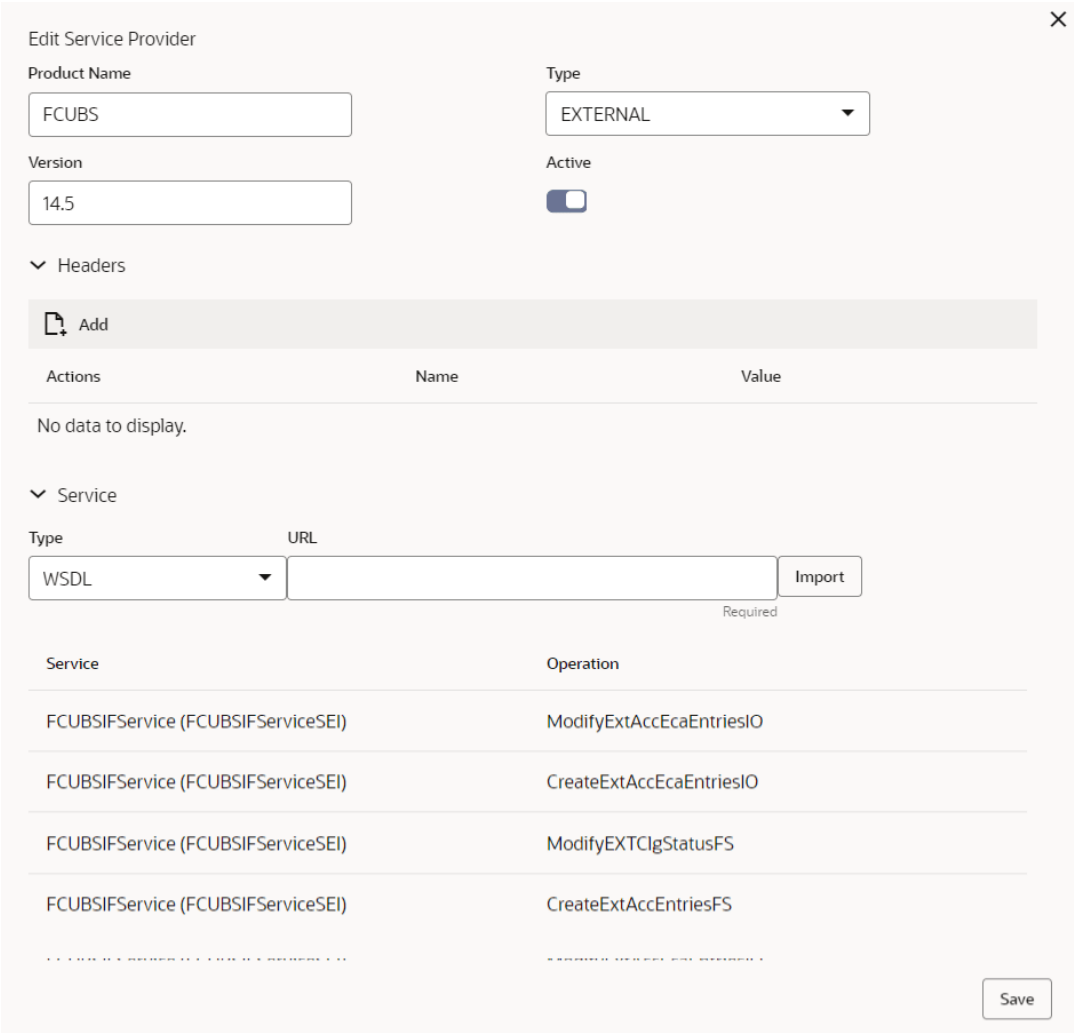
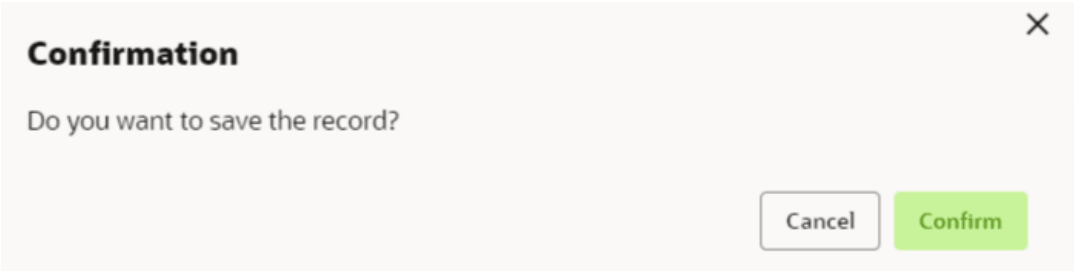
Figure 3-138 Edit Service Provider



14. Click **Save** to save the details.

    The **Confirmation** screen is displayed.

Figure 3-139 Confirmation - Edit Service Provider



15. Click **Confirm** to save the record.

Delete Service Provider

16. Click ⋮ and click **Delete**.

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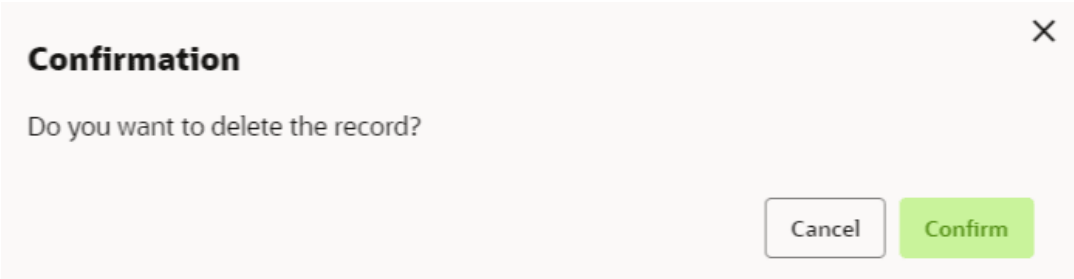
The **Confirmation** screen is displayed.

Figure 3-140 Confirmation - Delete Service Provider



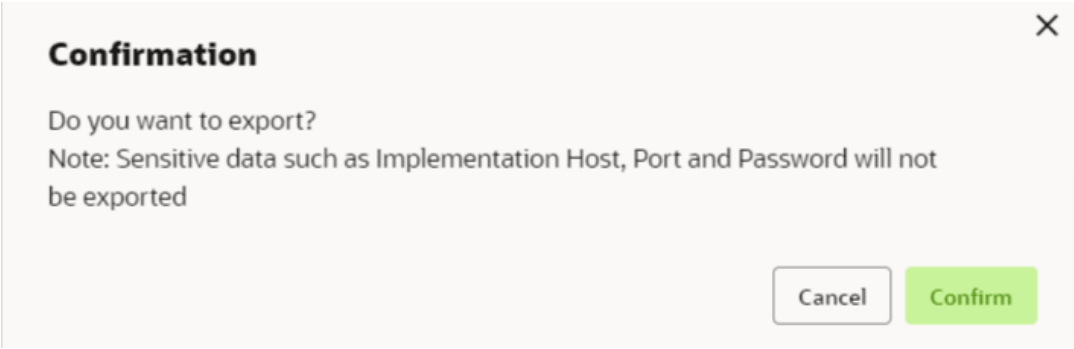
17. Click **Confirm** to delete the record.

Export Service Provider

18. Click ⋮ and click **Export**.

    The **Confirmation** screen is displayed.

Figure 3-141 Confirmation - Export Service Provider



> **Note**
>
> The following data cannot be exported:
>
> - Implementation Host
> - Implementation Port
> - Implementation Authentication Password
>
> The above data needs to be configured manually after importing the configuration file. Same has been mentioned in Import section.

19. Click **Confirm** to export the record.

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3.19.2 Oracle Banking Origination to Decision Service Configuration

This topic describes the information about Oracle Banking Origination to Decision Service Configuration

This topic contains the following subtopics:

- Fetch Credit Decision
  This topic describes about the figures for the fetch credit decision.

3.19.2.1 Fetch Credit Decision

This topic describes about the figures for the fetch credit decision.

Figure 3-142 Fetch Credit Decision – Header

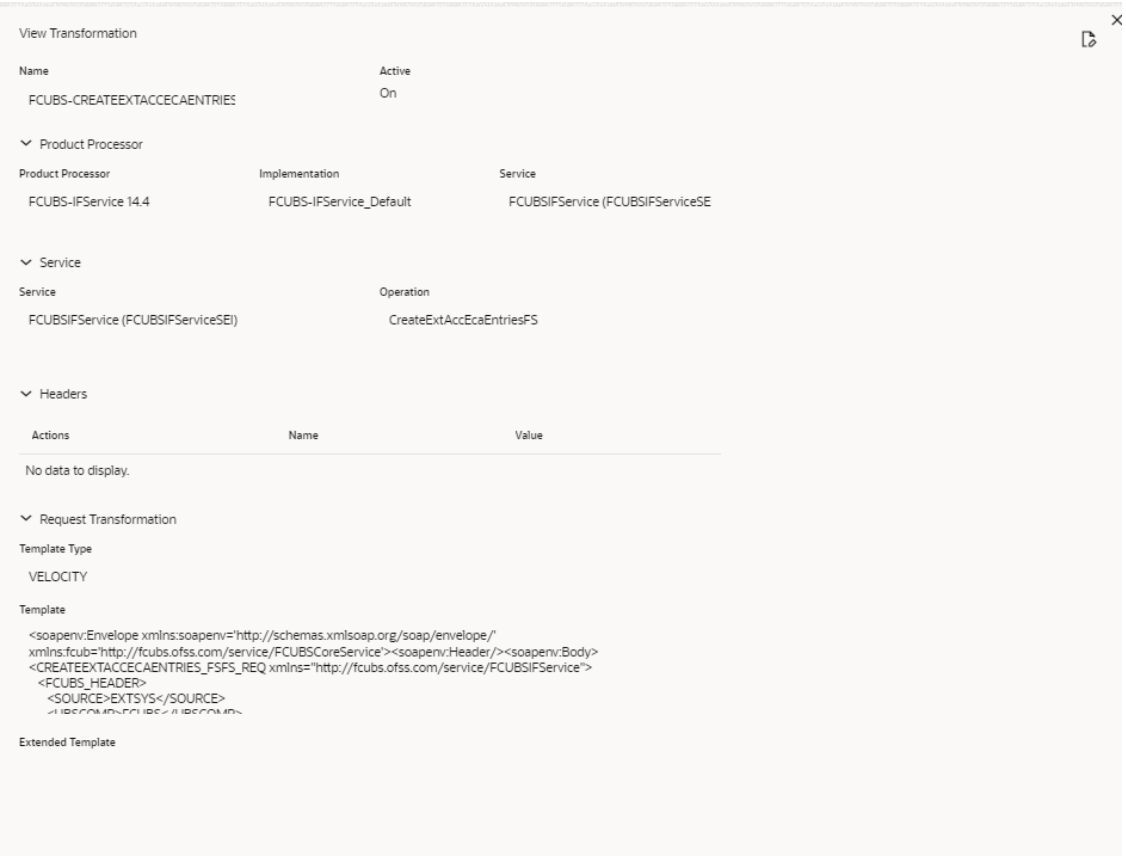

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Figure 3-143 Fetch Credit Decision – Transformation

View Transformation

Name	Active
TRANSFORMATION1	On

Product Processor

Product Processor	Implementation
EXPERIAN 14.4	EXPERIAN_Default

Service

CreditReports - /v2/credit-report

Service

Service	Operation
POST /consumerservices/credit-profile/v2/credit-report	CreditReports

Headers

Actions	Name	Value
⋮	Accept	application/json
⋮	Authorization	Bearer $body.access_token
⋮	clientReferenceId	SBMYSQL

Path Parameters

Actions	Name	Value
No data to display.		

Query Parameters

Actions	Name	Value
No data to display.		

Request Transformation

Body Type	Template Type
RAW	VELOCITY

Template

```
{
    #set($body = $snapshot.get(0).body)
    "consumerPii": {
        "primaryApplicant": {
            "name": {
```

Extended Template

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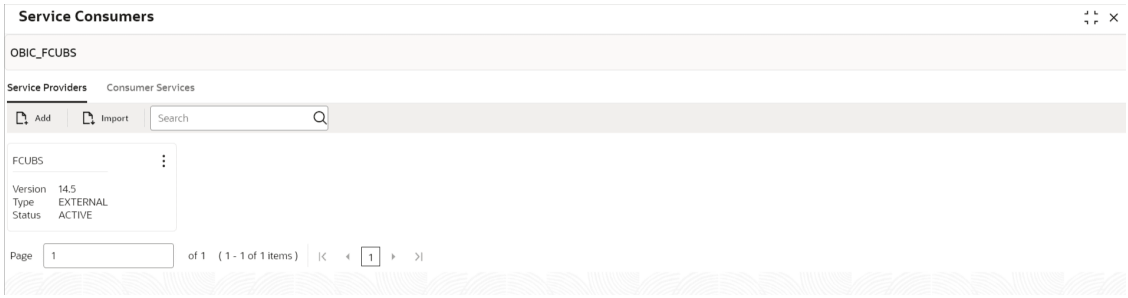
Figure 3-144 Consumer Services



3.20 Relationship Pricing

This topic describes about the information on relationship pricing.

Pricing Decision service (PDS) in its vanilla flavor offered charges, pricing and decisioning capability using only the facts passed by the product processor in the payload. With relationship pricing, PDS becomes capable to price based on attributes related to the customer's relationship with the bank. PDS can retrieve such attributes (facts) on its own and can use these in addition to the ones passed by the product processor. The facts can be either retrieved online from other modules or can be fetched from its local store. Currently, relationship pricing sources does not perform complex calculations using these attributes. It stores them and makes them available as features and facts in RP models.

The module has been enhanced with various ingestion mechanisms to populate its local store. The store is flexible, extensible and has an efficient entity-based model. Bank can create new aggregates and configure attribute retrievals using mechanisms such as events, API calls and bulk data transfers. The next few sections describe the mechanisms of creating aggregates, the facts and the data retrieval configurations.

Aggregate Configuration describes creating metadata for holding aggregate data.

For example – When a **Party** aggregate is created using the screen, it creates a table to hold the Party data. Multiple aggregate tables can be created to hold facts pertaining to the aggregate, that are then used in Relationship rules.

Parse Configuration and **Execution Configuration** describe the creation of configurations for online retrieval of information. Example – In an online manual disbursement execution, if savings account attributes are required to be fetched, RP looks up these configurations to retrieve data online. From the disbursement payload, it is possible to fetch the partyid and then lookup the party service online to fetch party attributes. **Execution Configuration** describes the step sequence of calls needed and **Parse Configuration** describes the mechanism in each step. These sequences and the steps are loosely coupled and can be assembled dynamically to wire various data retrievals.

Relationship Pricing Configuration configures the data retrieval mechanisms for a particular RP execution. Example – For an online manual disbursement transaction, likely data sources could be:

- Latest savings account balances online from OBA services
- Transaction counters
- Local RP party data

For example – For late fees computation, likely data sources could be:

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- Transaction counters
- Local RP party data
- Local aggregate balances from accounts held by the party

Finally, **Transport Fact Mapping** describes the configuration needed to do bulk population of the aggregate data into the tables created using **Aggregate Configuration**. For example – bulk population of payment data into the **Payment** table created.

This topic contains the following subtopics:

- Aggregate
  This topic describes the information about the aggregate feature.
- Parse Configuration
  This topic describes the information about the parse configuration feature.
- Execution Configuration
  This topic describes the information about the execution configuration feature.
- RP Online Configuration
  This topic describes the information about the relationship pricing configuration.
- Transport Fact Mapping
  This topic describes the information about the transport fact mapping feature.
- Create Event Data
  This topic describes the systematic instructions on creating event data.
- Create Transport Sources
  This topic describes the systematic instructions to dynamically create and manage source tables by uploading schemas and test data using Create Transport Sources screen.
- Dynamic Topic Subscription
  This topic describes the systematic instructions to subscribe or manage dynamic event topics.
- Configuring a Relationship Pricing Example
  This topic walks through a coarse-grained example of a relationship pricing (RP) use case.

3.20.1 Aggregate

This topic describes the information about the aggregate feature.

This maintenance can be used to create aggregates like Party, Account etc. This maintenance will dynamically create FACTS tables for a particular aggregate (domain) which will eventually hold RP facts for that aggregate. User just needs to enter the entity name, entity id and relationships with other aggregates. This maintenance creates a blueprint for the facts tables. On save of this maintenance, a table with the value in “TABLE_NAME” will be dynamically created with columns ID, entity id (entity_name + “ID”), FACT_NAME, FACT_VALUE, PPR_CODE, TXN_REF_NO. The facts in these tables will be part of local RP store of facts.

This topic contains the following subtopics:

- Create Aggregate Configuration
  This topic describes the systematic instructions to create aggregate by updating various details.
- View Aggregate Configuration
  This topic describes the systematic instructions to view the aggregate.

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3.20.1.1 Create Aggregate Configuration

This topic describes the systematic instructions to create aggregate by updating various details.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Credit Decision**.
2. Under **Credit Decision**, click **Maintenance**. Under **Maintenance**, click **Aggregate Configuration**, then click **Create Aggregate Configuration**.

   The **Create Aggregate Configuration** screen is displayed.

Figure 3-145 Create Aggregate Configuration

3. Specify the fields on the **Create Aggregate Configuration** screen.

   > **Note**
   >
   > The fields marked as **Required** are mandatory.

   For more information on fields, refer to the field description table.

Table 3-116 Create Aggregate Configuration - Field Description

Field	Description
Aggregate Name	Specify the name of the aggregate being created.
Aggregate ID	Specify the aggregate ID associated with the aggregate.
Relationship	Specify the list of existing Aggregates (existing entity name) to which a relationship exists.
Table Name	Displays the auto generated from given Entity Name.
Table ID	Displays the auto generated from given Entity Name.

4. Perform one of the following action:
   - Click **Save** to save the details.
     The **Create Aggregate Configuration** is successfully created and can be viewed using the View Aggregate Configuration screen.

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- Click **Cancel** to discard the changes and close the screen.

3.20.1.2 View Aggregate Configuration

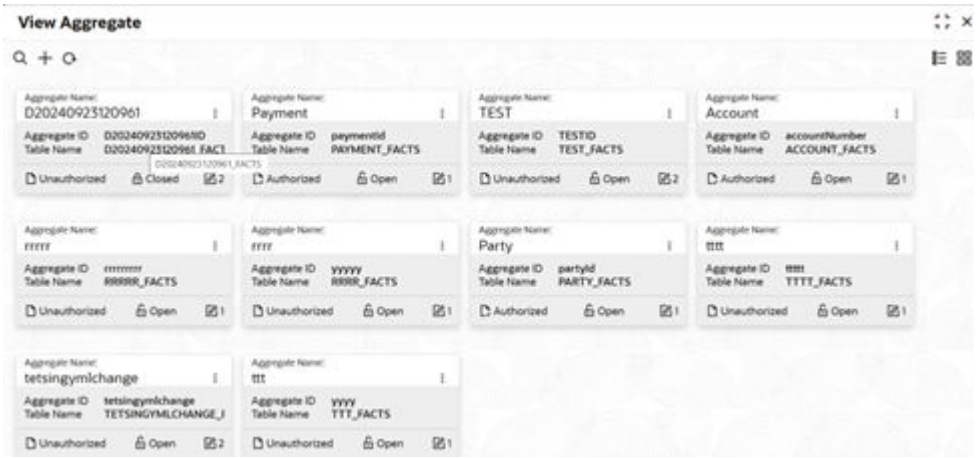
This topic describes the systematic instructions to view the aggregate.

The user can configure the aggregate using the Create Aggregate Configuration screen. The status of the created aggregate is displayed as Unauthorized and Open. Once the checker authorizes the aggregate , the status is updated to Authorized and Open.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Credit Decision**.
2. Under **Credit Decision**, click **Maintenance**. Under **Maintenance**, click **Aggregate Configuration**, then click **View Aggregate Configuration**.

   The **View Aggregate Configuration** screen is displayed.

Figure 3-146 View Aggregate Configuration



For more information on fields, refer to the field description table.

Table 3-117 View Aggregate Configuration - Field Description

Field	Description
Aggregate Name	Displays the name of the aggregate being created.
Aggregate ID	Displays the aggregate ID associated with the aggregate.
Table Name	Displays the auto generated from given entity name.
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

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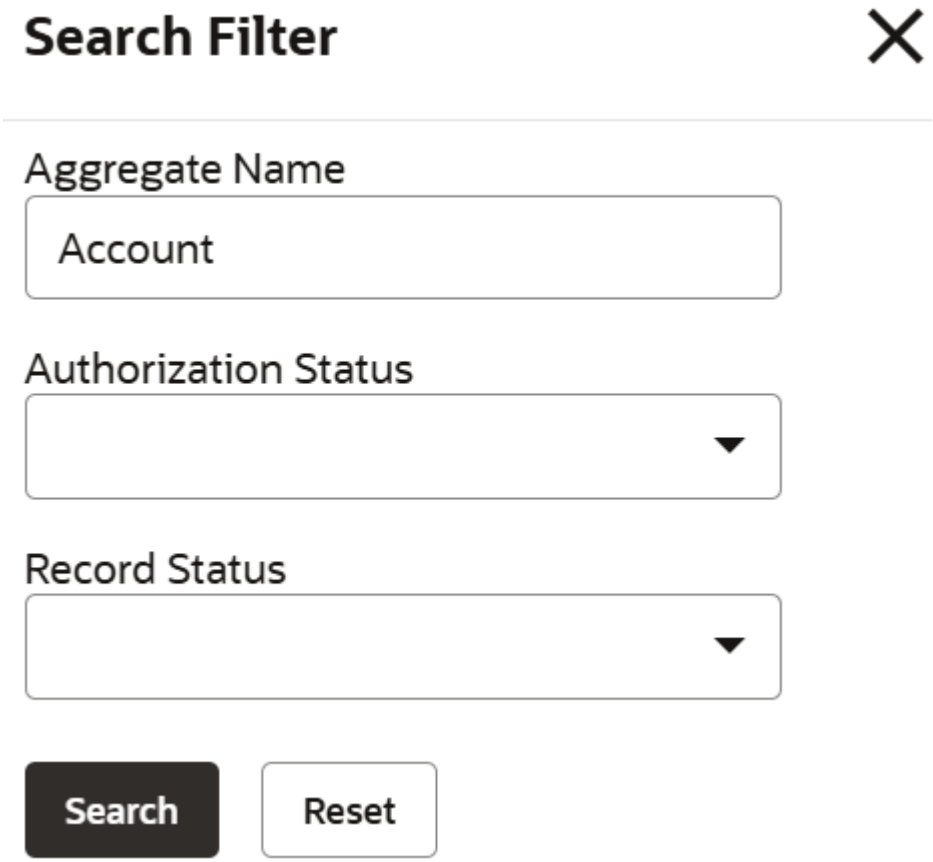
3. On the **View Aggregate Configuration** screen, click icon.

   The **View Aggregate Configuration - Search** screen is displayed.

Figure 3-147 View Aggregate Configuration - Search



4. On the **View Aggregate Configuration - Search** screen, specify the **Search Filter** to fetch the required aggregate configuration.

   For more information on fields, refer to the field description table.

Table 3-118 View Aggregate Configuration - Search – Field Description

Field	Description
Aggregate Name	Specify the aggregate code name.
Authorization Status	Select the authorization status from the drop-down list. The available options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Select the record status from the drop-down list. The available options are: • **Open** • **Closed**

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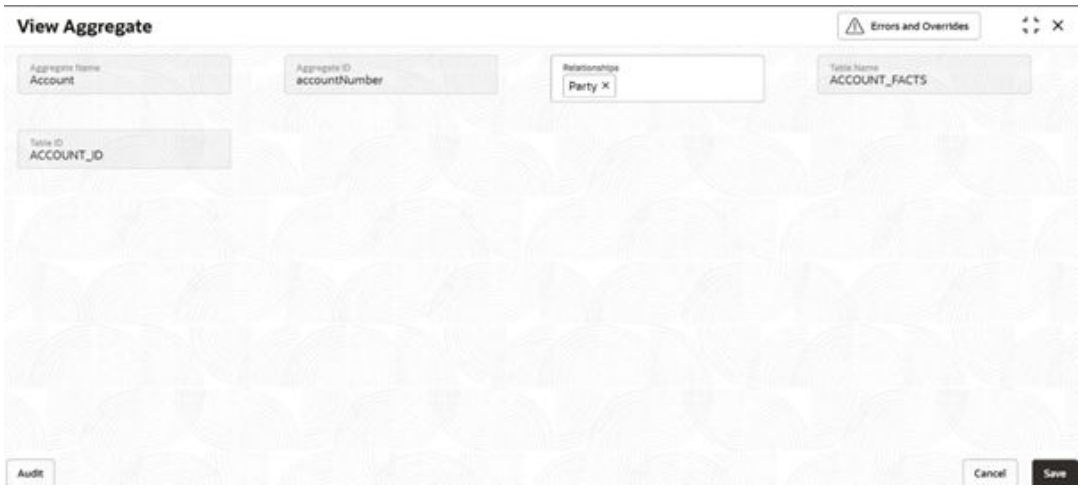
5. Click **Search** to display the required aggregate configuration.
6. On the **View Aggregate Parameter** screen, click ⋮ icon to **Unlock**, **Delete**, **Authorize** or **View** the created configurations.
7. Click **Unlock** to modify the created aggregate configuration.

   The **Aggregate Maintenance - Modify** screen is displayed.

Figure 3-148 Aggregate Maintenance - Modify



For more information on fields, refer to the field description table.

Table 3-119 Aggregate Maintenance - Modify - Field Description

Field	Description
Aggregate Name	Displays the created aggregate name.
Aggregate ID	Displays the created aggregate ID.
Relationship	Displays the separated list of existing aggregates(existing entity name) to which a relationship exists. User can modify the same.
Table Name	Displays the table name.
Table ID	Displays the table ID.

8. Click **Save** to save the details.
9. Click **View** to view the created aggregate configuration.

   The **Aggregate Maintenance - View** screen is displayed.

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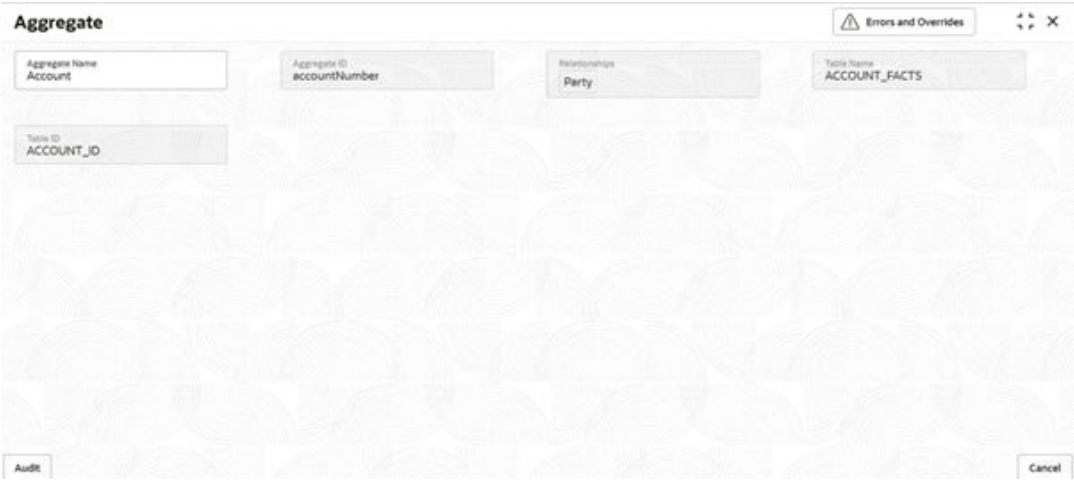
Figure 3-149 Aggregate Maintenance - View



For more information on fields, refer to the field description table.

Table 3-120 Aggregate Maintenance - View - Field Description

Field	Description
Aggregate Name	Displays the created aggregate name.
Aggregate ID	Displays the created aggregate ID.
Relationship	Displays separated list of existing aggregates(existing entity name) to which a relationship exists.
Table Name	Displays the table name.
Table ID	Displays the table ID.

3.20.2 Parse Configuration

This topic describes the information about the parse configuration feature.

If facts are to be extracted from the payload sent by the user or from response received from some previous **Retrieve**, this configuration can be used. Need the xpath of the field that needs to be parsed and the fact name to which this value will be assigned. After parsing is done, the dictionary array will be enriched by such facts.

This topic contains the following subtopics:

- Create Parse Configuration
  This topic describes the systematic instructions on configuration of parse.
- View Parse Configuration
  This topic describes the systematic instructions to view the parse configuration.

3.20.2.1 Create Parse Configuration

This topic describes the systematic instructions on configuration of parse.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Credit Decision**.

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2. Under **Credit Decision**, click **Maintenance**. Under **Maintenance**, click **Parse Configuration**, then click **Create Parse Configuration**.

   The **Create Parse Configuration** screen is displayed.

Figure 3-150 Create Parse Configuration

3. Specify the fields on the **Create Parse Configuration** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 3-121 Create Parse Configuration - Field Description

Field	Description
Parse Configuration ID	Specify the unique parse configuration ID.
Parse Configuration Name	Specify the description for the parse configuration ID.
Parse Configuration Type	Select the type from the drop-down list. The available options are: • **Input** • **Output**
Product Processor	Select the product processor from the drop-down list.
Fact Mapping Configuration ID	Specify the unique fact mapping configuration ID.
Fact Name	Click the **Search** icon and select the fact name from the list.
Fact Value X Path	Specify the xpath to fetch the fact value.
Action	Click the icons to edit or delete the record.

4. Perform one of the following action:
   - Click **Save** to save the details.
     The **Create Parse Configuration** is successfully created and can be viewed using the View Parse Configuration screen.
   - Click **Cancel** to discard the changes and close the screen.

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3.20.2.2 View Parse Configuration

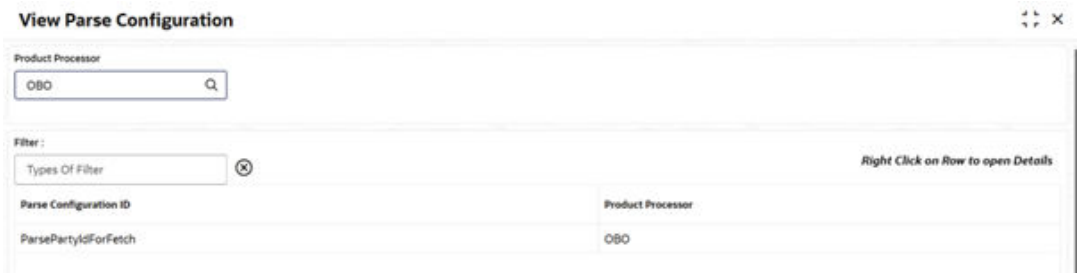
This topic describes the systematic instructions to view the parse configuration.

The user can configure the Create Parse Configuration screen. The status of the created parse configuration is displayed as Unauthorized and Open. Once the checker authorizes the parse configuration, the status is updated to Authorized and Open.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Credit Decision**.
2. Under **Credit Decision**, click **Maintenance**. Under **Maintenance**, click **Parse Configuration**, then click **View Parse Configuration**.

   The **View Parse Configuration** screen is displayed.

   Figure 3-151 View Parse Configuration



For more information on fields, refer to the field description table.

Table 3-122 View Parse Configuration - Field Description

Field	Description
Product Processor	Select the product processor from the drop-down list for which configuration is being created
Parse Configuration ID	Specify the unique parse configuration ID.

3. On the **View Parse Configuration** screen, specify the **Search Filter** to fetch the required parse configuration.
4. Right click on the table and select **View Details** to view the parse configuration.

   The **Parse Configuration - View** screen is displayed.

   Figure 3-152 Parse Configuration - View

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For more information on fields, refer to the field description table.

Table 3-123 Aggregate Maintenance - View - Field Description

Field	Description
Parse Configuration ID	Displays the parse configuration ID.
Parse Configuration Name	Displays the parse configuration name.
Parse Configuration Type	Displays the configuration type. User can modify the same.
Product Processor	Displays the processor.
Fact Mapping Configuration ID	Displays the mapping configuration ID.
Fact Name	Displays the fact name.
Fact Value X Path	Displays the xpath of the fact value.

3.20.3 Execution Configuration

This topic describes the information about the execution configuration feature.

Multiple parse and retrieves can be chained together. This chaining is maintained in this maintenance. For example, user can chain a parse and retrieve. Output of a parse configuration can be used as an input to another retrieve through this configuration.

This topic contains the following subtopics:

- Create Execution Configuration
  This topic describes the systematic instructions on configuration on execution.
- View Execution Configuration
  This topic describes the systematic instructions to view the execution configuration.

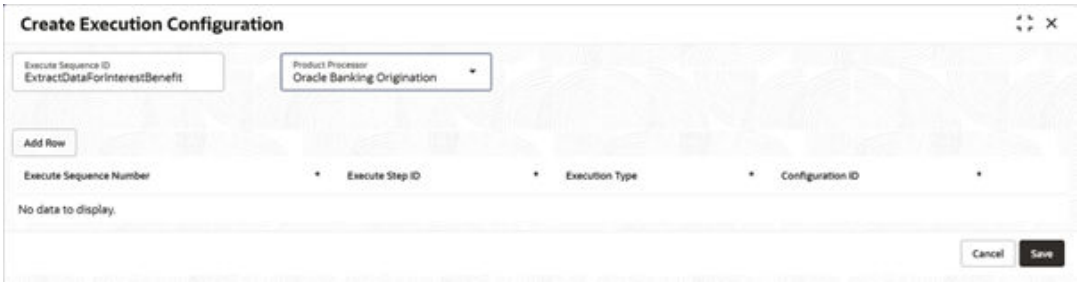
3.20.3.1 Create Execution Configuration

This topic describes the systematic instructions on configuration on execution.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Credit Decision**.
2. Under **Credit Decision**, click **Maintenance**. Under **Maintenance**, click **Execution Configuration**, then click **Create Execution Configuration**.

   The **Create Execution Configuration** screen is displayed.

Figure 3-153 Create Execution Configuration



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3. Specify the fields on the **Create Execution Configuration** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

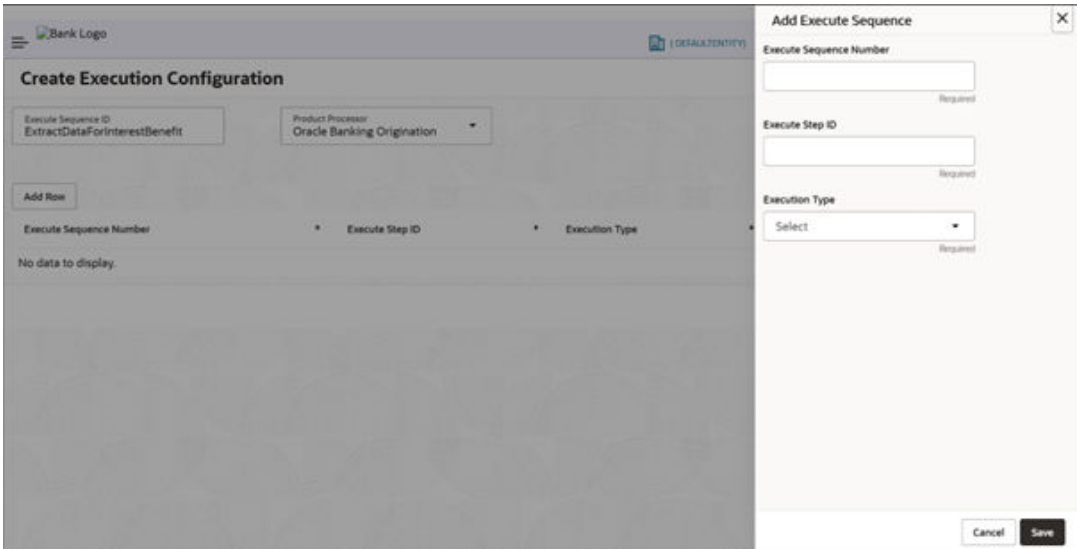
For more information on fields, refer to the field description table.

Table 3-124 Create Execution Configuration - Field Description

Field	Description
Execute Sequence ID	Specify the unique execute sequence ID.
Product Processor	Select the product processor from the drop-down list for which configuration is being created.
Execute Sequence Number	Specify the unique sequence number for the execute sequence table.
Execute Step ID	Specify the unique step ID for the execute sequence table.
Execution Type	Select the type from the drop-down list. The available options are: • **Parse** • **Retrieve** • **Store**

4. On the **Add Execute Sequence** screen, select the execution type to maintain the configuration.

Figure 3-154 Add Execute Sequence



5. Select the **Execution Type** as **Retrieve** and click **Create Retrieve Configuration** to provide the details or click **Existing Retrieve Configuration** and select the **Retrieve Configuration ID** from the list.

   The **Retrieve Configuration** screen is displayed.
   Facts can also be fetched from external domains by making rest calls. The configuration will store details like the type of rest call (GET/POST), service URL, service headers, query

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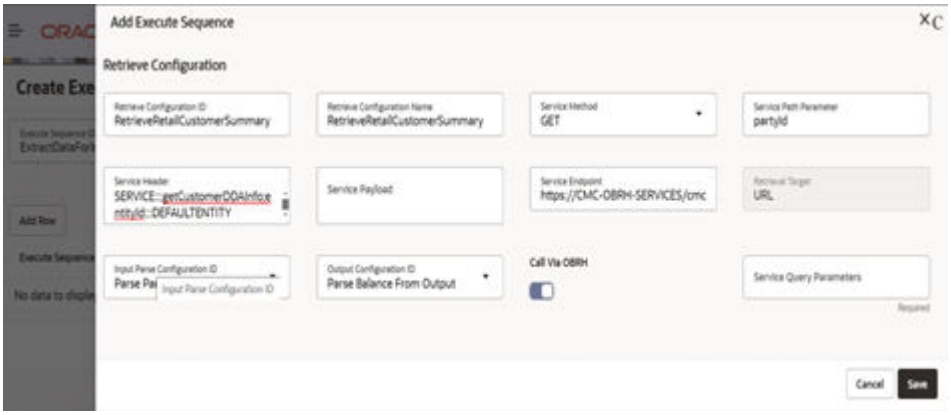
params, whether the call is happening via OBRH or not. This configuration also links a parse config id which will extract the facts from response.

Figure 3-155 Retrieve Configuration



For more information on fields, refer to the field description table.

Table 3-125 Retrieve Configuration - Field Description

Field	Description
Retrieve Configuration ID	Specify a unique Retrieval configuration ID.
Retrieve Configuration Name	Specify a unique name for the Retrieval configuration ID.
Service Method	Select the service method from the drop-down list. The available options are: • **GET** • **POST**
Service Path Parameter	Specify the list of path parameters, separated by #.
Service Header	Specify the list of service headers, format: (header1:::value1;header2:::value2).
Service Payload	Specify the request body, if any.
Service Endpoint	Specify the endpoint being configured.
Retrieval Target	Displays where to retrieve data from. The options are: • **URL** • **LOCALCACHE** • **COHERENCECACHE**
Input Configuration ID	Select the input parse configuration ID, used for parsing data needed for input.
Output Configuration ID	Select the output parse configuration ID, used for parsing response of API call.
Call via OBRH	Click the toggle status to check if the endpoint is configured via OBRH.
Service Query Parameter	Specify the list of query parameters, separated by #.

6. Select the **Execution Type** as **Parse** and click **Create Parse Configuration** to provide the details or click **Existing Parse Configuration** and select the **Configuration ID** from the list.

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The **Parse Configuration** screen is displayed.
For more information on parse configuration, refer

7. Select the **Execution Type** as **Store** and click **Create Store Configuration** to provide the details or click **Existing Store Configuration** and select the **Store Configuration ID** from the list.

   The **Store Configuration** screen is displayed.
   Store configuration can be used to store attributes that are parsed and/or retrieved into RP fact tables.

   Store configuration should be the last step in an execution sequence, and it should be preceded with at least a parse or retrieve configuration.

Figure 3-156 Store Configuration

For more information on fields, refer to the field description table.

Table 3-126 Store Configuration - Field Description

Field	Description
Store Configuration	Specify a unique Store configuration ID.
Store Configuration Name	Specify a unique name for the Store configuration ID.
Product Processor	Select the product processor from the drop-down list for which configuration is being created.
Aggregate	Select the attaching aggregate name to store configuration.

8. Perform one of the following action:
   - Click **Save** to save the details.
     The **Create Execution Configuration** is successfully created and can be viewed using the View Execution Configuration screen.
   - Click **Cancel** to discard the changes and close the screen.

3.20.3.2 View Execution Configuration

This topic describes the systematic instructions to view the execution configuration.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Credit Decision**.
2. Under **Credit Decision**, click **Maintenance**. Under **Maintenance**, click **Execution Configuration**, then click **View Execution Configuration**.

   The **View Execution Configuration** screen is displayed.

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Figure 3-157 View Execution Configuration

For more information on fields, refer to the field description table.

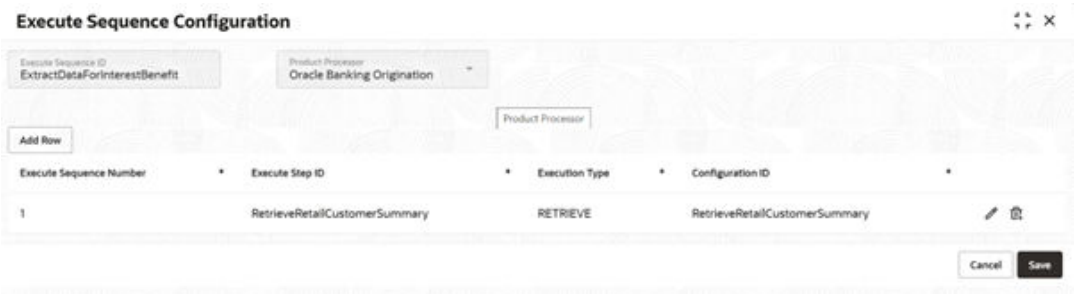
Table 3-127 View Execution Configuration - Field Description

Field	Description
Product Processor	Select the product processor from the drop-down list for which configuration is being created.
Execution Configuration ID	Specify the unique execution sequence ID.

3. On the **View Execution Configuration** screen, specify the **Search Filter** to fetch the required execution configuration.
4. Right click on the table and select **View Details** to view the execution configuration.

   The **Execution Configuration - View** screen is displayed.

Figure 3-158 Execution Configuration - View



For more information on fields, refer to the field description table.

Table 3-128 Aggregate Maintenance - View - Field Description

Field	Description
Execution Configuration ID	Displays the execution configuration ID.
Product Processor	Displays the processor.
Execute Step ID	Displays the execute step ID.
Execution Type	Displays the execution type.
Configuration ID	Displays the configuration ID.

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3.20.4 RP Online Configuration

This topic describes the information about the relationship pricing configuration.

This configuration will have 3 possible ways of fetching the facts.

1. **Attribute Source - From Domains Online**
   Capture a list of execution sequence IDs.
2. **Attribute Source - From Local RP Store**
   Capture all the aggregates whose facts are to be fetched.
3. **Attribute Source – Counter**
   Configure counter facts that will be required. Counter facts are stored against entity ID. Counter fact can be fetched based on 2 inputs i.e.,
   - Input param path which will be the name of the fact in payload which holds the ID of the
   - Name of the fact which needs to be fetched from counter table.

This topic contains the following subtopics:

- Create Relationship Pricing Configuration
  This topic describes the systematic instructions on configuration of relationship pricing.
- View Relationship Pricing Configuration
  This topic describes the systematic instructions to view the Relationship Pricing Configuration.

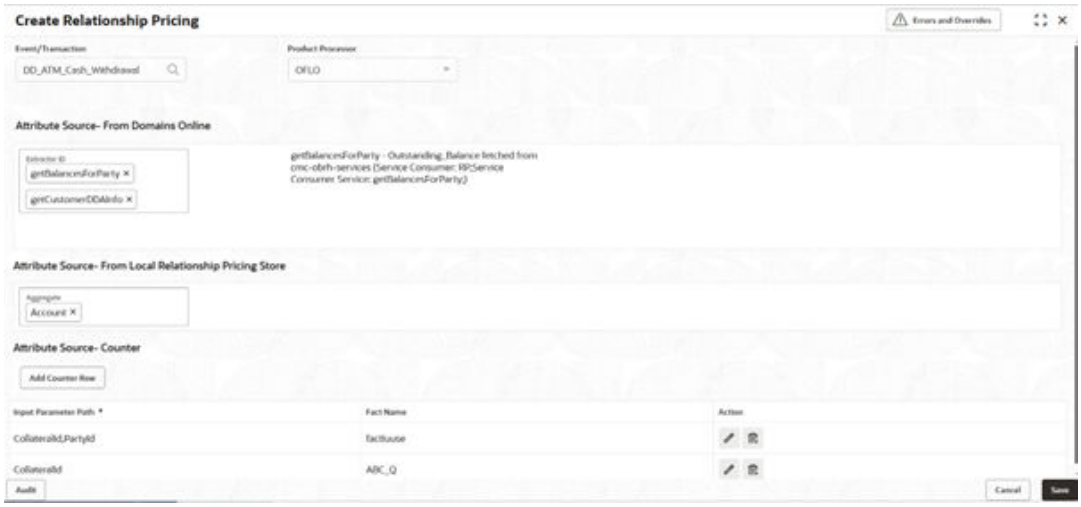
3.20.4.1 Create Relationship Pricing Configuration

This topic describes the systematic instructions on configuration of relationship pricing.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Credit Decision**.
2. Under **Credit Decision**, click **Maintenance**. Under **Maintenance**, click **Relationship Pricing Configuration**, then click **Create Relationship Pricing**.

   The **Create Relationship Pricing** screen is displayed.

Figure 3-159 Create Relationship Pricing Configuration



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3. Specify the fields on the **Create Relationship Pricing** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 3-129 Create Relationship Pricing - Field Description

Field	Description
Event/Transaction	A list of Events (Transactions) to choose from and configure. Click the **Search** icon and select the events from the list.
Product Processor	Select the product processor from the drop-down list for which configuration is being created
Attribute Source - From Domains Online	Capture a list of execution sequence IDs.
Attribute Source - From Locals RP Store	Capture all the aggregates whose facts are to be fetched.
Attribute Source – Counter	Configure counter facts that will be required. Counter facts are stored against entity ID. Counter fact can be fetched based on 2 inputs: • Input param path which will be used as entity Id to fetch the fact. • Name of the fact which needs to be fetched from counter table.

4. Perform one of the following action:
   - Click **Save** to save the details.
     The **Create Relationship Pricing** is successfully created and can be viewed using the View Relationship Pricing Configuration screen.
   - Click **Cancel** to discard the changes and close the screen.

3.20.4.2 View Relationship Pricing Configuration

This topic describes the systematic instructions to view the Relationship Pricing Configuration.

The user can configure the Relationship Pricing using the Create Relationship Pricing Configuration screen. The status of the created Relationship Pricing configuration is displayed as Unauthorized and Open. Once the checker authorizes the Relationship Pricing, the status is updated to Authorized and Open.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Credit Decision**.
2. Under **Credit Decision**, click **Maintenance**. Under **Maintenance**, click **Relationship Pricing Configuration**, then click **View Relationship Pricing Configuration**.

   The **View Relationship Pricing Configuration** screen is displayed.

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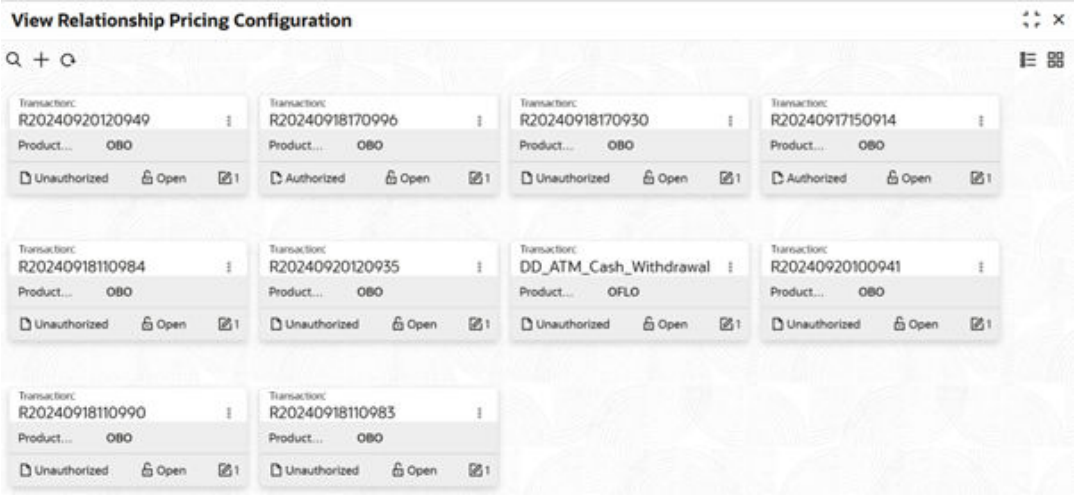
Figure 3-160 View Relationship Pricing Configuration



For more information on fields, refer to the field description table.

Table 3-130 View Relationship Pricing Configuration - Field Description

Field	Description
Event/Transaction	Displays the transaction.
Product Processor	Displays the product processor selected.
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

3. On the **View Relationship Pricing Configuration** screen, click icon.

   The **View Relationship Pricing Configuration - Search** screen is displayed.

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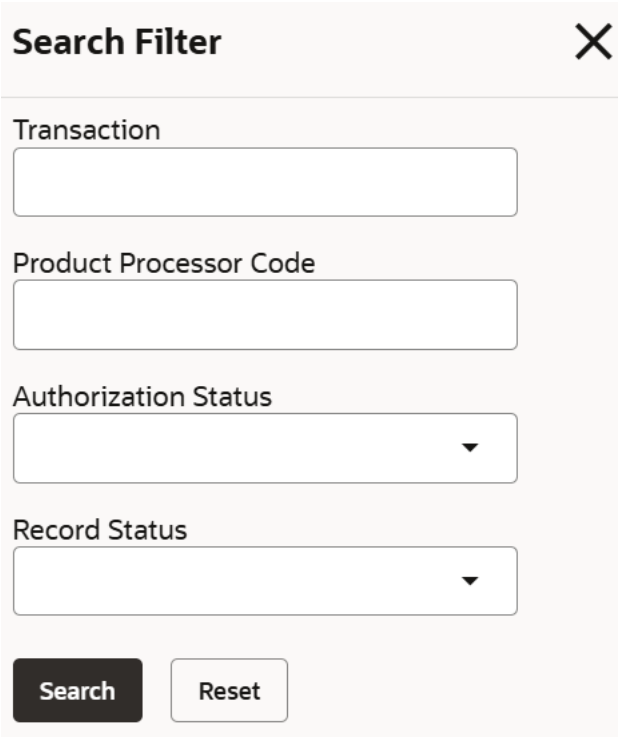
Figure 3-161 View Relationship Pricing Configuration - Search



4. On the **View Relationship Pricing Configuration - Search** screen, specify the **Search Filter** to fetch the required relationship pricing configuration.

   For more information on fields, refer to the field description table.

Table 3-131 View Relationship Pricing Configuration - Search – Field Description

Field	Description
Transaction	Specify the transaction.
Product Processor	Select the product processor.
Authorization Status	Select the authorization status from the drop-down list. The available options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Select the record status from the drop-down list. The available options are: • **Open** • **Closed**

5. Click **Search** to display the required relationship pricing configuration.

6. On the **View Relationship Pricing Configuration** screen, click ⋮ icon to **Unlock**, **Delete**, **Authorize** or **View** the created configurations.

7. Click **Unlock** to modify the created relationship pricing configuration.

   The **Relationship Pricing Configuration - Modify** screen is displayed.

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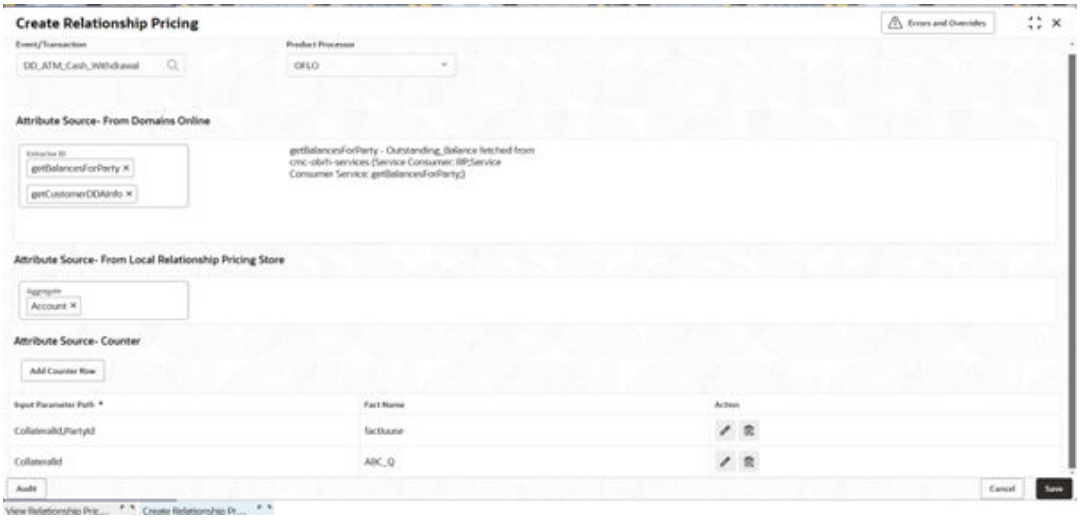
Figure 3-162 Relationship Pricing Configuration - Modify



For more information on fields, refer to the field description table.

Table 3-132 Relationship Pricing Configuration - Modify - Field Description

Field	Description
Event/Transaction	Displays the event/transaction
Product Processor	Displays the product processor.
Attribute Source - From Domains Online	Displays the attribute source - from domains selected.
Attribute Source - From Local Relationship Pricing Store	Displays the attribute source - from local Relationship Pricing store selected.
Attribute Source – Counter	Displays the attribute source - counter selected.

8. Click **Save** to save the details.
9. Click **View** to view the created relationship pricing configuration.

   The **Relationship Pricing Configuration - View** screen is displayed.

Figure 3-163 Relationship Pricing Configuration - View

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For more information on fields, refer to the field description table.

Table 3-133 Relationship Pricing Configuration - View - Field Description

Field	Description
Event/Transaction	Displays the event/transaction.
Product Processor	Displays the product processor.
Attribute Source - From Domains Online	Displays the attribute source - from domains selected.
Attribute Source - From Local Relationship Pricing Store	Displays the attribute source - from local Relationship Pricing store selected.
Attribute Source – Counter	Displays the attribute source - counter selected.

3.20.5 Transport Fact Mapping

This topic describes the information about the transport fact mapping feature.

There is a provision to transport data from other domains to CMC schema and extract facts in batch.

After the table is transported in CMC schema, there are 2 ways in which the <domain>_FACTS table will get enriched with this transported data.

- **COLUMN_MAPPING** - The _FACTS table is expected to have a column where data from source tables column will be populated directly.
- **FLAT_MAPPING** - Source tables specific column value is mapped to a facts value in destination table (_FACT table). New row will be created in _FACTS table with the specific factName and value.

In addition, there is a provision to derive the fact value using a transformation class for `FLAT_MAPPING`. When transformation is enabled, the system executes a seeded SQL query (mapped to the destination fact) and persists the computed result as the fact value.

This topic contains the following subtopics:

- Create Transport Fact Mapping
  This topic describes about systematic instructions on mapping of transport fact.
- Seed Data for Source Table Name
  This topic describes about the seed data for source table name.
- Transformation for FLAT_MAPPING (Computed Facts)
  This topic describes about the Transformation for FLAT_MAPPING (Computed Facts).
- View Transport Fact Mapping
  This topic describes the systematic instructions to view the transport fact mapping.

3.20.5.1 Create Transport Fact Mapping

This topic describes about systematic instructions on mapping of transport fact.

Facts can be stored in PDS in separate tables per domain. These tables can be created dynamically.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Credit Decision**.

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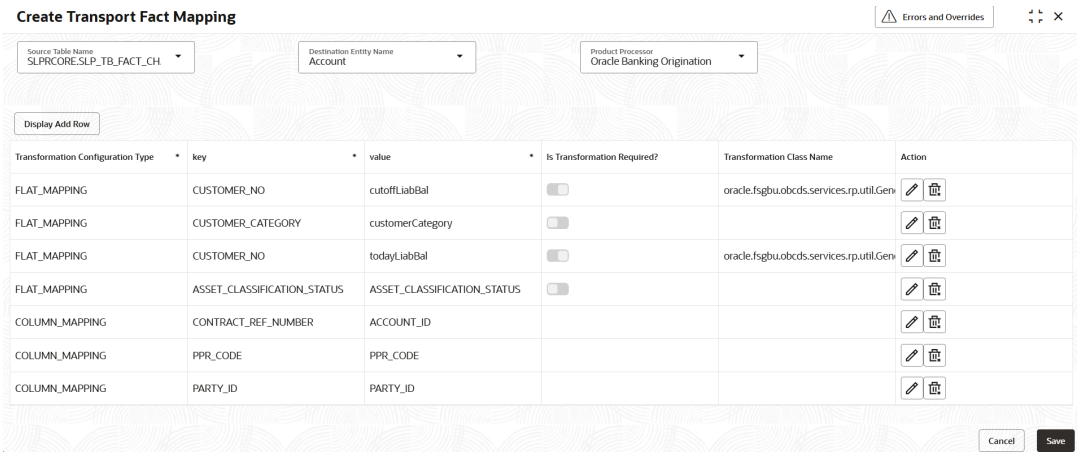
2. Under **Credit Decision**, click **Maintenance**. Under **Maintenance**, click **Transport Fact Mapping**, then click **Create Transport Fact Mapping**.

   The **Create Transport Fact Mapping** screen is displayed.

Figure 3-164 Create Transport Fact Mapping



3. Specify the fields on the **Create Transport Fact Mapping** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 3-134 Create Transport Fact Mapping - Field Description

Field	Description
Source Table Name	The name of the Transport Fact Mapping being created. Select the table name from the drop-down list.
Entity Name	The Transport Fact Mapping ID associated with the Transport Fact Mapping. Select the entity name from the drop-down list. The available options are: • **Account** • **Party** Any Aggregate created in the system will also be available for selection.
Product Processor	Select the product processor from the drop-down list for which configuration is being created.
Transformation Configuration Type	Select the type from the drop-down list. The available options are: • **COLUMN_MAPPING** - The _FACTS table is expected to have a column where data from source tables column is populated directly. • **FLAT_MAPPING** - Source tables specific column value is mapped to a facts value in destination table (_FACT table). New row is created in _FACTS table with the specific fact name and value.

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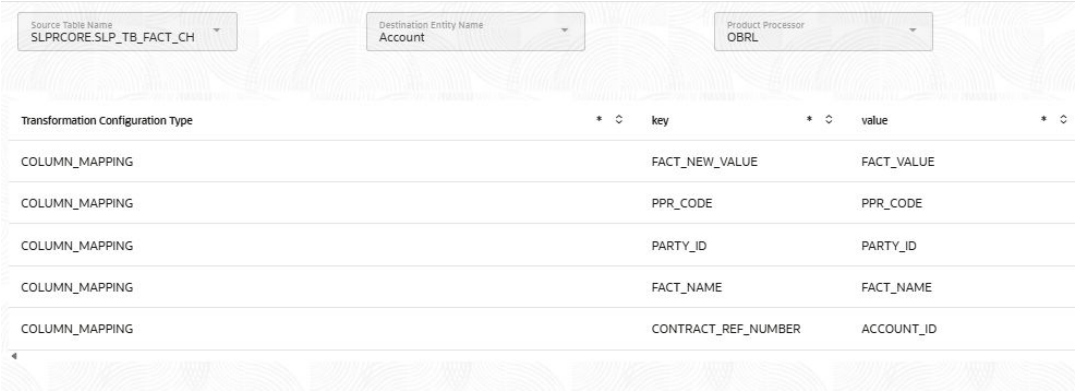
Table 3-134 (Cont.) Create Transport Fact Mapping - Field Description

Field	Description
Key	Select the key from the drop-down list. Auto generated from given entity name.
Value	Select the value from the drop-down list.
Is Transformation Required ?	Select this check box to compute the fact value using the transformation class instead of reading the value directly from the source row. Applicable only for FLAT_MAPPING.
Transformation Class Name	Displays the fully qualified class name used for transformation. Applicable only when **Is Transformation Required?** is selected.
Action	Click the icons to edit or delete the record.

4. Perform one of the following action:
   - Click **Save** to save the details.
     The **Create Transport Fact Mapping** is successfully created and can be viewed using the View Transport Fact Mapping screen.
   - Click **Cancel** to discard the changes and close the screen.

If the Source Table has a flat structure (i.e., there are generic columns for Key (Fact Name) and Value (Fact Value) in the source table), user can create a configuration utilizing only COLUMN_MAPPING Type and mapping the Key and Value columns of the source table to FACT_NAME and FACT_VALUE columns of the Destination Entity respectively. Example:

Figure 3-165 Create Configuration utilizing COLUMN MAPPING



3.20.5.2 Seed Data for Source Table Name

This topic describes about the seed data for source table name.

The list of “Source Table Name” for selection under the drop-down and the subsequent selection of each source table columns are controlled via SQL injection to the following tables under CMNCORE schema:

To add a new Source Table, User can make an entry as follows:

```
INSERT INTO RP_LOOKUP_DATA_STORE (ID, KEY, TYPE)
VALUES ('101', 'SCHEMAJNDI.YOURTABLENAME', 'TABLE_NAME');
```


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Table 3-135 Source Table

Column	Comments
ID	Unique identifier of each row in the table.
KEY	Represents the source table along with the source jndi. (For example: If your Source schema has the following **jndi jdbc/MYDB** and your source table name is **MY_NEW_TABLE**, the value would be **MYDB.MY_NEW_TABLE**
TYPE	Represents the type of Key. Default the value as **TABLE_NAME** in this case.

To configure the columns of the source table, user can make the following entries.

```
Insert into RP_LOOKUP_VALUES_DATA_STORE (ID,VALUE,RP_LOOKUP_DATA_STORE_ID)
values ('UUID_UNIQUE_1','COLUMN_NAME_1','UUID_UNIQUE');
Insert into RP_LOOKUP_VALUES_DATA_STORE (ID,VALUE,RP_LOOKUP_DATA_STORE_ID)
values ('UUID_UNIQUE_2','COLUMN_NAME_2','UUID_UNIQUE');
Insert into RP_LOOKUP_VALUES_DATA_STORE (ID,VALUE,RP_LOOKUP_DATA_STORE_ID)
values ('UUID_UNIQUE_3','COLUMN_NAME_3','UUID_UNIQUE');
Insert into RP_LOOKUP_VALUES_DATA_STORE (ID,VALUE,RP_LOOKUP_DATA_STORE_ID)
values ('UUID_UNIQUE_4','COLUMN_NAME_4','UUID_UNIQUE');
Insert into RP_LOOKUP_VALUES_DATA_STORE (ID,VALUE,RP_LOOKUP_DATA_STORE_ID)
values ('UUID_UNIQUE_5','COLUMN_NAME_5','UUID_UNIQUE');
Insert into RP_LOOKUP_VALUES_DATA_STORE (ID,VALUE,RP_LOOKUP_DATA_STORE_ID)
values ('UUID_UNIQUE_6','COLUMN_NAME_6','UUID_UNIQUE');
```

Table 3-136 Source Table

Column	Comments
ID	Unique identifier of each row in the table.
VALUE	
RP_LOOKUP_DATA_STORE_ID	

3.20.5.3 Transformation for FLAT_MAPPING (Computed Facts)

This topic describes about the Transformation for FLAT_MAPPING (Computed Facts).

This topic describes the behavior when transformation is enabled for a **FLAT_MAPPING** entry. In standard flat mapping, the destination fact value is populated directly from the transported source table row. In transformation-enabled flat mapping, the destination fact value is derived by executing a configured SQL query and storing the computed result in the destination facts table.

When is transformation applied?

Transformation is applied only when all of the following conditions are met:

- The mapping Transformation Configuration Type is **FLAT_MAPPING**.
- A Transformation Class is configured for the mapping.

How is the fact value derived?

When transformation is enabled:

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1. The system identifies the destination fact from the flat mapping (Value field). Example: cutoffLiabBal, todayLiabBal. either by:
2. The system resolves a transformation query using the destination fact identifier in the format: <EntityName>.<factName>

   Example: Party.cutoffLiabBal.
3. The transformation class executes the resolved query and obtains the computed result. (<ENTITY>_FACTS),
4. The computed result is persisted as the destination fact value in the destination facts table
   - inserting a new fact row when the fact does not exist for the entity instance, or
   - updating the existing fact row when the fact is already present.

Seed table for transformation queries
The transformation query is maintained in a seed table which maps a destination fact identifier to the SQL query to be executed.

Table name : "CMNCORE"."TRANSPORT_FACT_QUERY_MAPPING"

Table 3-137 Transport Fact Query Mapping - Field Description

Field	Description
Fact	Specifies the destination fact identifier in the format <Entity>.<factName>. Example: Party.cutoffLiabBal.

Query	Specifies the SQL query used to derive the fact value. The query must return a single computed value (for example, an aggregate amount) which is stored as the fact value during augmentation.
	Example Query :
	
	`SELECT SUM(JSON_VALUE(a.FACT_DATA, '$.cutofBalance' RETURNING NUMBER))`
	`AS total_amount FROM PARTY_FACTS p, ACCOUNT_FACTS a WHERE a.PARTY_ID = :CUSTOMER_NO and p.PARTY_ID = a.PARTY_ID GROUP BY a.PARTY_ID`

Note

- The query can contain bind parameters (for example : CUSTOMER_NO). These parameters are populated during batch execution using the relevant values from the transported source row and mapping configuration.
- The transformation class is system-provided and is displayed as a read-only value in the UI when transformation is enabled.

3.20.5.4 View Transport Fact Mapping

This topic describes the systematic instructions to view the transport fact mapping.

The user can configure the transport fact mapping using the Create Transport Fact Mapping screen. The status of the created transport fact mapping is displayed as Unauthorized and Open. Once the checker authorizes the transport fact mapping, the status is updated to Authorized and Open.

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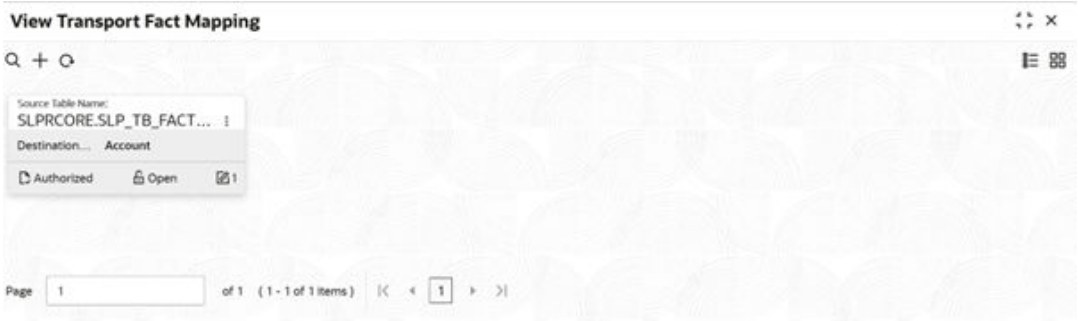
1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Credit Decision**.
2. Under **Credit Decision**, click **Maintenance**. Under **Maintenance**, click **Transport Fact Mapping**, then click **View Transport Fact Mapping**.

   The **View Transport Fact Mapping** screen is displayed.

Figure 3-166 View Transport Fact Mapping



For more information on fields, refer to the field description table.

Table 3-138 View Transport Fact Mapping - Field Description

Field	Description
Source Table Name	Displays the source table name.
Destination Entity Name	Displays the destination entity name.
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

3. On the **View Transport Fact Mapping** screen, click icon.

   The **View Transport Fact Mapping - Search** screen is displayed.

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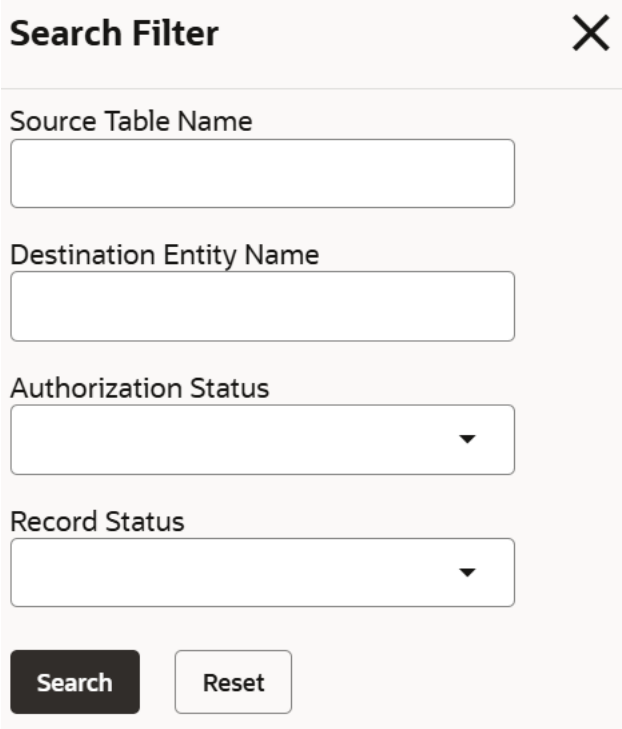
Figure 3-167 View Transport Fact Mapping - Search



4. On **View Transport Fact Mapping - Search** screen, specify the **Search Filter** to fetch the required transport fact mapping.

   For more information on fields, refer to the field description table.

Table 3-139 View Transport Fact Mapping - Search – Field Description

Field	Description
Source Table Name	Specify the source table name.
Destination Entity Name	Specify the destination entity name.
Authorization Status	Select the authorization status from the drop-down list. The available options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Select the record status from the drop-down list. The available options are: • **Open** • **Closed**

5. Click **Search** to display the required transport fact mapping.

6. On the **View Transport Fact Mapping** screen, click ⋮ icon to **Unlock**, **Delete**, **Authorize** or **View** the created transport fact mapping.

7. Click **Unlock** to modify the created transport fact mapping.

   The **Transport Fact Mapping Maintenance - Modify** screen is displayed.

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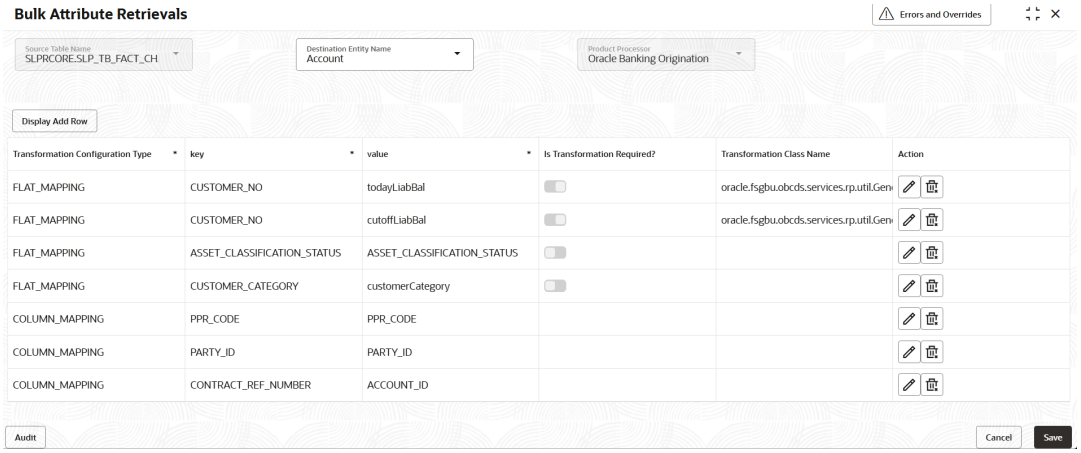
Figure 3-168 Transport Fact Mapping Maintenance - Modify



For more information on fields, refer to the field description table.

Table 3-140 Transport Fact Mapping Maintenance - Modify - Field Description

Field	Description
Source Table Name	Displays the source table name.
Entity Name	Displays the entity name. User can modify the same
Product Processor	Displays the product processor.
Transformation Configuration Type	Displays the configuration type.
Key	Displays the key.
Value	Displays the value
Is Transformation Required ?	Indicates whether transformation will be applied to compute the fact value
Transformation Class Name	Displays the fully qualified class name used for transformation

8. Click **Save** to save the details.
9. Click **View** to view the created transport fact mapping.

   The **Transport Fact Mapping Maintenance - View** screen is displayed.

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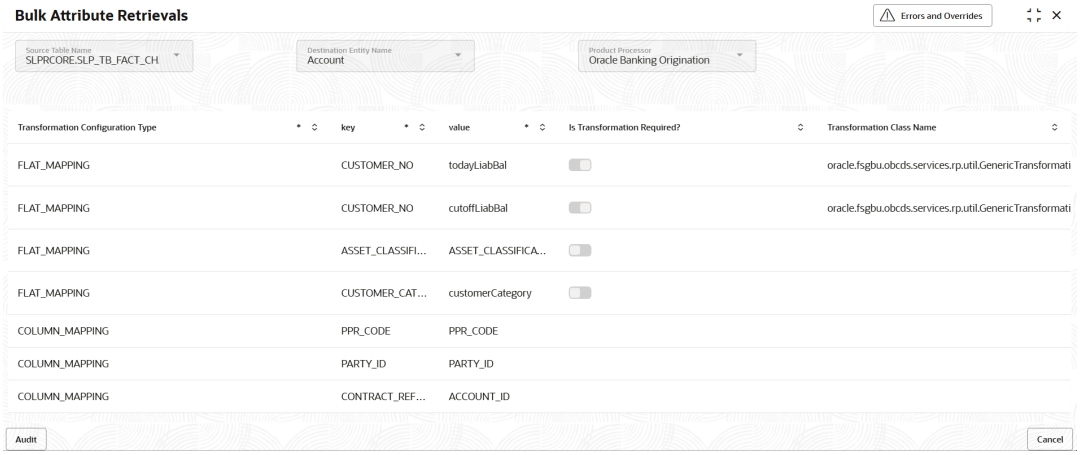
Figure 3-169 Transport Fact Mapping Maintenance - View



For more information on fields, refer to the field description table.

Table 3-141 Transport Fact Mapping Maintenance - View - Field Description

Field	Description
Source Table Name	Displays the source table name.
Entity Name	Displays the entity name.
Product Processor	Displays the product processor.
Transformation Configuration Type	Displays the configuration type.
Key	Displays the key.
Value	Displays the value.
Is Transformation Required ?	Indicates whether transformation will be applied to compute the fact value
Transformation Class Name	Displays the fully qualified class name used for transformation

3.20.6 Create Event Data

This topic describes the systematic instructions on creating event data.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Credit Decision**.
2. Under **Credit Decision**, click **Maintenance**. Under **Maintenance**, click **Relationship Pricing Test Studio**, then click **Create Event Data**.

   The **Create Event Data** screen is displayed.

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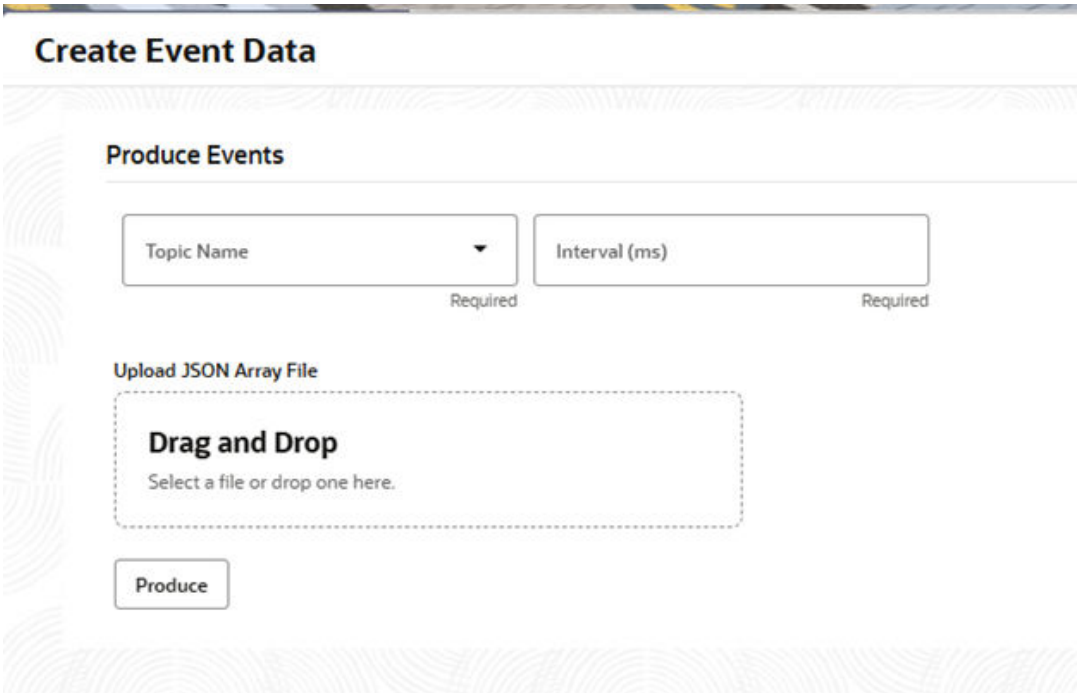
Figure 3-170 Create Event Data



3. Specify the fields on the **Create Event Data** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 3-142 Create Event Data - Field Description

Field	Description
Topic Name	Select the target Kafka topic for publishing events.
Interval (ms)	Specify the delay in milliseconds between each event.
Upload File	Upload a .json file containing an array of event payloads. **Note**: Only .json files are accepted and the file must contain an array of JSON payloads, and each payload must strictly match the Avro schema of the selected topic.

Example Avro Schema

```
{
  "type": "record",
  "name": "ObpyRetOnboardEvent",
  "fields": [
    {"name": "eventId", "type": "string"},
    {"name": "timestamp", "type": "long"},
    {"name": "customerId", "type": "string"},
    {"name": "amount", "type": "double"}
```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```
  ]
}
```

> **Note**
>
> The above schema is provided only as an example Avro schema for a topic and does not represent the actual schema used by the topic.

Example JSON Array Payload

```
[
  {
    "eventId": "evt-01",
    "timestamp": 1717974543000,
    "customerId": "cust1234",
    "amount": 2500.0
  },
  {
    "eventId": "evt-02",
    "timestamp": 1717974544000,
    "customerId": "cust5678",
    "amount": 1500.0
  }
]
```

Optional Actions:

To re-select a file, click the **Delete** icon in the **Action** column and upload a new one. Use the file name and size details to verify that the correct file was uploaded.

Additional Notes:

- The uploaded JSON file must conform exactly to the Avro schema defined for the topic
- Use the Interval setting to manage the pace of the event flow.
- Only one file can be uploaded and processed at a time.
- Upon completion, the system displays the success or failure status of the operation.

- Publishing Events
  This topic describes the systematic instructions on publishing events.

3.20.6.1 Publishing Events

This topic describes the systematic instructions on publishing events.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Credit Decision**.
2. Under **Credit Decision**, click **Maintenance**. Under **Maintenance**, click **Relationship Pricing Test Studio**, then click **Create Event Data**.

   The **Create Event Data** screen is displayed.
3. **Select Topic**: Select relevant Kafka topic from the **Topic Name** drop-down list.

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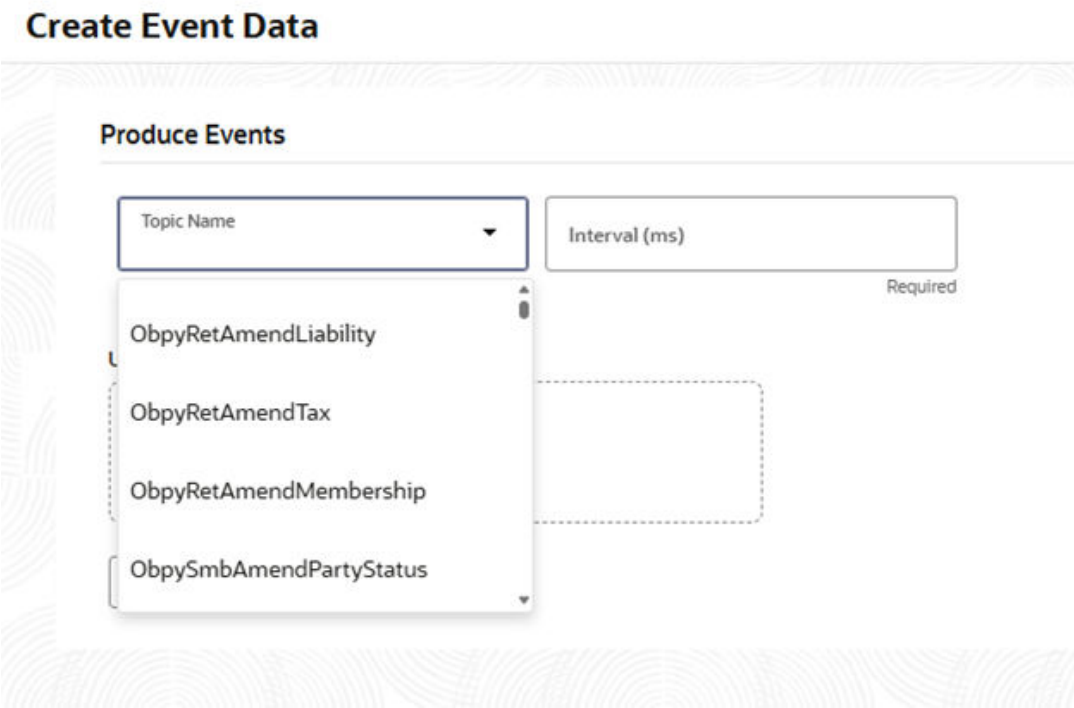
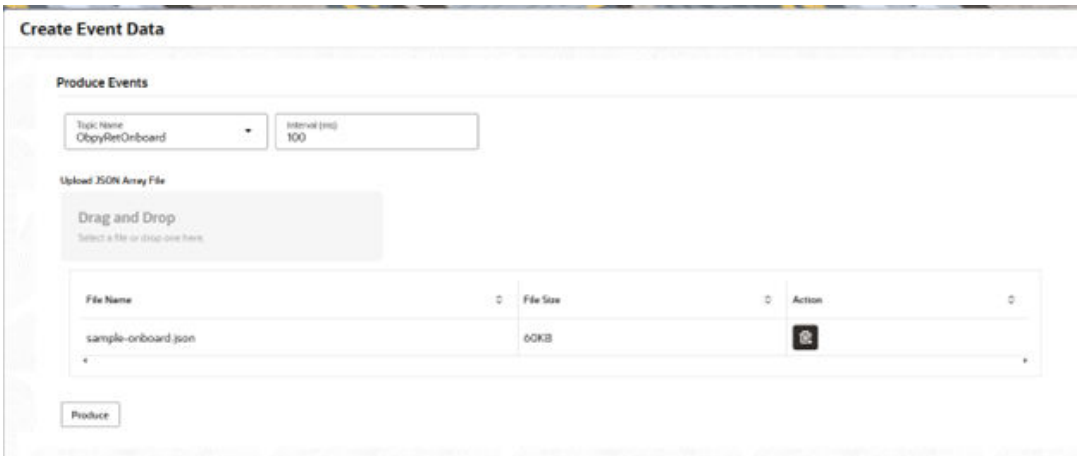
Figure 3-171 Topic Name Drop-down



4. **Set Interval**: In the Internal (ms), specify the desired interval in milliseconds between each event.
5. **Upload JSON File**: Drag and drop or browse to select the .json file user wish to upload.

   The system displays the selected file details.

Figure 3-172 Uploaded File Details



6. Click the **Produce** button to begin publishing events to selected Kafka topic.

   The message of confirms success and failure counts for the selected topic appears. For example message: “All events processed for topic: ObpyRetOnboard. Success: 4, Failure: 0” .

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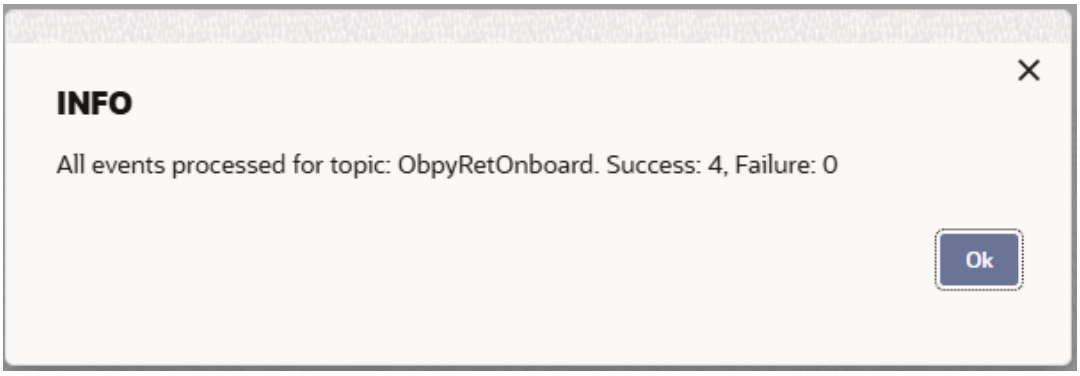
Figure 3-173 Success/Failure Popup



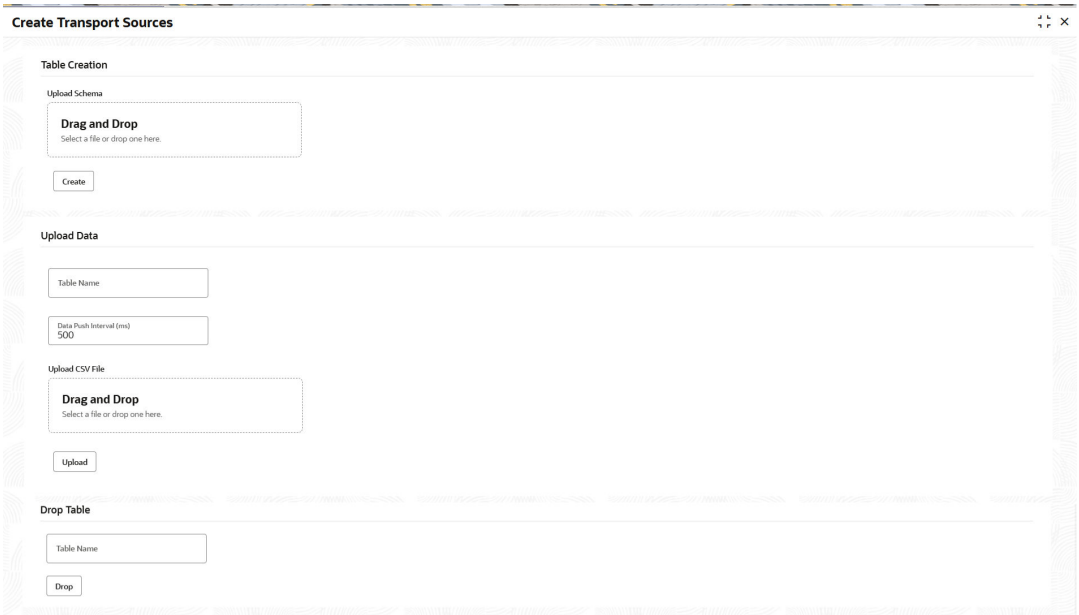
3.20.7 Create Transport Sources

This topic describes the systematic instructions to dynamically create and manage source tables by uploading schemas and test data using Create Transport Sources screen.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Credit Decision**.
2. Under **Credit Decision**, click **Maintenance**. Under **Maintenance**, click **Relationship Pricing Test Studio**, then click **Create Transport Sources**.

   The **Create Transport Sources** screen is displayed.

Figure 3-174 Create Transport Sources



3. Specify the fields on the **Create Transport Sources** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

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For more information on fields, refer to the field description table.

Table 3-143 Create Transport Sources - Field Description

Field	Description
Upload Schema	Drag-and-drop area browse a file to upload the table schema in JSON format.
Create	Click to create the table using the uploaded schema.
Table Name	Specify the target table name for data insert or drop actions.
Data Push Interval (ms)	Specify the time interval in ms between data insert events for testing streaming.
Upload CSV File	Drag-and-drop area or browse a file to upload the CSV data to populate into the table.
Upload	Click to trigger the data loading job into the specified table.
Drop	Click to drop/delete the specified table.

Example - Schema.json

```
{
  "tableName": "TESTING",
  "tableIdentifier": "br",
  "columns": [
    {
      "name": "ID",
      "dataType": "VARCHAR2(36)",
      "nullable": false
    },
    {
      "name": "PARTY_ID",
      "dataType": "VARCHAR2(20)",
      "nullable": false
    }
  ],
  "primaryKeys": [
    {
      "columnName": "ID"
    }
  ]
}
```

Table Creation

This section allows you to create new source tables by uploading a schema file in JSON format.

4. In the **Table Creation** section, click **Drag and Drop** under **Upload Schema** to select or drop your JSON schema file.
5. Click the **Create** to generate the table based on your uploaded schema.

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Figure 3-175 Table Creation section

Example - datasource.csv

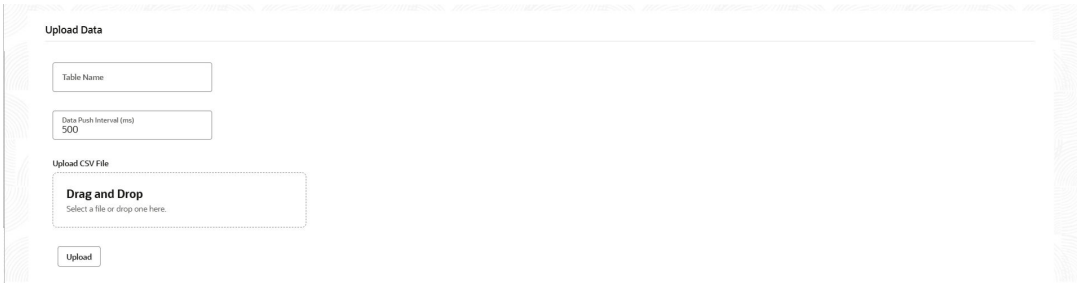
```
ID,PARTY_ID
e1a2b3c4-d5f6-7g8h-9i0j-m3n4o5q4,PARTY1001
e1a2b3c4-d5f6-7g8h-9i0j-m3n4o5q5,PARTY1002
```

Upload Data

This section is allows bulk insert data into a selected or newly created table.

6. In the **Upload Data** section, specify the following:
   a. In the **Table Name** field, specify the name of the table to insert data into.
   b. In the **Data Push Interval (ms)** field, specify the interval in milliseconds to mimic data streaming behaviour (example, for Kafka testing).
7. Under **Upload CSV File** section, drag and drop or browse to select the CSV data file.
8. Click **Upload** to start the data insertion job.

Figure 3-176 Upload Data section



Drop Table

This section allow to delete a source table that is no longer needed.

9. In the **Table Name** field, specify the table name you want to drop.
10. Click the **Drop** button to permanently remove the table.

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Figure 3-177 Drop Table section

Additional Notes:

- Ensure the JSON schema file structure aligns with the required format for table creation.
- Ensure the CSV file must strictly adhere to the schema of the created table.
- Use **Data Push Interval (ms)** to simulate the timing of real-time data ingestion.
- Assign unique table names to prevent naming conflicts within the database.
- Before using the **Drop** function, ensure it is no longer require the table or its data, as this operation performs a permanent deletion.

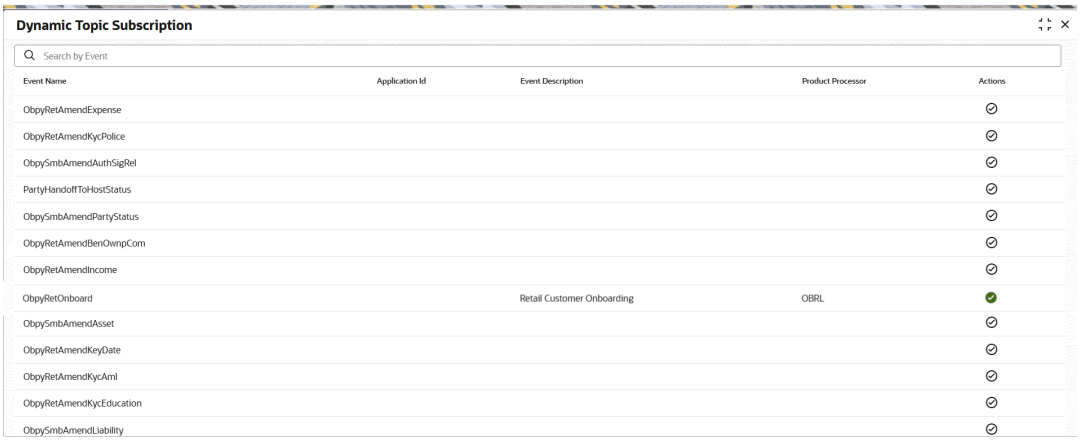
3.20.8 Dynamic Topic Subscription

This topic describes the systematic instructions to subscribe or manage dynamic event topics.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Credit Decision**.
2. Under **Credit Decision**, click **Maintenance**. Under **Maintenance**, click **Dynamic Topic Subscription**.

   The **Dynamic Topic Subscription** screen is displayed.

Figure 3-178 Dynamic Topic Subscription



> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

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Table 3-144 Dynamic Topic Subscription - Field Description

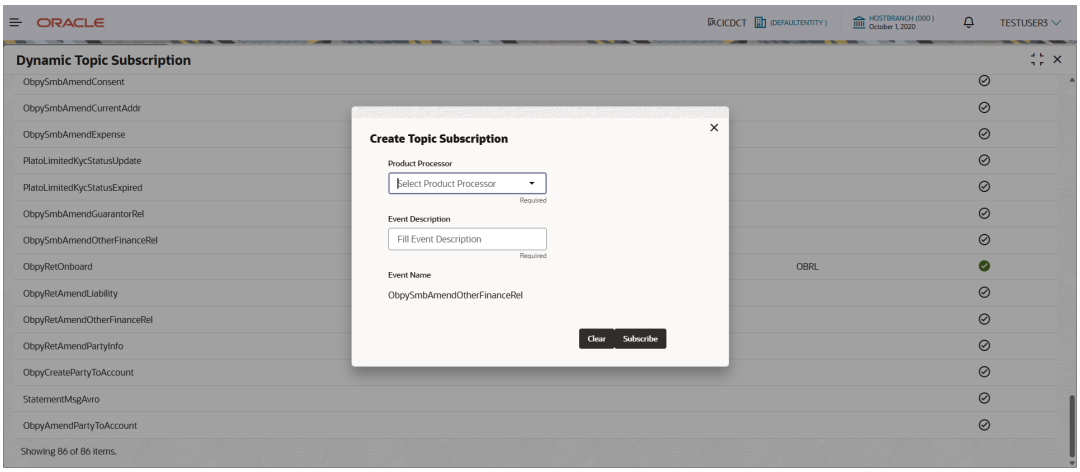
Field	Description
Event Name	Displays the name of event which to be subscribed.
Application ID	Displays the application ID.
Event Description	Displays the description for the event .
Product Processor	Displays the product processor.
Actions	Displays the action which can be performed on record. The user can subscribed the event.

Subscribing an Event

3. Enter search parameters, and click icon to search specific event from the event list.
4. In the **Actions** column, click the icon against the event.

   The **Create Topic Subscription** dialog box is displayed.

Figure 3-179 Create Topic Subscription popup screen



5. Specify the fields on the **Create Topic Subscription** popup screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 3-145 Create Topic Subscription popup - Field Description

Field	Description
Product Processor	Select the product processor from the drop-down list. This field is mandatory for the event subscribing.

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Table 3-145 (Cont.) Create Topic Subscription popup - Field Description

Field	Description
Event Description	Specify the description for the event . This field is mandatory for the event subscribing.
Event Name	Displays the name of event which to be subscribed.

6. Click **Subscribe** to subscribe event.

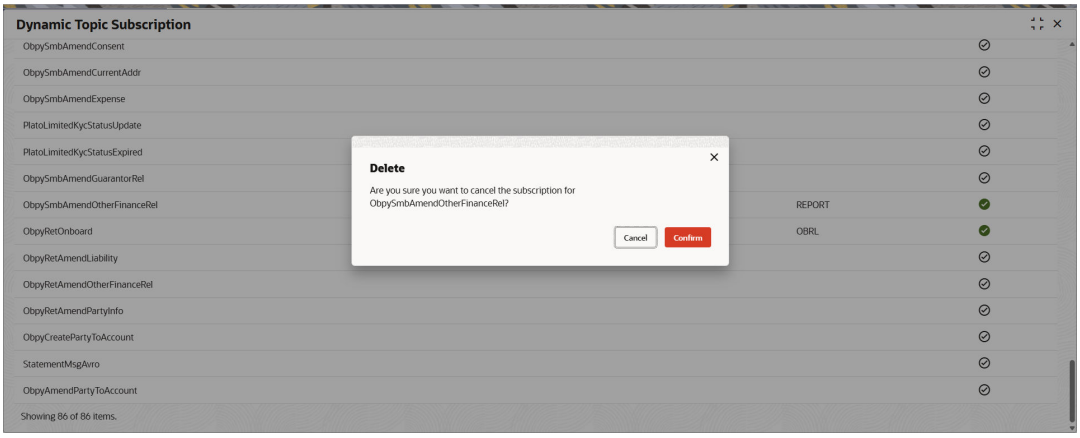
   Upon successful subscription, the **Actions** column displays a green tick for that event.

Cancelling an Event Subscription

7. In the **Actions** column, click on the green tick icon next to the event to manage subscribed event.

   A **Delete** confirmation popup screen is displayed.

Figure 3-180 Delete confirmation popup screen



8. Click **Confirm** to cancel the event subscription.

   The success message of event unsubscription is displayed.
   Additional Notes:

   - Upon successful subscription, the **Actions** column displays a green tick for that event.
   - Use the search feature to easily navigate and manage multiple events.
   - All mandatory fields have been completed to enable the subscription option.
   - Event status is updated immediately upon cancellation.

3.20.9 Configuring a Relationship Pricing Example

This topic walks through a coarse-grained example of a relationship pricing (RP) use case.

It enumerates the setups needed and the execution. It is an indicative general use case and is added only to give an idea of how one typical RP use case can be configured. The setup mentioned in this section can only be used to configure RP in a testing environment. Any value in the example are not meant to be entered in a production environment directly. The use case enumerated is not a leading indicator of a use case that the bank should configure.

Pre-requisites:

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- Knowledge of Pricing Decision Service (PDS).
- Read the Pricing Decision Service (PDS) user guide thoroughly - `https://docs.oracle.com/en/industries/financial-services/microservices-common/14.8.1.0.0/cmcug/create-pricing-model1.html`
- Application is deployed and the starting maintenances are done. These are enumerated at - Oracle Banking Multi-Entity Deployment Guide
- Basic setup is done. This involves setting up of bank, country code etc. If not, this is covered here as part of "Preparatory Configurations" in the sections below.

Functional use case:

A bank periodically reviews and reduces interest to deserving loans customers based on their relationship profile. This example enumerates how the relationship pricing (RP) module can be configured to provide these benefits. The attributes used in the calculations are delinquency-flag (lending attribute) & customer-segment (party attribute).

All Silver, Gold, Platinum customers will receive reduced interest rates on their loans, provided they are not delinquent at the time RP is calculated.

The pricing model defining the benefits is created with the following specifications:

- Selection Criteria: Rule - (if delinquency-flag == N)
- Customer segment is used in the price definition tiers:

Table 3-146 Customer segment

Customer segment	Interest rate benefit
Silver	-0.25
Platinum	-0.54
Gold	-0.36
Standard	0

As part of business operations, party data changes (in this example - customer-segment changes) are raised by the Party module in the form of update events. These events are subscribed to by RP consumers which update this data into the RP store.

The interest benefit calculation flow occurs in the End of Day batch processing.

A set of RP jobs execute the following:

- Transfer lending data to RP schema (includes delinquency-flag on accounts)
- Transform lending attributes into RP aggregates
- Execute interest rate benefits on accounts
- Transfer interest rate benefit data to lending schema

Configurations:

There are multiple configurations that are necessary to fulfill this use case.

- **Preparatory Configurations** – This is the base data necessary for some of the pricing configurations to be executed. These configurations are mostly needed for all banking use cases and therefore these must be already present.
  - Create Bank (BIC)
  - Create Country Code

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  - Create Currency
  - Create Host Code
  - Create Branch
  - Create User - Create a dedicated user to execute this use case, with needed permissions.
  - Create Calendar
- **Pricing Configurations** - In this section the actual pricing model is created.
  - Create Fact
  - Create Rule
  - Create Scoring Feature
  - Create Pricing Model
- **Relationship Pricing Configurations** - These set of maintenance needed to pull the data from core systems and execute the RP job.
  - Create RP Aggregates
  - Subscribe to party topic to retrieve party update events
  - Create data transfer jobs
  - Create Transaction to Attributes mapping
  - Create trigger definitions
  - Create Batch Category to execute the batch

Pricing Configurations -

Screen:Create Product Processor

The use case is to determine relationship pricing on interest benefits for loans customers. Hence the "OBRL" product processor is created.

Table 3-147 Create Product Processor

Field	Value	Description
Product Processor Code	OBRL	Specify the unique product processor code.
Product Processor Description	Product Processor create for testing RP in batch	Specify the short description for product processor.
Effective Date	01-01-1900	Specify the effective date.
Expiry Date	31-12-2096	Specify the effective date.

More Details - Create Product Processor

Screen:Create / View Fact

Table 3-148 Create / View Fact

Field	Value	Description
Code	customerSegment	Specify the alphanumeric code without space for the fact.
Description	customerSegment	Specify the description of the fact.

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Table 3-148 (Cont.) Create / View Fact

Field	Value	Description
Product Processor	OBRL	Click Search and select the product processor from the list.
Tag	null	Specify the tag for fact.
Type	TEXT	Select the type of the fact from the drop-down list. The available options are: • **Number** • **Text** • **Boolean** • **Date** • **Array** • **ENUM**

More Details - Create Fact

Table 3-149 Create Facts

name	description	namespace	facttype.id	facttype.name
DELINQUENCY_FLAG	DELINQUENCY_FLAG	OBR	202	TEXT

Table 3-150

name	description	namespace	facttype.id	facttype.name
customerSegment	customerSegment	OBRL	2	TEXT

Screen:Create / View Rule

Table 3-151 Create / View Rule

Field	Value	Description
Code	RPDelRule	Specify the alphanumeric code without space for the rule.
Description	RP Delinquency Rule	Specify the description of the rule.

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Table 3-151 (Cont.) Create / View Rule

Field	Value	Description
Product Processor	OBRL	Click Search and select the product processor.
Tag	null	Select the tag from the drop-down list.
Select Existing Rule	null	Click Search and select the existing rule.
Add Section	null	Click Add Section to create the multiple rule condition.
Expression Builder	null	Select the expressions to build the rule.
Add Expression	null	Click Add Expression to create the expression for the rule.
+ Icon	null	Click **+** icon to add new expression.
Fact / Rules	DELINQUENCY_FLAG	Select the fact or rule from the drop-down list.
Operator	"=="	Select the comparison operator from the drop-down list.
Data Type	TEXT	Select the data type for the fact or rule. Once the user select the data type, one more field opens adjacent to the output, update the same based on the selected output option. The available options are: • **Text** • **Number** • **Boolean** • **Date** • **Fact** The below option appears if the Data Type is selected as Boolean. • **True** • **False**
Output	BOOLEAN	Select the output from the drop-down list. Once the user select the data type, one more field opens adjacent to the output, update the same based on the selected output option. The available options are: • **Text** • **Number** • **Boolean** • **Date** • **Fact**
Expression	DELINQUENCY_FLAG == N	Displays the expression and output updated in the expression builder.

More Details - Create Rule

Screen:Create / View Scoring Feature

Table 3-152 Create / View Scoring Feature

Field	Value	Description
Feature Code	CustomerSegment	Specify the unique feature code.

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Table 3-152 (Cont.) Create / View Scoring Feature

Field	Value	Description
Feature Description	CustomerSegment	Specify a short description for the feature.
Product Processor	OBRL	Specify the product processor for which the feature is being created.
Rule	N	Select the rule, if it is required to define the feature. This option is used to decide whether the feature is rule based or fact based. The available options are: • **Yes** • **No**
Fact Code	CustomerSegment	Select the fact code to be mapped to the feature from the drop-down list. This field is enabled if the Rule is selected as **No**.
Fact Name	CustomerSegment	Specify the fact name of the feature. This field is enabled if the Rule is selected as **No**.
Rule Code	null	Select the rule code to be mapped to the feature from the drop-down list. This field is enabled if the Rule is selected as **Yes**.
Info	null	Click this icon to get the information about the rule.
Rule Name	null	Specify the rule name for the selected rule. This field is enabled if the Rule is selected as b.

More Details - Create Scoring Feature

Screen:Create / View Pricing Model

Table 3-153 Header Information

Field	Value	Description
Pricing Code	LNRP101	Specify the unique pricing code.
Pricing Description	LNRP101	Specify a short description for the pricing.
Effective Date	2020-09-30	Specify the effective date.
Expiry Date	2051-02-28	Specify the expiry date.
Product Processor	OBRL	Specify the product processor for which the pricing is being created.
Priority	1	Specify the priority of the pricing.

Table 3-154 Selection Criteria

Field		Description
Use Existing Rule	N	By default, this option is enabled. Indicates if the existing rule is linked.
Rule Code	null	Select the rule code from the drop-down list.
Info	null	Click this icon to get the information about the rule.
Rule Name	RPDelRule	Displays the rule name of the rule code.
Create New Rule	N	Select this option to create new rule.

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Table 3-154 (Cont.) Selection Criteria

Field		Description
Code	RPDelRule	Specify the rule code.
Description	RP Delinquency Rule	Specify the rule description.
+ icon	Click this icon to add new expression.	
Fact / Rules	DELINQUENCY_FLAG	Select the fact or rule from the drop-down list. Once the user selects the fact/rules, one more field opens adjacent to the output, update the same based on the selected output option.
Operator	==	Select the comparison operator from the drop-down list. The available options are: • **<** • **>** • **+** • **=** • **%** • **!=** • **-** • **>=** • **<=** • ***** • **/** • **Contains** • **In** • **Matches** • **NotMatches** • **NotContains** • **Notin**
Data Type	TEXT	Select the data type for the fact or rule. Once the user select the data type, one more field opens adjacent to the output, update the same based on the selected output option. The available options are: • **Text** • **Number** • **Boolean** • **Date** • **Fact** • **Rules** The below option appears if the Data Type is selected as Boolean. • **True** • **False**

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Table 3-154 (Cont.) Selection Criteria

Field		Description
Output	Boolean	Select the output from the drop-down list. Once the user select the data type, one more field opens adjacent to the output, update the same based on the selected output option. The available options are: • **Text** • **Number** • **Boolean** • **Date** • **Fact** • **Rules** The below option appears if the Data Type is selected as Boolean. • **True** • **False**
Expression	DELINQUENCY_FLAG == N	Displays the expression updated in the expression builder.

Price Definition (Tiered)

Table 3-155 Selection Criteria

Field		Description
Minimum Rate	-10	Specify the minimum rate applicable for the defined pricing code.
Maximum Rate	10	Specify the maximum rate applicable for the defined pricing code.
Rate Type	Tiered	Select the rate type from the drop-down list as Tiered.
<Numeric Feature> From	null	Specify the minimum numeric value of feature to which the interest rate is applicable.
<Numeric Feature> To	null	Specify the maximum numeric value of feature to which the interest rate is applicable.
<Character Feature> Value	Silver	
	Platinum	Specify the alphabetic value for which the interest rate is applicable.
	Gold	
Rate %	-0.36	
	-0.36	Specify the interest rate applicable for the defined tier. This field appears once you select the Rate Type option as Tiered and Link a Rule? option as No.
	-0.54	
Rule	null	Select the rule for the defined tier from the drop-down list. This field appears once you select the Rate Type option as Tiered and Link a Rule? option as Yes.

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More Details -Create Pricing Model

- Create Relationship Pricing Configurations
  This topic describes the information about the relationship pricing configurations.

3.20.9.1 Create Relationship Pricing Configurations

This topic describes the information about the relationship pricing configurations.

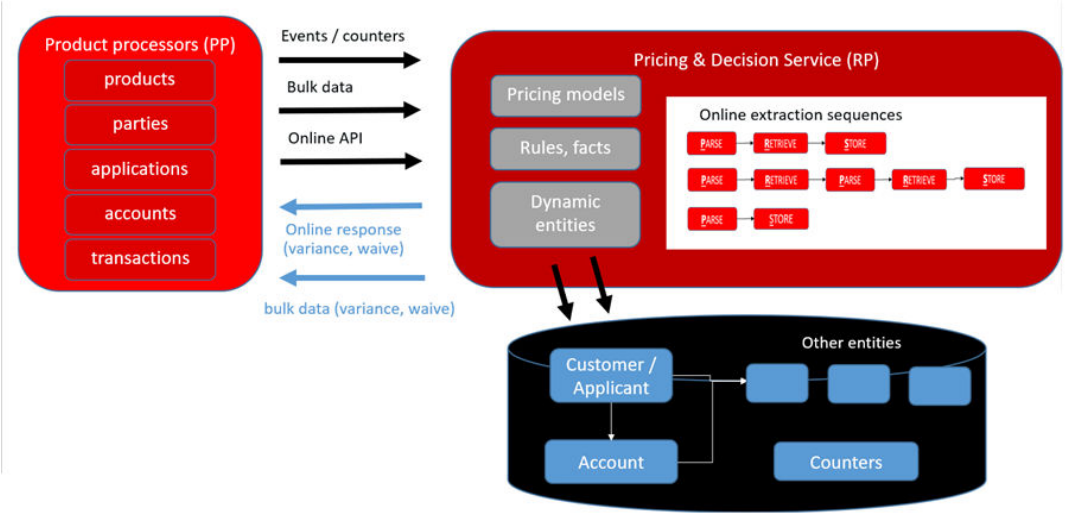
1. **Background**
   These set of configurations is geared to retrieve attributes to populate the fact values that are used in Relationship Pricing (RP) routines.

   Currently there is only one RP routine which performs the following steps:

   - Retrieve all accounts. Account is a type of an RP aggregate, which is explained in further sections.
   - Execute the relationship pricing on all accounts.
   - Generate outbound response records of accounts that have changed RP benefits.

   Attribute retrievals can be depicted in the form of the following diagram:

Figure 3-181 Relationship Pricing - Data Flow



RP module has 2 types of attribute retrieval configurations:

- Online attribute retrievals - Attributes are retrieved from 3 sources:
  - Reading data off events - RP has ability to subscribe to topics dynamically. It also has the ability to configure the source of attributes from a kafka payload.
  - Invoking URLs and reading attributes off response values - RP has the ability to configure a sequence that can either parse, retrieve, store in any order for attribute retrievels.
  - Modules directly populate fact values - RP exposes an API for module to directly populate fact and its value in the module.

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- Bulk attribute retrievals - Attributes are retrieved in bulk. In this mode, RP uses the "Transfer" and "Transform" modes to populate the stages through which data is transferred.
  The stages are:
  - Raw data zone - In this zone, data is held for some time and has the same structure as the source. This is regularly cleaned up after the attributes are transferred to the processing zone. The "Transfer" mode facilitates this. This mode uses the fast data transfer configuration.
  - Processing zone - This zone has RP data held in a construct called as aggregates. The aggregate has a generic structure that is understood by the RP module and is used by the processing routines. Data is transferred from the raw data to the processing zone by a batch job called "Fact augmenter", which involves some basic transformation routines and places data in the aggregates. The fact augmenter job is the "Transform" mode and is executed in the nightly batch.

2. **Configuration**
   Overall attribute retrievals and relationship pricing configuration is configured and executed in the following steps:

   STEP 1 - Create Aggregates to hold fact data that is needed for RP calculations. In this example we will create / use 2 aggregates "Party" and "Account". These are seeded as part of deployment. Refer details STEP 1 - RP AGGREGATES

   STEP 2 - Create Transaction to Attributes mapping. Identify all sources of attribute information that the RP calculation engine needs to look up. In this example, we will configure attribute / data sources to be facts from the "Party" and "Account" aggregates.

   With these 2 steps, the RP job has the information it needs to process.

   At this point, the aggregate population routines and the job / batch configurations to invoke the RP job is pending.

   STEP 3 - Populate "Account" aggregate using "Transfer" and "Transform". Create data transfer jobs that get bulk data from participating modules into a staged zone in RP. Also, create Fact augmenter jobs that transform data from this staged zone into the RP aggregates. In this example, the data transfer setup will transfer Lending Account data into a staged table with the same structure in RP. The fact augmenter job extracts this data and populates the "Account" aggregate.

   STEP 4 - Populate "Party" aggregate using Online Attribute retrievals. Create Sequence Configuration to define multiple steps to retrieve data online. The sequence and the steps are configurable. Example of steps can be "Parse → Retrieve → Store" or "Parse → Store". "Parse" configuration defines extraction of fact data by inspecting event payloads or REST API responses. Event data is retrieved using dynamic subscribers. For this use case we will subscribe to party topic to pull party data during party onboarding / update party event, inspect the data, extract customer segment and store it into PARTY_FACTS table (Party aggregate).

   At this point, the aggregate population routines configuration is complete. The job configurations and the batch process configurations is pending.

   STEP 5 - Create trigger definitions for invoking the batch jobs. Trigger definitions are necessary to indicate the parameters with which the jobs need to be invoked. In this example, trigger definitions for the following batch jobs are needed - Fact augmenter and RP calculation.

   STEP 6 - Create Batch Category definition to trigger a job sequencing engine. In this example, we will use the job category configuration that runs the nightly batches. As part of the end of day processing category, lending account data is transferred to RP. Fact

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augmenter job extracts this data and populates Account aggregate. Thereafter it executes RP calculation and invokes the data transfer job to populate Lending with RP data.

STEP 1 - RP AGGREGATES

An RP aggregate holds data locally and is created in the RP schema using the "Create Aggregate" screen. When an aggregate is created, a corresponding table is created in the RP schema with "_FACTS" suffix. The bank can create as many aggregates to hold the attribute data that they need as part of its RP calculations.

The table has a generic structure that holds the primary key of the aggregate and the key, value fields of the facts.

For example - If we create a "PAYMENT" aggregate using the "Create Aggregate" screen with payment_id as the primary key, behind the scenes the "PAYMENT_FACTS" table is created.

Refer to PDS documentation for more background:Decision Service and Product Designer

As part of RP deployment, 2 aggregates representing "ACCOUNT" and "PARTY" are seeded.

This results in the following empty tables getting created in RP schema.

- ACCOUNT_FACTS
- PARTY_FACTS

STEP 2- PARTY_FACTS POPULATION - DYNAMIC TOPIC SUBSCRIPTION

Screen:Dynamic Topic Subscription

In previous step PARTY_FACTS aggregate table is created to store party facts.

To retrieve party facts there are various mechanisms:

1. External API Invocation (retrieve attributes by invoking party inquiry)
2. Read kafka topic during party onboarding / update party (retrieve from party events)
3. Party invokes save facts 'RP' call (Party pushes data directly to RP)

In this use case, we are following kafka approach. The Dynamic Topic Subscription screen lets RP add a subscription to existing kafka topics from external modules.

For this use case, this screen adds a subscriber on an existing Party topic "ObpyRetOnboard". Whenever a party is updated, the Party module adds data on this topic.

By virtue of the subscription, RP is able to retrieve this data.

Table 3-156 Retrieve this data by RP

topicName	eventName	eventDesc	pprCode	eventType	AvroSchema
ObpyRetOnboard	RetailCustomerOnboarding	Retail Customer Onboarding	OBRL	AVRO	See text below

Avro schema

```
{"namespace":"avro.oracle.fsgbu.plato.eventhub.events","name":"ObpyRetOnboardG
enerated","type":"record",
"fields":[{"name":"branchCode","type":"string"},{"name":"userId","type":
["null","string"]},{"name":"date","type":["null","string"]},
```


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```
{"name":"time","type":["null","string"]},
{"name":"applicationNumber","type":"string"},
{"name":"handoffStatus","type":"string"},
{"name":"sourceProductId","type":["null","string"]},
{"name":"eventType","type":"string"},{"name":"externalCustomerNumber",
"type":["null","string"]},{"name":"isKycCompliant","type":["null","string"]},
{"name":"partyCategory",
"type":["null","string"]},{"name":"partyId","type":"string"},
{"name":"partyType","type":["null","string"]},{"name":"rmId",
"type":["null","string"]},{"name":"firstName","type":"string"},
{"name":"middleName","type":["null","string"]},{"name":"lastName",
"type":"string"},{"name":"residentStatus","type":["null","string"]},
{"name":"uniqueId","type":["null","string"]},{"name":"customerSegment",
"type":["null","string"]},{"name":"partySubType","type":["null","string"]},
{"name":"isCustomer","type":["null","string"]},{"name":"isStaff",
"type":["null","string"]},{"name":"isInsider","type":["null","string"]},
{"name":"isSpecial","type":["null","string"]},{"name":"isArmedForce",
"type":["null","string"]},{"name":"isPep","type":["null","string"]},
{"name":"isMla","type":["null","string"]},{"name":"isMinor",
"type":["null","string"]},{"name":"isBlacklisted","type":["null","string"]},
{"name":"isProspect","type":["null","string"]},
{"name":"amendDateTime","type":"string"},
{"name":"applicationDate","type":"string"},{"name":"onboardPayload","type":
["null","string"]}]}
```


Table 3-157 Table

Field	Value	Description
Product Processor	OBRL	Dropdown to select relevant product processor (required)
Event Description	Retail Customer Onboarding	Enter a description for the event (required)
Event Name	ObpyRetOnboard	Auto-filled with the selected event name
Clear		Button to clear the form
Subscribe		Button to subscribe to the selected event with filled details

STEP 3 - PARSE, STORE, EXECUTION SEQUENCE CONFIGURATION

Screen:Parse Configuration

To parse party data received via subscriber and store it in the form of party facts, parse and store configuration is created using Parse configuration and Execution Configuration screen. Party Data captured by above dynamic subscriber will be stored in PARTY_FACTS table with below parse, store, execution sequence configuration.

Parse configuration will be created in Parse configuration screen. Parse configuration will map kafka topic payload attributes to facts and Store configuration will point to aggregate name that needs to be updated. In this case parse and store config will map partyId, customerSegment facts in Party aggregate.

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Table 3-158 Create Parse Configuration Screen

Field	Value			Description
Parse Configuration ID	ObpyRetOnboardParse			Specify the unique parse configuration ID.
Parse Configuration Name	ObpyRetOnboard Event Parse			Specify the description for the parse configuration ID.
Parse Configuration Type				Select the type from the drop-down list. The available options are: • **Input** • **Output**
Product Processor	OBRL			Select the product processor from the drop-down list.
Fact Mapping Configuration ID				Specify the unique fact mapping configuration ID.
Fact Name	ObpyRetOnboardFact1	partyId	partyId	Click the Search icon and select the fact name from the list.
	ObpyRetOnboardFact2	customerSegment	customerSegment	
Fact Value X Path				Specify the xpath to fetch the fact value.
Action				Click the icons to edit or delete the record.

More details - Create Parse Configuration

Screen:Execute Sequence Configuration

ExecutionSequence configuration is essentially an extractor framework that uses a sequence of execution of parse, retrieve and store configurations. This configuration allows the user to create chain of sequential parse, store, retrieve operations in the steps to retrieve attribute data. Given below is a a depiction of the extractor framework.

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Figure 3-182 Extractor Framework - example configuration options

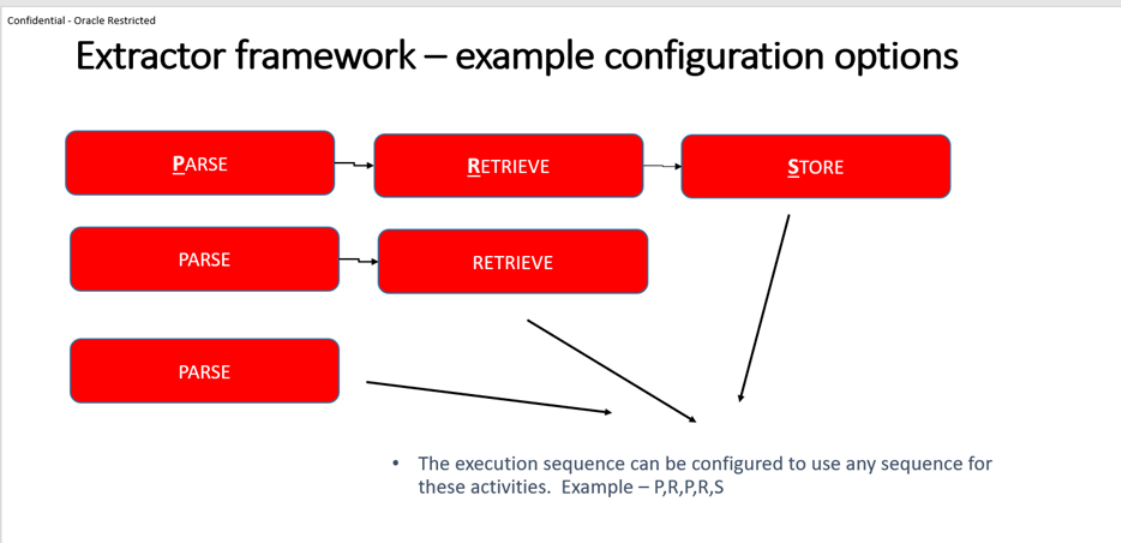

Table 3-159 Create Parse Configuration Screen

Field	Value			Description
Execute Sequence ID	ObpyRetOnboard			Specify the unique execute sequence ID.
Product Processor	OBRL			Select the product processor from the drop-down list for which configuration is being created.
Execute Sequence Number	**Execute Step ID**	**Execution Type**	**Execute Sequence Number**	Specify the unique sequence number for the execute sequence table.
Execute Step ID	ObpyRetOnboardParse	PARSE	1	Specify the unique step ID for the execute sequence table.
Execution Type	ObpyRetOnboardStore	STORE	STORE	Select the type from the drop-down list. The available options are: • **Parse** • **Retrieve** • **Store**

Table 3-160 Table

Field	Value	Description
Store Configuration	ObpyRetOnboardStore	Specify a unique Store configuration ID.
Store Configuration Name	ObpyRetOnboardStore	Specify a unique name for the Store configuration ID.
Product Processor	OBRL	Select the product processor from the drop-down list for which configuration is being created.

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Table 3-160 (Cont.) Table

Field	Value	Description
Aggregate	Party	Select the attaching aggregate name to store configuration.

More details - Create Execution Configuration

STEP 3 - DATA TRANSFER JOBS

Data transfer happens in 2 stages, typically referred to as "Transfer" and "Transform". The "Transfer" is an OBMA platform capability and "Transform" is provided by RP.

- Transfer does pure data transfer at fast speeds and is usually like for like replication, with very little scope for complex transformations.
- Transform is a more RP aware transfer that understands the RP aggregates structure and is able to do some complex transformations.

Transfer:

PLATO Data transfer configuration is a technical maintenance and is done in 2 steps:

Step 1 - Create an app-config that adds a pair of from-data-source and to-data-source. The primary key for this table containing app-config's is app-id, group-id.

Step 2 - The app-id, group-id from the previous step is used in further configurations to define the tables to be transferred.

Refer OBMA infrastructure documentation guide for configuration details.

> **Note**
>
> - There is no screen to create a data transfer configuration. It is a set of APIs.
> - Usually, these configurations are seeded if the source and target data structures are already known.
> - Data transfer configurations from OBMA product processors and required for RP processing are seeded as part of its default qualification exercise.

As part of the use case, there are two data transfer configurations needed:

1. Transfer Lending data to RP tables.
2. Transfer RP tables to Lending.

Additionally, two similar data transfer app-config's are needed for this use case, and have already been seeded as part of deployment.

These are for

SPLRCORE → CMC. This ensures that lending tables pertaining to all servicing data are available for transfer.

CMC → SLPRCORE. This ensures that relationship pricing data can be transferred to lending servicing schema.

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The corresponding data transfer jobs that use the corresponding app-config id's and define tables to be transferred are :

1. DT_SLP_TB_FACT_CHANGE_DETAILS - This job transfers data from 2 tables from Lending to the RP schema (Tables = SLP_TB_FACT_CHANGE_DETAILS, CMC_CDS_TM_CDS_INBOUND_REQUEST).
   - SLP_TB_FACT_CHANGE_DETAILS contains fact information used in RP calculations
   - CMC_CDS_TM_CDS_INBOUND_REQUEST contains RP payloads of accounts to be processed.
2. DT_RP_RESP_CMC_TO_OBRL - This job transfers RP calculation to Lending. (Table = CMC_CDS_TM_OUTBOUND_RESPONSE)

Transform :

Data transfers using PLATO utility does a like for like table data transfers into the RP schema. Transform is an RP functionality that creates facts from the transferred data.

Check below example.

Example - Let's say Account data is transferred into RP using PLATO. This data is to be transformed into the "Account" aggregate (Table = ACCOUNT_FACTS).

Account Data transferred from "Savings" product processor

Table 3-161 Table

Account id	Balance	Status
******111	10000	Regular
******112	5450	Regular

"Account" Data in RP

Table 3-162 Table

Accountid	Fact Data
******111	`{Balance:10000,` `Status: Regular}`
******112	`{Balance:5450,` `Status:Regular}`

In our example, a transform job is needed for SLP_TB_FACT_CHANGE_DETAILS.

RP Data Transfer & Transform Config creation using screen

While the data transfer configurations for OBMA use cases are seeded, there will be a requirement to create these dynamically if the participating systems are non-OBMA.

Screen:Create / View Transport Fact Mapping

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This screen is a coarse-grained configuration capability available to do multiple configurations in one go.

It allows a configurator to select the source and destination tables and choose the columns to be added to the RP aggregates.

As an example from current use case, when a configurator selects the following table "SLP_TB_FACT_CHANGE_DETAILS" in source and selects "Account" as the destination, behind the scenes it does the following :

- Create the destination tables in the RP schema with the same name and same columns as source. For this example, it is needed to create the SLP_TB_FACT_CHANGE_DETAILS table in RP schema.
- Creates an app-config id for the source and destination data sources, if not already created previously. In our case, the app-config is created as part of the deployment.
- Creates a job by the name of "DT_SLP_TB_FACT_CHANGE_DETAILS", if not already available, that defines for data transfer of SLP_TB_FACT_CHANGE_DETAILS. This is already available as part of deployment.
- Creates a fact augmenter job by the name "FA_SLP_TB_FACT_CHANGE_DETAILS", if not already available, which creates facts to the respective aggregates from the transferred data. These facts correspond to the columns selected from the source table. This is already available as part of deployment.
- Creates a batch category "RP_CATEGORY", if not already created, and adds the above 2 jobs to it. category is created for the '000' branch.

> **Note**
>
> Typically, '000' is provisioned as the HO branch.

Table 3-163 Create Parse Configuration Screen

Field	Value	Description
Source Table Name	SLP_TB_FACT_CHANGE_DETAILS	The name of the Transport Fact Mapping being created. Select the table name from the drop-down list.
Entity Name	Account	The Transport Fact Mapping ID associated with the Transport Fact Mapping. Select the entity name from the drop-down list. The available options are: – **Account** – **Party**
Product Processor	OBRL	Select the product processor from the drop-down list for which configuration is being created.

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Table 3-163 (Cont.) Create Parse Configuration Screen

Field	Value			Description
Transformation Configuration Type	COLUMN_MAPPING	CONTRACT_REF_NUMBER	ACCOUNT_ID	Select the type from the drop-down list. The available options are: – COLUMN_MAPPING - The _FACTS table is expected to have a column where data from source tables column is populated directly. – FLAT_MAPPING - Source tables specific column value is mapped to a facts value in destination table (_FACT table). New row is created in _FACTS table with the specific fact name and value.
	COLUMN_MAPPING	PARTY_ID	PARTY_ID	
	COLUMN_MAPPING	PPR_CODE	PPR_CODE	
	COLUMN_MAPPING	FACT_NAME	FACT_NAME	
	COLUMN_MAPPING	FACT_NEW_VALUE	FACT_VALUE	
Key				Select the key from the drop-down list. Auto generated from given entity name.
Value				Select the value from the drop-down list.
Action				Click the icons to edit or delete the record.

More Details -Create Transport Fact Mapping

This ensures that we create the job definition for "Account" aggregate (Table = ACCOUNT_FACTS) data populated for account_ids with the above information.

STEP 4 - TRANSACTION TO ATTRIBUTES MAPPING

As part of the transaction, create configuration to define what entities need to be considered during RP configurations.

Screen:Create / View Relationship Pricing Configuration

Table 3-164 Relationship Pricing Configuration

Field	Value	Description
Event/Transaction	RP_DelqEvent	A list of Events (Transactions) to choose from and configure. Click the Search icon and select the events from the list.
Product Processor	OBRL	Select the product processor from the drop-down list for which configuration is being created
Attribute Source - From Domains Online		Capture a list of execution sequence IDs.

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Table 3-164 (Cont.) Relationship Pricing Configuration

Field	Value	Description
Attribute Source - From Locals RP Store	Party, Account	
Attribute Source – Counter		Configure counter facts that will be required. Counter facts are stored against entity ID. Counter fact can be fetched based on two inputs: • Input param path which will be used as entity Id to fetch the fact. • Name of the fact which needs to be fetched from counter table.

STEP 5 - JOB TRIGGER DEFINITION

Trigger definition configurations define the invocation mechanism for the jobs - whether API based or event based, along with some job parameters. Please refer PLATO job configuration guide for more details.

Create trigger definitions for the two batch jobs

There are two batch jobs that fulfil the RP calculation needs for this use case.

- The transform job that transforms data from the lending data received into the RP aggregates. In the earlier step, the fact augmenter job got created. The trigger definition states the invocation conditions for this job.
- The RP calculation job - RP calculations happen in this job
- Create Transaction → Attributes Mapping

Table 3-165 Table

transaction	pprCode
RP_DelqEvent	OBRL

- **Table 3-166 Table**

sourceType	extractorId	aggregate
LOCAL	null	Party
LOCAL	null	Account

- One of these tables can be used to designate as PIVOT_AGGREGATE. In this case, all accounts are used to calculate RP.

Screen:Task Management → Create Task

Create trigger definition for the transform job. This job takes raw data from product processors and adds it to the RP aggregates

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Table 3-167 Create Task

definitionName	definition
RP_TRANSFORM_JOB_TRG_DEFN	"appId:::CMC;microServiceName:::cmc-opds-services; contextRoot::: cmc-opds-services; jobName:::CMC_OPDS_BATCH_FACTAUG_J_SA; invokeBatchFrm:::Y;status:::R; taskName:::RP_TRANSFORM_JOB_TRG_DEFN;type:::event; entityId:::DEFAULTENTITY; destination:::RP_TRANSFORM_JOB_SJTOPIC; producerPartitionCount:::3;consumerConcurrency:::3; tableName:::SLPRCORE.SLP_TB_FACT_CHANGE_DETAILS;"

Create trigger definition for the calculation job. This calculates relationship pricing.

Table 3-168 Create Task

definitionName	definition
RP_CALC_JOB_TRG_DEFN	"appId:::CMC;microServiceName::: cmc-opds-services; contextRoot::: cmc-opds-services; jobName:::CMC_OPDS_BATCH_CDS_J_SA; invokeBatchFrm:::Y;status:::R;taskName:::RP_CALC_JOB_TRG_DEFN; type:::event; entityId:::DEFAULTENTITY;destination:::RP_CALC_JOB_SJTOPIC; producerPartitionCount:::3;consumerConcurrency:::3;"

STEP 6 - BATCH CATEGORY

Finally, create the batch category configuration to execute the two jobs by running CUTOFF category.

Batch category configuration involves:

- Defining a category for the batch jobs. Example - the EOD category includes jobs required to be executed as part of End of Day processing
- The sequence in which the batch jobs have to be executed.

Screen:Create / View Batch Category

Table 3-169 Main Resource Table

resourceName	operationType
CUTOFF	CREATE

Batch Category Table :

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This configuration table lays out the batch categories and the sequence in which they execute by defining the dependency of categories on one another. In most cases this is a pre-seeded configuration based on functional capabilities provided in the application. As part of our example - The EOD category contains the RP jobs. This is shown in the next set of tables.

Table 3-170 Batch Category Table

categoryCode	categoryName	categoryDesc	branchCode	isMultiRun	visibility	isEnabled	categoryGroup	DependsOnCategory
CUTOFF	CUTOFF	CUTOFF	KP6	Y	FUNCTIONAL	Y	GENERIC	
EOD	EOD	EOD	KP6	N	FUNCTIONAL	Y	GENERIC	CUTOFF
HOUSEKEEPING	HOUSEKEEPING	HOUSEKEEPING	KP6	N	FUNCTIONAL	N	GENERIC	EOD
EOFI	EOFI	EOFI	KP6	N	FUNCTIONAL	Y	GENERIC	EOD
FLIPDATE	FLIPDATE	FLIPDATE	KP6	N	FUNCTIONAL	Y	GENERIC	EOFI
RELEASE_CUTOFF	RELEASE_CUTOFF	RELEASE_CUTOFF	KP6	N	FUNCTIONAL	Y	GENERIC	FLIPDATE

As per above table, the CUTOFF category runs first. Then the EOD executes then EOFI and Housekeeping run in parallel and so on.

Batch Category Job Mapping Table

This configuration table lays out the job execution sequence within a category by defining the dependency of jobs on one another. In most cases this is a pre-seeded configuration based on functional capabilities provided in the product. As part of our example - The RP jobs are placed in the EOD category.

Table 3-171 Batch Category Table

Category Code	Job Code	Enabled	Depends On Job	Depends On Category
CUTOFF	MARKCUTOFF_JOB	Y		
EOD	DT_RP_RESP_CMC_TO_OBRL	Y	RP_CALC_JOB	EOD
EOD	RP_CALC_JOB	Y	FA_SLP_TB_FACT_CHANGE_DETAILS	EOD
EOD	FA_SLP_TB_FACT_CHANGE_DETAILS	Y	DT_SLP_TB_FACT_CHANGE_DETAILS	EOD
EOD	DT_SLP_TB_FACT_CHANGE_DETAILS	Y		
HOUSEKEEPING	CHRGSINBOUNDHISTJOB	Y		
HOUSEKEEPING	EVENTDIARYHISTJOB	Y		
EOFI	Markeofi	Y		
FLIPDATE	flipdate	Y		

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Table 3-171 (Cont.) Batch Category Table

Category Code	Job Code	Enabled	Depends On Job	Depends On Category
RELEASE_CUTOFF	Releasecutoff	Y		
RELEASE_CUTOFF	MARK_TI	Y	Releasecutoff	RELEASE_CUTOFF

Batch Job Table:

This configuration table defines the job execution parameters. In most cases this is a pre-seeded configuration based on in-house performance tuning exercises conducted.

Table 3-172 Batch Category Table

jobCode	jobDesc	jobType	isMultiRun	pollIntervalInSec	runTmOutInSec	triggerDefinition	jobVisibility	apiMethodType	apiUri
MARKCUTOFF_JOB	MARKCUTOFF_JOB	API	N	2	900		FUNCTIONAL	POST	http://CMC-BRANCH-SERVICES/cmc-branch-services/batch/markcutoff
DT_SLP_TB_FACT_CHANGE_DETAILS	DT_SLP_TB_FACT_CHANGE_DETAILS	API	Y	5	3600		TECHNICAL	POST	http://DF-SCHEMA-EXPLORER-SERVICE/df-schema-explorer-service/transportTrigger/transport/

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Table 3-172 (Cont.) Batch Category Table

jobCode	jobDesc	jobType	isMultiRun	pollIntervalInSec	runTmOutInSec	triggerDefinition	jobVisibility	apiMethodType	apiUri
DT_RP_RESP_CMC_TO_OBRL	DT_RP_RESP_CMC_TO_OBRL	API	Y	5	3600		TECHNICAL	POST	http://DF-SCHEMA-EXPLORER-SERVICE/df-schema-explorer-service/transportTrigger/transport/
RP_CALC_JOB	RP_CALC_JOB	BATCH	N	30	3600	RP_CALC_JOB_TRG_DEFN	FUNCTIONAL		
FA_SLP_TB_FACT_CHANGE_DETAILS	FA_SLP_TB_FACT_CHANGE_DETAILS	BATCH	N	30	3600	FA_SLP_TB_FACT_CHANGE_DETAILS_TRG_DEFN	FUNCTIONAL		
CHRGSINBOUNDHISTJOB	CHRGSINBOUNDHISTJOB	API	N	2	900		FUNCTIONAL	POST	http://DF-SCHEMA-EXPLORER-SERVICE/df-schema-explorer-service/transportTrigger/transport/

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Table 3-172 (Cont.) Batch Category Table

jobCode	jobDesc	jobType	isMultiRun	pollIntervalInSec	runTmOutInSec	triggerDefinition	jobVisibility	apiMethodType	apiUri
EVENTDIARYHISTJOB	EVENTDIARYHISTJOB	API	N	2	900		FUNCTIONAL	POST	http://DF-SCHEMA-EXPLORER-SERVICE/df-schema-explorer-service/transportTrigger/transport/
Markeofi	Markeofi	API	N	2	900		FUNCTIONAL	POST	http://CMC-BRANCH-SERVICES/cmc-branch-services/batch/markeofi
flipdate	flipdate	API	N	2	900		FUNCTIONAL	POST	http://CMC-BRANCH-SERVICES/cmc-branch-services/batch/flipdate
Releasecutoff	Releasecutoff	API	N	2	900		FUNCTIONAL	POST	http://CMC-BRANCH-SERVICES/cmc-branch-services/batch/releasecutoff

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Table 3-172 (Cont.) Batch Category Table

jobCode	jobDesc	jobType	isMultiRun	pollIntervalInSec	runTmOutInSec	triggerDefinition	jobVisibility	apiMethodType	apiUri
MARK_TI	MARK_TI	API	N	2	900	11	FUNCTIONAL	POST	http://CMC-BRANCH-SERVICES/cmc-branch-services/batch/markti

A description of the job fields is given below :

Table 3-173 Description of the job fields

job field	Description
jobCode	A unique identifier code assigned to each job configuration.
jobDesc	A textual description providing details about the purpose or function of the job.
jobType	Specifies the category or type of job (example, API, BATCH).
pollIntervalInSec	The interval, in seconds, at which the system checks the job's status or triggers its execution.
runTmOutInSec	The maximum allowed runtime, in seconds, before the job is automatically terminated (timeout).
triggerDefinition	Details or parameters defining what triggers the job execution (example, schedule, event, condition).
jobVisibility	Defines the visibility or access level of the job (example, public, private, internal).
apiMethodType	Specifies the HTTP method used by the job's API (example, GET, POST, PUT, DELETE).
apiUri	The API endpoint URI that the job interacts with or calls during execution.

Execution Steps:

Screen:Batch Job Operations

Execute Batch Category for current date.

3.21 Product Manufacturing

This topic provides information on product manufacturing unit.

Product Manufacturing or Product Designer is a feature by which one can configure banking products like Loans, CASA, TD, and non-banking products like Insurance for example. Different domains and product processors use the products for various transactional purposes. It supports end-to-end creation of Products and Product Offers for Banking and Insurance

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products throughout the customer life cycle from onboarding to servicing and default management.

Currently the Product Designer supports the following features:

- Inquire loan products from existing Oracle Banking Retail Loans Servicing
- Inquire savings products from existing Oracle Banking Accounts
- Quick launch of product variants from the retail loans, savings portfolio of Oracle Banking by creating a copy of existing products and tweaking its attributes.

This topic contains the following subtopics:

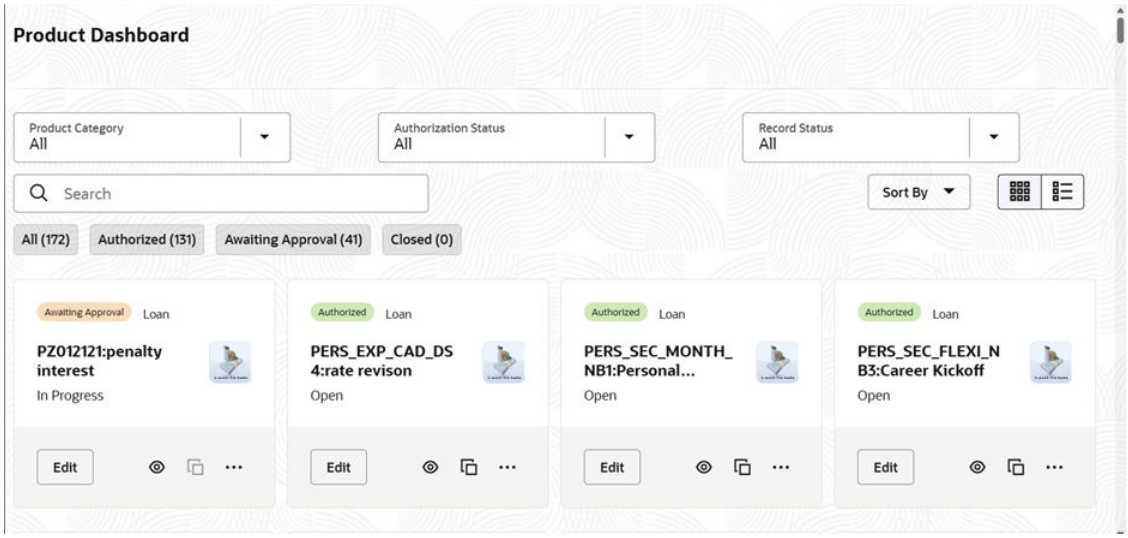
- Product Dashboard
  This topic provides information on the product dashboard.
- Bundle Maintenance
  This topics describes about bundle maintenance.

3.21.1 Product Dashboard

This topic provides information on the product dashboard.

The **Product Dashboard i**s a UI catalog that represents all banking products, such as Loans and CASA. It supports these two product types and is designed to facilitate the quick launch of products by allowing users to create copies of existing ones efficiently.

Figure 3-183 Product Dashboard



The Dashboard consists of Loans and Savings products retrieved from individual GET endpoints of separate microservices. The available filter options are:

- **Product Category**
  - **All**
  - **Loans**
  - **Savings**

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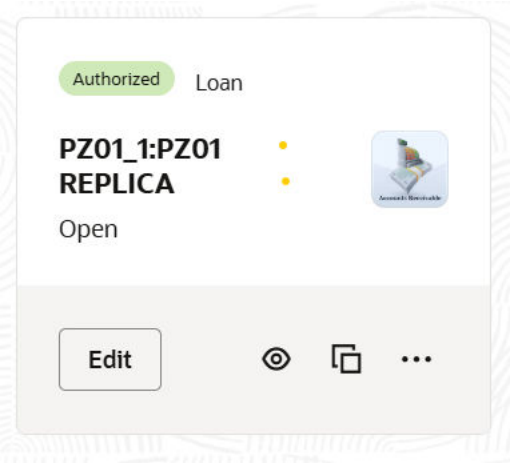
- **Authorization Status**
  - **All**
  - **Authorized**
  - **Unauthorized**
- **Record Status**
  - **All**
  - **Open**
  - **In Progress**
  - **Closed**

Figure 3-184 Example of a Tile



1. On the specific record, click the icon to view the product details on the next screen in read-only mode.

   The Product Details in View Mode is displayed.

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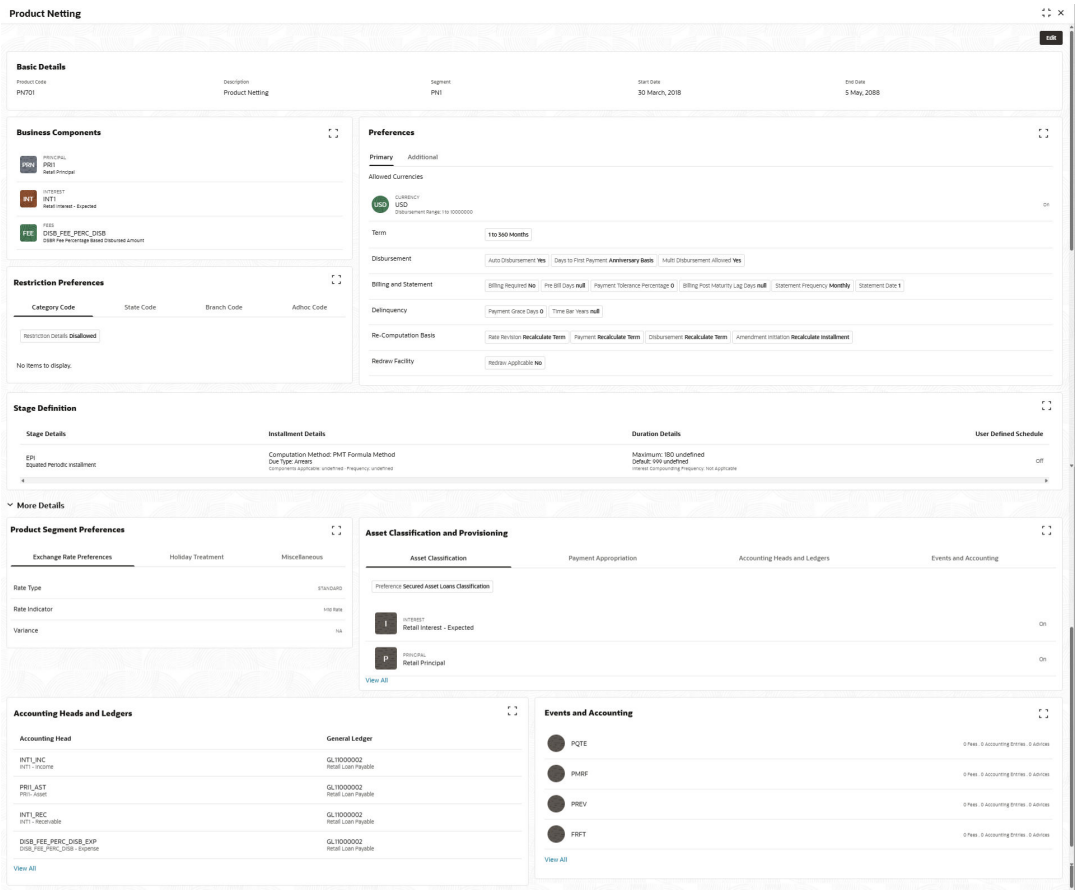
Figure 3-185 Product Details - View Mode



2. Click **Edit** button at the top right corner to open the product details in edit mode.

   The Product Details in Exit Mode is displayed.

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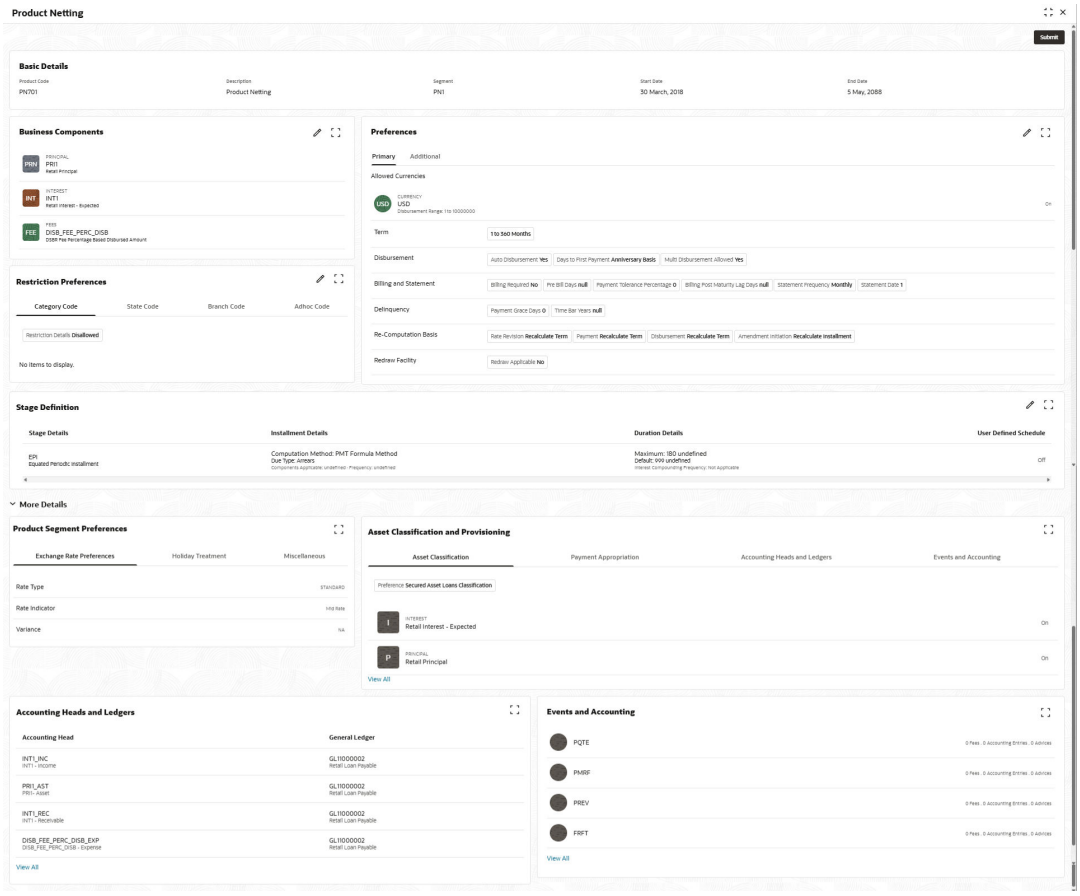
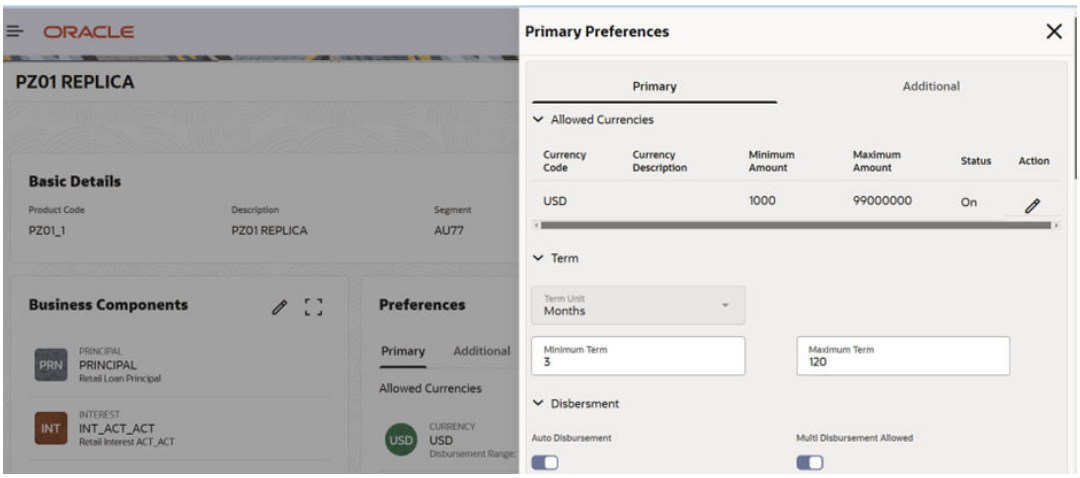
Figure 3-186 Product Details - Edit Mode



3. Click the icon on each widget to provide additional details and edit the values.

Figure 3-187 Edit Mode of the Widget



4. Click **Submit** to submit the details.

5. Click the to copy the details.

   The **Basic Details** screen is displayed.

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Figure 3-188 Basic Details

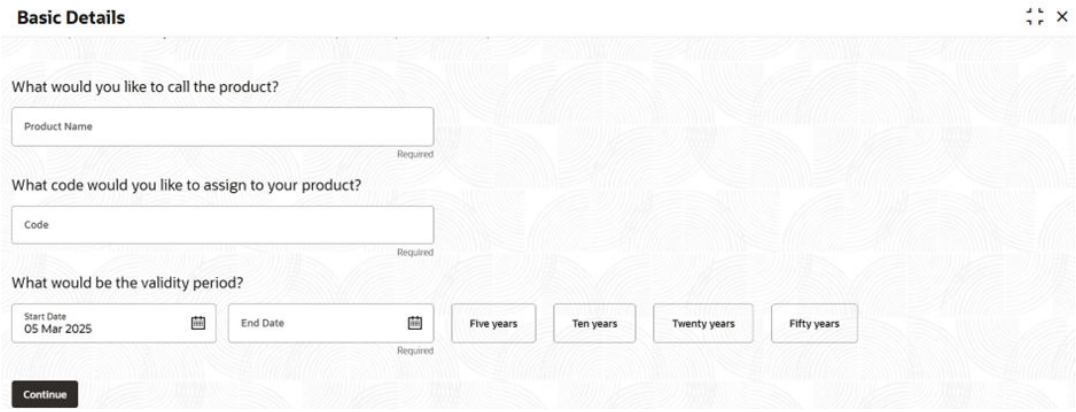

Table 3-174 Basic Details

Field	Description
Product Code	Specify the name of the product code.
Product Name	Specify the description of the product name.
Validity Period	Specify the start and end dates.

3.21.2 Bundle Maintenance

This topics describes about bundle maintenance.

This topic contains the following subtopics:

- Create Bundle
  This topic describes about the systematic instructions of creating a bundle.
- View Bundle
  This topic provides the systematic instructions to view the list of configured bundle.

3.21.2.1 Create Bundle

This topic describes about the systematic instructions of creating a bundle.

This topic contains the following subtopics:

- Basic Details
  This topic describes about the systematic instructions on basic details of creating a bundle.
- Bundle Products
  This topic describes about the systematic instructions on bundle products.
- Benefits
  This topic describes about the systematic instructions on benefits.
- Attributes
  This topic describes about the systematic instructions on attributes.
- Review
  This topic describes about the systematic instructions on review.

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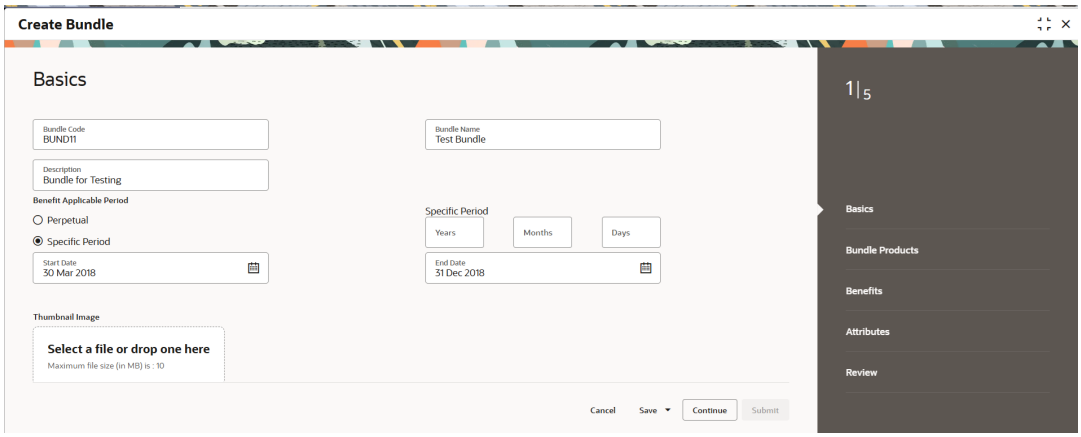
3.21.2.1.1 Basic Details

This topic describes about the systematic instructions on basic details of creating a bundle.

1. From **Home** screen, click **Product Manufacturing Unit**. Under **Product Manufacturing Unit**, click **Bundle**.
2. Under **Bundle**, click **Create Bundle**.

   The **Basic Details** screen is displayed.

Figure 3-189 Basic Details



3. Specify the fields on the **Basic Details** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 3-175 Create Basic Details - Field Description

Field	Description
Bundle Code	Specify the unique code for the bundle.
Bundle Name	Specify the unique name for the bundle code.
Description	Specify the description for the bundle code.
Benefit Applicable Period	Select the applicable period from the list. The available options are: • **Perpetual** • **Specific Period**
Specific Period	Specify the period in **Years**, **Months**, and **Days**. This field gets displayed only if the **Benefit Applicable Period** is selected as **Specific Period**.
Start Date	Specify the start date for the bundle. It should be current system date or future date. The system will not allow backdated start date.

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Table 3-175 (Cont.) Create Basic Details - Field Description

Field	Description
End Date	Specify the end date for the bundle, and the system will allow the future date.
Thumbnail Image	Click the **Select a file or drop one here** and select the file from the local folder. **Note:** • The file upload limit is 10 MB. • The formats supported for the upload are PNG, JPG and JPEG.

4. Perform one of the following action:
   - Click **Cancel** to discard the changes and close the screen.
   - Click **Save and Close** or **Save** to save or save and close the details.
   - Click **Continue** to save and navigate to the next screen (**Bundle Products**).

3.21.2.1.2 Bundle Products

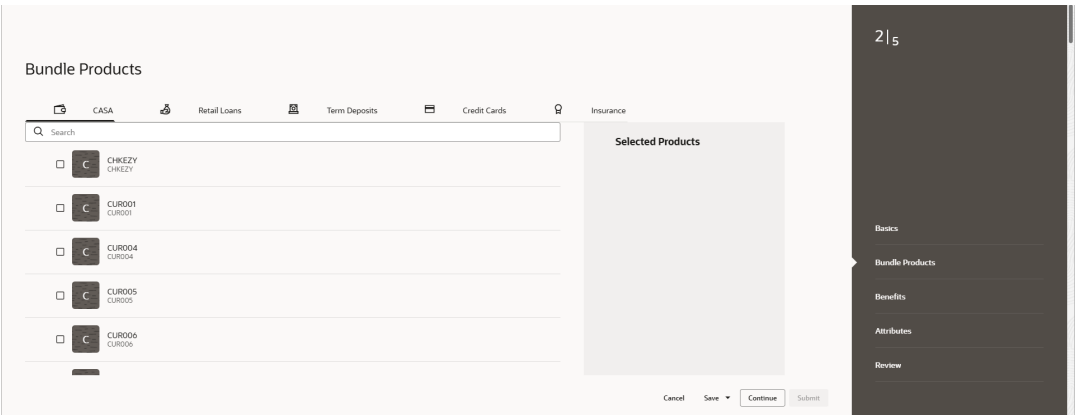
This topic describes about the systematic instructions on bundle products.

1. Click **Continue** in the **Basic Details** screen to add the bundle products.

   The **Bundle Products** screen is displayed.

> **Note**
>
> Minimum of two products has to be selected from the bundle products.

Figure 3-190 Bundle Products



2. Specify the fields on the **Bundle Products** screen.

   For more information on fields, refer to the field description table.

Table 3-176 Bundle Products - Field Description

Field	Description
CASA	Select the products from the available list.

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Table 3-176 (Cont.) Bundle Products - Field Description

Field	Description
Retail Loans	Select the products from the available list.
Term Deposits	Select the products from the available list.
Credit Cards	Select the products from the available list.
Insurance	Select the products from the available list.

3. Perform one of the following action:
   - Click **Cancel** to discard the changes and close the screen.
   - Click **Save and Close** or **Save** to save or save and close the details.
   - Click **Continue** to save and navigate to the next screen (**Benefits**).

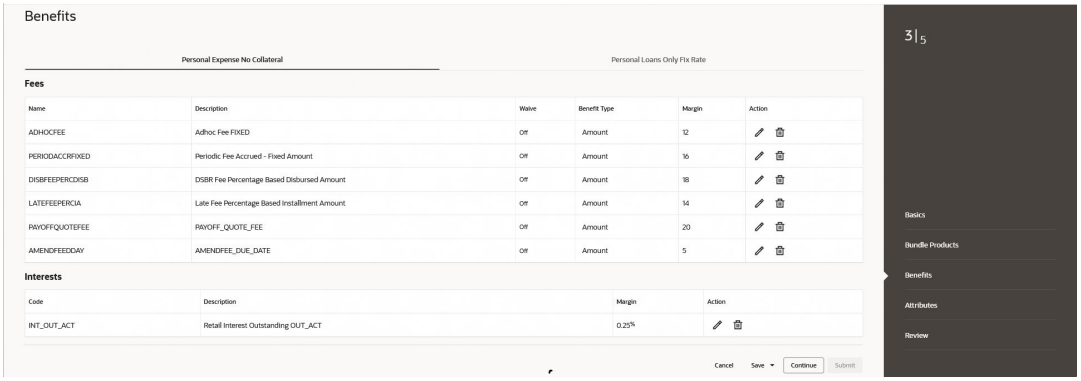
3.21.2.1.3 Benefits

This topic describes about the systematic instructions on benefits.

1. Click **Continue** in the **Bundle Products** screen to define the benefits.

   The **Benefits** screen is displayed.

Figure 3-191 Benefits



2. Specify the fields on the **Benefits** screen.

   For more information on fields, refer to the field description table.

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Table 3-177 Benefits - Field Description

Field	Description
Fees	For each fee, click the **Edit** icon to modify the details. If waive toggle is enabled. the **Benefit Type** and **Margin** are displayed. Under **Benefit Type**, the available options are: • **NA** • **Amount** • **Percentage** For **Margin**, • If the margin amount or percentage is greater than 0, it will be added to the original fees. • If the margin amount or percentage is less than 0, it will be reduced from the original fees. **Note**: • The Bundle Code, Bundle Type, Benefits Applicable Tenure and benefits applicable end-date will be stored against the respective loan account. The benefits applicable end-date will be updated as the account maturity date. • If **Bundle Type** is **Perpetual**, the Benefits → Fee Spread will be the final fee amount will be included in the account onboarding request. And if **Bundle Type** is **Specific tenor**, in event of the component in question not defined in the bundle code, the Bundle Margin Amount will be returned as 'Zero'. • If **Bundle Type** is **Specific tenor**, the Benefits → Fee Waiver is supported. In this case as the fees are waived, the Bundle Margin amount will be equal to the Original Fee amount with the resultant Final Fee Amount amount being zero. And if **Bundle Type** is **Perpetual**, in this case as the fees are waived, the Bundle Margin amount will be equal to the Original Fee amount with the resultant Final Fee Amount amount being zero.
Interest	For each interest, click the **Edit** icon to modify the details. For **Margin**, • If the margin percentage is greater than 0, it will be added to the original interest rate. • If the margin percentage is less than 0, it will be reduced from the original interest rate. **Note**: It supports an interest benefit for the entire loan tenor (perpetual), but it does not support an interest benefit for a specific, limited tenor.

> **Note**
>
> The same action can be informed for every bundle product.

3. Perform one of the following action:
   - Click **Cancel** to discard the changes and close the screen.
   - Click **Save and Close** or **Save** to save or save and close the details.
   - Click **Continue** to save and navigate to the next screen (**Attributes**).

3.21.2.1.4 Attributes

This topic describes about the systematic instructions on attributes.

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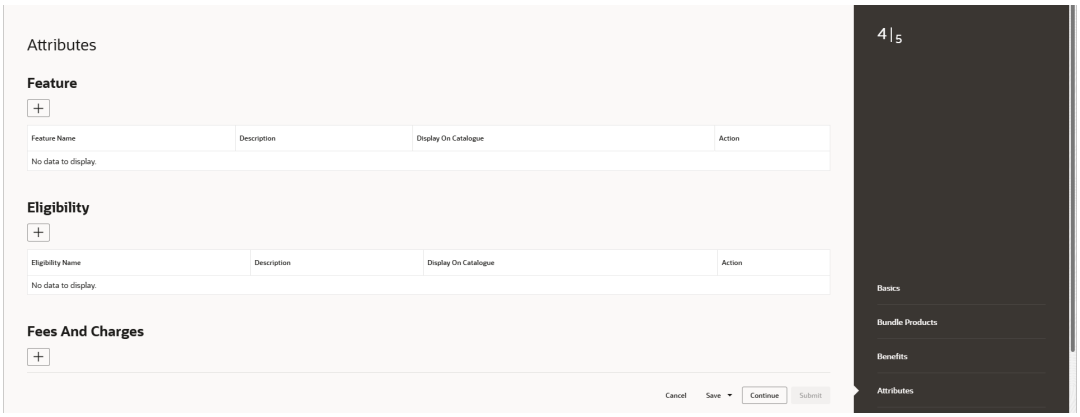
1. Click **Continue** in the **Benefits** screen to define the attributes.

   The **Attributes** screen is displayed.

Figure 3-192 Attributes



2. Specify the fields on **Attributes** screen.

   For more information on fields, refer to the field description table.

Table 3-178 Attributes - Field Description

Field	Description
Feature	Click **+** icon to specify the details under feature. **Feature** - Specify the feature name. **Description** - Specify the description of the feature. **Display On Catalogue** - Click the toggle status to enable this parameter.
Eligibility	Click **+** icon to specify the details under feature. **Eligibility Name** - Specify the eligibility name. **Description** - Specify the description of the eligibility name. **Display On Catalogue** - Click the toggle status to enable this parameter.
Fees And Charges	Click **+** icon to specify the details under feature. **Fees and Charge** - Specify the fees and charges name. **Description** - Specify the description of the fees and charges name. **Display On Catalogue** - Click the toggle status to enable this parameter.

3. Perform one of the following action:
   - Click **Cancel** to discard the changes and close the screen.
   - Click **Save and Close** or **Save** to save or save and close the details.
   - Click **Continue** to save and navigate to the next screen (**Review**).

3.21.2.1.5 Review

This topic describes about the systematic instructions on review.

1. Click **Continue** in the **Attributes** screen to review the details.

   The **Review** screen is displayed.

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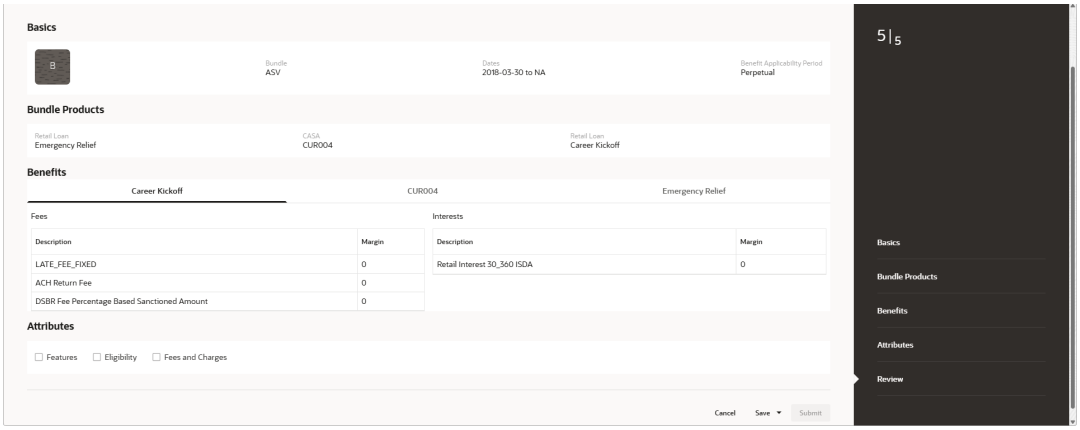
Figure 3-193 Review



The details specified under sub-screen are displayed.

User can review the details:

- **Basics**
- **Bundle Products**
- **Benefits**
- **Attributes** - The checkbox will be ticked only if the details are defined.

2. Perform one of the following action:
   - Click **Cancel** to discard the changes and close the screen.
   - Click **Save and Close** or **Save** to save or save and close the details.
   - Click **Submit** to submit the details.

3.21.2.2 View Bundle

This topic provides the systematic instructions to view the list of configured bundle.

1. From **Home** screen, click **Product Manufacturing Unit**. Under **Product Manufacturing Unit**, click **Bundle**.
2. Under **Bundle**, click **View Bundle**.

   The **View Bundle** screen is displayed.

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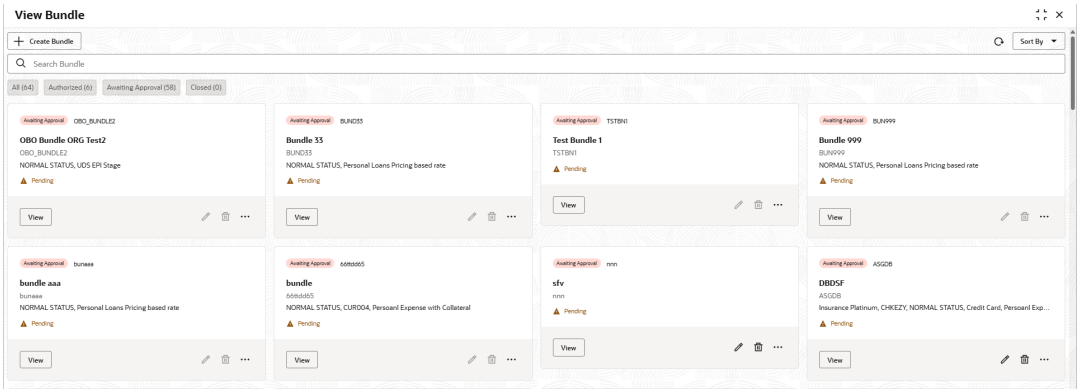
Figure 3-194 View Bundle



The **View Bundle** will have a Search bar to search results on Bundle Name. There is a Sort By with available values:

- Oldest First
- Newest First
- A-Z
- Z-A

The screen has filter options. The available options are:

- All
- Authorization Status
  - **Authorized**
  - **Awaiting Approval**
- Record Status
  - **Closed**

For more information on fields, refer to the field description table.

Table 3-179 View Bundle – Field Description

Field	Description
Bundle Code	Displays the code for the bundle.
Bundle Name	Displays the bundle name.
Description	Displays the description code selected.
Host Products	Displays the host products in the bundle.
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Awaiting Approval**
Record Status	Displays the status of the record. The options are: • **Active** • **Closed** • **Pending**

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Table 3-179 (Cont.) View Bundle – Field Description

Field	Description
View	Displays the bundle in read-only mode.
Edit	Enables the user to edit the bundle.
Delete	Enables the user to delete the bundle.
Close	Enables the user to close the bundle.
Authorize	Enables the user to authorize a bundle which is awaiting approval.
Reopen	Enables the user to reopen a closed bundle.

3. Click **View** to displays the details.
4. Click **Edit** to edit the details.

3.22 Batch Category

This topic describes the information to view the batch summary, maintenance and its operations.

This topic contains the following subtopics:

- Batch Job Maintenance
  This topic describes the systematic instructions to configure the category and job details.
- Batch Job Operations
  This topic describes the systematic instructions for operating a batch job.
- View Batch Job Summary
  This topic describes the systematic procedures used to view batch job summaries.

3.22.1 Batch Job Maintenance

This topic describes the systematic instructions to configure the category and job details.

This topic contains the following subtopics:

- Category Details
  This topic describes the systematic procedures used to create the category details.
- Job Details
  This topic describes the systematic procedures used to create the job details.

3.22.1.1 Category Details

This topic describes the systematic procedures used to create the category details.

1. From **Home** screen, click **Retail Lending**. Under **Retail Lending**, click **Maintenance**.
2. Under **Maintenance**, click **Batch Category**, then click **Batch Job Maintenance**.

   The **Batch Job Maintenance - Category Details** screen is displayed.

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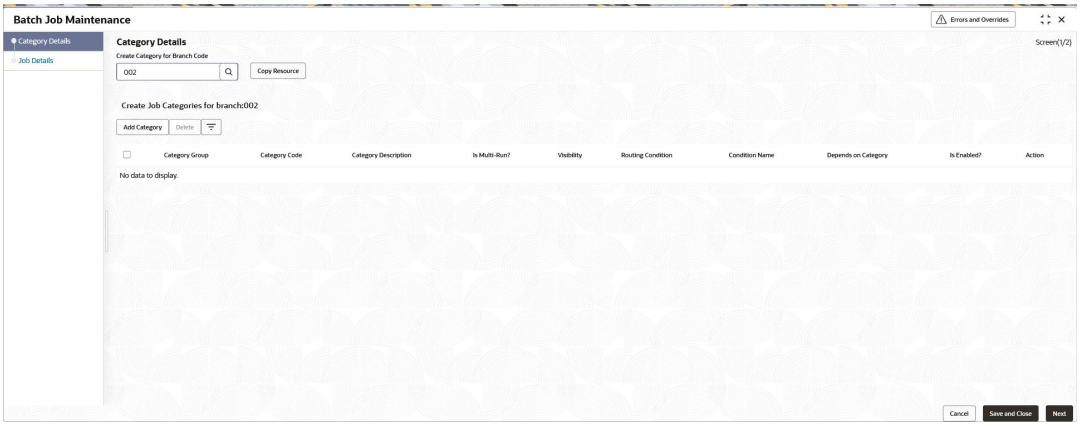
Figure 3-195 Batch Job Maintenance - Category Details



3. Specify the fields on the **Batch Job Maintenance - Category Details** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 3-180 Batch Job Maintenance - Category Details - Field Description

Field	Description
Create Category for Branch Code	Click 🔍 and select the branch code from the list. **Note**: The Batch Job Operations module supports the use of the "." wildcard to represent 'ALL' branches.

4. Click **Copy Resource** button to copy resource.

   The **Copy Resource** screen is displayed.
   For more information on fields, refer to the field description table.

Figure 3-196 Copy Resource

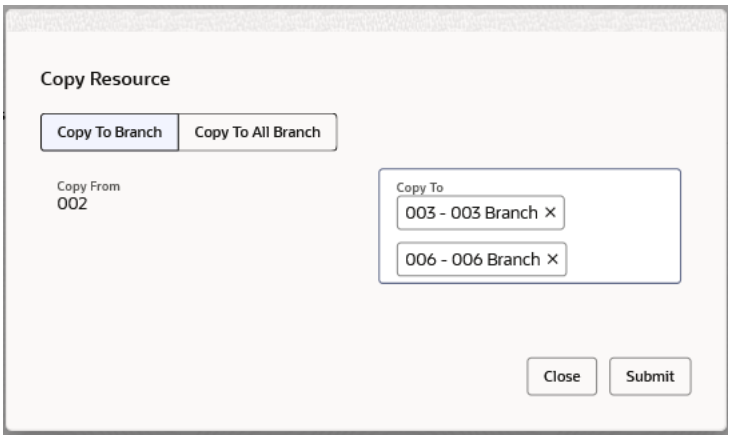


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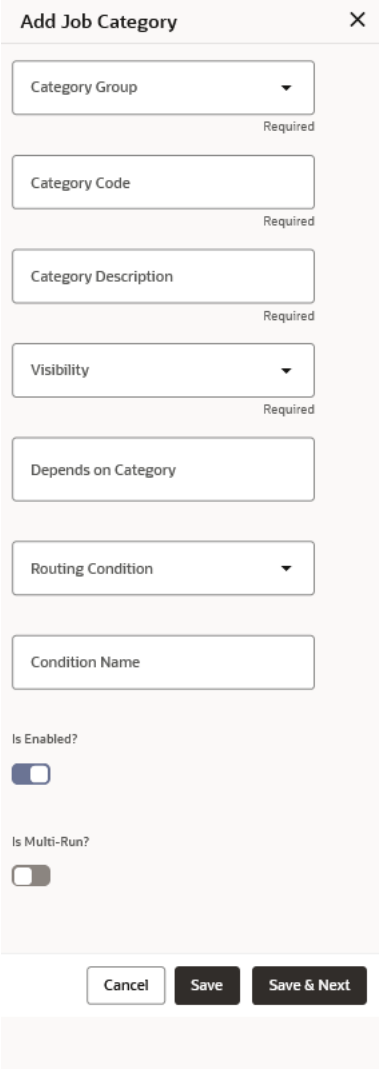
Table 3-181 Copy Resource - Field Description

Field	Description
Copy To Branch	Select the copy to from the drop-down list. The branch code are displayed in the drop-down.
Copy To All Branch	Select the copy from the drop-down list.

5. Click on **Add Category** to create the job categories for the branch selected.

   The **Add Job Category** screen is displayed.

Figure 3-197 Add Job Category



6. Specify the fields on the **Add Job Category** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

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Table 3-182 Add Job Category

Field	Description
Category Group	Select the category group from the drop-down list. The available options are: • **GENERIC** • **CUTOFF** • **EOD** • **HOUSEKEEPING** • **EOFI** • **FLIPDATE** • **BOD** • **RELEASE_CUTOFF**
Category Code	Specify the unique code for every branch.
Category Description	Specify the description of the category code.
Visibility	Select the visibility from the drop-down list. The available options are: • **Functional** • **Technical** • **Any**
Depends on Category	Select the depends on category from the drop-down list.
Routing Condition	Select the condition from the drop-down list. The available options are: • **METHOD_BASED**
Condition Name	Specify the condition name for the category.
Is Enabled?	Click the toggle status to enable the parameter.
Multi-Run?	Click the toggle status to enable the parameter.

7. Perform one of the following action:
   - Click **Cancel** to discard the changes and close the screen.
   - Click **Save and Close** or **Save** to save or save and close the details.
   - Click **Next** to save and navigate to the next screen (**Job Details**).

3.22.1.2 Job Details

This topic describes the systematic procedures used to create the job details.

1. Click **Next** on the **Batch Job Maintenance** screen.

   The **Batch Job Maintenance - Job Details** screen is displayed.

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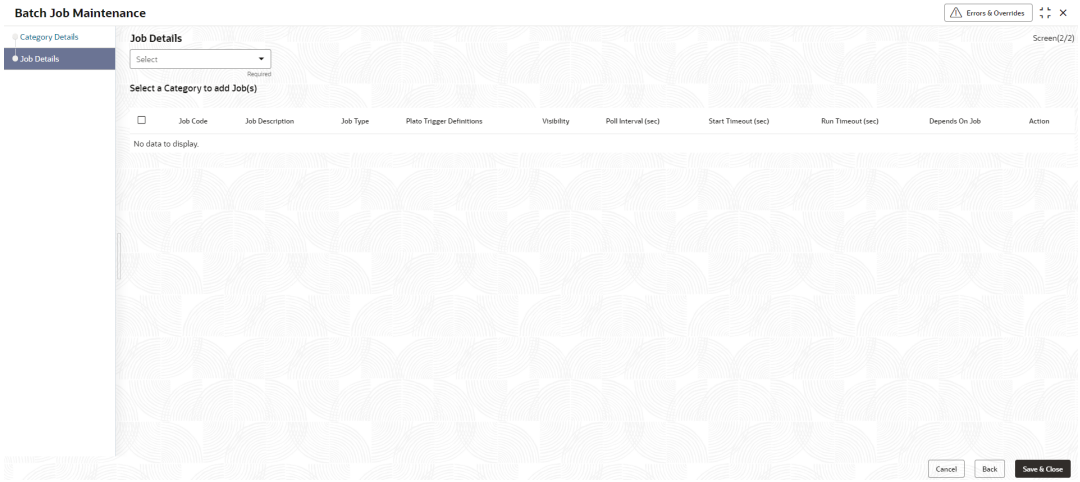
Figure 3-198 Batch Job Maintenance - Job Details



2. Specify the fields on the **Batch Job Maintenance - Job Details** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 3-183 Batch Job Maintenance - Job Details - Field Description

Field	Description
Job Details	Select the job details from the drop-down list. The categories groups defined in the ce

3. Click **Graph View** button to display the details in the graphical format.

   The **Graph View of Categories And Jobs** screen is displayed.

4. Click **Add Job** to create job under specified category.

   The **Create Job under Category** screen is displayed.

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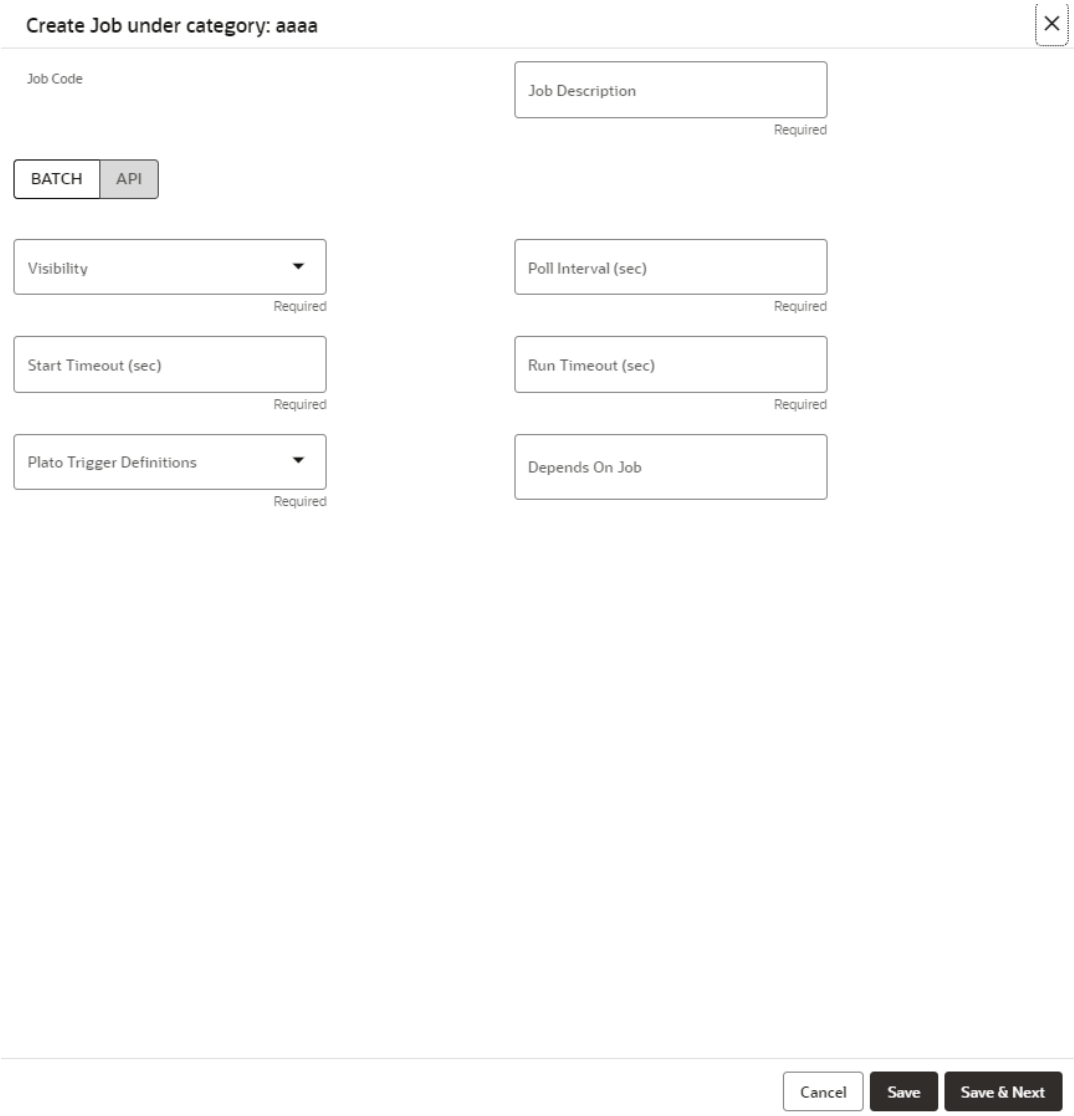
Figure 3-199 Create Job under Category



5. On the **Create Job under Category** screen, click **BATCH** tab to define configuration.

   The **BATCH** screen is displayed.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

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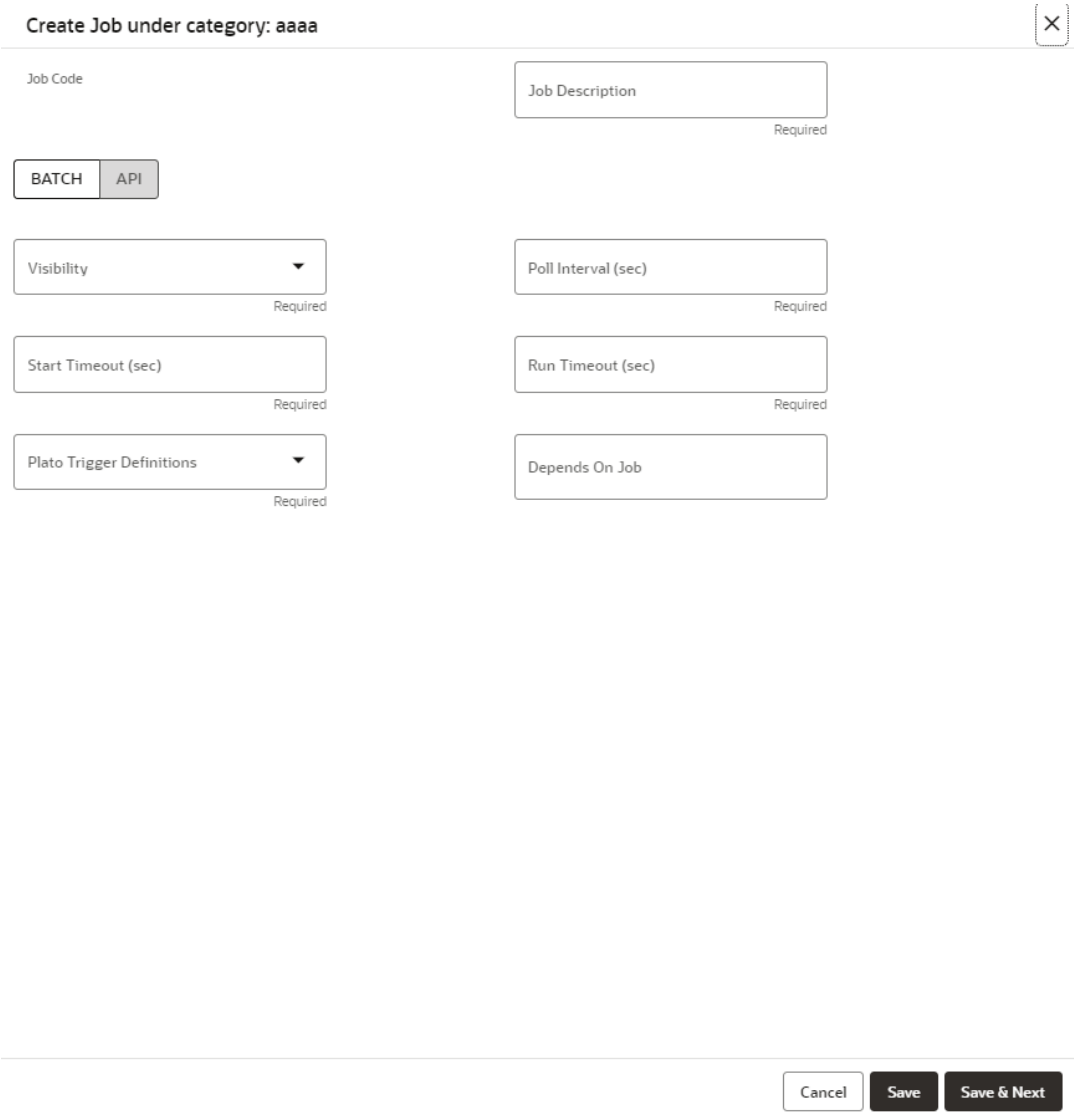
Figure 3-200 BATCH



For more information on fields, refer to the field description table.

Table 3-184 Create Job under Category - BATCH - Field Description

Field	Description
Job Code	Displays the job code based on the selected trigger definitions.
Job Description	Displays the description of the job based on the selected trigger definitions.
Visibility	Displays the visibility for the job selected. User can modify the same.
Poll Interval (sec)	Displays the details of poll interval in seconds. User can modify the same.
Start Timeout (sec)	Displays the start timeout in seconds. User can modify the same.

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Table 3-184 (Cont.) Create Job under Category - BATCH - Field Description

Field	Description
Run Timeout (sec)	Displays the run timeout in seconds. User can modify the same.
Plato Trigger Definitions	Select the Plato trigger definitions from the drop-down list.
Depends On Job	Select the job from the drop-down list. The available options are: • **TBSDateChange** • **flipdate**
Failure Threshold	Displays the failure threshold. User can modify the same.

6. On the **Create Job under Category** screen, click **API** tab to define configuration.

   The **Create Job under Category - API** screen is displayed.

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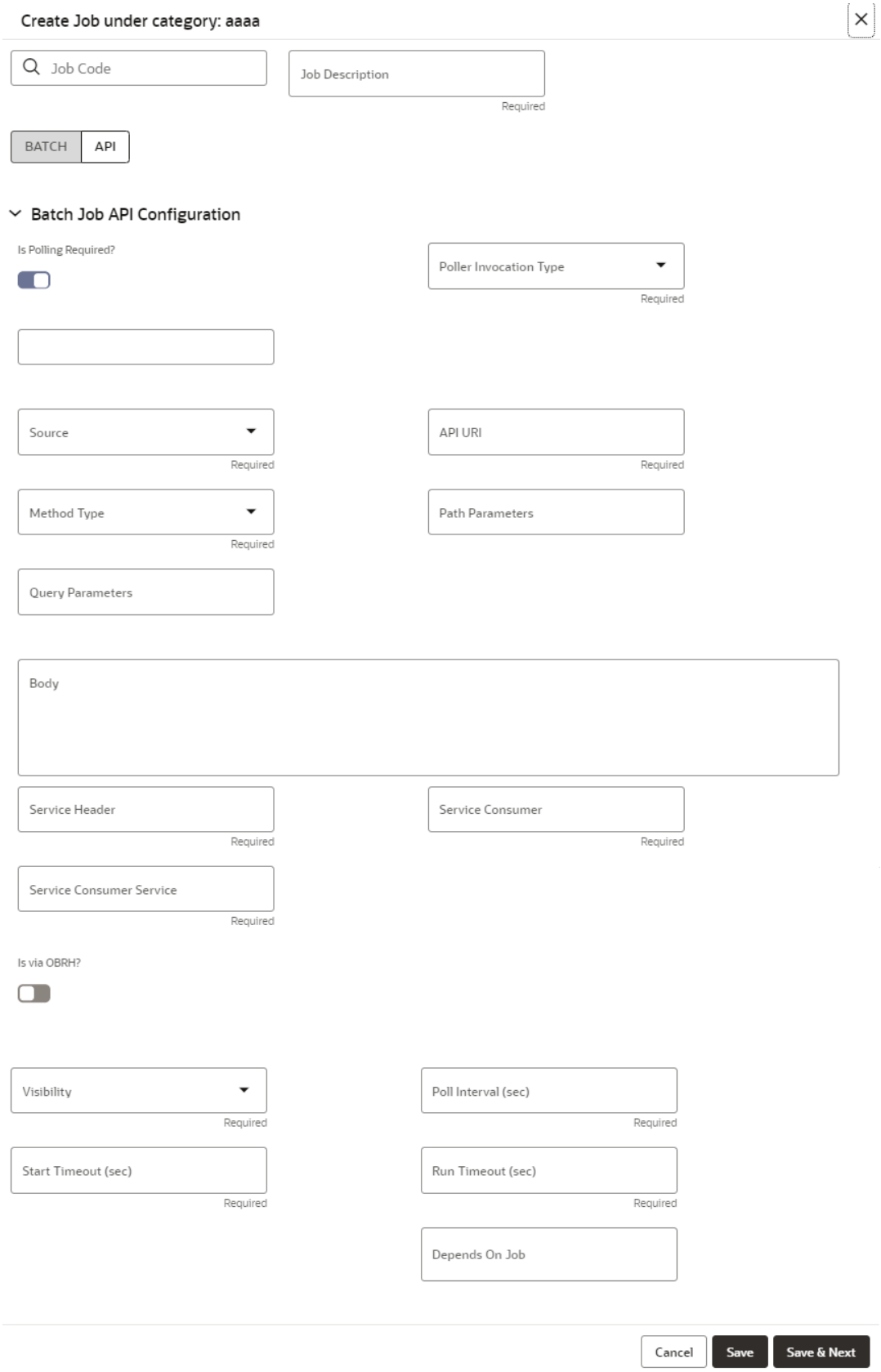
Figure 3-201 Create Job under Category - API



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For more information on fields, refer to the field description table.

Table 3-185 Create Job under Category - API - Field Description

Field	Description
Job Code	Click icon and select the code from the list.
Job Description	Displays the description of the job based on the selected job code.
Is Polling Required?	Click this toggle status to enable this feature.
Poller Invocation Type	Displays the poller innovation type. Select the type from the drop-down list. User can modify the same. The available options are: • **STREAM** • **LIBRARY**
Poller Job Name	Specify the job name of the poller.
Source	Displays the source as **Input** from the list. User can modify the same.
API URI	Displays the URI of the API for the selected job code. User can modify the same.
Method Type	Displays the method for the selected job code. User can modify the same.
Path Parameters	Specify the path parameters for the job code.
Query Parameters	Displays the query parameters for the job. User can modify the same.
Body	Displays the body. User can modify the same.
Service Header	Displays the service header for the job code.
Is via OBRH?	Click the toggle status to enable this feature.
Service Consumer	Specify the service consumer for the job. This field gets displayed only if the **Is via OBRH?** toggle is enabled.
Service Consumer Service	Specify the service consumer for the job. This field gets displayed only if the **Is via OBRH?** toggle is enabled.

7. Perform one of the following action:
   - Click **Cancel** to discard the changes and close the screen.
   - Click **Back** to get to previous screen.
   - Click **Save and Close** to save the details.

3.22.2 Batch Job Operations

This topic describes the systematic instructions for operating a batch job.

1. On **Home** screen, click **Retail Lending**, under **Retail Lending**, click **Maintenance**.
2. Under **Maintenance**, click **Batch Category**, under **Batch Category**, click **Batch Job Operations**.

   The **Batch Job Operations** screen is displayed.

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Figure 3-202 Batch Job Operations

3. Specify the fields on **Batch Job Operations** screen.

   For more information on fields, refer to the field description table.

Table 3-186 Batch Job Operations - Field Description

Field	Description
Branch Code	Click and select the branch code from the list. **Note**: The Batch Job Operations module supports the use of the **"."** wildcard to represent 'ALL' branches. User can search the record by **"."**
Time Period	Select the time period from the drop-down list. The available options are: • **Today** • **Yesterday** • **Date** • **Previous Working Day**
Today Till Next Working date	Displays the date of the next working date. This field gets displayed only if the **Time Period** is selected as **Today**.
Date	Select the date. This field gets displayed only if the **Time Period** is selected as **Date**.
Till Today	Displays the date of the till today. This field gets displayed only if the **Time Period** is selected as **Previous Working Day**.
Allow auto refresh	Toggle status to set the time for auto refresh.

4. Click on **Allow auto refresh** toggle status to set the time for auto refresh.

   The **Set Auto Refresh** screen is displayed.

Figure 3-203 Set Auto Refresh

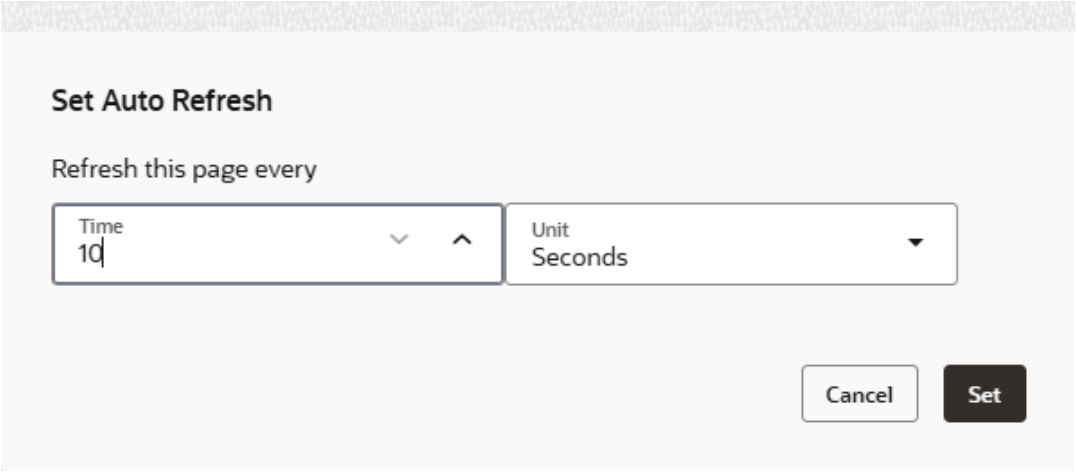

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Table 3-187 Set Auto Refresh - Field Description

Field	Description
Time	Specify the time internal for which the batch has to auto refresh.
Unit	Select the unit as **Seconds** from the drop-down list.

5. Click on **Graph View** to displays the details in graphical format.

Figure 3-204 Graph View

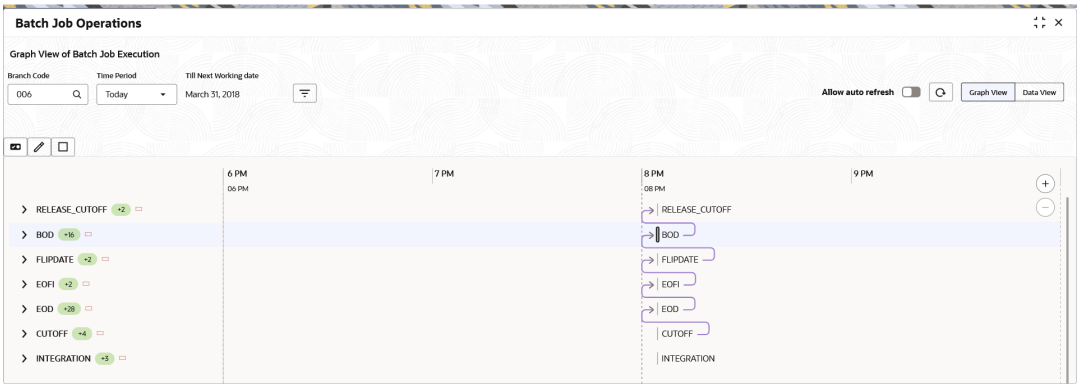

Table 3-188 Graph View - Field Description

Field	Description
Enable/Disable the Task button	Click to update the in all branches (***.***) if no specific maintenance record exists in Batch Job Maintenance. If a record already exists for a specific Branch Code, the system will update that branch-level data instead.
Update the Task Attribute button	Click to update task attributes in the all branches (***.***) if no specific maintenance record exists in Batch Job Maintenance. If a record already exists for a specific Branch Code, the system will update that branch-level data instead.
Stop the execution	Click to terminate the batch execution currently running for a specific branch.

6. Click on **Data View** to displays the details in table format.

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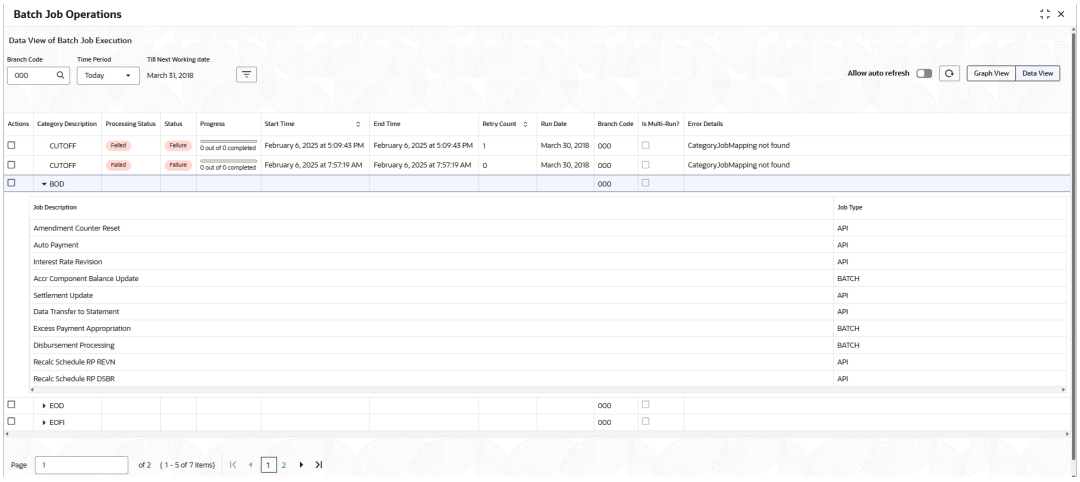
Figure 3-205 Data View



3.22.3 View Batch Job Summary

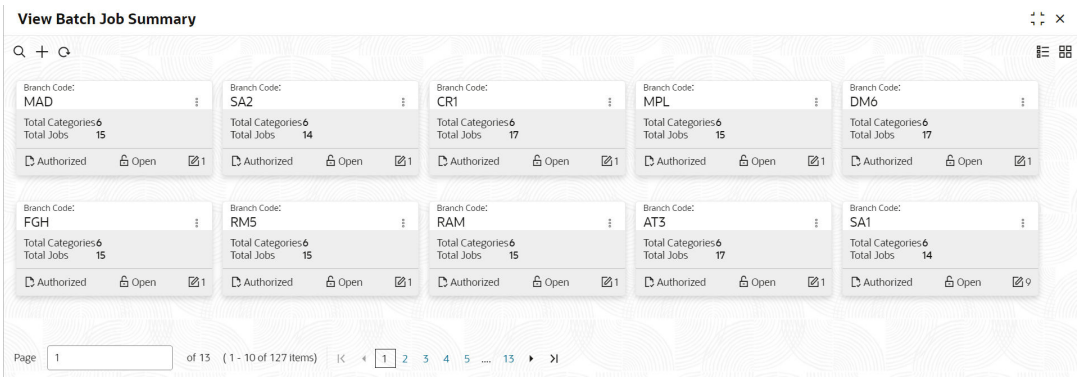
This topic describes the systematic procedures used to view batch job summaries.

Note: Refer the Batch Job Details attachment for the configuration details of batch jobs.

1. From **Home** screen, click **Retail Lending**. Under **Retail Lending**, click **Maintenance**.
2. Under **Maintenance**, click **Batch Category**, then click **View Batch Job Summary**.

   The **View Batch Job Summary** screen is displayed.

Figure 3-206 View Batch Job Summary



3. Specify the fields on the **View Batch Job Summary** screen.

Table 3-189 View Batch Job Summary - Field Description

Field	Description
Branch Code	Displays the branch code.
Total Categories	Displays the total number of categories.
Total Jobs	Displays the total number of Jobs.

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Table 3-189 (Cont.) View Batch Job Summary - Field Description

Field	Description
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

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4
NLP Framework

This topic describes about the NLP Framework provided in common core.

- Toolkit
  This topic describes the information about the toolkit used to design and train NLP / NER Model(s).
- Operation
  This topic describes the information about the trained models that are consumed for business processing.
- 3P Service Integration
  This topic provides description about the integration of third party services.

4.1 Toolkit

This topic describes the information about the toolkit used to design and train NLP / NER Model(s).

This topic contains the following subtopics:

- Use Case Definition
  This topic describes the information about the use case definition.
- Annotator
  This topic describes the information about the annotator.
- Model Training
  This topic describes the systematic instructions to train the model on the annoted training corpus.
- Model Management
  This topic describes the information about the Model Management.
- Model Import and Export Maintenance
  Models can be moved from one environment to another environment using Model import and export.

4.1.1 Use Case Definition

This topic describes the information about the use case definition.

The user cases are defined by the business domain. The required information to be extracted from the documents is driven by business consideration against the context of use case being defined.

The tags or entities are required for annotating or tagging the information in a source document to create training files for use case model training. These tags or entities are always driven by business considerations for a particular usage case.

The use case definition maintenance screen allows the user to define use case(s) and maintain specific list of tags for the use case.

This topic contains the following subtopics:

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- View Use Case Definition
  This topic describes the systematic instructions to view the list of defined use cases.
- Tag Maintenance
  This topic describes the systematic instructions to define use cases and maintain entities or tags for the use case.

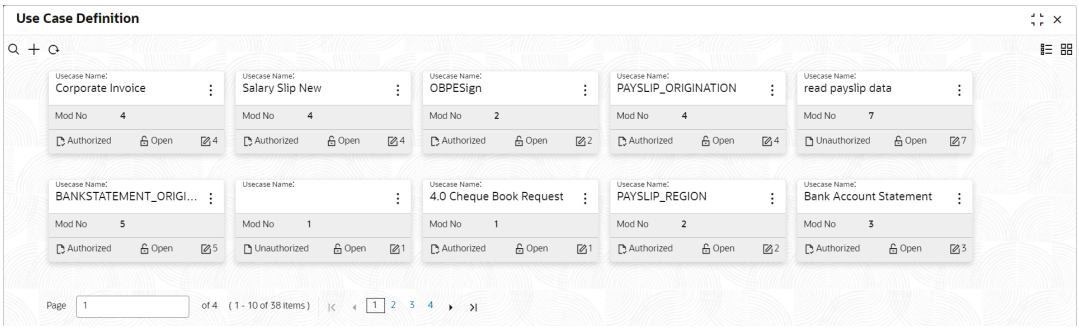
4.1.1.1 View Use Case Definition

This topic describes the systematic instructions to view the list of defined use cases.

1. From **Home** screen, click **Machine Learning**. Under **Machine Learning**, click **NLP Toolkit**.
2. Under **NLP Toolkit**, click **Use Case Definition**.

   The **Use Case Definition** screen is displayed.

Figure 4-1 Use Case Definition



For more information on fields, refer to the field description table.

Table 4-1 Use Case Definition – Field Description

Field	Description
Usecase Name	Displays the name of the use case.
Mod No	Displays the modification number.
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

4.1.1.2 Tag Maintenance

This topic describes the systematic instructions to define use cases and maintain entities or tags for the use case.

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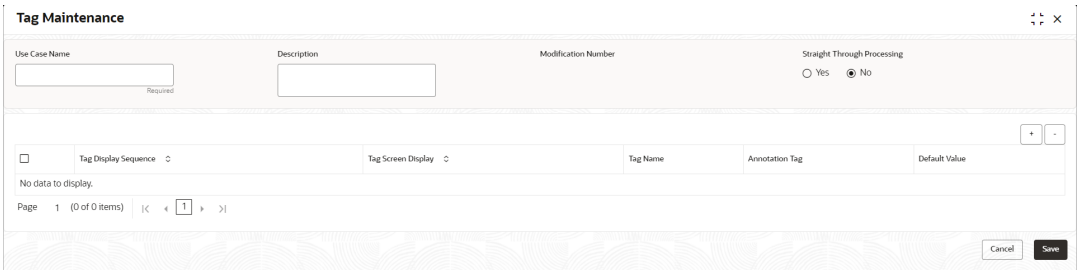
1. From **Home** screen, click **Machine Learning**. Under **Machine Learning**, click **NLP Toolkit**.
2. Under **NLP Toolkit**, click **Use Case Definition**.
3. Click **+** to add tag maintenance.

   The **Tag Maintenance** screen is displayed.

Figure 4-2 Tag Maintenance



4. Specify the fields on the **Tag Maintenance** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 4-2 Tag Maintenance – Field Description

Field	Description
Use Case Name	Specify unique use case name. It gets populated on **Save**, from the last folder name from the Training Corpus Path (DOC).
Description	Specify use case description.
Mod No	Displays modification number.
Straight Through Processing	Select one the options. • **Yes** = Unattended • **No** = Attended
Use Case Tags/ Entities	Specifies the use case tags entities.
Tag Display Sequence	Displays the sequence of tags.
Tag Screen Display	Displays the business name of the tag.
Tag Name	Displays the technical name of the tag.
Annotation Tag	Used to identify tags to be used in training.
Default Value	Default value for tags not used for training.

4.1.2 Annotator

This topic describes the information about the annotator.

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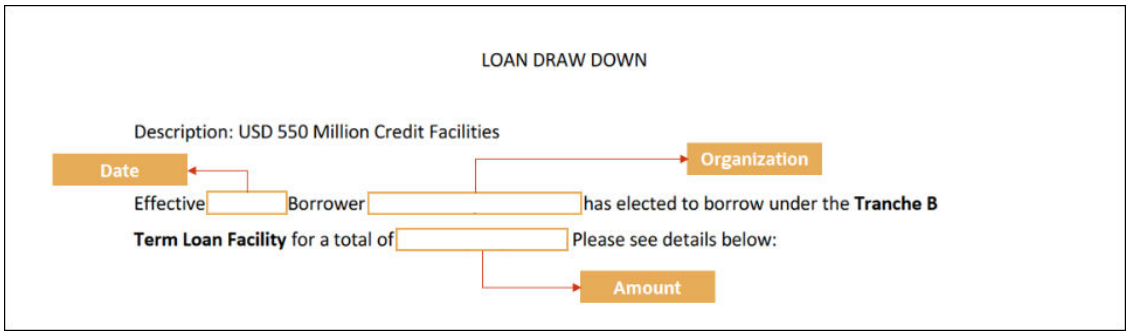
Annotation is the process of identifying information within a documented content and tagging them as a specific type of information. Each use case defined, have their own relevant maintained list of tags/entities, which is used to annotate source documents for a use case.

Figure 4-3 Loan Draw Down



- Annotator
  This topic describes the systematic instructions to perform the annotations on a source document for a use case.

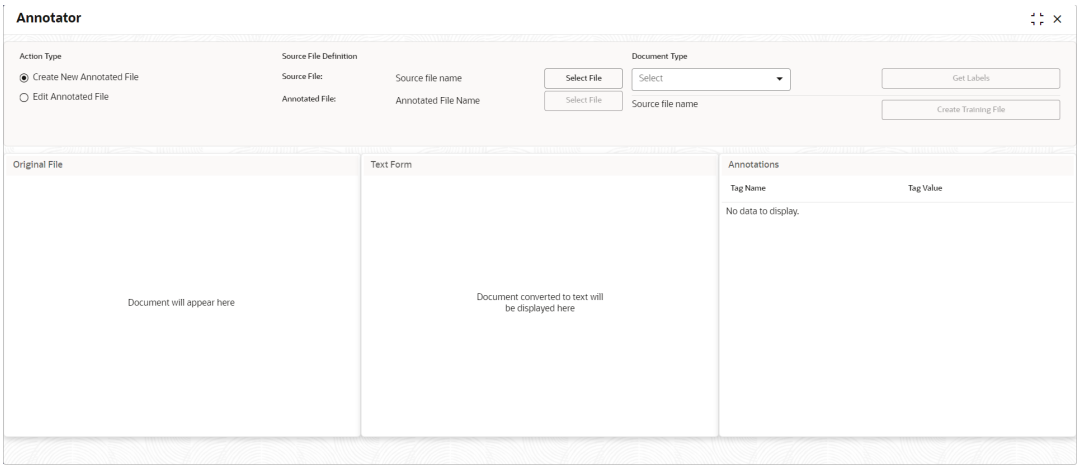
4.1.2.1 Annotator

This topic describes the systematic instructions to perform the annotations on a source document for a use case.

1. From **Home** screen, click **Machine Learning**. Under **Machine Learning**, click **NLP Toolkit**.
2. Under **NLP Toolkit**, click **Annotator**.

   The **Annotator** screen is displayed.

Figure 4-4 Annotator



3. Specify the fields on the **Annotator** screen.

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> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 4-3 Annotator – Field Description

Field	Description
Action Type	Select the action type. The available options are: • **Create New Annotated File** • **Edit Created Annotated File**
Source File Definition	Select the source document from local windows explorer based on the **Action Type** selected.
Document Type	Displays the list of all the use cases defined under use case definition.
Get Labels	Displays the maintained Tags/entities for the selected **Document Type**.
Create Annotated File	Once annotations of all the Tags are completed, this performs two outcomes as below, • Create annotated text file in the defined NER train path as maintained under use case definition. • Create text file in the defined DOC train path as maintained under use case definition.

Annotate the Source Files:

4. Select the **Action Type** as **Create New Annotated File**.
5. Select the **Document Type** from drop-down list.
6. Click **Select File** button next to **Source File** field.

   The **Windows Explorer** popup screen displays.
7. Navigate and select the source document to be annotated.

   The **Original File** section displays the source document and the **Text Form** section displays the text version of the document.
8. Click **Get Labels**.

   The **Annotations** section displays all the maintained tags for the selected Document Type.

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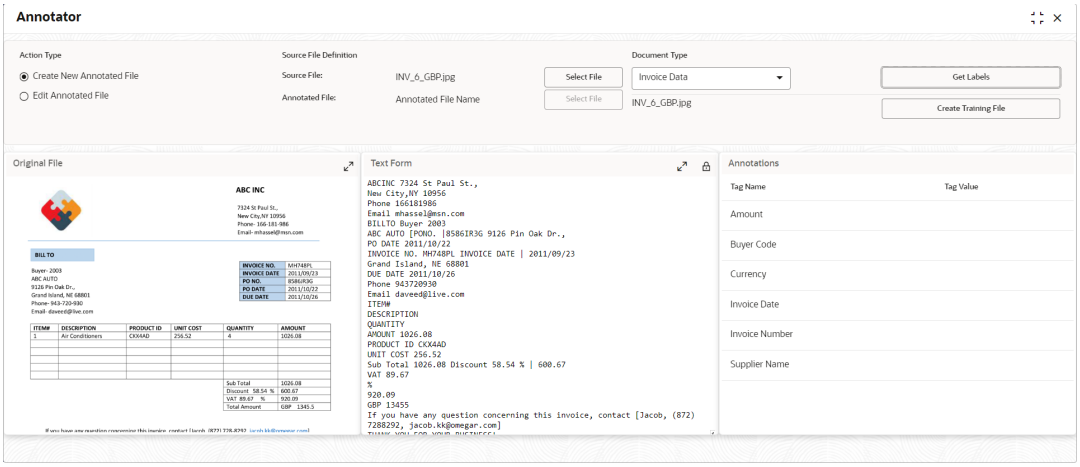
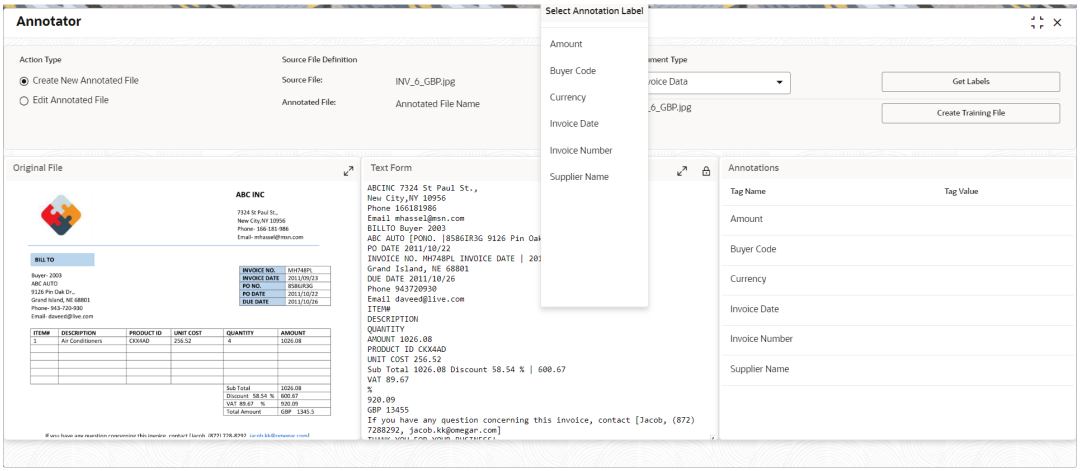
Figure 4-5 Annotator - List of Tags



9. Identify and select the information within the **Text Form** section.
10. Right-click to display the list of tags.

Figure 4-6 Annotator - Select Annotation Label



11. Select the relevant tag.

    The **Annotations** section displays the information under Tag Name and **Tag Value** fields.

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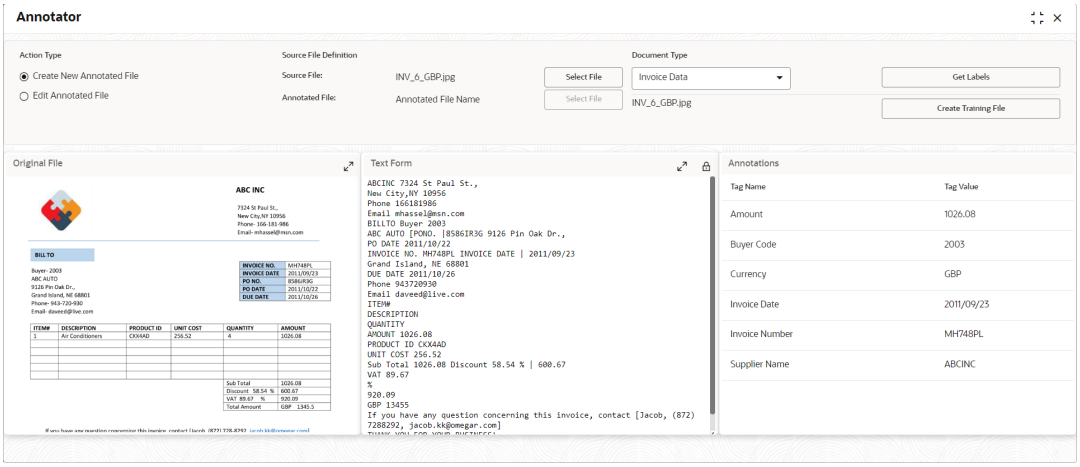
Figure 4-7 Annotator - Annotations



12. Repeat the above steps for all the displayed tags as per availability of information in the source document.
13. Select a **Tag Name** from the **Annotations** section and right-click to delete the **Tag Value**.
14. Once all the tags are assigned the relevant information, click **Create Training File** to create the annotated file and end the process.

- Edit Annotated File
  This topic describes the systematic instructions to Edit the annotations on a source document for a use case.

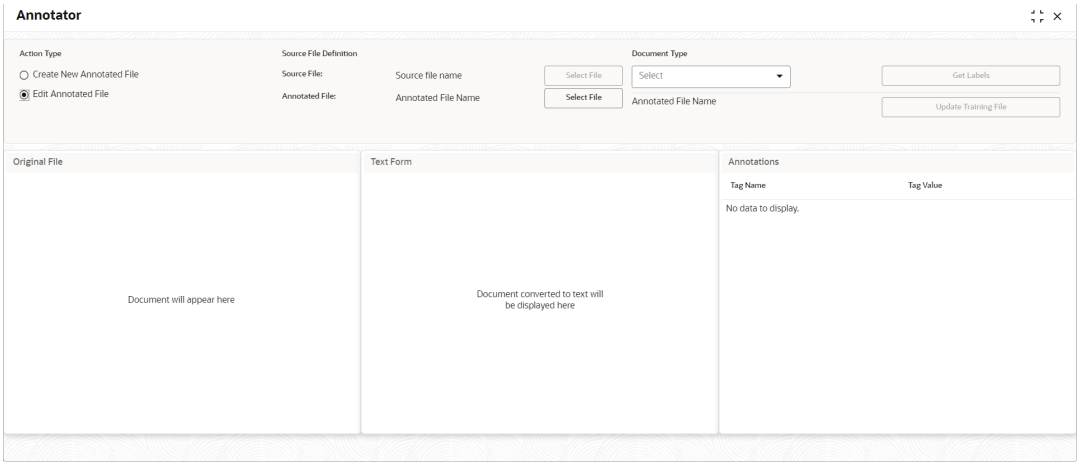
4.1.2.1.1 Edit Annotated File

This topic describes the systematic instructions to Edit the annotations on a source document for a use case.

1. From **Home** screen, click **Machine Learning**. Under **Machine Learning**, click **NLP Toolkit**.
2. Under **NLP Toolkit**, click **Annotator**.
3. Select the **Action Type** as **Edit Annotated File**.

   The **Edit Annotated File** screen is displayed.

Figure 4-8 Edit Annotated File



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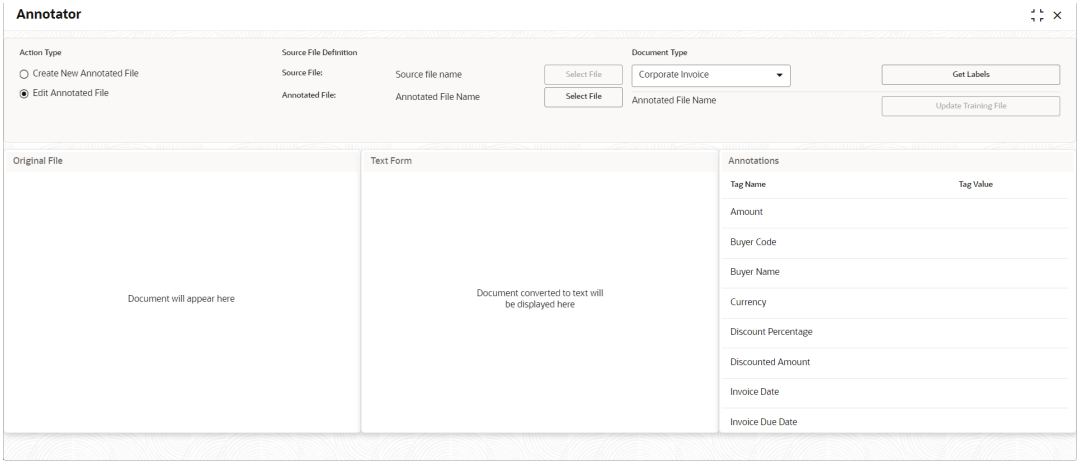
4. Select the **Document Type** from drop-down list and click **Get Lables**.

   The **Annotations** screen is displayed.

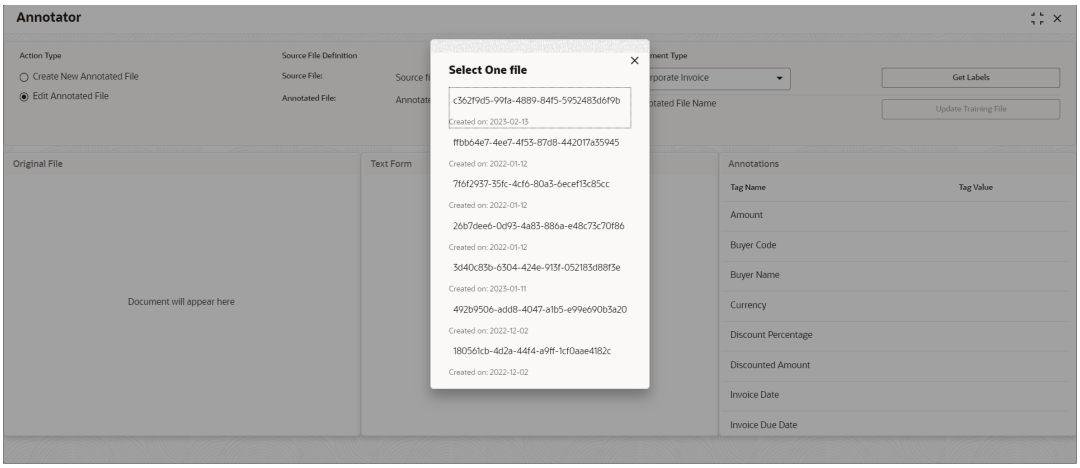
Figure 4-9 Edit Annotated File - Annotations



5. Click **Select File** button next to **Source File** field.

   The popup screen is displayed.

Figure 4-10 Edit Annotated File - Select File Popup



6. Navigate and select the source document to be annotated.

   The **Original File** section displays the source document and the **Text Form** section displays the text version of the document.

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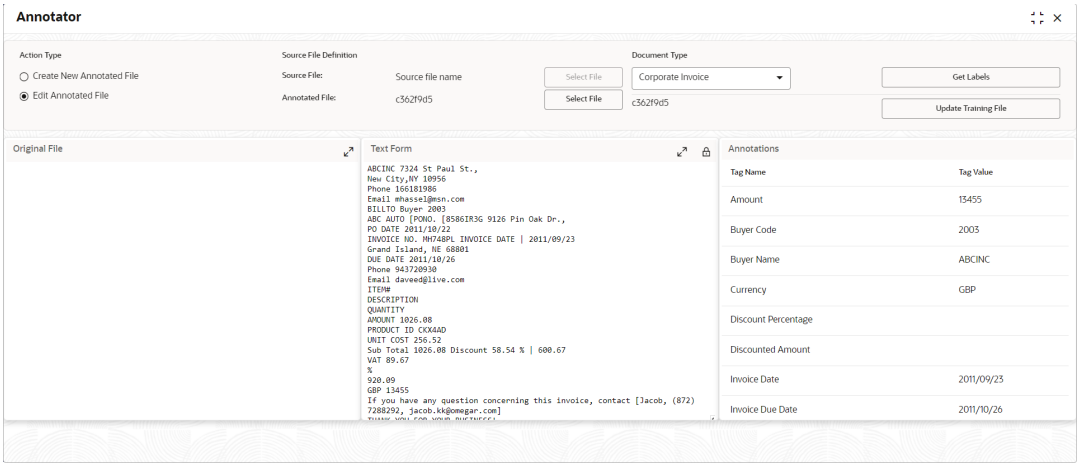
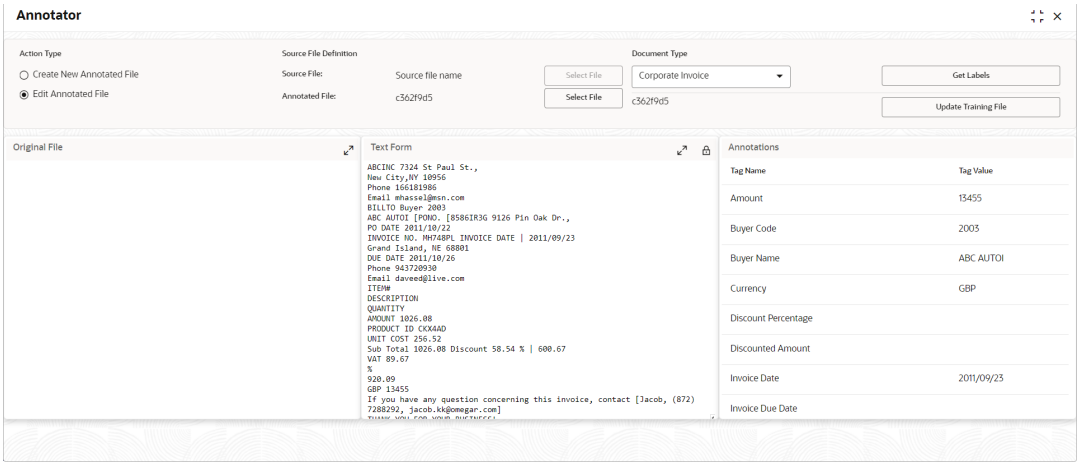
Figure 4-11 Edit Annotated File - Text Form



7. Identify and select the information within the **Text Form** section to edit the original value.
8. Right-click to display the list of tags.

Figure 4-12 Edit Annotated File - Select Annotation Label



9. Select the relevant tag.

   The **Annotations** section displays the information under **Tag Name** and **Tag Value** fields.

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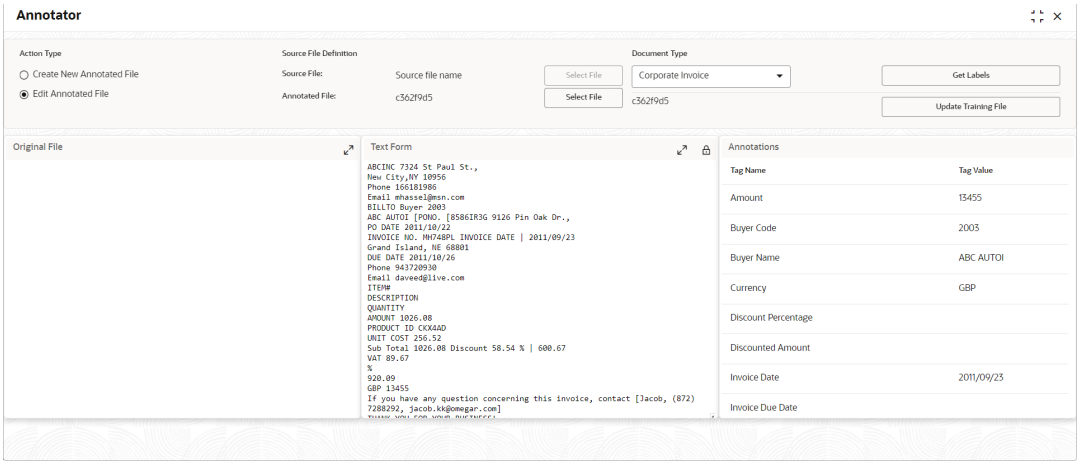
Figure 4-13 Edit Annotated File - Annotations



10. Click on **Update Training File** to save **Edit Annotated File** successfully.

4.1.3 Model Training

This topic describes the systematic instructions to train the model on the annoted training corpus.

The annotated training corpus is a collection of annotated training files created using the annotator.

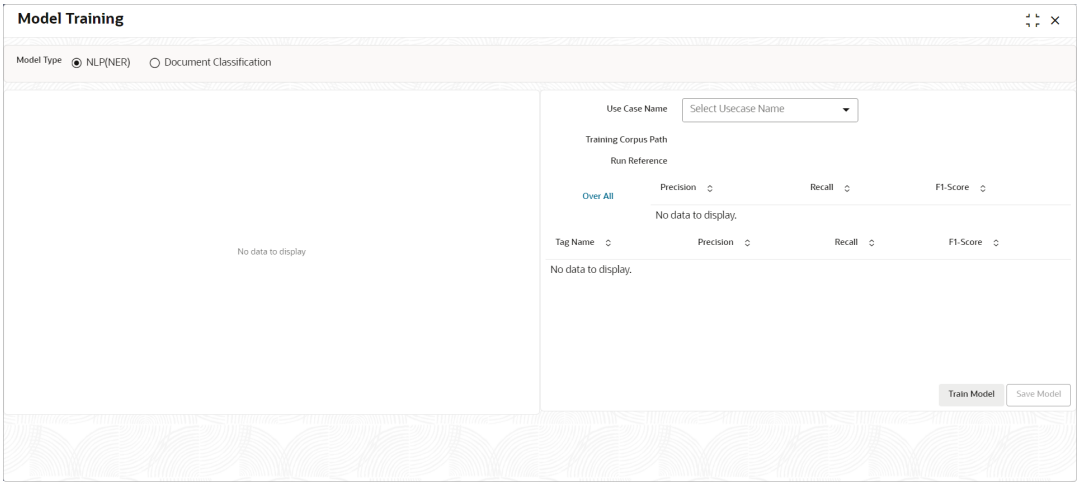
Model training is iterative and is carried out over increasing corpus size depending on the model parameters.

Each defined use case have its own training corpus available in the path set up in the use case definition.

1. From **Home** screen, click **Machine Learning**. Under **Machine Learning**, click **NLP Toolkit**.
2. Under **NLP Toolkit**, click **Model Training**.

   The **Model Training** screen is displayed.

Figure 4-14 Model Training



For Training NER Models:

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3. Select the **Model Type** as **NLP(NER)**.
4. Select the type of **Use Case Name** from the drop-down list.
5. Click **Train Model**.

For Training Document Classifier Model:

6. Select the **Model Type** as **Document Classification**.
7. Select the type of **Use Case Name** from the drop-down list.
8. Click **Train Model**.

   If the model parameters acceptable, the user can save the model by clicking **Save Model**. The alternative is to add more annotated training files for the use case and repeat model training, till satisfactory parameters are achieved.

4.1.4 Model Management

This topic describes the information about the Model Management.

Model Management shows all the run reference of models saved from model training for a use case. For each model run reference, view the parameters for the model as well as individual tag/entities.

The user can choose the active model run reference to use as part of business processing.

- Model Management Maintenance
  This topic describes the systematic instructions to maintain the model management.
- View Model Management
  This topic describes the systematic instructions to view the list of use case models.

4.1.4.1 Model Management Maintenance

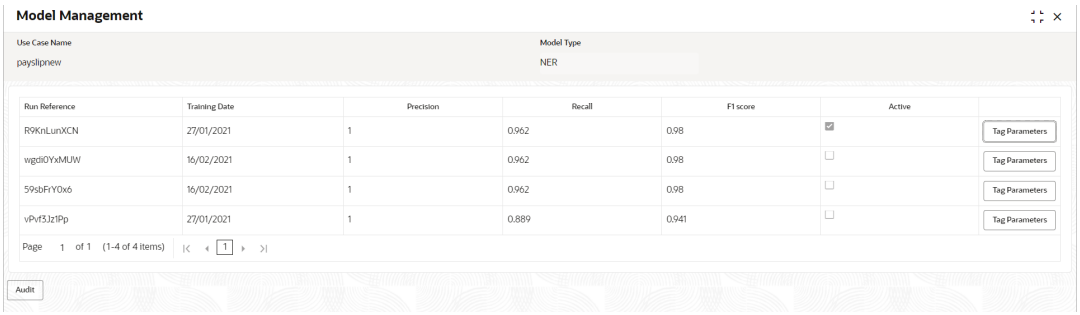
This topic describes the systematic instructions to maintain the model management.

The user can unlock and choose the active model run reference to use as part of business processing.

1. From **Home** screen, click **Machine Learning**. Under **Machine Learning**, click **NLP Toolkit**.
2. Under **NLP Toolkit**, click **Model Management**.

   The **Model Management** screen is displayed.

Figure 4-15 Model Management



3. Specify the fields on the **Model Management** screen.

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> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

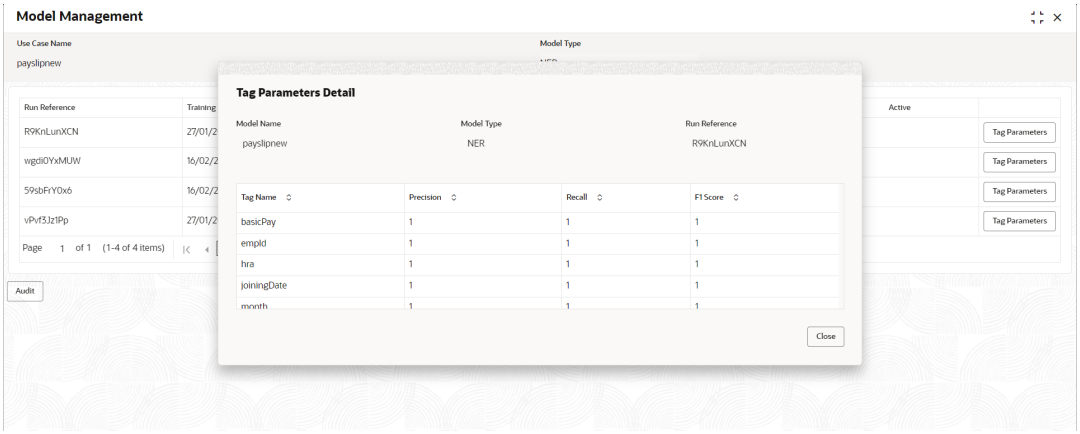
Table 4-4 Model Management – Field Description

Field	Description
Use Case Name	Displays the name of the Use Case.
Model Type	Displays the NER or Classification type of Model.
Run Reference	Displays unique model version identifier.
Precision	Specify the value between 0 to 1. Closer to 1 is better.
Recall	Specify the value between 0 to 1. Closer to 1 is better.
F1 Score	Specify the value between 0 to 1. Closer to 1 is better.
Active	Displays the status of model run reference.

4. Click **Tag Parameters** to view the individual tag parameters for each model run reference.

   The **Tag Parameters Details** screen is displayed.

Figure 4-16 Tag Parameters Detail



At this stage, user have defined a new use case with the tags/entities to be recognized by the model and trained and exported the use case model to be used by business.

4.1.4.2 View Model Management

This topic describes the systematic instructions to view the list of use case models.

1. From **Home** screen, click **Machine Learning**. Under **Machine Learning**, click **NLP Toolkit**.
2. Under **NLP Toolkit**, click **Model Management**.

   The **Model Management** screen is displayed.

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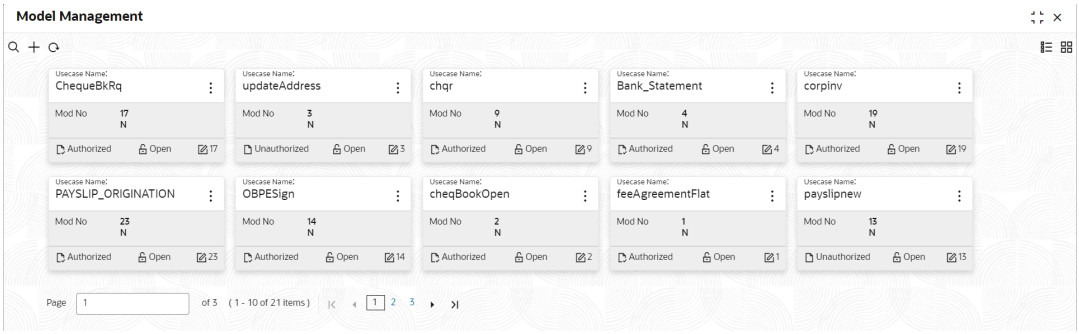
Figure 4-17 Model Management



For more information on fields, refer to the field description table.

Table 4-5 Model Management – Field Description

Field	Description
Use Case Name	Displays the name of the Use Case.
Mod No	Displays the number of modifications.
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

4.1.5 Model Import and Export Maintenance

Models can be moved from one environment to another environment using Model import and export.

Using this functionality models can be trained in one environment and be used in another. To process this screen, perform the following steps:

1. From **Home** screen, click **Machine Learning**. Under **Machine Learning**, click **NLP Toolkit**.
2. Under **NLP Toolkit**, Click **Model Import Export**.

   The **Model Import Export** screen is displayed.

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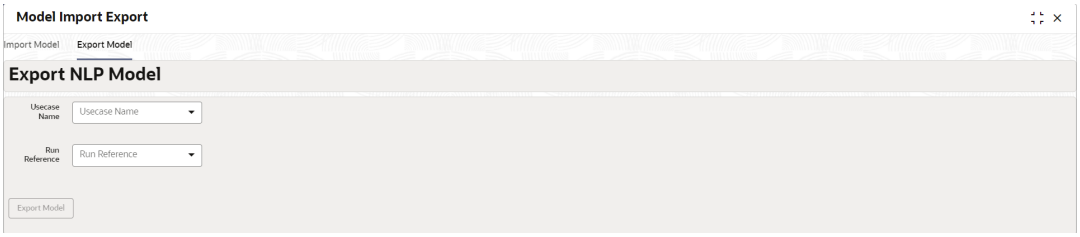
Figure 4-18 Model Import Export



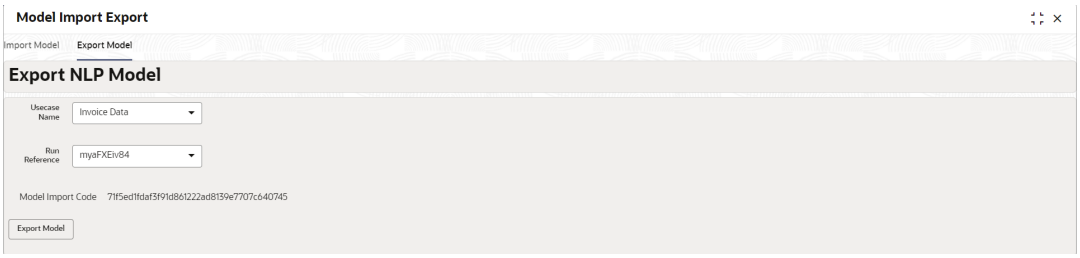
Export Model

Use Export Model option on the screen for exporting a model. Model will be exported to a file. Perform following steps for process:

3. Select the **Export Model** section in the **Model Import Export** screen.

   The **Export Model** screen is displayed.

Figure 4-19 Export Model



4. Specify the required details in the **Export Model** screen.

Table 4-6 Export Model - Field Description

Field	Description
Usecase	Select the required usecase from the drop-down list.
Run Reference	Select the run reference from the drop-down list.

5. Click on the **Export Model** button and **Model file** will be downloaded.

> **Note**
>
> Please note down the Model Import Code, as it is required while importing model.

Import Model

Use Import Model option on the screen for importing a model. Model will be imported using model file created while exporting model. Perform following steps for process:

6. On the **Model Import Export** screen select the **Import Model** section.

   The **Import Model** screen is displayed.

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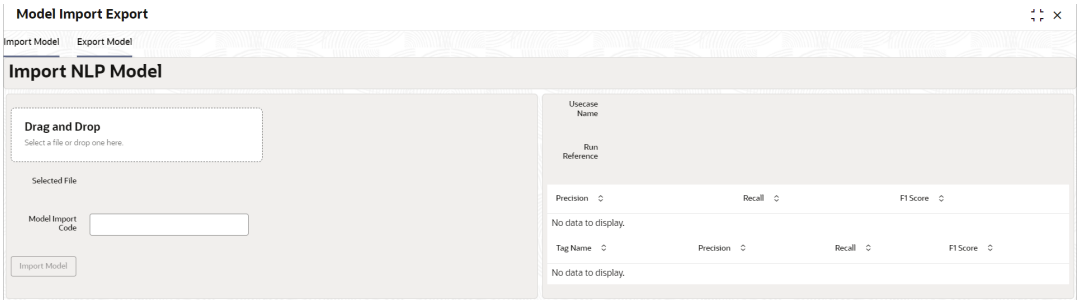
Figure 4-20 Import Model



7. Click on **Drag and Drop** option and select the export model to be uploaded.
8. Specify the **Model Import code** to be imported.
9. Click **Import Model** to upload the model successfully.

4.2 Operation

This topic describes the information about the trained models that are consumed for business processing.

This topic contains the following subtopics:

- Upload Document
  This topic describes the systematic instructions to upload a document.
- Transaction Log
  This topic describes the systematic instructions to view all the uploaded transactions that are interpreted by the NLP models.

4.2.1 Upload Document

This topic describes the systematic instructions to upload a document.

The user can upload the source document which is consumed by the NLP model and defined tags/entities are recognized. The information collected by this model is used in further business processing.

1. From **Home** screen, click **Machine Learning**. Under **Machine Learning**, click **Operation**.
2. Under **Operation**, click **Document Upload**.

   The **Document Upload** screen is displayed.

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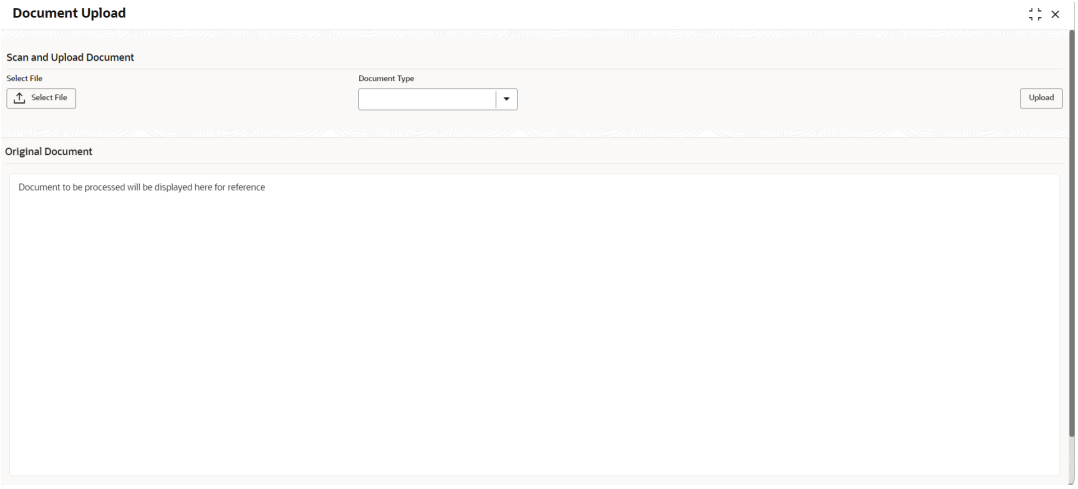
Figure 4-21 Document Upload



3. Click **Select File** to select the source document.
4. Select the **Document Type** from the drop-down list.
5. Click **Upload** to initiate business process.

   The uploaded document displays on **Original Document**.

4.2.2 Transaction Log

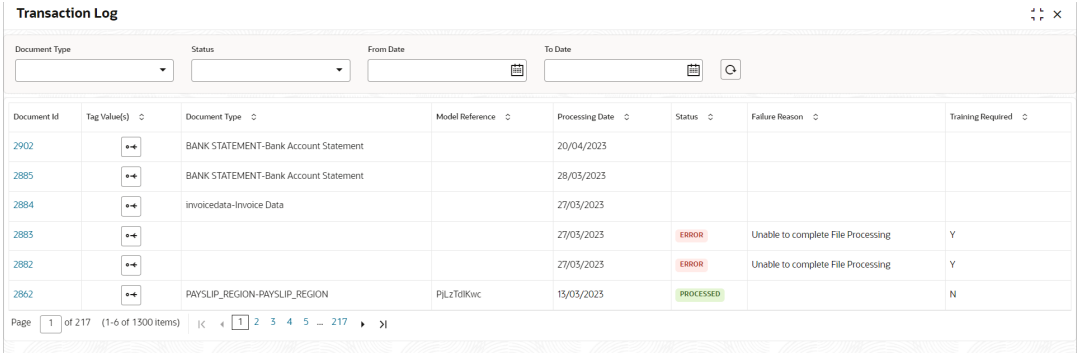
This topic describes the systematic instructions to view all the uploaded transactions that are interpreted by the NLP models.

The user can filter the displayed transactions based on the Document Type and Status.

1. From **Home** screen, click **Machine Learning**. Under **Machine Learning**, click **Operation**.
2. Under **Operation**, click **Transaction Log**.

   The **Transaction Log** screen is displayed.

Figure 4-22 Transaction Log



3. Specify the fields on the **Transaction Log** screen.

   For more information on fields, refer to the field description table.

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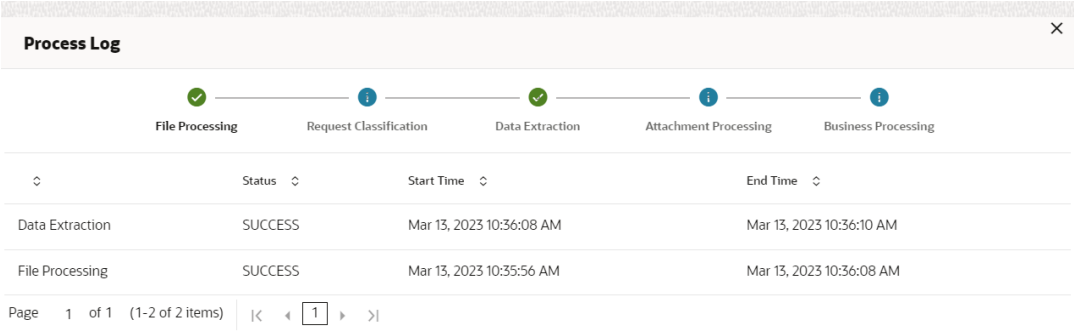
Table 4-7 Transaction Log – Field Description

Field	Description
Document Type	Select the document type from drop-down list.
Status	Select the type of status from drop-down list.
Document ID	Displays the Document Management System Unique Identifier.
Document Type	Displays the document type - Use Case Definition.
Model Ref	Displays the Unique Model Version Identifier.
Processing Date	Displays the document processed date.
Status	Displays the status of the transaction.
Failure Reason	Displays the reason for failed status.
Train. Reqd	Displays train required status.
Tag Values	Displays the tag values for the processed transactions and allow the correction for transactions with errors.

4. To check the execution flow, click on **Document ID** to view details and flow.

   The **Process Log** screen is displayed.

Figure 4-23 Process Log



5. To check the processed status, select **Processed** in **Status** drop-down list.

   The document ID page displays that contains model tag values used to process the transactions.

Figure 4-24 Processed Status

The displayed information reflects both the original retrieved values by the model from the document and also the values which are corrected manually.

6. To check the error status, select **Error** in **Status** drop-down list.

   All the failed transactions is displayed.

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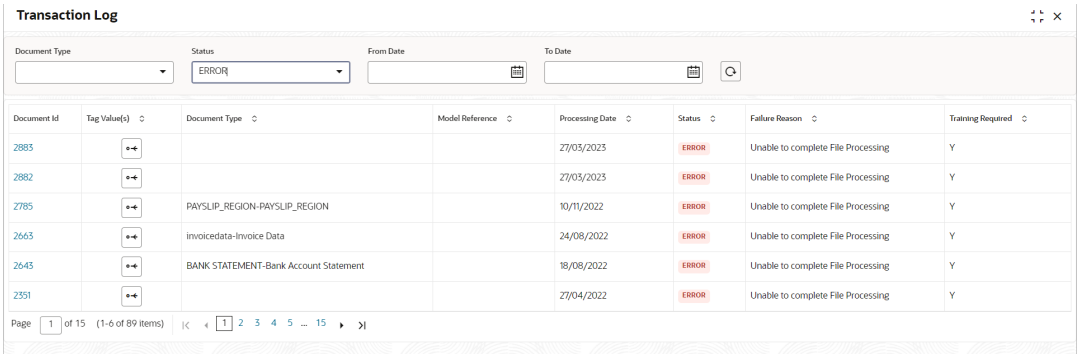
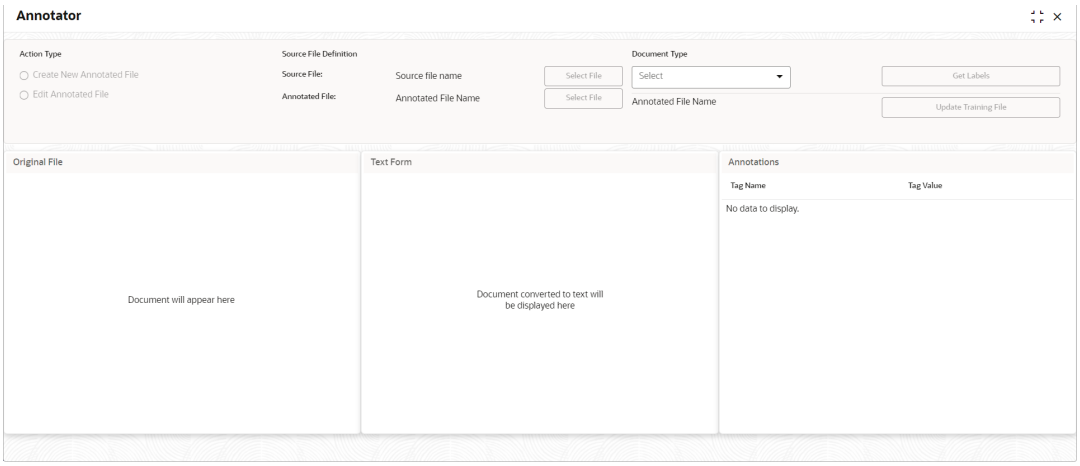
Figure 4-25 Error Status



7. For the failed transactions, click on the **Tag Value(s)** to invoke the toolkit annotator in the error correction mode to create a new annotated training file for future model training.

   The **Annotator** screen is displayed.

Figure 4-26 Annotator



4.3 3P Service Integration

This topic provides description about the integration of third party services.

Any model execution or training service(s) built using any 3P NLP library can be integrated in the NLP framework. The only requirement is, the REST services must confirm to the payload definition. Building model training and execution services using other 3P NLP libraries would involve consulting effort.

This topic contains the following subtopics:

- Classification Training Service
  This topic describes about the payload details for document classification model training service.
- NER Training Service
  This topic describes the payload details for NER model training service.
- Classification Processing Service
  This topic describes about the payload details for the document classification model processing service.

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- NER Processing Service
  This topic describes the payload details for NER model processing service
- Service Mapping
  This topic provides information about service mapping.
- Business Service Mapping
  This topic describes the information about the Business Service Mapping.

4.3.1 Classification Training Service

This topic describes about the payload details for document classification model training service.

Input Payload

Name	in	Type	Required	Remarks
trainCorpusPath	formData	string	true	Training Corpus path
modelType	formData	File	true	Type of model being trained
runRef	formData	string	true	Unique running reference number

- name: " **trainCorpusPath**"
  in: "formData"

  type: string

  required: true
- name: " **modelType**"
  in: "formData"

  type: string

  value for document classification training: "docClassification"

  required: true
- name: " **runRef** "
  in: "formData"

  type: string

  required: true

Output Payload

```
{
 "data": {
  "timeTaken": 0,
  "corpusSize": 0,
  "precision": 0,
  "recall": 0,
  "f1score": 0,
  "model_fold_performances”: null,
  "tag_perfomances": null
 }
}
```


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Output Payload Data Model Definition

```
ModelTrainParamsDTO:
type: object
properties:
data:
type: object
properties:
timeTaken:
type: number
corpusSize:
type: number
precision:
type: number
recall:
type: number
f1score:
type: number
model_fold_performances:
type: array
items:
$ref: "#/definitions/ModelFoldPerfromancesDTO"
tag_perfomances:
type: array
items:
$ref: "#/definitions/MltbTagPerfomancesDTO"
```

4.3.2 NER Training Service

This topic describes the payload details for NER model training service.

Input Payload

Input Payload

name	in	Type	Required	Remarks
trainCorpusPath	formData	string	true	Training Corpus path.
modelType	formData	File	true	Type of model being trained.
runRef	formData	string	true	Unique running reference number.

- name: " **trainCorpusPath**"
  in: "formData"

  type: string

  required: true
- name: " **modelType**"
  in: "formData"

  type: string

  value for NER model training: "nlpNer"

  required: true

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- name: " **runRef** "
  in: "formData"

  type: string

  required: true

Output Payload

```
{
 "data": {
  "timeTaken": 0,
  "corpusSize": 0,
  "precision": 0,
  "recall": 0,
  "f1score": 0,
  "model_fold_performances": [
  {
   "fold_no": 0,
   "eval_metric": "string",
   "value": 0
  }
 ],
 "tag_perfomances": [
  {
   "name": "string",
   "precision": 0,
   "recall": 0,
   "f1score": 0
  }
 ]
}
}
```

Output payload data model definition
ModelTrainParamsDTO:

type: object

properties:

data:

type: object

properties:

timeTaken:

type: number

corpusSize:

type: number

precision:

type: number

recall:

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type: number
f1score:
type: number
model_fold_performances:
type: array
items:
$ref: "#/definitions/ModelFoldPerfromancesDTO"
tag_perfomances:
type: array
items:
$ref: "#/definitions/MltbTagPerfomancesDTO"
ModelTrainParamsDTO:
type: object
properties:
fold_no:
type: number
eval_metric:
type: string
value:
type: number
ModelTrainParamsDTO:
type: object
properties:
name:
type: string
precision:
type: number
recall:
type: number
f1score:
type: number

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4.3.3 Classification Processing Service

This topic describes about the payload details for the document classification model processing service.

Input Payload

Name	in	Type	Required	Remarks
modelPath	formData	string	true	The path to the classification model.
file	formData	File	true	The text file which must be classified.

- name: " **modelPath**"
  in: "formData"

  type: string

  required: true
- name: " **file** "
  in: "formData"

  type: file

  required: true

Output Payload

```
 {
  "data": {
   "docType": "string"
  }
}
```

Output Payload Data Model Definition

```
MltbNlpDTO:
type: object
properties:
data:
properties:
docType:
type: string
```

4.3.4 NER Processing Service

This topic describes the payload details for NER model processing service

Input Payload

Input Payload

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name	in	Type	Required	Remarks
modelPath	formData	string	true	The path to the NER model.
file	formData	File	true	The text file which must be classified.

- name: " **modelPath**"
  in: "formData"

  type: string

  required: true
- name: " **file** "
  in: "formData"

  type: file

  required: true

Output Payload

```
{
 "data": {
  "keyvals": [
  {
   "tagName": "string",
   "value": "string",
   "start_index": 0,
   "end_index": 0
  }
 ]
}
}
```

Output payload data model definition
ModelTrainParamsDTO:

type: object

properties:

data:

properties:

keyvals:

type: array

items:

$ref: '#/definitions/MltbNerKeyValExtractedObjDTO'

MltbNerKeyValExtractedObjDTO:

type: object

properties:

tagName:

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type: string

value:

type: string

start_index:

type: number

end_index:

type: number

4.3.5 Service Mapping

This topic provides information about service mapping.

After creation of the model services, entries must be made into the table CMC_TM_ML_SERVICE_DEFN to enable the NLP framework to use these services.

Existing Use Case

Existing use case
Update the highlighted column in the table CMC_TM_ML_SERVICE_DEFN with the new service API.

Column Name	Remarks	Model Training	Model Processing
ID	Unique ID	-	-
USECASE_NAME	Use Case Name	<existing use case>	<existing use case>
DESCRIPTION	Use Case Description	-	-
SERVICE_TYPE	Service Type	Training	Processing
SERVICE_DEFN	Mapped Service API	<New Service API>	<New Service API>
METHOD_TYPE	Method Type	POST	POST
APP_ID	Sub Domain ID	-	-
RECORD_STAT	Record Status	O	O
AUTH_STAT	Authorized Status	A	A
MOD_NO	Modification Number	1	1
ONCE_AUTH	Once Authorized	Y	Y
MAKER_ID	Maker Name	SYSTEM	SYSTEM
MAKER_DT_STAMP	Maker Date stamp	<Application Date>	<Application Date>
CHECKER_ID	Authorizer Name	SYSTEM	SYSTEM
CHECKER_DT_STAM	Authorizer Date stamp	<Application Date>	<Application Date>

New Use Case

New Use case
Insert a new record into the table CMC_TM_ML_SERVICE_DEFN.

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Column Name	Description	Remarks for Data
ID	Unique ID	Ensure a Unique ID.
USECASE_NAME	Use Case Name	Must be one of the usecase_name from the table CMC_TM_ML_NER_TAG_MAS
DESCRIPTION	Use Case Description	-
SERVICE_TYPE	Service Type	• 'Training' - Use this value for model Training Service. • 'Processing' - Use this value for model execution Service. • 'Business' - Use this value for business Service.
SERVICE_DEFN	Mapped Service API	<The newly created 3P NLP service API>
METHOD_TYPE	Method Type	POST
APP_ID	Sub Domain ID	NULL
RECORD_STAT	Record Status	O
AUTH_STAT	Authorized Status	A
MOD_NO	Modification Number	1
ONCE_AUTH	Once Authorized	Y
MAKER_ID	Maker Name	SYSTEM
MAKER_DT_STAMP	Maker Date stamp	<Application Date>
CHECKER_ID	Authorizer Name	SYSTEM
CHECKER_DT_STAMP	Authorizer Date stamp	<Application Date>

4.3.6 Business Service Mapping

This topic describes the information about the Business Service Mapping.

If straight through processing is enabled in use case definition, the entries must be made into the table CMC_TM_ML_BUS_SERVICE_DEFN to enable the NLP framework to call the Business Service.

Insert a new record into the table CMC_TM_ML_BUS_SERVICE_DEFN for each use-case with straight through processing enabled.

Table 4-8 Each Use Case

Column Name	Description	Remarks for Data
ID	Unique ID	Ensure a Unique ID.
USECASE_NAME	Use Case Name	Must be one of the usecase_name from the table CMC_TM_ML_NER_TAG_MAS
DESCRIPTION	Use Case Description	-
SERVICE_TYPE	Service Type	'Business' - Use this value for business Service.

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Table 4-8 (Cont.) Each Use Case

Column Name	Description	Remarks for Data
ADAPTER_CLASS	Fully qualified name of the adapter class	Use oracle.fsgbu.cmc.nlp.pipeline.services.adaptor.GenericAdaptor for all the business service calls Use oracle.fsgbu.cmc.nlp.pipeline.services.adaptor.OBRHAdaptor if you want to call business service via Oracle Banking Routing Hub
SERVICE_DEFN	Mapped Service API	API, which is called for Business service execution
HEADERS	Comma separated headers key value separated by colon (:)	Example, docId:123 , branchCode : 000
METHOD_TYPE	Method Type	POST
APP_ID	Sub Domain ID	NULL
RECORD_STAT	Record Status	O
AUTH_STAT	Authorized Status	A
MOD_NO	Modification Number	1
ONCE_AUTH	Once Authorized	Y
MAKER_ID	Maker Name	SYSTEM
MAKER_DT_STAMP	Maker Date stamp	<Application Date>
CHECKER_ID	Authorizer Name	SYSTEM
CHECKER_DT_STAMP	Authorizer Date stamp	<Application Date>

If the user is integrating the Business Service through Oracle Banking Routing Hub, then, in service definition column, the user need to provide URL of Oracle Banking Routing Hub dispatch API and the additional headers in headers column.

Since there are some common headers, which are required for calling Oracle Banking Routing Hub as well (like appId, branchCode, userId) and to avoid the conflict for these headers, the ML_ prefix is appended in header keys by Oracle Banking Routing Hub adapter. Configure transformation logic of these headers in Oracle Banking Routing Hub.

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5
Machine Learning Framework

This topic describes about the Machine Learning Framework provided in common core.

- Use Case On-Boarding
  This topic describes the information about the Use Case On-Boarding.
- Frameworks Supported
  This topic describes about the Frameworks Supported for Machine Learning.
- Partitioned Model
  This topic describes the information about the partitioned model in Machine Learning.
- On-Boarding Use Case
  This topic describes the information about the On-Boarding Use Case provided in the common core.
- Online Single Record Prediction
  This topic describes the information about the online single record prediction supported in common core.
- Use Case Modifications
  This topic describes the information about the use case modifications.
- Data Extensibility
  This topic describes the information about Data Extensibility.
- Model Explainability
  This topic describes the information about the Model Explainability.
- Model Monitoring and Auto Training
  This topic describes about the Model Monitoring and Auto Training.
- Clustering
  This topic describes the information about the Clustering.
- Anomaly Detection
  This topic describes information about the Anomaly Detection.

5.1 Use Case On-Boarding

This topic describes the information about the Use Case On-Boarding.

On-boarding a new business case onto the Machine Learning framework involves two broad stages as given below.

Model Definition
One-time setup of use case definition captures the data source, target columns, and type of use case.

Model Training

Model Training
Model training is use case specific and has the intelligence to evaluate multiple algorithms and discover the best fit algorithm to the data pattern.

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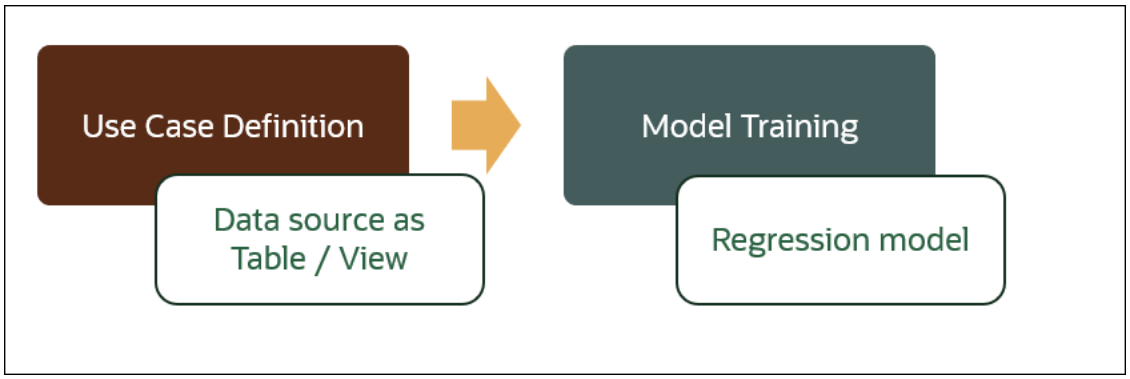
The onset of these two stages assumes that you have already decided on the business use case that you would want to on-board.



5.2 Frameworks Supported

This topic describes about the Frameworks Supported for Machine Learning.

This topic contains the following subtopics:

- Timeseries
  This topic describes the information about the timeseries.
- Timeseries Algorithms Supported
  This topic describes the information about the timeseries algorithms supported in the framework.
- Time Series Forecast
  This topic describes the information about the time series forecast.
- Regression
  This topic describes the information about the regression in Machine Learning.
- Regression Algorithms Supported
  This topic describes the information about the regression algorithms supported in the framework.
- Classification
  This topic describes the information about the Classification.
- Classification Algorithms Supported
  This topic describes the information about the Classification Algorithms Supported.
- Clustering
- Anomaly Detection
  This topic describes the information about the Anomaly Detection.
- Debugging
  This topic describes information about the Debug Users.

5.2.1 Timeseries

This topic describes the information about the timeseries.

Timeseries are the use cases involving the date sequence data to forecast for future dates.

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Table 5-1 Case ID Details

CASE ID	CCY	BALANCE
17-Aug	USD	6723.00
18-Aug	USD	250.00
19-Aug	USD	2654.00
20-Aug	USD	20.00
21-Aug	USD	?

> **Note**
>
> The CASE ID can either be a DATE or a Sequence.

5.2.2 Timeseries Algorithms Supported

This topic describes the information about the timeseries algorithms supported in the framework.

By default, the framework uses Exponential Smoothing to forecast from timeseries data. It evaluates 14 different algorithmic combinations to best fit the below patterns:

- Error type (additive or multiplicative)
- Trend (additive, multiplicative, or none), including damped trends
- Seasonality (additive, multiplicative, or none)

> **Note**
>
> The user is not required to select any algorithmic combinations. The framework evaluates and selects the best fit combination.

5.2.3 Time Series Forecast

This topic describes the information about the time series forecast.

The timeseries forecast is unique as it consumes sequential data to forecast.

This uniqueness necessitates model training and forecast to be executed in a single processing routine. This is very unlike regression model approach where model training and model prediction are separate distinct actions.

This topic contains the following subtopics:

- Forecast REST Service
  This topic describes the information about the forecast REST service.

5.2.3.1 Forecast REST Service

This topic describes the information about the forecast REST service.

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The timeseries framework is made available as an independent REST service to be consumed by products and use cases as required.

The following information is required to be provided.

Table 5-2 Forecast REST Service – Field Description

Field	Description
Use Case Name	Specify the Unique Use Case Name.
Data Source	Specify the Table or View name used as data source to train the model.
Target Column	Specify the model will train and forecast future values of this column. **Note**: Column name is a function of table/view design.
Unique Identifier	Specify the column name to uniquely identify a sequence. **Note**: Column name is a function of table/view design. It must be Date or a sequence.
Model Partitioning	Specify the column names to slice data. Refer Partitioned Model for details. **Note**: Column name is a function of table/view design.
Partitioned Value	Specify the actual value of the Model Partition.
Forecast Window	Specify the number of forecasts required as an outcome.
Tablespace	Specify the valid table space and all model related data will be persisted in this table space.

5.2.4 Regression

This topic describes the information about the regression in Machine Learning.

Regression is a statistical technique to discover relationships using independent variables to estimate / predict a target variable of NUMBER or INTEGER type.

For example: The user needs to predict the value of LUXURY SPEND for a new CASE ID, given the data of branch, marital status, income, and savings

Table 5-3 Example - Case Details

CASE ID	BRANCH	MARITAL STATUS	INCOME	SAVING	LUXURY SPEND
12345	BRT	Y	15000	6723	1000
12346	BRT	N	17500	250	750
12347	CSR	D	25000	2654	1900
12348	CSR	N	16567	20	2500

> **Note**
>
> The CASE ID must uniquely identify a row.

5.2.5 Regression Algorithms Supported

This topic describes the information about the regression algorithms supported in the framework.

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The following algorithm are available as part of the framework.

Table 5-4 List of Algorithm

S.No	ALGORITHM	REMARKS
1	GENRALIZED LINEAR REGRESSION	Also handles RIDGE regression depending on the underlying pattern of data.
2	SUPPORT VECTOR MACHINE	Supports both linear and gaussian kernels.
3	NEURAL NETWORK	Uses default 1 layer with number of nodes <= 50

> **Note**
>
> The users have the flexibility to select a specific algorithm or keep it as NULL for the framework to evaluate and best fit the algorithm to the underlying data.

5.2.6 Classification

This topic describes the information about the Classification.

Classification is a statistical technique to discover relationships using independent variables to classify a target variable into a number of GROUPS or CLASSES. Mostly used for decision making.

For example: The user needs to predict if a new CASE ID will churn(1) or not (0), given the data of branch, marital status, income and savings.

Table 5-5 Sample Classification

CASE ID	BRANCH	MARITAL STATUS	INCOME	SAVING	CHURN
12345	BRT	Y	15000	6723	0
12346	BRT	N	17500	250	1
12347	CSR	D	25000	2654	1
12348	CSR	N	16567	20	0

> **Note**
>
> CASE ID must be unique to identify a row.

5.2.7 Classification Algorithms Supported

This topic describes the information about the Classification Algorithms Supported.

The following algorithms are available as part of the framework.

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Table 5-6 List of Algorithms

Serial Number	ALGORITHM	REMARKS
1	DECISION TREE	-
2	NAÏVE BAYES	-
3	RANDOM FOREST	-
4	GENRALIZED LINEAR REGRESSION	Also handles RIDGE regression depending on the underlying pattern of data
5	SUPPORT VECTOR MACHINES	Supports both linear and gaussian kernels
6	NEURAL NETWORK	Uses default 1 layer with number of nodes <= 50

> **Note**
>
> Users have the flexibility to select a specific algorithm or keep it as NULL for the framework to evaluate and best fit the algorithm to the underlying data.

5.2.8 Clustering

This image shows the Clustering screen. A Close icon is available at the top of the screen. A Save button is provided at the bottom of the screen. It displays several fields to specify the Clustering details. For more information on fields, refer to the field description table.

5.2.9 Anomaly Detection

This topic describes the information about the Anomaly Detection.

Anomaly detection identifies data instances that deviate from the normal data pattern. Anomalies are unusual patterns not necessarily fraud.

For example: Suppose you are monitoring financial transactions with the columns: `TRANSACTION_ID, AMOUNT, LOCATION, TIME`.

Table 5-7 Example – Transaction Details

TRANSACTION_ID	AMOUNT	LOCATION	TIME
TXN001	100	NY	14:00
TXN002	150	NY	14:05
TXN003	105	NY	14:12
TXN004	9000	CA	03:00

Anomaly detection models may flag TXN004 as an anomaly due to the unusually high amount and odd time/location compared to typical transaction patterns.

5.2.10 Debugging

This topic describes information about the Debug Users.

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1. From **Home** screen, click **Machine Learning**. Under **Machine Learning**, click **Debug Users**.

Create Debug Users

This section describes the information about enabling and disabling Debug Mode for a selected Use Case and User.

2. Under **Debug Users**, click **Create Debug Users**.

   The **Create Debug Users** screen is displayed.

Figure 5-1 Create Debug Users

3. Specify the sensitivity field on Anomaly Model Build screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 5-8 Investigative Dashboard - Field Description

Field	Description
Use case name	Select the use case for which debugging should be applied. This field is mandatory.
User Id	Specify or search and select the application user for whom debugging is applied. The field supports type-ahead and lookup. This field is mandatory.
Debug Level	Select the verbosity for logging. Typical values include Info and Debug.
Debug Flag	Toggle to enable (ON) or disable (OFF) debugging for the selected user and use case.

4. Click **Save** to create new Debug User for the Selected Use case.

View Debug Users

This section describes the information about enabling and controlling Debug Mode for a selected Use Case and User.

5. Under **Debug Users**, click **View Debug Users.**

   The **View Debug Users** screen is displayed.

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Figure 5-2 View Debug Users

6. From the **Use Case Name** drop-down list, select the desired use case.

   The system displays a table listing all users associated with the selected use case.

7. To modify **Debug** flags, click the **Edit** action button available in the table.

   The system allows updating the Debug Flag settings accordingly.

Debug Logs

This topic describes the information about exporting debug logs for a selected Use Case.

8. Under **Debug Users**, click **Debug Logs**.

   The **Debug Logs** screen is displayed.

Figure 5-3 Debug Logs

9. Select the desired use case from the **Use Case Name** drop-down list.

   Click **Export** to download the logs for the selected use case.

5.3 Partitioned Model

This topic describes the information about the partitioned model in Machine Learning.

Oracle in-Database machine learning allows the user to design partitioned models.

Partitioned model organizes and represents multiple models as partitions in a single model entity, enabling the user to easily build and manage models tailored to independent slices of data.

Table 5-9 Example - Customer details

CUSTOMER ID	BRANCH	MARITAL STATUS	INCOME	SAVING	LUXURY SPEND
12345	BRT	Y	15000	6723	1000
12346	BRT	N	17500	250	750
12347	CSR	D	25000	2654	1900
12348	GRF	N	16567	20	2500

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In this above example of data, the user could build a single partitioned model on independent slices of data based on branch code.

The user has the advantage of having a single partitioned model instead of having multiple models for each individual branch.

5.4 On-Boarding Use Case

This topic describes the information about the On-Boarding Use Case provided in the common core.

This topic contains the following subtopics:

- Model Definition
  This topic describes the information about to define the use case and configure the data source to be used for model training.
- Model Training and Scoring
  This topic describes the systematic instructions to train the model for the selected use case and use the trained model to predict and score multiple records at a time.

5.4.1 Model Definition

This topic describes the information about to define the use case and configure the data source to be used for model training.

Use cases are defined by the business domain of the product processor to which it is mapped. They are unique and machine learning models are named after the use case.

This topic contains the following subtopics:

- Model Definition Maintenance
  This topic provides the systematic instructions to maintain the use case details, define the use case type, and data source details.
- View Model Definition
  This topic describes the systematic instructions to view the list of defined use cases.

5.4.1.1 Model Definition Maintenance

This topic provides the systematic instructions to maintain the use case details, define the use case type, and data source details.

1. From **Home** screen, click **Machine Learning**. Under **Machine Learning**, click **Model Definition**.
2. On the **View Model Definition** screen, click button on the Use case tile to **Unlock** or click button to create the new model definition.

   The **Model Definition** screen is displayed.

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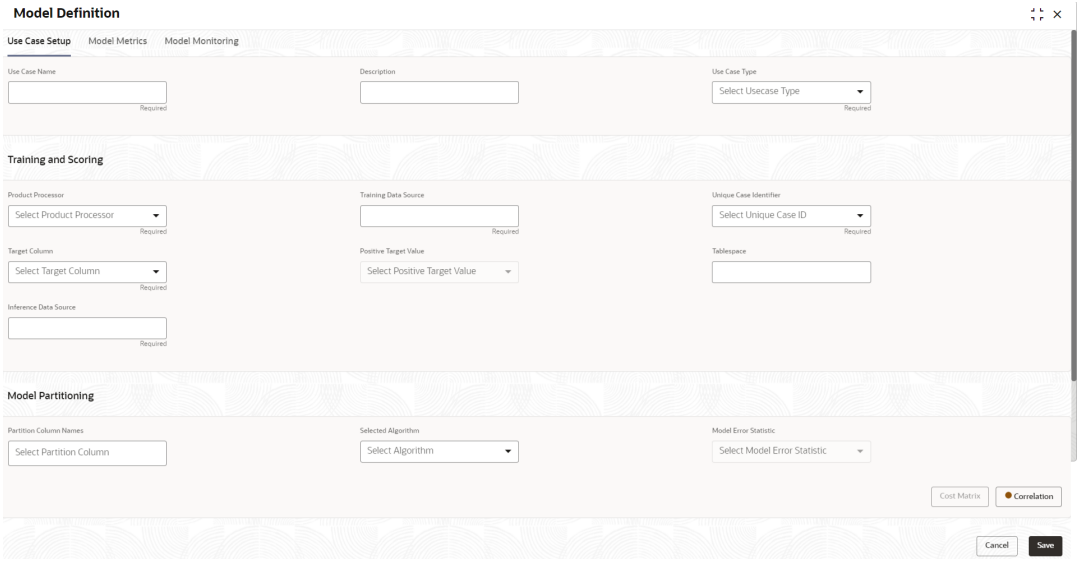
Figure 5-4 Model Definition



3. Specify the fields on the **Model Definition** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 5-10 Model Definition – Field Description

Field	Description
Use Case Name	Specify the name of the Use Case.
Description	Specify the description of the Use Case.
Use Case Type	Select the type of Use Case. Refer Frameworks Supported for details.
Product Processor	Select the product to which the use case belongs.
Training Data Source	Specify the Table or View name used as data source to train the model.
Unique Identifier	Select the column name to uniquely identify a record. **Note**: Column name is a function of table/view design.
Target Column	Select the value of the column which is predicted by training the model. **Note**: Column name is a function of table/view design.
Positive Target Value	This field is enabled when the **Use Case Type** is **CLASSIFICATION** and else disabled. It will display distinct values from the target column.
Tablespace	Specify the valid tablespace and all model related data will be persisted in this table space.

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Table 5-10 (Cont.) Model Definition – Field Description

Field	Description
Inference Data Source	Specify the Table or View that capture the data to be used for making predictions. Inference data source will be the current data where we are trying to predict the target using the built model, unlike the training data where target is already provided.
Partition Column Names	Specify the column names to slice data. Refer Partitioned Model for details.
Selected Algorithm	Select the algorithm from the list and build the model. For REGRESSION, this field should be null and allow the framework to select the best fit algorithm to build the model. **Note**: It will be disabled for ANOMALY_DETECTION and CLUSTERING
Model Error Statistics	Select the model error statistics. By Default, the value is selected as RMSE for REGRESSION. The user can also select MAE. **Note**: It will be disabled for CLASSIFICATION, CLUSTERING and ANOMALY_DETECTION.

4. Click **Save** to save the details.

   The user can view the configured details in the Model Definition screen.

Cost Matrix:
This button is enabled ONLY for CLASSIFICATION type of use cases.

Any classification model can make two kinds of error

Table 5-11 Classification Type - Error

Actual Value	Predicted Value	Error Type
1	0	False Negative
0	1	False Positive

This screen is used to bias the model into minimizing one of the error types, by adding a penalty cost.

All penalty cost has to be positive.

Table 5-12 Classification Type - Penalty

Actual Value	Predicted Value	Penalty Cost
1	0	6
0	1	2

The default is zero cost for all combinations.

Biasing the model is a trade-off with accuracy of prediction. Business determines if a classification model is required to be biased or not.

5. Click **Cost Matrix** button to launch the screen.

   The **Cost Matrix** screen is displayed.

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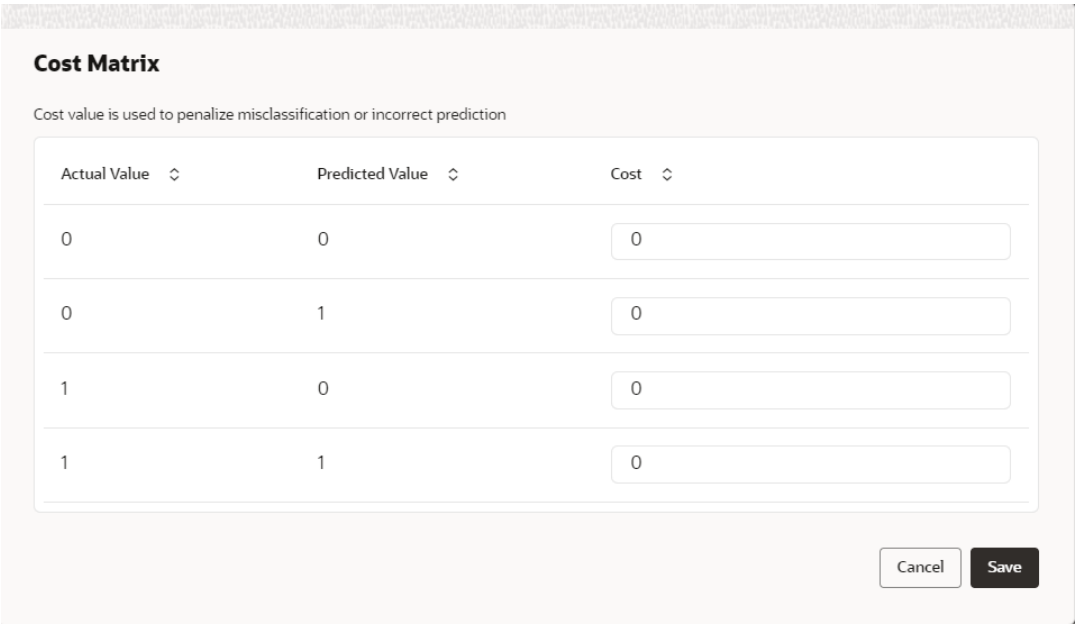
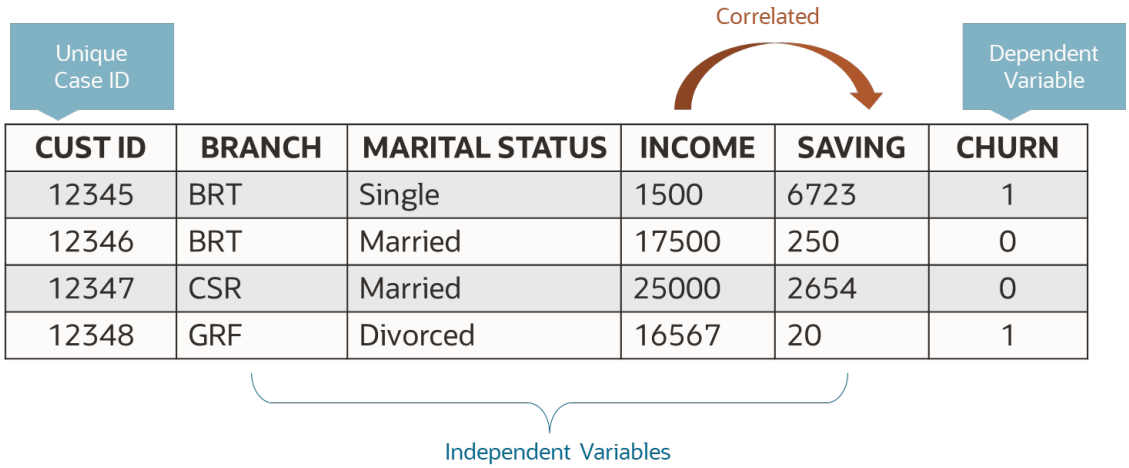
Figure 5-5 Cost Matrix



6. On the **Cost Value** screen, specify the relevant penalty cost.
7. Click **Save** to save and close the **Cost Matrix screen** and back to the **Model Definition** screen.

Correlation:
Multicollinearity occurs when two or more independent variables are highly correlated with one another in a model.

Figure 5-6 Correlation



CUST ID	BRANCH	MARITAL STATUS	INCOME	SAVING	CHURN
12345	BRT	Single	1500	6723	1
12346	BRT	Married	17500	250	0
12347	CSR	Married	25000	2654	0
12348	GRF	Divorced	16567	20	1

Multicollinearity may not affect the accuracy of the model as much, but we might lose reliability in model interpretation.

Irrespective of CLASSIFICATION or REGRESSION, use cases must be evaluated for Correlation. Correlation evaluation will be disabled for CLUSTERING and ANOMALY DETECTION.

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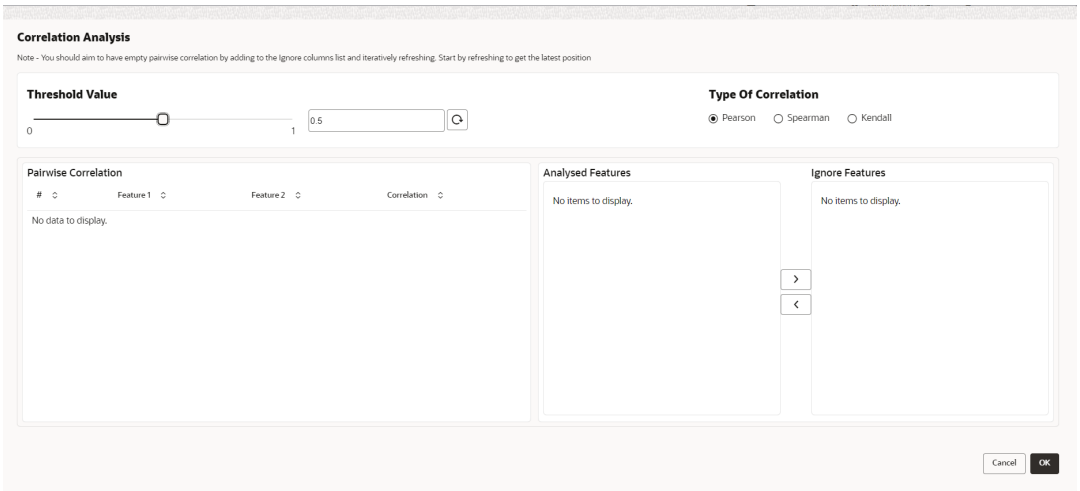
This button will display Orange mark if evaluation is pending.

8. Click **Correlation** button to launch the screen.

   The **Correlation Analysis** screen is displayed.

Figure 5-7 Correlation Analysis



9. Select the required fields on **Correlation Analysis** screen.

   For more information on fields, refer to the field description table.

Table 5-13 Correlation Analysis – Field Description

Field	Description
Threshold Value	Select the threshold value. The Value can be set between 0.1 to 0.9. **Note**: By default, the value is set as 0.5.
Type of Correlation	Select the type of correlation. By default, the option is selected as Pearson. The formula used for calculation is different for each type
Pairwise Correlation	Displays the output of the Correlation Validation.
Analyzed Features	Displays the distinct analyzed features from Pairwise Correlation.
Ignore Features	User defined list created from Analyzed Features.

10. Click to initiate the evaluation process.

    The **Correlation Analysis - Pairwise Correlation** screen is displayed.

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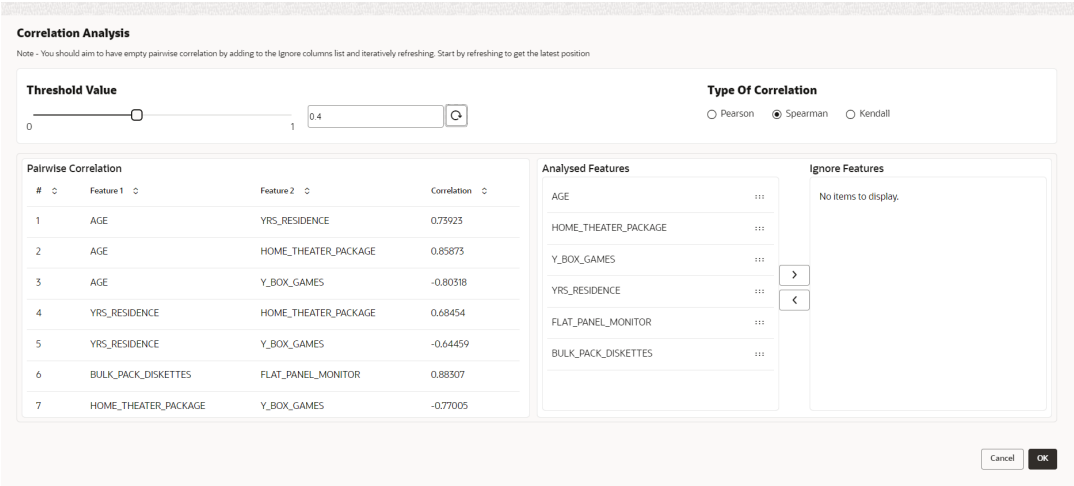
Figure 5-8 Correlation Analysis - Pairwise Correlation



11. Move ONE of the Analyzed Features to Ignore Features List.

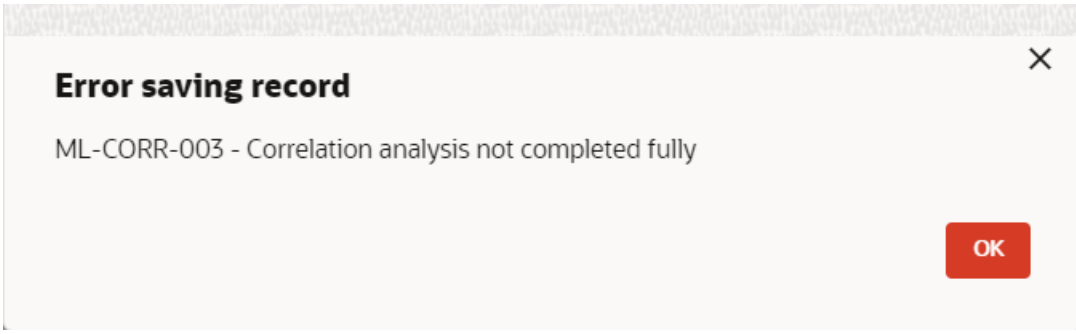
12. Click and re-evaluate Correlation as mentioned in Step 8.

13. Rinse and repeat the Step 9 and 10 for each feature addition to the **Ignore feature** list, until **Pairwise Correlation** displays zero correlated pair.

14. Attempting to exit the screen midway without achieving zero Pairwise Correlation, will display the following error message.

    The **Error Message** screen displays.

Figure 5-9 Error Message



15. After successful **Correlation Evaluation**, the orange highlight on the **Correlation** button is removed.

16. After **Correlation Evaluation** and **Cost Matrix definition** (for CLASSIFICATION)

17. Click **Save** to create the new Model Definition.

    The user can view the configured details in the **View Model Definition** screen.

Model Metrices

Once the user has successfully trained Machine Learning model, the user can score/predict the model outcomes as required by the use case. The user can view the **Model Metrices** screen only after training the model successfully. Refer to **Model Training and Scoring** section for training the model.

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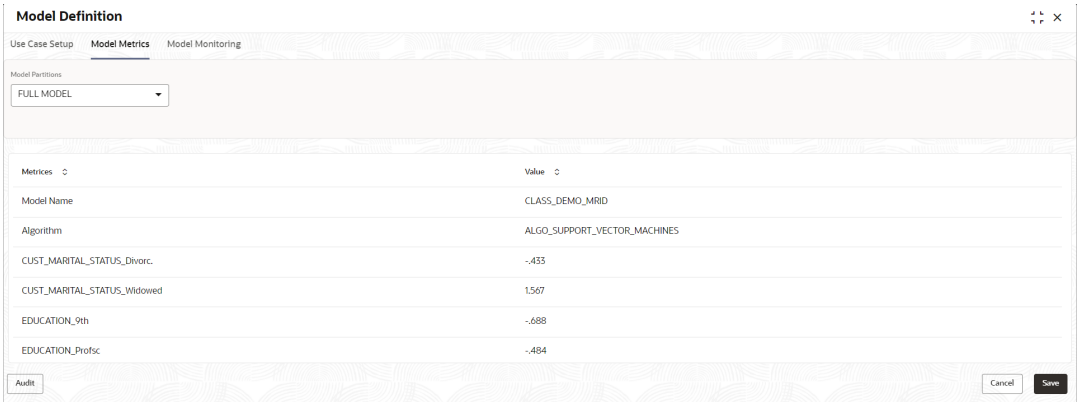
18. Click **Model Metrices** to view the Model Metrices details.

    The **Model Metrices** screen displays.

Figure 5-10 Model Metrices



For more information on fields, refer to the field description table.

Table 5-14 Model Metrices – Field Description

Field	Description
Model Partitions	Select the model partitions from the drop-down list. If the model has been designed to have partitions, it will display the partitioned values based on underlying data of the defined partition column else display FULL MODEL.
Metrices	Displays the various model attributes, as per the best model identified and trained. The number of model attributes is a function of algorithm and underlying pattern of data. Some attributes are common for all models as below. Model Name Algorithm INF_TIME (Inference Time) <Model metric>(Train) <Model metric>(Test)
Value	Displays the value of the attribute.

5.4.1.2 View Model Definition

This topic describes the systematic instructions to view the list of defined use cases.

- From **Home** screen, click **Machine Learning**. Under **Machine Learning**, click **Model Definition**.

  The **Model Definition** screen is displayed.

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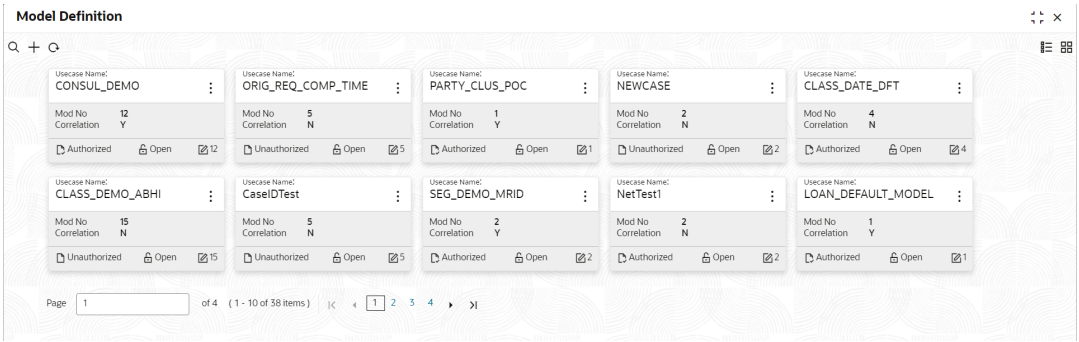
Figure 5-11 Model Definition



For more information on fields, refer to the field description table.

Table 5-15 Model Definition – Field Description

Field	Description
Usecase Name	Displays the name of the use case.
Mod No	Displays the modification number.
Correlation	Displays the default orange colour for New records. On correlation validation in Model definition screen, it will change to green colour.
Authorization Status	Displays the authorization status of the record. The options are: • **Authorized** • **Rejected** • **Unauthorized**
Record Status	Displays the status of the record. The options are: • **Open** • **Closed**
Modification Number	Displays the number of modification performed on the record.

5.4.2 Model Training and Scoring

This topic describes the systematic instructions to train the model for the selected use case and use the trained model to predict and score multiple records at a time.

The predicted values persist in the database and are available in the prediction column maintained for the user case.

1. From **Home** screen, click **Machine Learning**. Under **Machine Learning**, click **Model Training and Scoring.**.

   The **Model Training and Scoring** screen is displayed.

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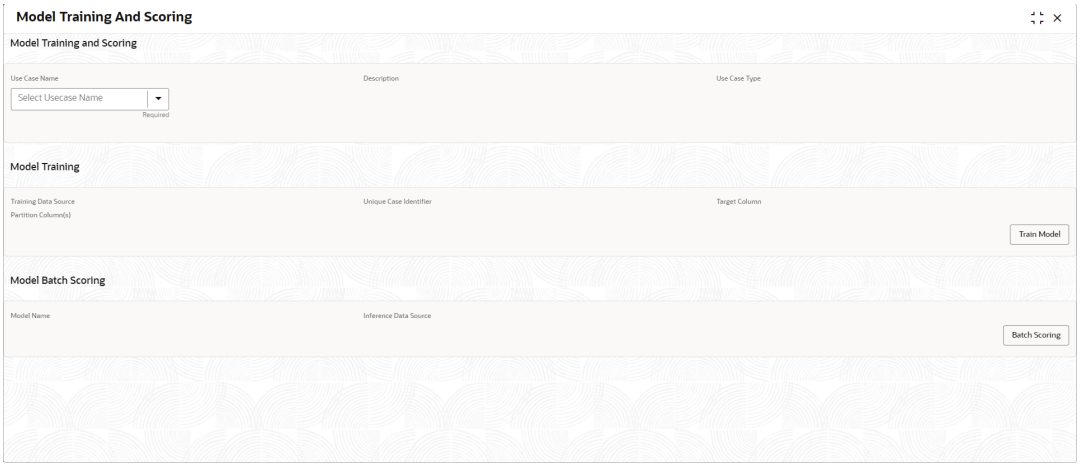
Figure 5-12 Model Training and Scoring



For more information on fields, refer to the field description table.

Table 5-16 Model Training and Scoring – Field Description

Field	Description
Use Case Name	Select the Use Case name from the drop-down list.
Description	Displays the description of the use case.
Use Case Type	Displays the type of use case.
Training Data Source	Displays the training data source.
Unique Case Identifier	Displays the unique case identifier.
Target Column	Displays the target column of the model.
Partition Column(s)	Displays the partition column of the model.
Model Name	Displays the name of the model.
Inference Data Source	Displays the Inference data source.

2. Select the use case name from the drop-down list.
3. Click **Train Model** to train the model for the selected use case.
4. Click **Batch Scoring** to predict the score for the data source records.

   The predictions of batch scoring are now available for business consumption.

> **Note**
>
> Model Training and Scoring user interface supports only REGRESSION and CLASSIFICATION.

5.5 Online Single Record Prediction

This topic describes the information about the online single record prediction supported in common core.

This is made available as a REST API and allow you to predict for a single record. The predictions do not persist in the database.

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These can be invoked directly from application user interface, to retrieve and display the results.

The explainability of the model outcome is also made available.

5.6 Use Case Modifications

This topic describes the information about the use case modifications.

Use case definition may undergo the following modification and would require model re-training. After each re-training run, you should review the model details discussed under Model Explainability

Table 5-17 Use Case Modifications

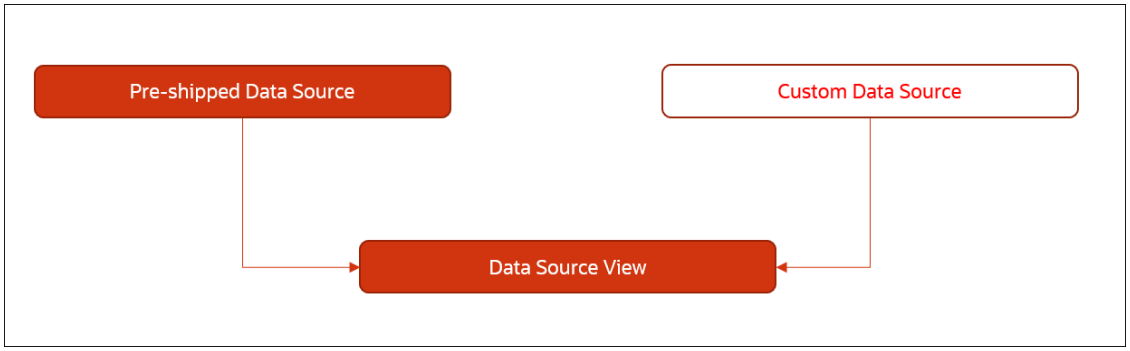
Use Case Modification	Model Re-training Required	Correlation Analysis Required
Data Source replaced by another data source	Yes	Yes
New column Added to existing data source	Yes	Yes
New columns Added to custom data source	Yes	Yes
Existing column removed from existing data source	Yes	Yes
Selected Algorithm Changed	Yes	No
Model Error statistic Changed	Yes	No
Partition Column Name list altered (added / removed)	Yes	Yes

5.7 Data Extensibility

This topic describes the information about Data Extensibility.

To address the requirement of banks to add new data points to the factory shipped data source, we have provided the facility of data extensibility.

Figure 5-13 Data Extensibility



Banks can add any number of new data columns to the customer data source.

The defined data source view is mapped to a use case in the Model definition.

Machine Learning will automatically consider all the available data points in the data source View.

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5.8 Model Explainability

This topic describes the information about the Model Explainability.

The details of the Regression models built using the framework is made available under the **Model Metrices** screen in **Use Case Definition** for better understanding and transparency.

The available details are below:

- Model Name
- Algorithm Name
- Inference Time
- Training Error Metric
- Testing Error Metric
- List of data attributes that make up the model depending on the framework and algorithm used.

5.9 Model Monitoring and Auto Training

This topic describes about the Model Monitoring and Auto Training.

The underlying data on which a machine learning model is initially trained will eventually undergo changes in distribution over time. This shift in the data distribution away from the original distribution is referred to as data drift.

Not if, but when the underlying data drift is significant enough, the current model may lose its efficacy in predicting outcomes, on setting model decay.

Monitoring of deployed models is required to detect data drift and trigger model re-build or re-training.

Regression and Classification use case types are eligible for setting up model monitoring.

> **Note**
>
> Model monitoring expects the presence of an existing trained model as a pre-requisite

1. From **Home** screen, click **Machine Learning**. Under **Machine Learning**, click **Model Definition**.
2. Under **Model Definition**, Click **Model Definition Summary**.
3. Click

   on the Use case tile to **Unlock**.
4. Select **Model Monitoring** tab in the **Model Definition** screen.

   The **Model Monitoring** screen is displayed.

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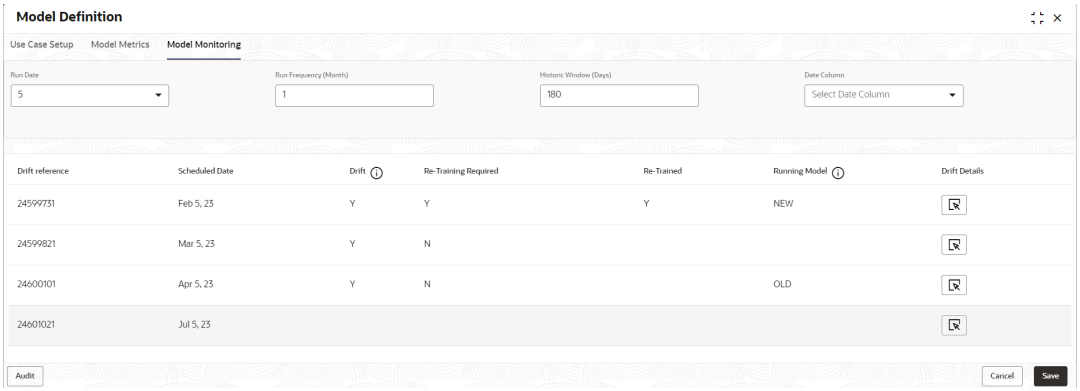
Figure 5-14 Model Monitoring



5. This screen allows you to setup Model monitoring for the use case.

   For more information on fields, refer to the field description table.

Table 5-18 Model Monitoring – Field Description

Field	Description
Run Case	Run date is the calendar date used with 'Run Frequency (Month)' to set up a recurring monitoring schedule. On the schedule date, model monitoring routine will analyze the underlying data to detect presence/absence of data drift and trigger model re-build. Permissible values: 1 – 31 and default is 15 **Note:** This field is mandatory but will be disabled for Anomaly Detection.
Run Frequency (Month)	Specify the run frequency in months. Example: if we want to schedule a run on 17th of every 6 months, then we set up Run Date: 17 Run Frequency (Month): 6 6 is the set default, the value. Minimum value is 1 **Note:** This field is mandatory but will be disabled for Anomaly Detection.
Historic Window (Days)	Historic window in days determine how far back should we consider, to define the window of data evaluation. Example: A value of 90 would mean a historic window from T-90 days to T Day, T being the system date. Default is set at 180. **Note:** This field is mandatory.
Date Column	This field captures the date column in the data source which should be considered for determining the historic window. Keep it empty If the data source does not have a date column. In the absence of a date column in the data source, system will consider the entire available data available in the data source.

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6. The following fields are populated for reference once the model monitoring routine is executed on the scheduled date.

Table 5-19 Model Evaluation - Field Description

Field	Description
Drift Reference	Displays the Unique Drift Reference ID, populated by the model monitoring routine initial run
Scheduled Date	Displays the scheduled date after the initial run of the model monitoring routine.
Drift	Initially it will be empty and will get populated once the model monitoring routine runs and determines the presence or absence of drift. Display value is Y or N.
Re-Training Required	Model monitoring routine determines the re-training requirement and populates Y or N values.
Re-Trained	Model monitoring routine populates the status of re-training with Y or N values.
Running Model	The model monitoring routine evaluates both the existing and the new model, it re-trained, to determine which model best fits the contemporary changed data. Final values are OLD, if existing model is retained or NEW, for revised re-trained model.

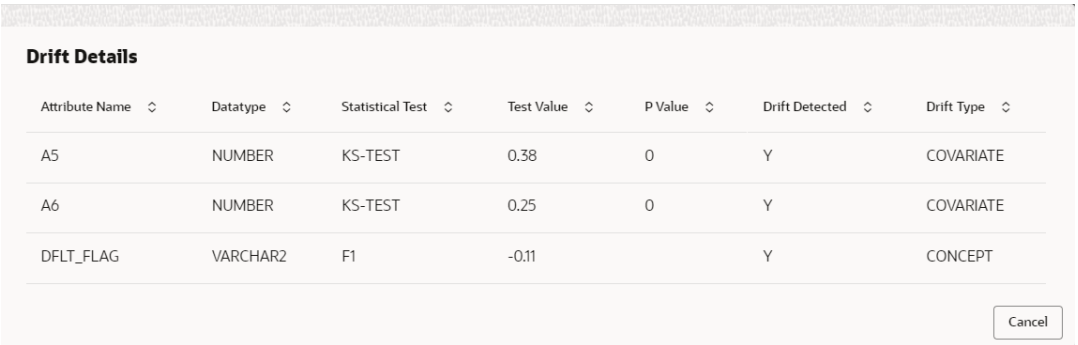
7. Click to view drift details.

The Drift Details button will be enabled only if drift is detected; otherwise, it will continue to be disabled.

The model monitoring routine identifies the drift in the data distribution using statistical hypothesis tests. Drift is of two types - Concept drift for target and data drift for the data attributes. Concept drift decides if the current model is to be re-trained or not. If concept drift is detected, this screen displays the analysis and statistical test values for both the concept drift and data drift of the attributes that contribute to the model.

The **Drift Details** screen is displayed.

Figure 5-15 Drift Details



Drift Details

Attribute Name	Datatype	Statistical Test	Test Value	P Value	Drift Detected	Drift Type
A5	NUMBER	KS-TEST	0.38	0	Y	COVARIATE
A6	NUMBER	KS-TEST	0.25	0	Y	COVARIATE
DFLT_FLAG	VARCHAR2	F1	-0.11		Y	CONCEPT

Cancel

For more information on fields, refer to the field description table.

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Table 5-20 Drift Details - Field Description

Field	Description
Attribute Name	Displays the attributes used in the model
Data type	Displays the data type of the attribute.
Statistical Test	Displays the statistical tests results. The available options are: • **F1** - concept drift • **KS-TEST** - Numerical feature attributes • **CHI-SQR** - categorical feature attributes
Test Value	Displays the numerical statistical test result
P Value	The P Value determines the statistical significance. Will be null for F1 statistical test.
Drift Detected	Indicates whether drift has been detected with a Y or N.
Drift Type	Displays either concept or covariate (data) drift type.

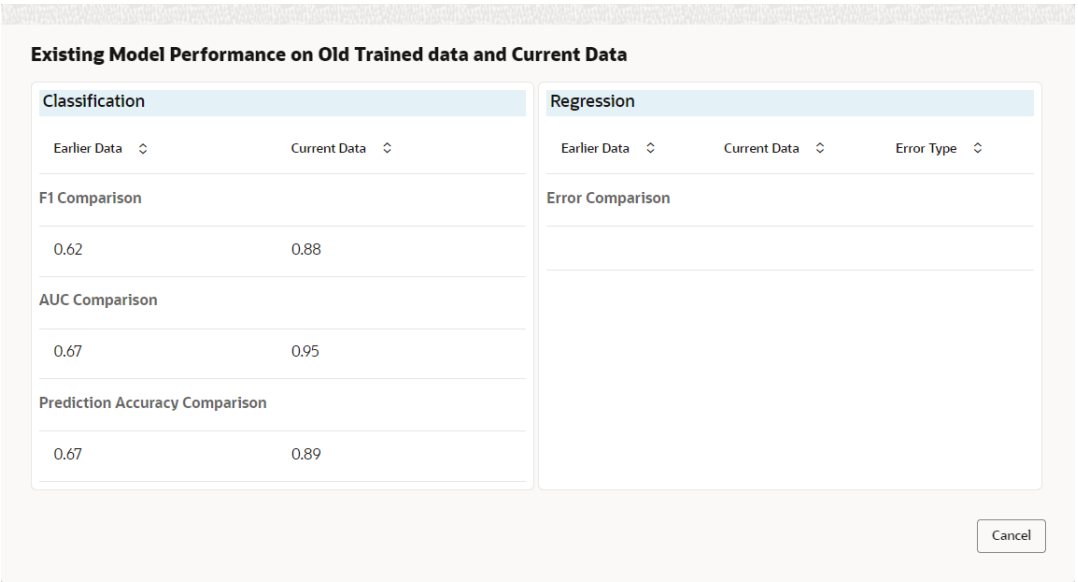
8. Select the relevant **Drift Reference** record.

Click from Drift header to view the comparative Model Performance Screen to understand how the decision of drift is arrived at.

Existing model is used to predict on an earlier data sample and the current data sample. The results of both the prediction are captured and displayed.

Classification models are compared on F1, AUC and Prediction accuracy while Regression, models are evaluated on prediction error.

Figure 5-16 Existing Model Performance on Old Trained data and Current Data



9. Select relevant **Drift Reference** record.

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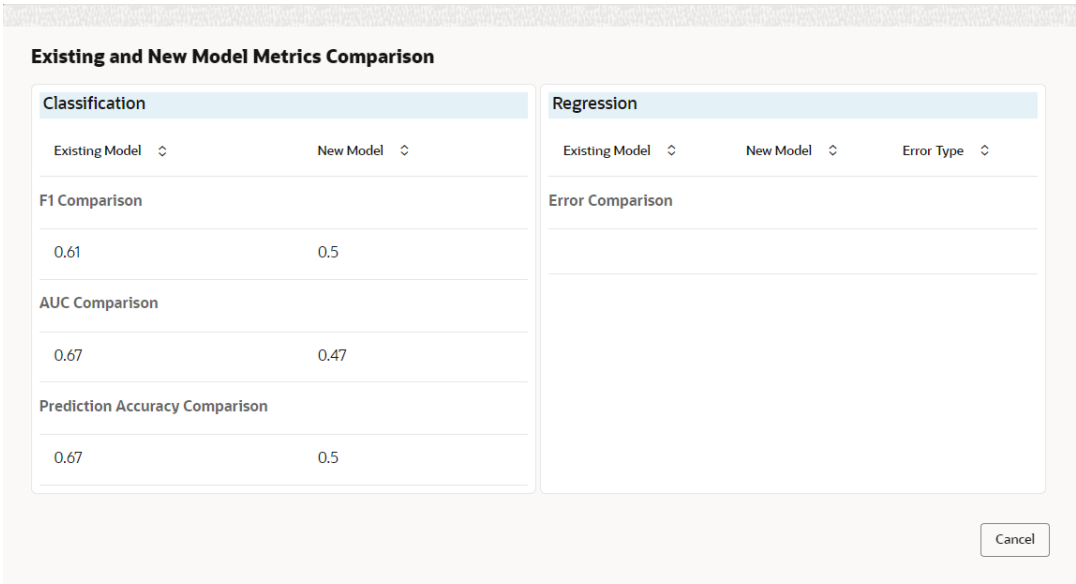
Click from Running Model header to view the comparative performance of the re-trained model vs current model, in order to understand how the system decided on which model best fit the current data distribution.

Classification models are evaluated on F1, AUC and Prediction accuracy while Regression models, are evaluated on prediction error.

Figure 5-17 Existing and New Model Metrics Comparison



5.10 Clustering

This topic describes the information about the Clustering.

Clustering is an unsupervised learning technique that groups similar records into coherent clusters so that items within a cluster are alike, and clusters are meaningfully different from one another. In practical terms, it discovers natural groupings in data based on feature similarity, helping reveal patterns such as distinct customer profiles, behaviours, or risk cohorts without needing predefined labels.

1. From **Home** screen, click **Machine Learning**. Under **Machine Learning**, click **Clustering**. The **Clustering** screen is displayed.
2. Specify the fields on the **Clustering** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

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Figure 5-18 X Clustering

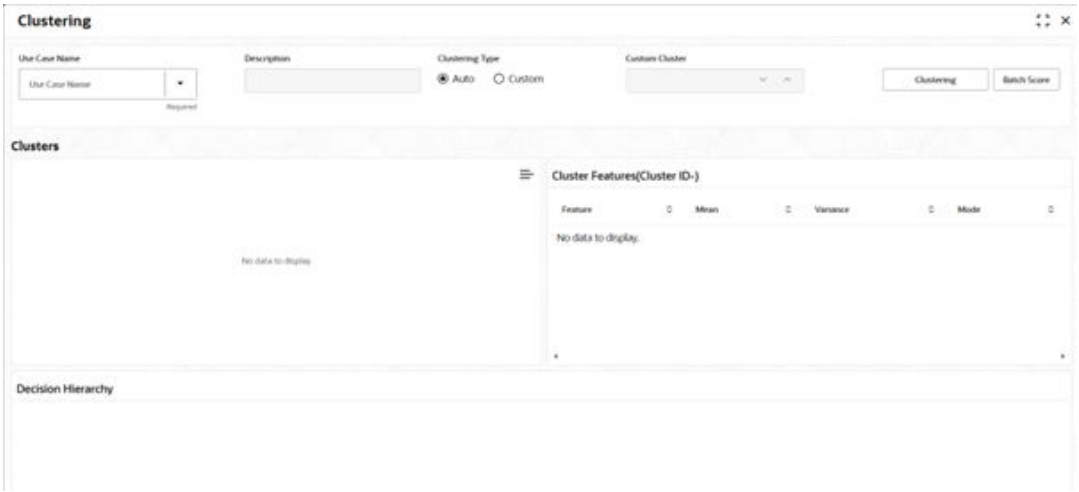

Table 5-21 Clustering – Field Description

Field	Description
Use case name	Select an existing use case defined in model definition for clustering. This field is Required.
Description	This value is fetched from the Use Case definition. This is read only field.
Clustering Type	Select the clustering type from the drop-down list. The available options are: • **Auto**: Algorithm selects number of clusters automatically • **Custom**: User manually set the number of clusters as per business requirements The default value is Auto.
Custom Cluster	This field is enabled only when **Clustering Type** is selected as **custom**; Key in the desired number of clusters. This field is mandatory if **Clustering Type** selected is **Custom**.

3. Select the use case name from the drop-down list.
4. Select **Clustering Type** from the drop down list.
   a. **Auto**: Select Auto to let the algorithm determine the cluster count by recursively partitioning the data until clusters are internally homogeneous and distinct. Use this when you do not have a predefined number and want data-driven groupings.
   b. **Custom**: Select Custom to specify a fixed number of clusters; the model will create that many clusters as the upper limit. Use this when business require a pre-determined set of clusters.

   Note: Provide the cluster count as a non-decimal number in the **Custom cluster** field.
5. Click **Clustering** to train the model for the selected use case.
   Allow a few seconds for the UI to populate.
6. After trying out either **Auto** or **Custom** as per business needs, click **Batch Scoring** to predict the clusters of the inference data source, using the auto or custom cluster model .
   The predictions of batch scoring are now available for business consumption.

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Clusters The cluster map provides a quick visual snapshot of clustering results by showing each cluster as a box, larger boxes indicate more records in that cluster. The clusters are arranged in decreasing order based on number of records from top-left to bottom-right. Hovering the cursor over a box displays the exact record count for that cluster.

The Cluster Features presents the profile of the currently selected cluster with its exact record count and updates automatically when a cluster is chosen. It contains four columns- Feature, Mean, Variance, and Mode, where Feature lists the key training columns used by the model, Mean and Variance describe numerical features within the cluster, and Mode reports the most frequent category for categorical features.

Figure 5-19 Clusters

Clustering Visualization (Auto)

In **auto mode**, the visualization presents a **decision tree** (see figure i) read from left to right, with non-coloured nodes indicating intermediate decision points and coloured nodes represent the leaf node, indicating the final clusters. Links trace the decision path from parent to child nodes, and selecting a leaf highlights the complete path to that cluster. Both numerical and categorical split conditions are supported, enabling clear traceability of how auto feature-based rules form each cluster and allowing comparison by inspecting paths and terminal nodes.

Clustering Visualization (Custom)

In **custom mode**, the visualization presents a **spider chart** of centroids (see figure ii), where each axis represents a training feature, and each line represents a cluster's average values across those features. Multiple clusters can be displayed simultaneously for profile comparison, with optional focus on selected features as needed.

Categorical features are represented by grey boxes in the spider chart and features values are indicated by an additional per-cluster category box map that appears when a highlighted categorical feature is selected, providing distributions and percentages to understand category dominance across clusters.

Numerical feature values are available on mouse hovering on peak points within the spider chart.

For cluster comparison, select more than one cluster in the legend above.

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Figure 5-20 Decision Hierarchy

Figure 5-21 Visual Attributes

5.11 Anomaly Detection

This topic describes information about the Anomaly Detection.

Anomaly detection in machine learning focuses on identifying patterns in data that deviate from expected behavior. These “anomalies” or “outliers” can signal critical events such as fraud, system failures, security breaches, or data quality issues.

1. From **Home** screen, click **Machine Learning**. Under **Machine Learning**, click **Anomaly Detection**.

   The **Anomaly Model Build** screen is displayed.

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Figure 5-22 Anomaly Model Build

2. Specify the sensitivity field on Anomaly Model Build screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 5-22 Anomaly Model Build - Field Description

Field	Description
Use case name	Select an existing use case defined in model definition for Anomaly Detection. This field is mandatory.
Sensitivity	Specify a numeric value to define the sensitivity level for anomaly detection (the default is 0.01) This field is mandatory.

3. Click **Build** to triggers the model building process based on the selected use case and sensitivity.

Model Output
This section displays the results after the model is built.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 5-23 Anomaly Model Build - Field Description

Field	Description
Calculated Sensitivity	Displays the final sensitivity level computed after model training.
Solver	Displays the optimization method used during the model-building process.
Converge	Indicates whether the training process met its stopping criteria and reached a stable solution (example: Yes/No).

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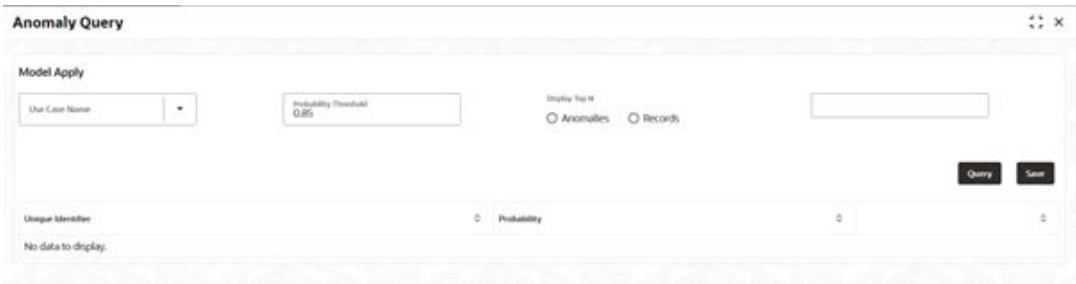
Anomaly Query

This section helps you apply the model subject to a probability threshold value, which is determined by business based on risk sensitivity, to highlight unusual records and save selected results as cases for investigation.

4. Under **Anomaly Detection**, click **Anomaly Query**.

   The **Anomaly Query screen** is displayed.

Figure 5-23 Anomaly Query



5. Specify the fields on **Anomaly Query** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 5-24 Anomaly Query - Field Description

Field	Description
Use case name	Select the trained anomaly detection use case you want to apply. This field is mandatory.
Probability	Enter a value between 0.01 and 1 that defines what probability threshold the model should consider as anomaly. Records with probability at or above this value are flagged as anomalies. This field is mandatory.
Threshold	Select how many results to show and what they represent. The available options are: • **Anomalies**: Returns the top N records that meet or exceed the Probability Threshold (that is only flagged anomalies). • **Records**: Returns the top N records ranked by probability, regardless of the threshold. This field is mandatory.
Display Top N	Specify the Top N rows option from drop-down list. The available options are: • **Anomalies** • **Records** This field is mandatory.

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Table 5-24 (Cont.) Anomaly Query - Field Description

Field	Description
Top N	Provide how many rows to display. If fewer qualifying rows exist, the list will be shorter. Must be a positive whole number. This field is mandatory if **Display Top N** type is **Records**.

6. Click **Query** button to run the model with the selected use case, threshold, and display settings.

   Populates the results table.

   > **Note**
   >
   > The fields marked as **Required** are mandatory.

   For more information on fields, refer to the field description table.

Table 5-25 Anomaly Query - Field Description

Field	Description
Unique Identifier	Displays the primary key for each scored record.
Probability Threshold	The model's estimated likelihood that the record is anomalous. Higher values indicate stronger anomaly signals.

7. Click the **Save** to save all identified anomalies along with the current query settings for future investigation.

   > **Note**
   >
   > If **Anomalies** is selected but the threshold is set too high, fewer than N results may be displayed.
   >
   > If **Records** is selected, the probability for each item is shown; only items at or above the threshold are considered anomalies.

Investigative Dashboard

This dashboard helps you review, assign, investigate, and close out anomalies that were saved as cases from the Anomaly Query step.

8. Under **Anomaly Detection**, click I**nvestigative Dashboard**.

   The **Investigative Dashboard** screen is displayed.

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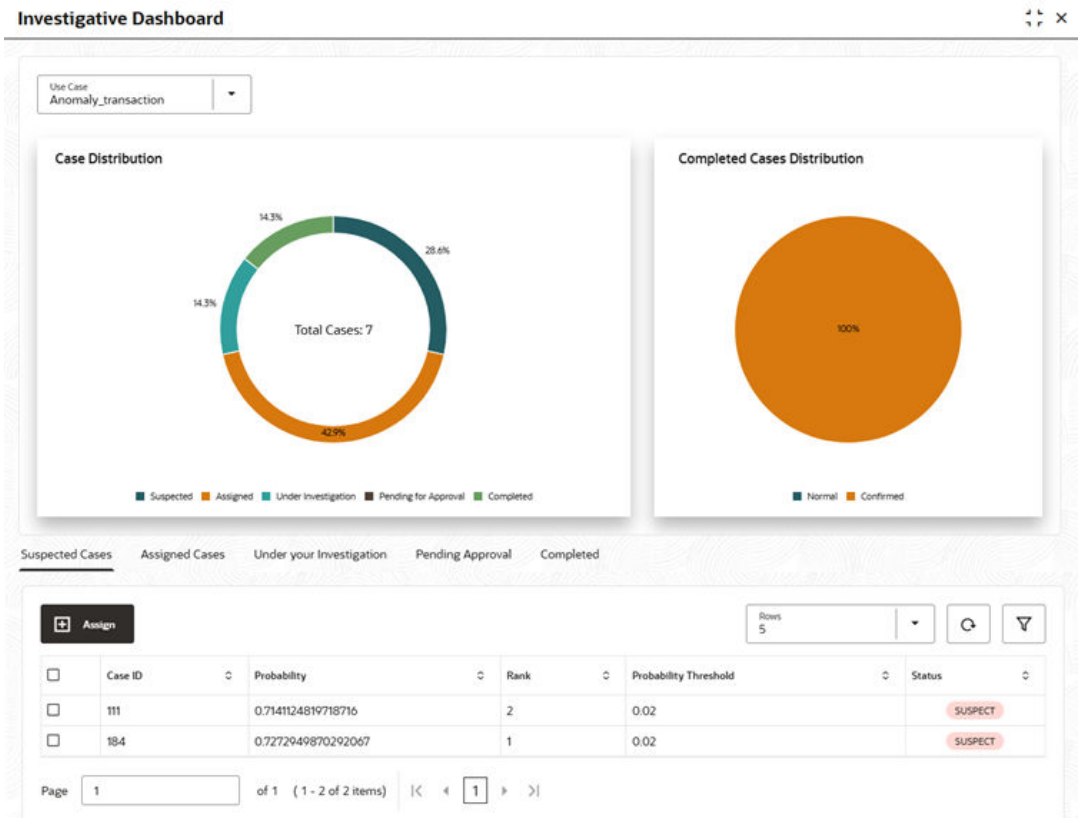
Figure 5-24 Investigative Dashboard



9. Select the Use Case to load its cases and metrics.
10. Review the Case Distribution to view counts across Suspected, Assigned, Under your Investigation, Pending Approval, and Completed.
11. Open **Suspected Cases**, select the anomaly records, and click Assign to route them to the appropriate owner.
12. The assignee reviews the case under Under your Investigation, records findings, and sets the outcome as Confirmed or Normal.

Figure 5-25 Investigative Dashboard

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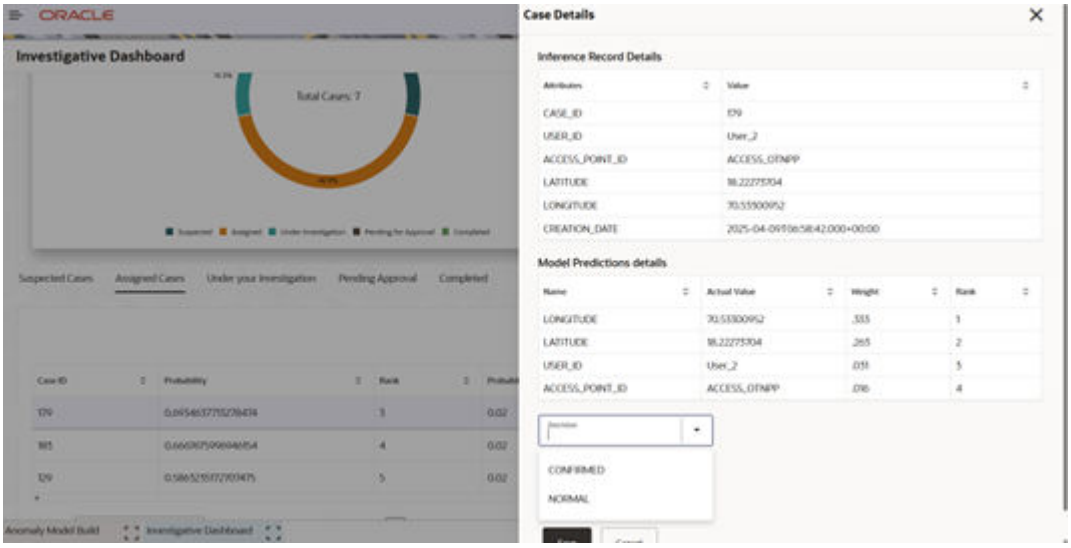

13. 15. After setting the outcome, click Submit for Approval for approval.

Figure 5-26 Investigative Dashboard

14. The case moves to **Pending Approval**.

    On approval, the case is closed and appears under **Completed**; if rejected, it returns to Under **Investigation** for further action.

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6
File Upload

This topics describes about the various File Upload features provided in common core.

- Country Code File Upload
  This topics describes the information to perform the bulk upload for the country code maintenance in common core.
- Bank Core Parameters File Upload
  This topics describes the information to perform the bulk upload for the bank core maintenance in common core.
- Branch Core Parameters File Upload
  This topics describes the information to perform the bulk upload for the branch core maintenance in common core.
- Currency Definition File Upload
  This topics describes the information to perform Currency Definition maintenance in common core.
- BIC Directory File Upload
  This topics describes the information to perform the bulk upload for the BIC Directory maintenance in common core.
- Local Holiday File Upload
  This topics describes the information to perform Local Holiday maintenance in common core.
- Currency Holiday File Upload
  This topics describes the information to perform Currency Holiday maintenance in common core.
- External Customer File Upload
  This topics describes the information to perform External Customer maintenance in common core.
- External Customer Account File Upload
  This topics describes the information to perform External Customer Account maintenance in common core.
- Exchange Rate File Upload
  This topics describes the information to perform Exchange Rate maintenance in common core.
- Interest Rate File Upload
  This topics describes the information to perform the bulk upload for the interest rate maintenance in common core.

6.1 Country Code File Upload

This topics describes the information to perform the bulk upload for the country code maintenance in common core.

File Type Supported - CSV

File Naming Convention - CmcCountryMaint_<UniqueName>.csv

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> **Note**
>
> Replace the <UniqueName> for each file upload.

> **Note**
>
> The fields marked as **Required** are mandatory.

Table 6-1 Country Code File Upload – Records

Sequence	Attribute Name	Type	Size	Description
1	Action*	String	10	Denotes file operation type. Allowed values are new/modify
2	Country Code*	String	3	Country Code
3	Description*	String	105	Name of the country
4	Alt Country Code*	String	10	Alternate Country Code
5	Region Code*	String	3	Region Code
6	Blacklisted*	String	1	Indicates the country is blacklisted
7	IBAN Check Reqd*	String	1	Indicates check required for an IBAN is mandatory
8	Intra European*	String	1	Denotes the country is an intra European country
9	Clr Code Bic*	String	1	BIC Clearing Code Indicates the National ID in the BIC plus file is the clearing code
10	Clearing Network	String	6	Indicates the Clearing Network
11	ISO Num Country Code*	String	3	Denotes the ISO Country Code
12	Gen Mt205*	String	1	Indicates the cover message 205COV or 205
13	ISD Code*	String	10	Denotes the ISD Code
14	EU Country*	String	1	Indicates the country is recognized by Swift as a part of the Intra European countries

6.2 Bank Core Parameters File Upload

This topics describes the information to perform the bulk upload for the bank core maintenance in common core.

File Type Supported - CSV

File Naming Convention - CmcBankMaint_<UniqueName>.csv

> **Note**
>
> Replace the <UniqueName> for each file upload.

> **Note**
>
> The fields marked as **Required** are mandatory.

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Table 6-2 Bank Core Parameters File Upload – Records

Sequence	Attribute Name	Type	Size	Description
1	Action*	String	10	Denotes file operation type. Allowed values are new/modify
2	Days To Forget Customer*	String	4	Denotes Number of Days to inactive/Forget Customer
3	HO Branch*	String	3	Head Office Branch
4	Bank Name*	String	35	Name of the bank
5	Bank Code*	String	4	Denotes code for the bank

6.3 Branch Core Parameters File Upload

This topics describes the information to perform the bulk upload for the branch core maintenance in common core.

File Type Supported - CSV

File Naming Convention - CmcBranchMaint_<UniqueName>.csv

> **Note**
>
> Replace the <UniqueName> for each file upload.

> **Note**
>
> The fields marked as **Required** are mandatory.

Table 6-3 Branch Core Parameters File Upload – Master Records

Sequence	Attribute Name	Type	Size	Description
1	Discriminator*	String	1	Denotes master record type. Default value is always “P”
2	Action*	String	10	Denotes file operation type. Allowed values are new/modify
3	Source Branch Code*	String	20	Code of the Source Branch
4	Source System*	String	35	Source System
5	Week Hol2	String	1	Denotes the weekly holiday 2
6	Week Hol1	String	1	Denotes the weekly holiday 1
7	Auto Auth*	String	1	Auto Authorization
8	Walkin Customer	String	20	Denotes Walk-in customer
9	Branch Lcy*	String	3	Branch Local Currency
10	Branch Addr3*	String	105	Denotes the branch address details - Address Line 1
11	Branch Addr2*	String	105	Denotes the branch address details - Address Line 2

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Table 6-3 (Cont.) Branch Core Parameters File Upload – Master Records

Sequence	Attribute Name	Type	Size	Description
12	Branch Addr1*	String	105	Denotes the branch address details - Address Line 3
13	Branch Name*	String	105	Name of the branch
14	Country Code*	String	3	Country Code
15	Host Code*	String	8	Host Code
16	Branch Code*	String	3	Denotes the Code of Branch

Table 6-4 Branch Core Parameters File Upload – Child Record 1

Sequence	Attribute Name	Type	Size	Description
1	Discriminator*	String	10	Denotes the first child record type. Default value is always “BranchPref”
2	Report DSN	String	35	Denotes the details of the report DSN
3	DSN Name	String	35	Name of the DSN
4	Host Name	String	35	Host Name
5	Branch Code*	String	3	Denotes the Branch Code

Table 6-5 Branch Core Parameters File Upload – Child Record 2

Sequence	Attribute Name	Type	Size	Description
1	Discriminator*	String	12	Denotes the second child record type. Default value is always “SwiftAddress”
2	Default BIC*	String	1	Denotes the Default BIC
3	Swift Address*	String	12	Denotes the swift address details
4	Branch Code*	String	3	Branch Code

6.4 Currency Definition File Upload

This topics describes the information to perform Currency Definition maintenance in common core.

File Type Supported - CSV

File Naming Convention - CmcCurrencyMaint_<UniqueName>.csv

> **Note**
>
> Replace the <UniqueName> for each file upload.

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> **Note**
>
> The fields marked as **Required** are mandatory.

Table 6-6 Currency Definition File Upload – Master Records

Sequence	Field name	Type	Size	Description
1	Discriminator*	String	1	Denotes master record type. Default value is always “P”
2	Action*	String	10	Denotes file operation type. Allowed values are new/modify
3	Currency Code*	String	3	Denotes Currency Code
4	Currency Name*	String	105	Name of the currency
5	Country*	String	3	Currency Country
6	Currency Decimals*	Number	1	Currency Decimals
7	Currency Round Rule*	String	1	Denotes Currency Round Rule
8	Currency Round Unit*	Number	7	Denotes Currency Round Unit
9	Currency Format Mask	String	1	Denotes Currency Format Mask
10	Currency Spot Days*	Number	3	Number of spot working days applicable for the currency
11	Currency Int Method*	Number	1	Currency Interest Method
12	Position Gl	String	9	Position GL
13	Position Eqvgl	String	9	Position Equivalent GL
14	Currency Eur Type*	String	1	Currency Euro Type
15	Currency Tol Limit	Number	7	Currency Tolerance Limit
16	Settlement Msg Days*	Number	3	Settlement Message Days
17	Index Flag*	String	1	Derives index rate of the currency
18	Index Base Currency	String	3	Index Base Currency
19	Cut Off Hr*	Number	2	Hour of the day for the cut off
20	Cut Off Min*	Number	2	Minute of the hour for the cut of
21	Alt Currency Code*	String	10	Code of the alternate currency
22	Eur Conversion Reqd*	String	1	Euro Conversion Required
23	Cut Off Days*	Number	2	Cut Off Days for the payment transaction involving the currency
24	Cr Auto Ex Rate Lmt	Number	22	Credit Auto Exchange Rate Limit
25	Dr Auto Ex Rate Lmt	Number	22	Debit Auto Exchange Rate Limit
26	Currency Type	String	3	Denotes Currency Type
27	Gen 103p*	String	1	Generate outgoing MT 103 messages in the MT 103 + format
28	Cls Currency*	String	1	CLS Currency

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Table 6-6 (Cont.) Currency Definition File Upload – Master Records

Sequence	Field name	Type	Size	Description
29	Fx Netting Days*	Number	3	Foreign Exchange Netting Days
30	Iso Num Currency Code	String	3	International Standardization Organization numerical currency code
31	Gen Cust Cov*	String	1	New Cover Message Format Required
32	Validate 50f*	String	1	Validate Tag-50F
33	Maintenance Country*	String	3	Maintenance Country
34	Commodity Code*	String	1	Denotes Commodity Code

Table 6-7 Currency Definition File Upload – Child Records

Sequence	Field name	Type	Size	Description
1	Discriminator*	String	1	Denotes child record type. Default value is always “C”
2	Maintenance Country*	String	3	Maintenance Country
3	Country Code*	String	3	Denotes Country Code
4	Country Desc*	String	105	Name of the Country
5	Currency Code*	String	3	Denotes Currency Code

6.5 BIC Directory File Upload

This topics describes the information to perform the bulk upload for the BIC Directory maintenance in common core.

File Type Supported - CSV

File Naming Convention - CmcBICDirectory_<UniqueName>.csv

> **Note**
>
> Replace the <UniqueName> for each file upload.

> **Note**
>
> The fields marked as **Required** are mandatory.

Table 6-8 BIC Directory File Upload – Master Records

Sequence	Field Name	Type	Size	Description
1	Action*	String	10	Denotes file operation type. Allowed values are new/modify

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Table 6-8 (Cont.) BIC Directory File Upload – Master Records

Sequence	Field Name	Type	Size	Description
2	BIC Code*	String	11	Indicates the unique BIC Code by which the bank is identified by SWIFT.
3	Bank Name*	String	35	Name of the bank
4	Customer No	String	20	Customer Number
5	Sk Arrangement*	String	1	Denotes the SWIFT key arrangement
6	Bank Address1*	String	35	Indicates the bank address details of the customer - Address Line 1
7	Bank Address2*	String	35	Indicates the bank address details of the customer - Address Line 2
8	Bank Address3*	String	90	Indicates the bank address details of the customer - Address Line 3
9	Relationship*	String	1	Relationship
10	Swift Key*	String	50	Denotes the swift key details
11	Telex Key*	String	50	Indicates the unique telex key for the BIC directory
12	Upload Flag*	String	1	Upload Flag for the BIC directory
13	Upload Update*	String	1	Updated the BIC directory during an upload
14	Gen Mt103*	String	1	Indicates the counter party whose BIC code details you are capturing capacitate to receive payment messages in the MT 103 format
15	Blacklisted*	String	1	Indicates the BIC entity is blacklisted
16	CUG Member*	String	1	Indicates the BIC entity is a closed user group member
17	Gen Mt103p*	String	1	Indicates the counter party whose BIC code details you are capturing capacitate to receive payment messages in the MT 103 format
18	Multi Cust Transfer*	String	1	Denotes the Multi-Customer Credit Transfer details
19	Max Size*	Number	38	Indicates the maximum size
20	Remit Member*	String	1	Indicates the customer is registered with MT 103 extended remittance information multiple user group
21	Sub Type Code	String	4	Denotes the Sub-Type Code
22	Gen Mt102p*	String	1	Generates 102+ message
23	Gen Mt101*	String	1	Indicates MT101 can be sent/ received from this BIC
24	Transaction Per Msg*	Number	40	Number of Transactions Per Page
25	ADB Member*	String	1	Denotes the ADB member
26	BE Indicator*	String	1	Denotes the BEI Indicator

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6.6 Local Holiday File Upload

This topics describes the information to perform Local Holiday maintenance in common core.

File Type Supported - CSV

File Naming Convention - CmcBranchLocalHoliday_<UniqueName>.csv

> **Note**
>
> Replace the <UniqueName> for each file upload.

> **Note**
>
> The fields marked as **Required** are mandatory.

Table 6-9 Local Holiday File Upload - Master Records

Sequence	Field Name	Type	Size	Description
1	Discriminator*	String	1	Denotes master record type. Default value is always “P”
2	Action*	String	10	Denotes file operation type. Allowed values are new/modify
3	Branch Code*	String	3	Branch Code
4	Year*	Number	4	Indicates the year details
5	Weekly Holidays*	String	7	Defines weekly holidays
6	Unexp Hol*	String	1	Define unexpected holidays

Table 6-10 Local Holiday File Upload - Child Records

Sequence	Field Name	Type	Size	Description
1	Discriminator*	String	1	Denotes child record type. Default value is always “C”
2	Branch Code*	String	3	Branch Code
3	Year*	Number	4	Indicates the year details
4	Month*	Number	2	Indicates the month details
5	Holiday List*	String	31	Denotes the Holiday List

6.7 Currency Holiday File Upload

This topics describes the information to perform Currency Holiday maintenance in common core.

File Type Supported - CSV

File Naming Convention - CmcCurrencyHoliday_<UniqueName>.csv

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> **Note**
>
> Replace the <UniqueName> for each file upload.

> **Note**
>
> The fields marked as **Required** are mandatory.

Table 6-11 Currency Holiday File Upload - Master Records

Sequence	Field Name	Type	Size	Description
1	Discriminator*	String	1	Denotes master record type. Default value is always “P”
2	Action*	String	10	Denotes file operation type. Allowed values are new/modify
3	Currency*	String	3	Currency
4	Year*	Number	4	Indicates the year details
5	Weekly Holidays*	String	7	Defines weekly holidays

Table 6-12 Currency Holiday File Upload - Child Records

Sequence	Field Name	Type	Size	Description
1	Discriminator*	String	1	Denotes child record type. Default value is always “C”
2	Currency*	String	3	Currency
3	Year*	Number	4	Indicates the year details
4	Month*	Number	2	Indicates the month details
5	Holiday List*	String	31	Denotes the Holiday List

6.8 External Customer File Upload

This topics describes the information to perform External Customer maintenance in common core.

File Type Supported - CSV

File Naming Convention - CmcCustomerMaint_<UniqueName>.csv

> **Note**
>
> Replace the <UniqueName> for each file upload.

> **Note**
>
> The fields marked as **Required** are mandatory.

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Table 6-13 External Customer File Upload - Master Records

Sequence	Field Name	Type	Size	Description
1	Action*	String	10	Denotes file operation type. Allowed values are new/modify
2	Country*	String	3	Country of the customer
3	Language*	String	3	Denotes the Language of the customer
4	Nationality*	String	3	Denotes the Nationality of the customer
5	Locale	String	10	Indicates the Locale of the customer
6	Deceased*	String	1	Indicates the customer is deceased
7	Frozen*	String	1	Denotes the customer account is frozen
8	Whereabouts Unknown*	String	1	Indicates the customerâ€™s whereabouts are unknown
9	RmId	String	12	Relationship Manager ID
10	Sanctions Checks Required*	String	1	Indicates the sanction check is required
11	Staff*	String	1	Indicates a staff customer
12	Walkin Customer*	String	1	Indicates a walk-in customer
13	Source System*	String	35	Source System
14	Source System Cust No*	String	35	Denotes the Source System Customer Number
15	Customer No*	String	20	Number for the customer
16	Host Code	String	8	Denotes the Host Code
17	Customer Type*	String	1	Type of Customer
18	Customer Category	String	10	Denotes the Customer Category
19	Customer Name1*	String	105	Name of the customer
20	Short Name*	String	20	Short name of the customer
21	Address Line1*	String	105	Indicates the customer address details - Address Line 1
22	Address Line2*	String	105	Indicates the customer address details - Address Line 2
23	Address Line3*	String	105	Indicates the customer address details - Address Line 3
24	Address Line4*	String	105	Indicates the customer address details - Address Line 4
25	Pincode*	String	15	Denotes the postal code details of the customer

6.9 External Customer Account File Upload

This topics describes the information to perform External Customer Account maintenance in common core.

File Type Supported - CSV

File Naming Convention - CmcAccountMaint_<UniqueName>.csv

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> **Note**
>
> Replace the <UniqueName> for each file upload.

> **Note**
>
> The fields marked as **Required** are mandatory.

Table 6-14 External Customer Account File Upload - Master Records

Sequence	Field Name	Type	Size	Description
1	Action*	String	10	Denotes file operation type. Allowed values are new/modify
2	Country Code*	String	10	Country Code
3	Address4*	String	105	Denotes the address details - Address Line 4
4	Address3*	String	105	Denotes the address details - Address Line 3
5	Address2*	String	105	Denotes the address details - Address Line 2
6	Address1*	String	105	Denotes the address details - Address Line 1
7	Eca Check Req*	String	1	Indicates External Credit Approval Required check is required for the external customer account
8	Account Class*	String	6	Denotes the Account Class
9	Ac Stat Dormant*	String	1	Indicates the account status is dormant
10	Ac Stat Frozen*	String	1	Indicates the account status is frozen
11	Gl Stat Blocked*	String	1	Indicates the account status is blocked
12	Ac Stat No Dr*	String	1	Indicates the account does not have any debit facility
13	Ac Stat No Cr*	String	1	Indicates the account does not have any credit facility
14	Ac Open Date*	String	35	Denotes the Account Open Date (Date format should be yyyy-MM-dd, i.e. 2018-03-30)
15	Cust Ac Name*	String	105	Account Name of the customer
16	Cust Ac Ccy*	String	3	Account Currency of the customer
17	Customer No*	String	20	Indicates the Customer Number
18	Source System Acc Brn*	String	20	Denotes the Source Account Branch
19	Source System Acc No*	String	35	Denotes the Source Customer Account Number
20	Source System*	String	35	Source System
21	Cust Ac IBAN	String	35	Indicates the account IBAN details
22	Host Code*	String	8	Denotes the host code details

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Table 6-14 (Cont.) External Customer Account File Upload - Master Records

Sequence	Field Name	Type	Size	Description
23	Cust Account No*	String	20	Indicates the Customer Account Number

6.10 Exchange Rate File Upload

This topics describes the information to perform Exchange Rate maintenance in common core.

File Type Supported - CSV

File Naming Convention - CmcCurrencyExchangeRate_<UniqueName>.csv

> **Note**
>
> Replace the <UniqueName> for each file upload.

> **Note**
>
> The fields marked as **Required** are mandatory.

Table 6-15 Exchange Rate File Upload - Master Records

Sequence	Field Name	Type	Size	Description
1	Discriminator*	String	1	Denotes master record type. Default value is always â€œPâ€
2	Action*	String	10	Denotes file operation type. Allowed values are new/modify
3	Branch Code*	String	3	Branch for which exchange rate is applicable
4	Currency1*	String	3	From currency pair
5	Currency2*	String	3	To currency pair

Table 6-16 Exchange Rate File Upload - Child Records

Sequence	Field Name	Type	Size	Description
1	Discriminator*	String	1	Denotes child record type. Default value is always â€œCâ€
2	Branch Code*	String	3	Branch for which exchange rate is applicable
3	Currency1*	String	3	From currency pair
4	Currency2*	String	3	To currency pair
5	Rate Type*	Number	8	Denotes rate type defined in the system

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Table 6-16 (Cont.) Exchange Rate File Upload - Child Records

Sequence	Field Name	Type	Size	Description
6	Mid Rate*	Number	25	Mid rate applicable for the current pair
7	Buy Spread*	Number	40	Buy spread applicable for the currency
8	Sale Spread*	Number	40	Sell spread applicable for the currency
9	Buy Rate*	Number	25	Buy rate applicable for the currency
10	Sale Rate*	Number	25	Sell rate applicable for the currency
11	Rate Date*	String	35	Effective date applicable for the rate

6.11 Interest Rate File Upload

This topics describes the information to perform the bulk upload for the interest rate maintenance in common core.

File Type Supported - CSV

File Naming Convention - CmcIntRate<UniqueName>.csv

> **Note**
>
> Replace the <UniqueName> for each file upload.

> **Note**
>
> The fields marked as **Required** are mandatory.

Table 6-17 Interest Rate File Upload – Master Records

Sequence	Field name	Type	Size	Description
1	Rate Code*	String	10	Denotes the rate code
2	Description*	String	120	Denotes Rate description
3	Branch Code*	String	3	Displays the branch code
4	Quote Basis for Loans*	Number	1	Select the quote basis for loans from the drop down list

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Table 6-17 (Cont.) Interest Rate File Upload – Master Records

Sequence	Field name	Type	Size	Description
5	Propagate Rate to Branches*	String	1	If this is checked then the rate code is propagated to all the other branches from head office branch
6	Type*	String	1	Denotes the Rate Code is of Fixed or Floating in the usage perspective
7	Maker ID*	String	12	Sender or maker of the external customer configuration create service.
8	Maker Date Stamp*	DATE	-	Timestamp of the creation.
9	Checker ID*	String	12	Approver/ authorizer of the external customer configuration.
10	Checker Date Stamp*	DATE	-	Timestamp of the approval.
11	Record Status*	CHAR	1	External customer configuration status - active/open or inactive/closed
12	Authorisation Status*	CHAR	1	Authorization status - authorized or unauthorized
13	Once Authorised*	CHAR	1	Determines if the record has been authorized at least once.
14	Modification Number*	Number	4	Modification Number.

Table 6-18 Interest Rate File Upload – Child Records 1

Sequence	Field name	Type	Size	Description
1	Rate Code*	String	10	Denotes the rate code
2	Branch Code*	String	3	Denotes the branch code
3	Currency Code*	String	3	Denotes the Currency Code
4	Amount Slab*	Number	22,3	Denotes the Amount Slab
5	Effective Date*	DATE	-	Denotes the Effective Date

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Table 6-18 (Cont.) Interest Rate File Upload – Child Records 1

Sequence	Field name	Type	Size	Description
6	Borrow Lend Indicator*	CHAR	1	Denotes Borrow Lend Indicator

Table 6-19 Interest Rate File Upload – Child Records 2

Sequence	Field name	Type	Size	Description
1	Rate Code*	String	10	Denotes the rate code
2	Branch Code*	String	3	Displays the branch code
3	Currency Code*	String	3	Denotes the Currency Code
4	Amount Slab*	Number	22,3	Denotes the Amount Slab
5	Effective Date*	DATE	-	Denotes the Effective Date
6	Borrow Lend Indicator*	CHAR	1	Denotes Borrow Lend Indicator
7	Tenor To*	Number	5	Denotes Tenor To
8	Units*	String	1	Denotes Tenor Units
9	Interest Rate*	Number	13,8	Denotes the Interest Rate

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7
Rules Framework

This topic describes about the rules framework.

This Rules framework is used for creation and evaluation of business rules, creation of facts, which are the building blocks in business rules.

This topic contains the following subtopics:

- Fact
  This topic describes about the Fact.
- Rule
  This topic describes about the Rule.

7.1 Fact

This topic describes about the Fact.

Fact is the information-carrying block, used for creating the rules.

Fact can be of the following type:

- NUMBER
- TEXT
- BOOLEAN
- DATE
- ARRAY
- ENUM

This topic contains the following subtopics:

- Create Fact
  This topic describes the systematic instructions to configure fact.
- View Fact
  This topic describes the systematic instructions to view the list of fact.

7.1.1 Create Fact

This topic describes the systematic instructions to configure fact.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**,click **Fact**.
2. Under **Fact**, click **Create Fact**.
3. Click **New** to create a single fact.

   The **Create Fact** screen is displayed.

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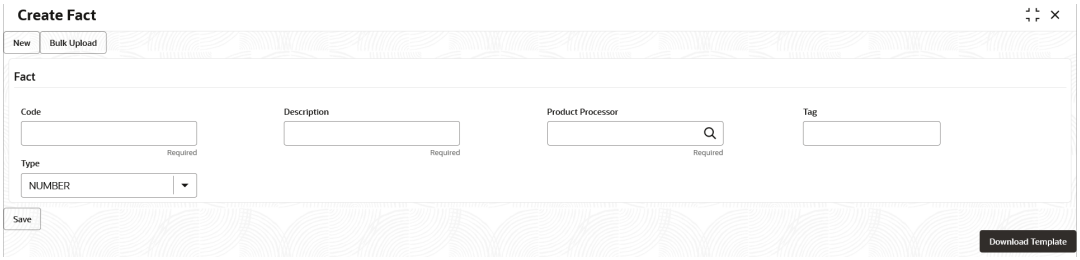
Figure 7-1 Create Fact



4. Specify the fields on the **Create Fact** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 7-1 Create Fact – Field Description

Field	Description
Code	Specify the alphanumeric code without space for the fact.
Description	Specify the description of the fact.
Product Processor	Click **Search** and select the product processor from the list.
Tag	Specify the tag for fact.
Type	Select the type of the fact from the drop-down list. The available options are: • **Number** • **Text** • **Boolean** • **Date** • **Array** • **ENUM**

5. Click **Save** to save the details of fact.

Bulk Upload

6. Click **Bulk Upload** to create a multiple fact.

   The **Bulk Upload** screen is displayed.

Figure 7-2 Bulk Upload

7. Click **Download Template** to download the sample file.

   Specify all the Facts details to be created in the sample file and save the file.

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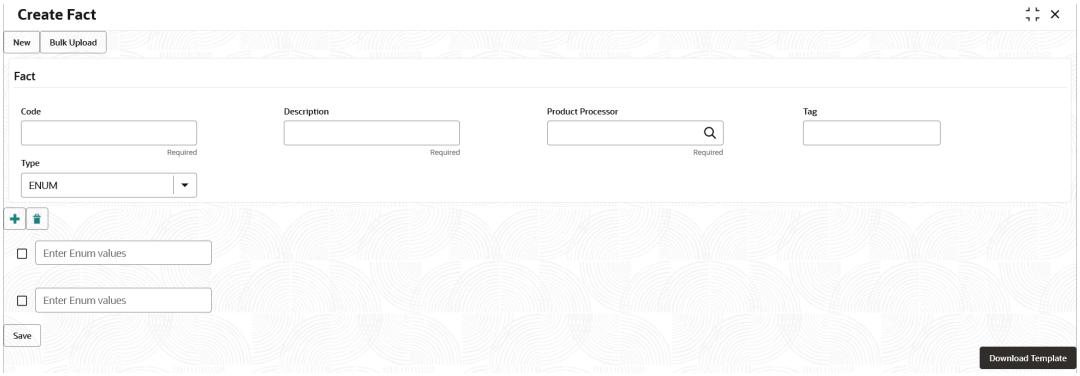
8. Click **Drag and Drop** and select the file from the browser.
9. Click **Upload**.

Create ENUM Type Fact

10. Select the type as **ENUM FACT** from the drop-down list.

    The **Create Fact** screen is displayed.



11. Specify the fields on the **Create Fact** screen.
12. Click to add the list of ENUM fact values.
13. Click to delete the list of ENUM fact values.
14. Click **Save** to save the details the facts.

    The Fact is successfully created and can be viewed using **View Fact** screen.

7.1.2 View Fact

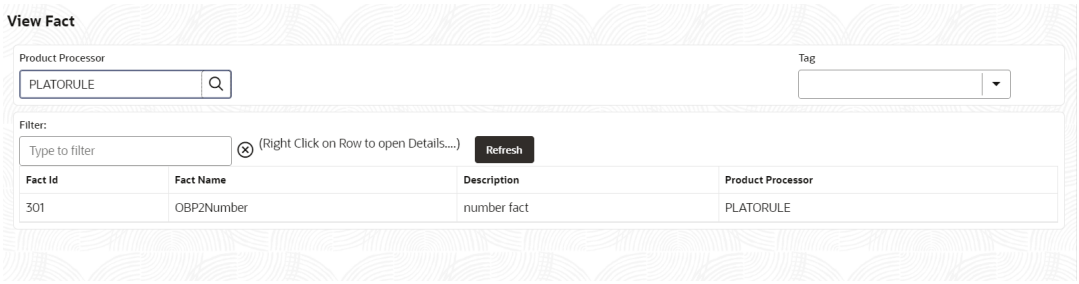
This topic describes the systematic instructions to view the list of fact.

The user can configure fact using **Create Fact** screen.

1. From **Home** screen, click **Fact**.
2. Under **Fact**, click **View Fact**.

   The **View Fact** screen is displayed.

Figure 7-3 View Fact



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For more information on fields, refer to the field description table.

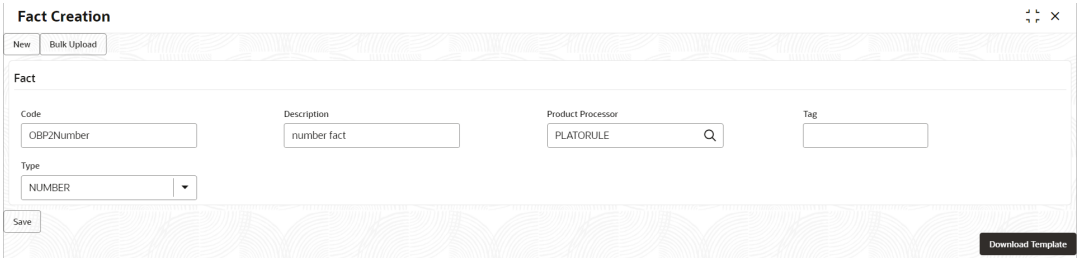
Table 7-2 View Fact – Field Description

Field	Description
Product Processor	Displays the product processor.
Fact ID	Displays the Fact ID.
Fact Name	Displays the name of the fact.
Description	Displays the description of the fact.

3. Specify the Fact details in **Filter** textbox to filter the data.
4. Click **Refresh** to refresh the screen.
5. Right-click on the fact from the list and click **View Details**.

   The **Fact Creation** screen is displayed.

Figure 7-4 fact Creation



6. Specify the fields on the **Fact Creation** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 7-3 Fact Creation – Field Description

Field	Description
Code	Specify the alphanumeric code without space for the fact.
Description	Specify the description of the fact.
Product Processor	Select the product processor.
Tag	Specify the tag values.

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Table 7-3 (Cont.) Fact Creation – Field Description

Field	Description
Type	Select the type of the fact from the dropdown list. The available options are: • **Number** • **Text** • **Boolean** • **Date** • **Array** • **ENUM**

7.2 Rule

This topic describes about the Rule.

Rule enables the user to build the expression to perform the calculation with the facts created.

The type of rules supported are:

- **Logical**: Example (ACCOUNT_BAL > 124432) && (VALID_TILL < VALID_DATE)
- **Arithmetic**: - Example: (CREDIT_BALANCE + TAX_CREDIT – INTEREST_AMOUNT)
- **Relational**: - Example: (FACT5 == ACCOUNT && TAX >= 10)
- **Nested**: - Example: (RULE_ACCOUNT = TRUE) && (ACCOUNT_BAL > 21234)
- **Multiple-If else**: - Example: IF (ACCOUNT_BAL > 124432) then OUTPUT1 ELSE IF (ACCOUNT_BAL < 124432) then OUTPUT2
- **Multiple Nesting**: - Example- INNERCHILDRULE : (ACC_BAL > 30000) then OUTPUT = true
  - **CHILDRULE** : ((INNERCHILDRULE == true) && (CBLSCORE > 5)) then OUTPUT = true
  - **PARENTRULE**: ((ACCTYPE == HOMELOAN) && (CHILDRULE == true))

Steps to build a Nested Rule expression is explained with the below example

The Rule Expression for Loan to Value (LTV) is Loan to Value (LTV) = (LOANAMOUNT / COLLATERAL_VALUE) *100

For now, the above expression is not supported directly, and LTV calculation is achieved by the below steps.

1. Create a Rule1 - LOAN_TO_COLLATERAL

   Expression - LOANAMOUNT/COLLATERAL_VALUE

2. Create a rule2 - Loan to Value (LTV)

   Expression - LOAN_TO_COLLATERAL *100

This topic contains the following subtopics:

- Create Rule
  This topic describes the systematic instructions to configure rule.
- View Rule
  This topic describes the systematic instructions to view the list of rule.

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- Evaluate Rule
  This topic describes about the Evaluate Rule.
- Rule Group
  This topic describes about the Rule Group.
- View Audit Rule
  This topic describes the View Audit Rule.

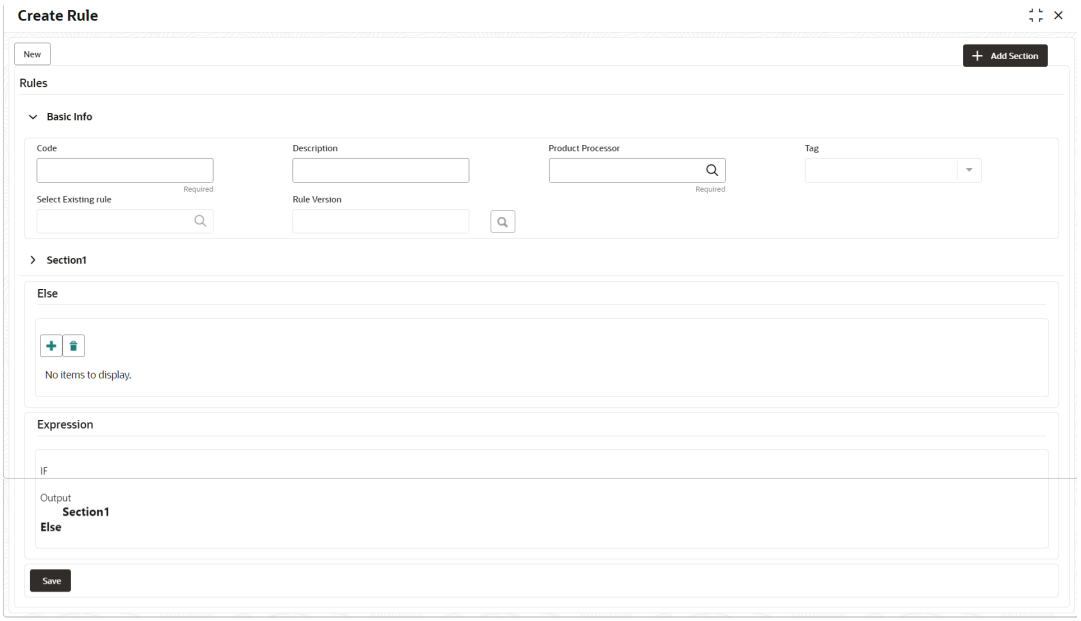
7.2.1 Create Rule

This topic describes the systematic instructions to configure rule.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Rule**.
2. Under **Rule**, click **Create Rule**.

   The **Create Rule** screen is displayed.

Figure 7-5 Create Rule



3. Specify the fields on the **Create Rule** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 7-4 Create Rule – Field Description

Field	Description
Code	Specify the alphanumeric code without space for the rule.
Description	Specify the description of the rule.

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Table 7-4 (Cont.) Create Rule – Field Description

Field	Description
Product Processor	Click **Search** and select the product processor.
Tag	Select the tag from the drop-down list.
Select Existing Rule	Click **Search** and select the existing rule.
Add Section	Click **Add Section** to create the multiple rule condition.
Expression Builder	Select the expressions to build the rule.
Add Expression	Click **Add Expression** to create the expression for the rule.
+ Icon	Click **+** icon to add new expression.
Fact / Rules	Select the fact or rule from the drop-down list.
Operator	Select the comparison operator from the drop-down list.
Data Type	Select the data type for the fact or rule. Once the user select the data type, one more field opens adjacent to the output, update the same based on the selected output option. The available options are: • **Text** • **Number** • **Boolean** • **Date** • **Fact** The below option appears if the Data Type is selected as Boolean. • **True** • **False**
Output	Select the output from the drop-down list. Once the user select the data type, one more field opens adjacent to the output, update the same based on the selected output option. The available options are: • **Text** • **Number** • **Boolean** • **Date** • **Fact**
Expression	Displays the expression and output updated in the expression builder.

4. Click **Save** to save the details of rule.

Create Rule with multiple Output
Steps to build a Rule with multiple output is explained with the below example.

The Rule Expression for Multiple output rule is: IF (TotalIncome > 20000) && (TotalExpense < 8000)

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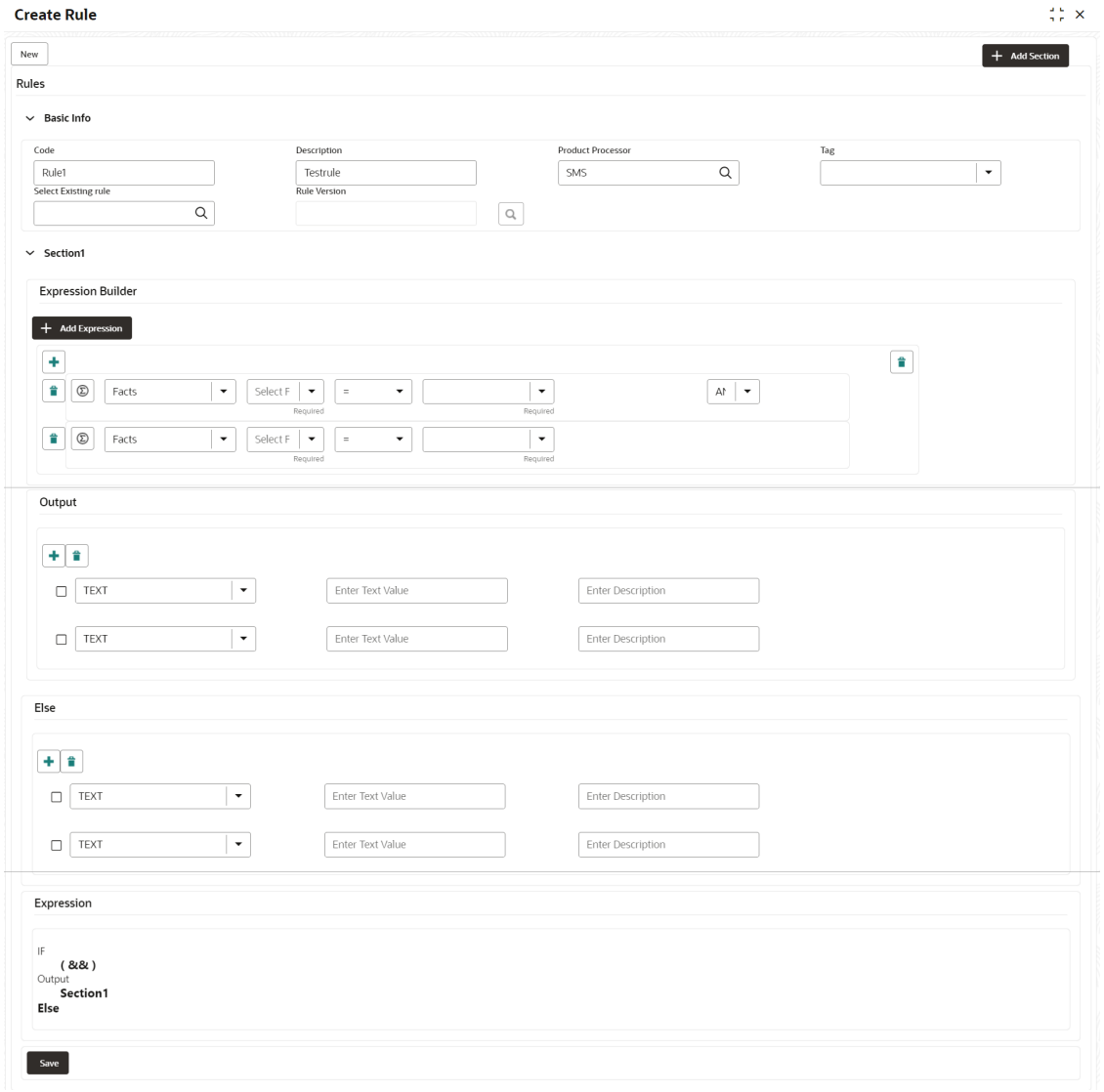
Figure 7-6 Create Rule with Multiple Output



5. Click **Save** to save the details the Rule.

   The Rule is successfully created and can be viewed using **View Rule** screen.

7.2.2 View Rule

This topic describes the systematic instructions to view the list of rule.

The user can configure fact using **Create Rule** screen.

1. From **Home** screen, click **Rule**.
2. Under **Rule**, click **View Rule**.

   The **View Rule** screen is displayed.

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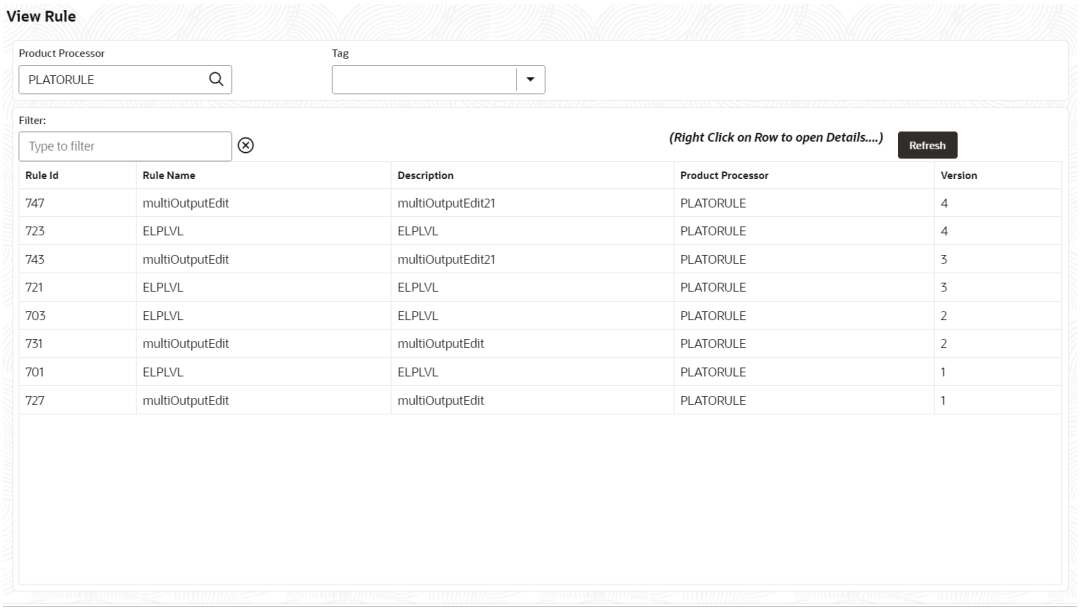
Figure 7-7 View Rule



For more information on fields, refer to the field description table.

Table 7-5 View Rule – Field Description

Field	Description
Product Processor	Displays the product processor.
Rule ID	Displays the Rule ID.
Rule Name	Displays the name of the rule.
Description	Displays the description of the rule.

3. Specify the rule details in **Filter** textbox to filter the data.
4. Click **Refresh** to refresh the screen.
5. Right-click on the rule from the list and Click **View Details**.
6. Click **Edit** to edit the rule.

   The **Rule Creation** screen displays.

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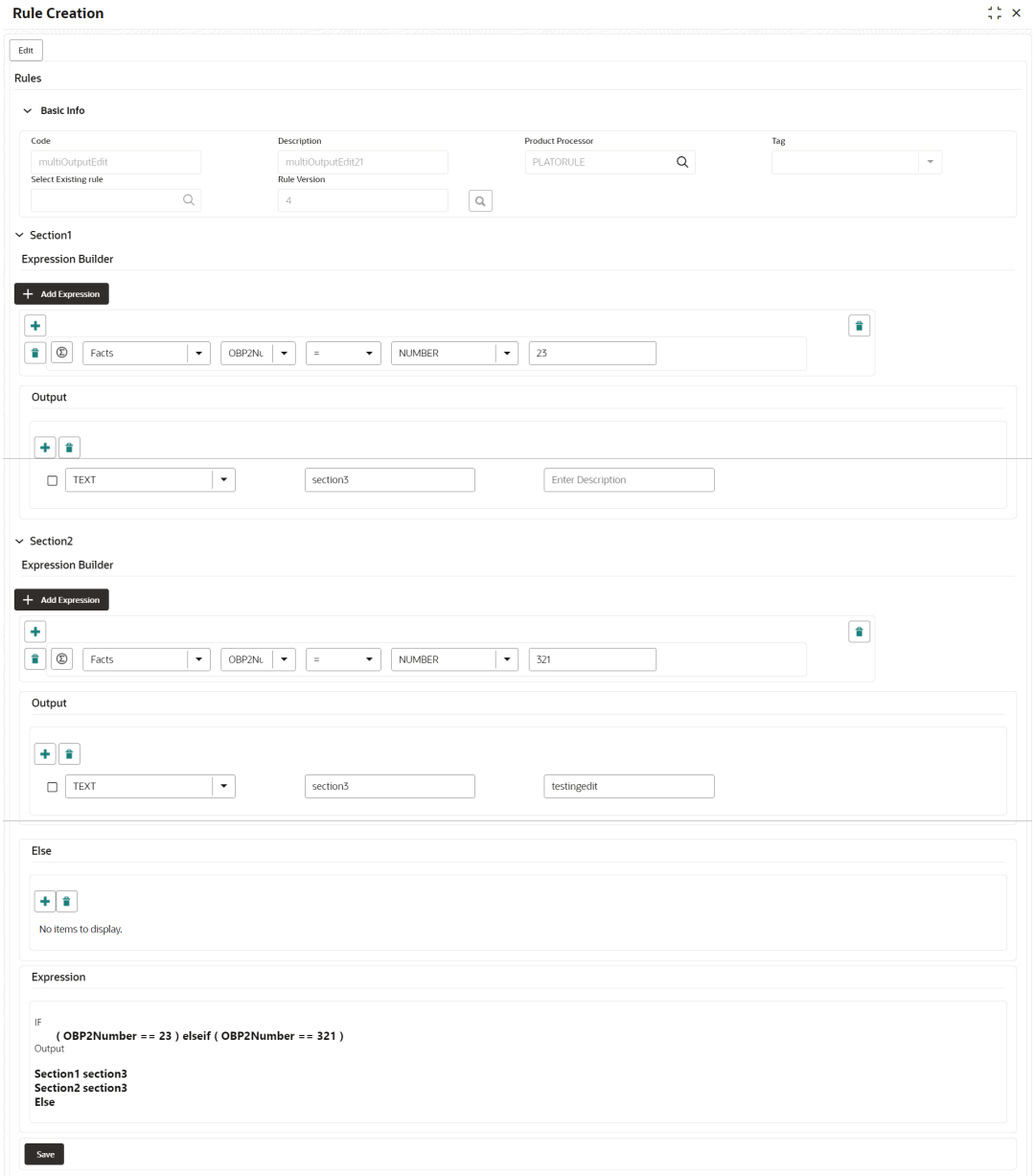
Figure 7-8 Rule Creation



7. Specify the fields on **Create Rule** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 7-6 Create Rule – Field Description

Field	Description
Code	Specify the alphanumeric code without space for the rule.

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Table 7-6 (Cont.) Create Rule – Field Description

Field	Description
Description	Specify the description of the rule.
Product Processor	Click **Search** and select the product processor.
Tag	Select the tag from the drop-down list.
Select Existing Rule	Click **Search** and select the existing rule.
Add Section	Click **Add Section** to create the multiple rule condition.
Expression Builder	Select the expressions to build the rule.
Add Expression	Click **Add Expression** to create the expression for the rule.
+ Icon	Click **+** icon to add new expression.
Fact / Rules	Select the fact or rule from the drop-down list.
Operator	Select the comparison operator from the drop-down list.
Data Type	Select the data type for the fact or rule. Once the user select the data type, one more field opens adjacent to the output, update the same based on the selected output option. The available options are: • **Text** • **Number** • **Boolean** • **Date** • **Fact** The below option appears if the Data Type is selected as Boolean. • **True** • **False**
Output	Select the output from the drop-down list. Once the user select the data type, one more field opens adjacent to the output, update the same based on the selected output option. The available options are: • **Text** • **Number** • **Boolean** • **Date** • **Fact**
Expression	Displays the expression and output updated in the expression builder.

8. Click **Save** to save the details of rule.

7.2.3 Evaluate Rule

This topic describes about the Evaluate Rule.

Once the rule has been created the evaluate API has to be invoked to evaluate the rule.

To evaluate a rule, **rule name & namespace** are the **mandatory** parameters passed to the API and **version** of the rule is an **optional** parameter. If the version of the rule is not passed to the API then by **default** the **latest version of the rule** is evaluated.

The evaluate API url to be invoked is:

/rule-service/rules/evaluate/{namespace}/{ruleName}

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Method: POST

Headers Required

appId: PLATORULE

userId: ASHISH

Content-Type: application/json

Request Body

```
{
    "LOAN_AMOUNT": "15001",
    "LOAN_TYPE":"Auto_loan",
}
```

Response

```
{
    "ruleEvaluated": true,
    "result": "true",
    "ruleId": 8161,
    "ruleName": "DIVYARULE1",
    "outputDescription": "null",
    "responseType": null,
    "error": null,
    "req_id": "reqId_1652082090755"
}
```

7.2.4 Rule Group

This topic describes about the Rule Group.

Grouping individual rules by name and priority into a RuleGroup.

For the evaluating a RuleGroup, user will pass all the required Fact data to evaluate API & if the evaluate Group flag is set to false, the API will evaluate rule one by one based on priority and return for the rule which evaluates to true. If the evaluate Group flag is set to true then the API will evaluate rule one by one based on priority for all rules in the RuleGroup and return the response of all the rules.

Please find below an example for a Rule Group:

RULEGROUP1:

RULE1: (ACC_BAL > 400)

RULE2: (ACC_BAL < 10000)

RULE3: MIN (FICOSCORE

- Create Rule Group
  This topic describes the systematic instructions to configure rule group.
- View Rule Group
  This topic describes the systematic instructions to view the list of rule group.

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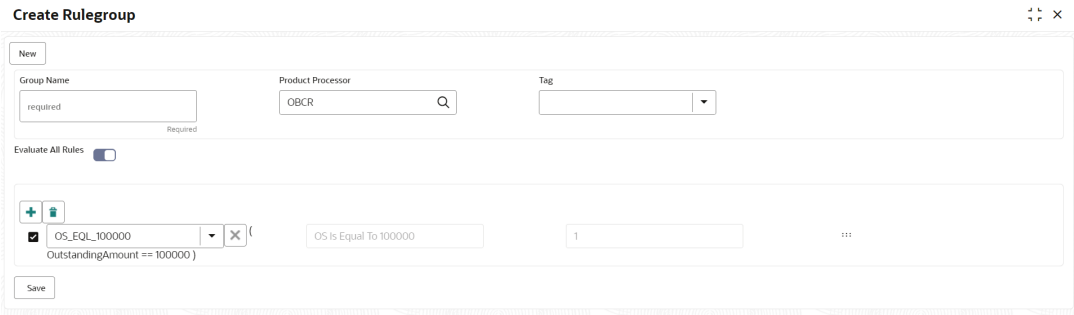
7.2.4.1 Create Rule Group

This topic describes the systematic instructions to configure rule group.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Rule**.
2. Under **Rule**, click **Create Rule Group**.

   The **Create Rule Group** screen is displayed.

Figure 7-9 Create Rule Group



3. Specify the fields on the **Create Rule Group** screen.

> **Note**
>
> The fields marked as **Required** are mandatory.

For more information on fields, refer to the field description table.

Table 7-7 Create Rule Group– Field Description

Field	Description
Group Name	Specify the unique group name for the selected rules.
Product Processor	Click **Search** and select the product processor.
Tag	Specify the tag for rule group.
Evaluate Group	Select the toggle to evaluate the expression in sequence. **Note**: If the toggle is disabled, the evaluation of the expression stops when the condition of expression is evaluated to **True**.
+ Icon	Click **+** icon to add new expression.

4. Click **Save** to save the details the Rule.

   The Rule is successfully created and can be viewed using **View Rule Group** screen.

7.2.4.2 View Rule Group

This topic describes the systematic instructions to view the list of rule group.

The user can configure fact using **Create Rule Group** screen.

1. From **Home** screen, click **Rule**.

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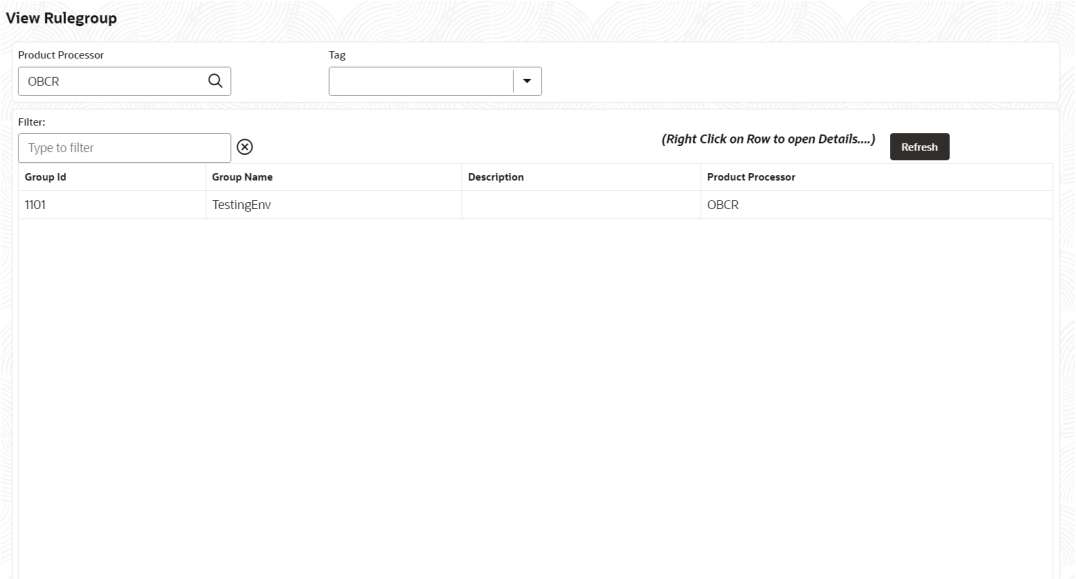
2. Under **Rule**, click **View Rule Group**.

   The **View Rule Group** screen is displayed.

Figure 7-10 View Rule Group



For more information on fields, refer to the field description table.

Table 7-8 View Rule Group – Field Description

Field	Description
Product Processor	Click **Search** and select the product processor.
Tag	Specify the tag for rule group.
Group ID	Displays the Group ID.
Group Name	Displays the name of the group.
Description	Displays the description of the group.
Product Processor	Displays the product processor.

7.2.5 View Audit Rule

This topic describes the View Audit Rule.

1. From **Home** screen, click **Rule**. Under **Rule**, click **View Audit Rule**.

   The **View Audit Rule** screen is displayed.

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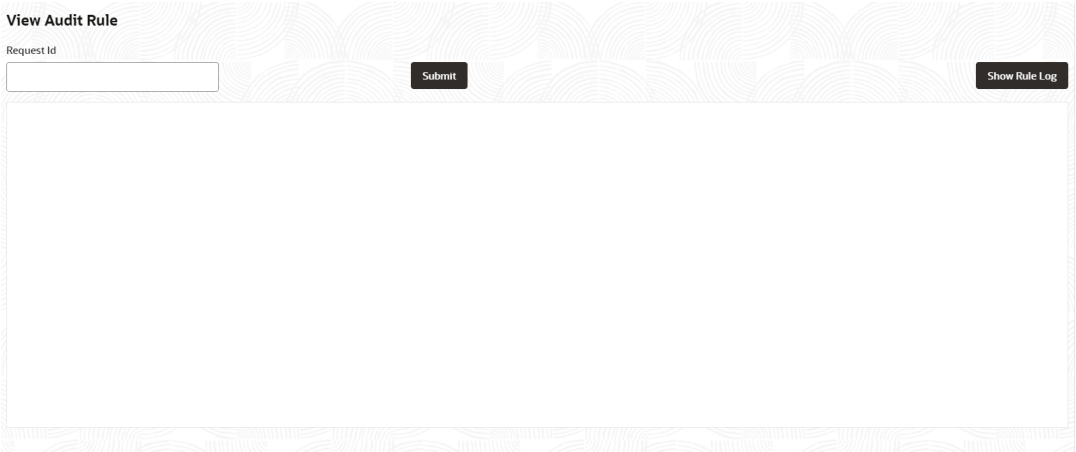
Figure 7-11 View Audit Rule



2. Specify the fields on the **View Audit Rule** screen.

   For more information on fields, refer to the field description table.

Table 7-9 View Audit Rule – Field Description

Field	Description
Request ID	Specify the request ID available from the output of evaluate API.

3. Click **Submit** to view to details.
4. Click **Show Rule log**, to view the log rule for selected request ID.

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8
Document Verification Framework

This topic helps the user quickly get acquainted with the Document verification framework.

In this digital age, there is still a strong reliance on physical document verification, especially in large organizations such as government, enterprise companies, banks, and universities/ colleges.

Manual Verification of documents for Identification is laborious. Not only do we have to organize and categorize the files, extracting meaningful information manually takes a lot of time and effort.

These business organizations employ data entry teams whose sole purpose is to take these physical documents, manually re-type the information, and then save it into the system which is cumbersome. This can annoy customers as well as employees ultimately resulting in decreased productivity.

So, there is a strong need to digitize the information on the documents and extract the required data. This document verification framework has a set of APIs that allows you to extract required fields from the Identification documents automatically, thus saving a lot of time and effort.

Prerequisites

Document Verification framework is designed to extract the detailed information from the uploaded documents like Passport, National ID card, driving license, etc.

This topic contains the following subtopics:

- Text Extraction
  This topic provides the information about the Text Extraction.
- Image Processing
  This topic provides the information about the Image Processing.
- Document Verification API Details
  This topic provides the information about the Document Verification API Details.
- Validate Information API details
  This topic provides the information about the Validate Information API details.
- Recommendations For Better Performance
  This topic provides the information about the better quality of the source image, the higher the accuracy of extraction will be.

8.1 Text Extraction

This topic provides the information about the Text Extraction.

Optical character recognition or optical character reader (OCR) is the process of digitizing documents and extracting text from them. Widely used as a form of data entry from scanned documents – Here the text is first scanned, analyzed, and is finally translated into character codes. This machine-encoded text can be easily searched and edited electronically.

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OCR has greatly improved the process of data entry. The need for the documents to be scanned is on a constant rise as it enables these documents to be viewed conveniently when required. The most popular application of OCR is Data entry for business documents, e.g. ID card, driving license, passport, cheque, invoice and salary slip.

Benefits of OCR:

1. **100% Text-searchable Documents** - One of the huge advantages of OCR data processing is that it makes the digitized documents completely text searchable. This helps professionals to quickly lookup numbers, addresses, names, and various other parameters that differentiate the document being searched.
2. **Reduced Cost** - Besides helping an organization in cutting down the cost of hiring manpower for data extraction, it also helps in reducing several other costs like printing, copying, shipping charge, etc.
3. **Reduced Errors** - It resolves the problem of data loss and inaccuracy and helps in reducing errors.
4. **More Storage Space** -The lesser the documents, the larger space. Organizations have always wanted to take the 'Paperless' approach and OCR just makes it possible. Also, the expenses of file cabinets are saved with this approach.
5. **Ready Availability** - By scanning the information of documents through OCR, the data can be made available in several different places. One can carry it in a USB drive and retrieve the wanted information with just a few clicks.
6. **Superior Data Security** - Data security is of utmost importance for any organization. Paper documents are easily prone to loss or destruction. However, this is not the case with data that is scanned, analyzed, and stored in digital formats. Furthermore, access to these digital documents can also be minimized to prevent mishandling of the digitized data.
7. **Massively Improves Customer Service** - Several inbound contact centers often provide information that their customers seek. While some call centers provide customers with the information they need, others will have to quickly access certain personal or order-related information of the customers to process their requests. Quick data accessibility becomes extremely important in such cases. This helps in systematically storing and retrieving the documents digitally at blazing speeds. With this, the waiting time is drastically reduced for the customers, thereby improving their experience.

8.2 Image Processing

This topic provides the information about the Image Processing.

Text Recognition depends on a variety of factors to produce good quality output. The text output highly depends on the quality of the input image. These guidelines help document extraction engine to produce accurate results.

Image Preprocessing comes into play to improve the quality of input image so that the engine gives an accurate output. The main objective of the Preprocessing phase is to make it easy for the system to distinguish a character from the background.

The preprocessing can be controlled using the configuration files and are explained at the bottom. The configuration varies between documents and country.

The following image processing operations are used to improve the quality of input image:

- **Image Scaling** – OCR gives accurate output for images with 300 DPI which describes the resolution. Keeping DPI lower than 200 will give unclear and incomprehensible results while keeping the DPI above 600 will unnecessarily increase the size of the output file without improving the quality of the file. Thus, a DPI of 300 works best for this purpose.

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- **Image Skew Correction** – A Skewed image is defined as a document image that is not straight. Skewed images directly impact the line segmentation of the OCR engine which reduces its accuracy. These kinds of images are to be processed to correct text skew.
- **Background Cropping** – Background is cropped from scanned images if it contains any. This is really important as we want to remove unwanted areas from the image that does not contain text at all.
- **Noise Removal** – Noise is removed from images as it decreases the readability of text. The main objective of the Noise removal stage is to smoothen the image by removing small dots/patches which have high intensity than the rest of the image. Noise removal can be performed for both Colored and Binary images.
- **Binarization** – This involves converting a colored image into black and white pixels which can be achieved by fixing a threshold value.

8.3 Document Verification API Details

This topic provides the information about the Document Verification API Details.

Document Verification APIs are a function of image quality, image size, and Resolution. Each API has different requirements. The Framework is designed to extract details from documents like Passport, Driving License, National ID card, Salary slips etc.

This topic contains the following subtopics:

Workaround for plato-api-gateway Service Deployment Issue with OJDBC11 Background. The `plato-api-gateway` service deployment may fail when using the default `ojdbc11 JAR` provided with WebLogic 14.1.2. As a temporary workaround, you can manually replace the JDBC driver with version **21.11.0.0.0**.

Temporary Workaround: Replace ojdbc11 with Version **21.11.0.0.0**

1. **Locate and Backup Current Driver**
   Navigate to the existing `ojdbc11 JAR`

   location:/scratch/obma/fmw/oracle_common/modules/oracle.jdbc

   Optional: Back up the current version of ojdbc11.jar for rollback.
2. **Replace JAR File**
   Download `ojdbc11` version **21.11.0.0.0** and place it as needed in the directory above, replacing the existing JAR.

- Passport Extraction
  This topic provides the information about the Passport Extraction.
- Driving License Extraction
  This topic provides the information about the payload details for Driving License Details extraction service.
- National Identification Extraction
  This topic provides elaborates the payload details for National ID Card Details extraction service.
- Voter Identity Card Extraction
  This topic provides the information about the payload details for voter identity card extraction service.

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8.3.1 Passport Extraction

This topic provides the information about the Passport Extraction.

Passport Extraction module extracts details in the passport like Country, Document Type, Name, First Name, Last Name, Gender, Date of Birth, Date of Issue and Date of expiry of the passport, Passport No and Issuing Authority if present in the passport along with Image metadata information like Image DPI, Resolution and Image Size. This module provides support for passports of various countries listed below:

- USA passport and passport-card
- UAE
- INDIA
- CANADA
- AUSTRALIA
- BANGLADESH

All the details in the passport/ passport-card (Incase of USA) are extracted using "/ extractInformation" API.

Brief of Working:

It takes "country", "document type" and "Base64 encoded image" of the passport as input. It internally generates processed text from the passport and extracts details like Name, First Name, Last Name, Gender, DOB, DOI and DOE, PP No. and Issuing Authority if present in the document. Along with the document details, it also gives image metadata information like Image DPI, Resolution and Size, etc. The output is represented in JSON format.

Table 8-1 Passport Extraction API Format

Sl.No	Description	Comments
1	Format of input images it supports	jpg, jpeg, png, pdf
2	Output Format	JSON
3	Support multiple input files	Yes

Input Request:

"/extractInformation" API -

For a single image: Base64 encoded image, Country, Document Type ("passport" in this case).

For multiple images: Array of the Base64 encoded images, Country, Document Type ("passport" in this case).

Sample Input Request:

```
{
          "country": "UAE",
          "docType": "passport",
          "docBase64s": [
          "------base64 encoded image string------"
```


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```
        ]
}
```

> **Note**
>
> In case of USA, there are 2 types of document: passport and passport-card. If the input document is of type passport-card, the docType should be mentioned as passport-card.

Output Response:

The output of "/extractInformation" API is the extracted details in the JSON format given below:

Sample Output Response:


```
{
  "documentDetails": [
    {
     "ImageInfo": {
        "file_size": "647.22 KB",
        "image_dpi": "150",
        "image_resolution": "704x541",
        "information": "Minimum 300 DPI is required. File size is proper."
     },
  "dateOfBirth": "7/11/2001",
  "dateOfExpiry": "11/6/2022",
  "dateOfIssue": "12/6/2017",
  "docType": "Passport",
  "firstName": "SHAMA",
  "gender": "F",
  "identificationNumber": "F0Z615883",
  "issuedCountry": "UNITED ARAB EMIRATES",
  "issuingAuthority": "",
  "lastName": "RASHED ABDULIALIL MOHAMED ALFAHIM",
  "name": "SHAMA RASHED ABDULIALIL MOHAMED ALFAHIM"
  }
 ]
}
```


> **Note**
>
> Even if Country and DocType not provided in the input request, the service tries to extract the Country Name and Document Type automatically. In case, if it is not able to extract it returns an exception/ error. This means either the quality of the document is not enough to extract all the details or resolution is poor.

Things to be taken care of:

- Make sure the base64 encoded image string of the input image is correct.
- Document Type provided in the input should be "passport" only
- Specify the country name correctly for accurate extraction of details

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8.3.2 Driving License Extraction

This topic provides the information about the payload details for Driving License Details extraction service.

Driving License Details Extraction module extracts information present in the Driving License such as Name, First Name, Last Name, Gender, Address, License No, Date of Birth, Date of Issue and Date of expiry of the license along with the image metadata information like Image DPI, Resolution and Size. Currently, we provide support for licenses of various countries listed below:

- UNITED STATES OF AMERICA
- UNITED KINGDOM
- CANADA
- AUSTRALIA
- BANGLADESH

All the details in the license are extracted using "/extractInformation" API.

Brief of Working:

The API accepts the "country", "document type" and "Base64 encoded image" of the license as input. It internally generates processed text from the license document and extracts details like Name, First Name, Last Name, Gender, DOB, DOI and DOE, License No. and Address, etc. Along with the document details, it also gives image metadata information like Image DPI, Resolution and Size. The output is represented in JSON format.

Input Request:

"/extractInformation" API -

- For a single image: Base64 encoded image, Country, Document Type (“License" in this case).
- For multiple images: Array of the Base64 encoded images, Country, Document Type ("License" in this case).

Sample Input Request:

```
{
  "country": "US",
  "docType": "license",
  "docBase64s": [
    "------base64 encoded image------"
  ]
}
```

Output Response:

The output for "/extractInformation" API is the extracted details in the JSON format given below:

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Sample Output Response:


```
{
 "documentDetails":
   [
    {
     "ImageInfo": {
      "file_size": "579.26 KB",
      "image_dpi": "",
      "image_resolution": "736x419",
      "information": "dpi info not available. Average Image Resolution. File
size is proper."
      },
    "address": "918 N ROXBURY BEVERLY HILS CA 90210",
    "dateOfBirth": "6/8/1911",
    "dateOfExpiry": "6/8/2012",
    "dateOfIssue": "2/7/2010",
    "docType": "license",
    "firstName": "LUCILLE",
    "gender": "F",
    "identificationNumber": "B2201793",
    "issuedCountry": "UNITED STATES OF AMERICA",
    "issuingAuthority": "CALIFORNIA",
    "lastName": "BALL",
    "name": "LUCILLE BALL"
   }
  ]
}
```


> **Note**
>
> Even if Country and DocType not provided in the input request, the service tries to extract the Country Name and Document Type automatically. In case, if it is not able to extract it returns an exception/ error. This means either the quality of the document is not enough to extract all the details or resolution is poor.

Things to be taken care of:

- Make sure the base64 encoded image string of the input image is correct.
- Document Type provided in the input should be "license" only
- Specify the country name correctly for accurate extraction of details

8.3.3 National Identification Extraction

This topic provides elaborates the payload details for National ID Card Details extraction service.

National ID card Details Extraction module extracts details in the National Identity Card like Name, First Name, Last Name, Gender, Address (if present), Date of Birth, Date of Issue and Date of expiry of the NID, ID No , etc along with the image metadata information like Image DPI, Resolution and Size. This module provides support for NIDs of various countries listed below:

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- USA
- South Africa
- Brazil
- Bangladesh
- India
- Kenya
- Portugal

All the details in the ID are extracted using "/extractInformation" API.

Brief of Working:

It takes "country", "document type" and "Base64 encoded image" of the NID as input. It internally generates processed text from the Identity document and extracts details like Name, First Name, Last Name, Gender, Address, DOB, DOI, DOE, and ID No. Along with the document details, it also gives image metadata information like Image DPI, Resolution and Size. The output is represented in JSON format.

Input Request:

"/extractInformation" API -

- For a single image: Base64 encoded image, Country, Document Type (“nid" in this case).
- For multiple images: Array of the Base64 encoded images, Country, Document Type ("nid" in this case).

Sample Input Request:

```
{
  "country": "BR",
  "docType": "nid",
  "docBase64s": [
    "------base64 encoded image------"
  ]
}
```

Output Response:

The output for "/extractInformation" API is the extracted details in the JSON format given below:

Sample Output Response:

```
{
  "documentDetails": [
     {
       "ImageInfo": {
         "file_size": "566.32 KB",
         "image_dpi": "72",
         "image_resolution": "680x453",
         "information": "Minimum 300 DPI is required. Poor Image Resolution.
File size is proper."
        },
```


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```
      "dateOfBirth": "12/7/1960",
      "dateOfExpiry": "20/8/2030",
      "dateOfIssue": "",
      "docType": "NID",
      "firstName": "FERNANDA",
      "gender": "F",
      "identificationNumber": "000000005-9",
      "issuedCountry": "BRAZIL",
      "issuingAuthority": "",
      "lastName": "DE CARVALHO DA SILVA",
      "name": "FERNANDA DE CARVALHO DA SILVA"
    }
  ]
}
```


> **Note**
>
> Even if Country and DocType not provided in the input request, the service tries to extract the Country Name and Document Type automatically. In case, if it is not able to extract it returns an exception/ error. This means either the quality of the document is not enough to extract all the details or resolution is poor.

Things to be taken care of:

- Make sure the base64 encoded image string of the input image is correct.
- Document Type provided in the input should be "nid" only
- Specify the country name correctly for accurate extraction of details

8.3.4 Voter Identity Card Extraction

This topic provides the information about the payload details for voter identity card extraction service.

VoterID card Details Extraction module extracts details in the Voter ID Card like **Name**, **First Name**, **Last Name**, **Gender**, **Date of Birth** and, **ID No.** along with the image metadata information like **Image DPI**, **Resolution**, and **Size**. Currently, we provide support for Voter IDs of various countries listed below:

- INDIA

All the details in the license are extracted using "/extractInformation" API.

Brief of Working:

It takes "country", "document type" and "Base64 encoded image" of the Voter ID as input. It internally generates processed text from the Identity document and extracts details like Name, First Name, Last Name, Gender, DOB, and ID No. Along with the document details, it also gives image metadata information like Image DPI, Resolution and Size. The output is represented in JSON format.

Input Request:

"/extractInformation" API -

- For a single image: Base64 encoded image, Country, Document Type (“voterid" in this case).

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- For multiple images: Array of the Base64 encoded images, Country, Document Type ("voterid" in this case).

Sample Input Request:

```
{
   "country": "IND",
   "docType": "voterid", "docBase64s": [
     "------base64 encoded image    "
  ]
}
```

Output Response:

The output for "/extractInformation" API is the extracted details in the JSON format given below:

Sample Output Response:


```
{
    "documentDetails": [
        {
            "ImageInfo": {
                "file_size": "236.93 KB",
                "image_dpi": "300",
                "image_resolution": "317x500",
                "information": "Image DPI is proper. File size is proper."
            },
            "dateOfBirth": "15/2/1985",
            "dateOfExpiry": "",
            "dateOfIssue": "",
            "docType": "VOTERID",
            "firstName": "PREM",
            "gender": "M",
            "identificationNumber": "GDN0225185",
            "issuedCountry": "INDIA",
            "issuingAuthority": "",
            "lastName": "RAJ THAKUR",
            "name": "PREM RAJ THAKUR"
        }
    ]
}
```


> **Note**
>
> Even if Country and DocType are not provided in the input request, the service tries to extract the Country Name and Document Type automatically. In case, if it is not able to extract it returns an exception/ error. This means either the quality of the document is not enough to extract all the details or resolution is poor.

Things to be taken care of:

- Make sure the base64 encoded image string of the input image is correct.

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- Document Type provided in the input should be "voterid" only
- Specify the country name correctly for accurate extraction of details

8.4 Validate Information API details

This topic provides the information about the Validate Information API details.

Validate Information APIs are a function of image quality, image size, and Resolution. Each API has different requirements. The Framework is designed to extract details from documents like Passport, Driving License, National ID card, Salary slips etc. and to calculate similarity score of the extracted details with input key value pairs. It uses fuzzy matching logic for calculating similarity of input value & extracted value based on given keys. For Date of Birth, Date of Issue and Date of expiry keys similarity score is calculated by exact matching logic.

Table 8-2 Validate Information API Input format

Sl. No	Description	Comments
1	Format of input images it supports	jpg, jpeg, png, pdf
2	Output format	JSON
3	Support multiple users' input key value pairs	Yes
4	Support multiple input files of different document types	Yes

This topic contains the following subtopics:

- Passport Validation
  This topic provides the information about the payload details for Passport Details validation service.
- Driving License Validation
  This topic provides the information about the payload details for Driving License validation service.
- National Identification Validation
  This topic provides the information about the payload details for National Identification validation service.
- Voter Identity Card Validation
  This topic provides the information about the payload details for Voter Identity Card validation service.
- Pointers About Request and Response
  This topic provides the information about the Pointers about Request and Response.
- Things to be taken care of

8.4.1 Passport Validation

This topic provides the information about the payload details for Passport Details validation service.

Passport Validation module extracts details in the passport like Country, Document Type, Name, First Name, Last Name, Gender, Date of Birth, Date of Issue and Date of expiry of the passport, Passport No and Issuing Authority if present in the passport along with Image metadata information like Image DPI, Resolution and Image Size. Then it calculates similarity scores for each input key value pairs with the extracted details. This module provides support for passports of various countries listed below:

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- USA passport and passport-card
- UAE
- INDIA
- CANADA
- AUSTRALIA
- BANGLADESH

All the details in the passport/ passport-card (in case of USA) are extracted and validated using "/validateInformation" API

Brief of Working:

It takes "country", "key value pairs to be searched", "input documents" (including "document type" and "Base64 encoded image") of the passport as input. It internally generates processed text from the passport and extracts details like Name, First Name, Last Name, Gender, DOB, DOI and DOE, PP No. and Issuing Authority if present in the document. Along with the document details, it also gives image metadata information like Image DPI, Resolution and Size, etc. Then it calculates similarity scores for each input key value pairs with the extracted details. The output is represented in JSON format.

Input Request:

"/validateInformation" API -

- Country, Array of key value pairs to be searched, Array of the documents (including Base64 encoded image and Document Type ("passport" in this case) for each document).

Sample Input Request:

```
{
    "country": "UAE",
    "search": [
        [
            {
              "key": "------name of key------"
             "value": "------value of key------"
            }
        ]
    ],
    "docs": [
        {
            "docType": "passport",
            "docBase64s": "------base64 encoded image string------"
        }
    ]
}
```

> **Note**
>
> In case of USA, there are 2 types of documents: passport and passport-card. If the input document is of type passport-card, the docType should be mentioned as passport-card.

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Output Response:

The output of "/validateInformation" API is the extracted details in the JSON format given below:

Sample Output Response:


```
{
    "documentDetails": [
        {
            "country": "UAE",
            "documents": {
                "document_1": [
                    [
                        {
                            "extractedValue": "7/11/2001",
                            "key": "dateOfBirth",
                            "similarityScore": 100.0,
                            "value": "7 Nov 2001"
                        },
                        {
                            "extractedValue": "12/6/2017",
                            "key": "dateOfissue",
                            "similarityScore": 100.0,
                            "value": "12 06 2017"
                        },
                        {
                            "extractedValue": "11/6/2022",
                            "key": "dateOfexpiry",
                            "similarityScore": 100.0,
                            "value": "11/06/2022"
                        },
                        {
                            "extractedValue": "SHAMA RASHED ABDULJALIL
MOHAMED ALFAHIM",
                            "key": "nAME",
                            "similarityScore": 56.41,
                            "value": "SHAMA RASHED ABDULIALIL"
                        },
                        {
                            "extractedValue": "UNITED ARAB EMIRATES",
                            "key": "issuedCountry",
                            "similarityScore": 100.0,
                            "value": "UNITED ARAB EMIRATES"
                        }
                    ]
                ]
            }
        }
    ]
 }
```


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8.4.2 Driving License Validation

This topic provides the information about the payload details for Driving License validation service.

Driving License Details Validation module extracts information present in the Driving License such as Name, First Name, Last Name, Gender, Address, License No, Date of Birth, Date of Issue and Date of expiry of the license along with the image metadata information like Image DPI, Resolution and Size. Then it calculates similarity scores for each input key value pairs with the extracted details. This module provides support for licenses of various countries listed below:

- UNITED STATES OF AMERICA
- UNITED KINGDOM
- CANADA
- AUSTRALIA
- BANGLADESH

All the details in the license are extracted and validated using "/validateInformation" API.

Brief of Working:

It takes "country", "key value pairs to be searched", "input documents" (including "document type" and "Base64 encoded image") of the passport as input. It internally generates processed text from the passport and extracts details like Name, First Name, Last Name, Gender, DOB, DOI and DOE, PP No. and Issuing Authority if present in the document. Along with the document details, it also gives image metadata information like Image DPI, Resolution and Size, etc. Then it calculates similarity scores for each input key value pairs with the extracted details. The output is represented in JSON format.

Input Request:

"/validateInformation" API -

- Country, Array of key value pairs to be searched, Array of the documents (including Base64 encoded image and Document Type ("license" in this case) for each document).

Sample Input Request:

```
{
    "country": "US",
    "search": [
        [
            {
             "key": "------name of key------"
            "value": "------value of key------"
            }
        ]
    ],
    "docs": [
        {
             "docType": "license",
             "docBase64s": "------base64 encoded image string------"
        }
    ]
```


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```
}
```

Output Response:

The output of "/validateInformation" API is the extracted details in the JSON format given below:

Sample Output Response:


```
{
    "documentDetails": [
        {
            "country": "US",
            "documents": {
                "document_1": [
                    [
                        {
                            "extractedValue": "JELANI",
                            "key": "firstnAME",
                            "similarityScore": 75.0,
                            "value": "jelani s"
                        },
                        {
                            "extractedValue": "123 MAIN ST PHOENIX, AZ 85007",
                            "key": "ADDress",
                            "similarityScore": 80.0,
                            "value": "787 Main st, phoenix, AZ 85007"
                        },
                        {
                            "extractedValue": "1/1/1974",
                            "key": "dateOfbirth",
                            "similarityScore": 100.0,
                            "value": "1/1/1974"
                        },
                        {
                            "extractedValue": "1/3/2016",
                            "key": "dateOfissue",
                            "similarityScore": 100.0,
                            "value": "03-01-16"
                        },
                        {
                            "extractedValue": "M",
                            "key": "gender",
                            "similarityScore": 100.0,
                            "value": "M"
                        },
                        {
                            "extractedValue": "1/3/2024",
                            "key": "dateOfexpiry",
                            "similarityScore": 0.0,
                            "value": "03/03/24"
                        }
                    ]
                ]
```


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```
            }
        }
    ]
}
```

8.4.3 National Identification Validation

This topic provides the information about the payload details for National Identification validation service.

National ID card Details Validation module extracts details in the National Identity Card like Name, First Name, Last Name, Gender, Address (if present), Date of Birth, Date of Issue and Date of expiry of the NID, ID No, etc along with the image metadata information like Image DPI, Resolution and Size. Then it calculates similarity scores for each input key value pairs with the extracted details. This module provides support for NIDs of various countries listed below:

- USA
- SOUTH AFRICA
- BRAZIL
- BANGLADESH
- CANADA
- INDIA
- KENYA
- PORTUGAL

All the details in the license are extracted and validated using "/validateInformation" API.

Brief of Working:

It takes "country", "key value pairs to be searched", "input documents" (including "document type" and "Base64 encoded image") of the passport as input. It internally generates processed text from the passport and extracts details like Name, First Name, Last Name, Gender, DOB, DOI and DOE, PP No. and Issuing Authority if present in the document. Along with the document details, it also gives image metadata information like Image DPI, Resolution and Size, etc. Then it calculates similarity scores for each input key value pairs with the extracted details. The output is represented in JSON format.

Input Request:

"/validateInformation" API -

- • Country, Array of key value pairs to be searched, Array of the documents (including Base64 encoded image and Document Type ("nid" in this case) for each document).

Sample Input Request:

```
{
    "country": "BR",
    "search": [
        [
            {
              "key": "------name of key------"
              "value": "------value of key------"
```


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```
            }
        ]
    ],
    "docs": [
        {
          "docType": "nid",
            "docBase64s": "------base64 encoded image string------"
        }
    ]
}
```


Output Response:

The output of "/validateInformation" API is the extracted details in the JSON format given below:

Sample Output Response:


```
{
     "documentDetails": [
        {
            "country": "BR",
            "documents": {
                        {
                            "extractedValue": "FERNANDA DE CARVALHO DA SILVA",
                            "key": "name",
                            "similarityScore": 68.97,
                            "value": "FERNANDA DE CARVALHO"
                        },
                        {
                            "extractedValue": "000000005-9",
                            "key": "identificationNumber",
                            "similarityScore": 100.0,
                            "value": "000000005-9"
                        },
                        {
                            "extractedValue": "NA",
                            "key": "date",
                            "similarityScore": 0.0,
                            "value": "12/7/1960"
                        },
                        {
                            "extractedValue": "BRAZIL",
                            "key": "issuedCountry",
                            "similarityScore": 100.0,
                            "value": "BRAZIL"
                        }
                    ]
                ]
            }
        }
    ]
 }
```


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8.4.4 Voter Identity Card Validation

This topic provides the information about the payload details for Voter Identity Card validation service.

Voter ID card Details Validation module extracts details in the Voter ID Card like Name, First Name, Last Name, Gender, Date of Birth and, ID No along with the image metadata information like Image DPI, Resolution and Size. Then it calculates similarity scores for each input key value pairs with the extracted details. This module provides support for Voter IDs of various countries listed below:

- INDIA

All the details in the license are extracted and validated using "/validateInformation" API.

Brief of Working:

It takes "country", "key value pairs to be searched", "input documents" (including "document type" and "Base64 encoded image") of the passport as input. It internally generates processed text from the passport and extracts details like Name, First Name, Last Name, Gender, DOB, DOI and DOE, PP No. and Issuing Authority if present in the document. Along with the document details, it also gives image metadata information like Image DPI, Resolution and Size, etc. Then it calculates similarity scores for each input key value pairs with the extracted details. The output is represented in JSON format.

Input Request:

"/validateInformation" API -

- Country, Array of key value pairs to be searched, Array of the documents (including Base64 encoded image and Document Type ("voterid" in this case) for each document).

Sample Input Request:

```
{
    "country": "IND",
    "search": [
        [
            {
             "key": "------name of key------"
            "value": "------value of key------"
            }
        ]
    ],
    "docs": [
        {
          "docType": "voterid",
            "docBase64s": "------base64 encoded image string------"
        }
    ]
}
```

Output Response:

The output of "/validateInformation" API is the extracted details in the JSON format given below:

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Sample Output Response:


```
{
    "documentDetails": [
        {
            "country": "IND",
            "documents": {
                "document_1": [
                    [
                        {
                            "extractedValue": "PREM",
                            "key": "firstName",
                            "similarityScore": 100.0,
                            "value": "PREM"
                        },
                        {
                            "extractedValue": "PREM RAJ THAKUR",
                            "key": "name",
                            "similarityScore": 100.0,
                            "value": "Prem RAJ Thakur"
                        },
                        {
                            "extractedValue": "NA",
                            "key": "aDDress",
                            "similarityScore": 0.0,
                            "value": "Kanpur, India"
                        },
                        {
                            "extractedValue": "M",
                            "key": "GENDER",
                            "similarityScore": 0.0,
                            "value": "F"
                        },
                        {
                            "extractedValue": "GDN0225185",
                            "key": "identificationNumber",
                            "similarityScore": 90.0,
                            "value": "GAN0225185"
                        }
                    ]
                ]
            }
        }
    ]
}
```


8.4.5 Pointers About Request and Response

This topic provides the information about the Pointers about Request and Response.

If "Country" is provided as empty string in the input request, the service return a message "Country is not provided in the input". If key "Country" is not provided/ is missing in the request, the service returns an exception/ error.

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If input documents "Docs" are provided as empty list, the service return a message "Input documents are not provided". If key "Docs" is not provided/ is missing in the request, the service returns an exception/ error.

If either "DocType" is provided as empty string or key “DocType” not provided in the input request, the service returns an exception/ error.

If either the quality of the document is not enough to extract all the details or resolution is poor, the service returns an exception/ error.

If input key value pairs list “Search” is provided as empty list, the service returns empty result along with input country. If key “Search” is not provided/ is missing in the request, the service returns an exception/ error.

8.4.6 Things to be taken care of

- Make sure the base64 encoded image string of the input image is correct.
- Make sure the document type of the input image is correct.
- Specify the country name correctly for accurate extraction of details

8.5 Recommendations For Better Performance

This topic provides the information about the better quality of the source image, the higher the accuracy of extraction will be.

Keeping DPI lower than 200 will give unclear and incomprehensible results while keeping the DPI above 600 will unnecessarily increase the size of the output file without improving the quality of the file. Thus, a DPI of 300 works best for this purpose.

Following parameters determines the image quality:

- Min text-size 10 pts (below 8pts are removed by noise).
- Min resolution (dpi) of 300 works best for Text Extraction.
- Sharp and visible characters.
- Min image size of 200 kb.
- Less image noise e.g., the image with shadows.
- Image with background noise e.g., image containing background with text data in foreground.

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A

Error Codes and Messages

Table A-1 Error Codes and Messages

Error Codes	Messages
CC-01015	Default BIC Is Checked For More Than One BIC.
CC-01016	Swift Address is Mandatory.
CC-01017	Default BIC Is Not Checked For any BIC.
CC-01018	Same Swift Address is present more than once.
CC-01019	Mismatch in bank code.
CC-ACC-002	Currency should be null for Multi-Currency Account.
CC-ACC-102	Record already exist for Source Branch and Source Account No combination
CC-ACC-169	Reopen not allowed for a closed Customer No
CC-BIC-010	Bic code is being used in branch maintenance. Close not allowed.
CC-BIC02	The BIC code does not conform to SWIFT standards.
CC-BIC05	Record already maintained for the customer no.
CC-BNK-001	Branch code is in Open status. Close not allowed.
CC-BNK-002	Reopen not allowed for a closed Branch Code.
CC-BNK-003	Only one Bank Code is allowed.
CC-BRN-101	Active account / accounts exist for the branch code. Close not allowed.
CC-BRN-102	This is HO branch. Close not allowed.
CC-BRN-103	Record for Source Branch Code already exists.
CC-C00100	Relationship cannot be No for a Customer Linked BIC Code.
CC-CUS-167	Record already exist for customer no and source_system_cust_no combination.
CC-CUS-169	Active account/accounts exist for the customer no.
CC-CUS-17	Kindly Enter a Valid Walkin Customer.
CC-EC-002	Record already exist for Account IBAN.
CC-ECA-001	Active $1 exist for the Source System.
CC-HST-001	Active $1 exist for the Host Code.
CC-MOD-001	$1 cannot be modified.
CC-MOD-INV	$1 is invalid.
CC-NUL-001	$1 cannot be null.
CC-TXN-001	$1 is closed. Reopen not allowed.
CMC-ACC-FOR01	Cannot reopen forgotten account.
CMC-ACC-PII01	User does not have access to PII data and cannot perform create or modify operations.
CMC-ACC-SUBAC01	No SubAccounts available for Multi-Currency Account.
CMC-ACC-SUBAC02	Exactly one account should be primary account.
CMC-ACC-SUBAC03	Sub Accounts should have unique currency code.
CMC-BRN-018	Exception occurred in ICFlipDate.

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Table A-1 (Cont.) Error Codes and Messages

Error Codes	Messages
CMC-BRN-019	Unable to get branch date.
CMC-BRN-020	Branch code is null.
CMC-BRN-100	Branch Status retrieved Successfully.
CMC-BRN-101	Branch does not exist.
CMC-BRN-CD01	Date changed successfully.
CMC-BRN-CD02	Failed to change date, holiday list not maintained properly.
CMC-BRN-EOD01	Branch Status not in TI, cannot initiate EOD.
CMC-BRN-EOD02	EOD invoked for the branch.
CMC-BRN-EOD03	Invalid Branch Code.
CMC-BRN-EOD04	EOD Requested on Date is not Branch Today.
CMC-BRN-EOD05	EOD cannot be invoked on a holiday.
CMC-BRN-EOD06	Date changed successfully.
CMC-BRN-EOD07	EOD not invoked, cannot initiate change date.
CMC-BRN-EOD08	EOFI job not completed, cannot initiate change date.
CMC-BRN-EOD09	EOD not invoked, cannot initiate mark TI.
CMC-BRN-EOD10	Date Change job not completed, cannot initiate TI for next day.
CMC-BRN-EOD11	Mark TI successful.
CMC-BRN-EOD12	Branch status not in TI, cannot initiate Mark EOFI.
CMC-BRN-EOD13	Branch status not in EOFI, cannot change Date.
CMC-BRN-EOD14	Branch status for next working date update to EOD.
CMC-BRN-EOD15	Branch status not in EOD, cannot mark TI.
CMC-BRN-EOD16	Branch status for next working date update to TI.
CMC-BRN-EOD17	Branch Status Changed to EOFI.
CMC-BRN-EOD18	Invoke Mark TI failed.
CMC-BRN-EOD19	Date change completed cannot retrigger.
CMC-BRN-EOD20	Mark TI completed cannot retrigger.
CMC-BRN-EOD21	Date changed failed.
CMC-BRN-EOD30	Invalid requested date, failed to parse.
CMC-BRN-EOD31	Mark EOFI retry initiated.
CMC-BRN-EOD32	Cannot retry Mark EOFI which has not failed.
CMC-BRN-EOD33	Date Changed successfully. $1
CMC-BRN-EOD34	BOD Batches completed successfully.
CMC-BRN-EOD35	BOD Batches retriggered successfully. $1.
CMC-BRN-EOD36	$1. Hence EOFI Failed.
CMC-BRN-EOD37	Failed in getting current date.
CMC-CCY-001	Duplicate records exists in Amount word currency Mapping.
CMC-CCY-002	Duplicate records exists in Amount Text Mapping.
CMC-CCY-003	Cannot change Currency Decimal for once authorized currencies.
CMC-CCY-004	Cannot Change round unit if the round rule is Truncate (T).
CMC-CCY-005	Mandatory field Interest Method is not entered.
CMC-CCY-006	Mandatory field Spot Days is not entered.
CMC-CCY-007	Mandatory field Settlement Days is not entered.
CMC-CCY-008	Mandatory field Country is not entered.

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Table A-1 (Cont.) Error Codes and Messages

Error Codes	Messages
CMC-CCY-009	Mandatory field Rule is not entered.
CMC-CCY-010	Value should be in range of 0 and 999 for Settlement Days.
CMC-CCY-011	Mandatory field Unit is not entered.
CMC-CCY-012	Decimals/ Rounding Unit Mismatch.
CMC-CCY-013	Numerator of Interest Method is not Actual.
CMC-CCY-014	Duplicate Alternate Currency Code.
CMC-CCY-015	Duplicate ISO Numeric Currency Code.
CMC-CCY-016	Duplicate Euro currency.
CMC-CCY-017	Euro Conversion required cannot be changed for the currency types out, Euro and Euro closed.
CMC-CCY-018	Spot days is less than fx netting days.
CMC-CCY-019	Currency Cut Off days cannot be greater than spot days for currency.
CMC-CCY-020	Spot Days for currency cannot be lesser than cut off days for currency.
CMC-CCY-021	Value should be in range of 1 and 99 for Cut Off Days.
CMC-CCY-022	Value should be in range of 1 and 23 for Cut Off Hour.
CMC-CCY-023	Value should be in range of 1 and 59 for Cut Off Min.
CMC-CCY-024	Value cannot be less than .00000 for Currency Total limit.
CMC-CCY-025	Value should be in range of 0 and 3 for Currency Decimal.
CMC-CCY-026	Country Code is Mandatory.
CMC-CCY-027	Duplicate records exists in Currency Country Mapping.
CMC-CCY-028	Mandatory field Country is not entered in Currency Country Mapping.
CMC-CCY-029	Currency Code is NULL.
CMC-CCY-030	Date is NULL.
CMC-CCY-031	Date is Invalid (should be in yyyy-mm-dd format).
CMC-CCY-032	No record found.
CMC-CCY-033	Next/Previous indicator is NULL (should be either N or P).
CMC-CCY-034	Next/Previous indicator is Invalid (should be either N or P).
CMC-CCY-035	Lower Limit Date is Invalid (should be in yyyy-mm-dd format).
CMC-CCY-036	Upper Limit Date is Invalid (should be in yyyy-mm-dd format).
CMC-CCY-037	Offset is NULL.
CMC-CCY-038	Offset is Invalid (should be > 0).
CMC-CCY-039	Input date should be between Upper limit date and Lower limit date.
CMC-CCY-040	Duplicate records exists in CurrencyHolidays.
CMC-CCY-041	Mandatory Through Currency Code is not entered
CMC-CCY-042	Cannot change spread definition option for through currency pair.
CMC-CCY-043	Through currency should be blank if the through currency is unchecked.
CMC-CCY-044	Through currency has to be of type Euro.
CMC-CCY-045	Through Currency is not allowed for Euro In Currency Pair.
CMC-CCY-046	Points multiplier should be in the range 0 - 1.
CMC-CCY-047	MidRate is invalid.
CMC-CCY-048	BuySpread is invalid.
CMC-CCY-049	SaleSpread is invalid.
CMC-CCY-050	Atleast one Currency Rate Should be Maintained.

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Table A-1 (Cont.) Error Codes and Messages

Error Codes	Messages
CMC-CCY-051	Duplicate records exists in Rate.
CMC-CCY-052	Currency Code is NULL.
CMC-CCY-053	Currency Code is Empty.
CMC-CCY-054	Amount is NULL.
CMC-CCY-055	Option is NULL.
CMC-CCY-056	Option is Empty.
CMC-CCY-057	Method is NULL.
CMC-CCY-058	Method is Empty.
CMC-CCY-059	Decimal is NULL.
CMC-CCY-060	Units is NULL.
CMC-CCY-061	Maintenance Country is NULL.
CMC-CCY-062	Maintenance Country is Empty.
CMC-CCY-063	Currency1/Currency2/branch Code is NULL.
CMC-CCY-065	Error in conversion.
CMC-CCY-066	Rate is not handled for currency1 and currency2.
CMC-CCY-067	Rate is not handled for currency2 and currency1.
CMC-CCY-068	Error in Amount rounding.
CMC-CCY-069	Currency definition is not maintained for given currency and maintenance country.
CMC-CCY-070	Error in getting branch currency and country.
CMC-CCY-071	Error in getting currency pair for currency1 and currency2.
CMC-CCY-072	Error in getting Premium points for currency1 and currency2.
CMC-CCY-073	Error in getting rate with through currency.
CMC-CCY-074	Error in getting Rate.
CMC-CCY-075	Rate History is not handled for currency1 and currency2.
CMC-CCY-076	Rate History is not handled for currency2 and currency1.
CMC-CCY-077	Currency Pair is not maintained.
CMC-CCY-078	Error in purging.
CMC-CCY-079	Data inadequate in currency Pair Definition.
CMC-CCY-080	Currency Pair already exists for the given Maintenance Country.
CMC-CCY-081	MidRate is mandatory.
CMC-CCY-082	Either buySpread / buyRate are mandatory.
CMC-CCY-083	Either saleSpread / saleRate are mandatory.
CMC-CUS-FOR01	Record successfully deleted.
CMC-CUS-PII01	User does not have access to PII data, cannot perform create or modify operations.
CMC-EOD-001	Invoked EOD successfully.
CMC-EOD-002	Failed while resolving current date.
CMC-EOD-003	EOD flow is not maintained for $1 branch.
CMC-EOD-004	EOD already invoked for today.
CMC-EOD-005	Unable to invoke EOD.
CMC-EOD-006	Retried EOD successfully.
CMC-EOD-007	Failed to retry EOD.
CMC-EOD-008	Pending maintenances exist. Failed to start EOD.

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Table A-1 (Cont.) Error Codes and Messages

Error Codes	Messages
CMC-EOD-009	Failed during pending maintenance check.
CMC-EOD-010	Pending transactions exist. Failed to start EOD.
CMC-EOD-011	Failed during pending transaction check.
CMC-EOD-012	Marked cutoff for the branch successfully.
CMC-EOD-013	Branch not in Transaction Input. Cannot mark cutoff.
CMC-EOD-014	Branch not in EOD stage. Cannot release cutoff.
CMC-EOD-015	Released cutoff for the branch successfully.
CMC-EOD-016	Branch cutoff not released. Cannot mark Transaction Input.
CMC-EOD-017	Branch cutoff not marked. Cannot mark End of Transaction Input.
CMC-FORC-001	Request is null, not valid.
CMC-FORC-002	Forget customers request created successfully.
CMC-FORC-003	Failed to create forget entities request.
CMC-FORC-004	Invalid ID sent, ID null.
CMC-FORC-005	Already authorized.
CMC-FORC-006	Authorized successfully.
CMC-FORC-007	Record not found, invalid ID.
CMC-FORC-008	Cannot delete authorized record.
CMC-FORC-009	Record successfully deleted.
CMC-FORC-010	Invalid Customer $1 added, customer should be valid and in closed and authorized state without pending maintenance.
CMC-FORC-011	Invalid request. Duplicate requests for customer number $1.
CMC-INDBML-000	Failed with error - $1.
CMC-INDBML-001	Usecase already exists with a same name.
CMC-INDBML-002	Target Column cannot be null.
CMC-INDBML-003	Unique Case Identifier Column cannot be null.
CMC-INDBML-004	Invalid Partition column value.
CMC-INDBML-005	Duplicate Column Values.
CMC-INDBML-006	Partition Columns cannot be same as either of target, use case identifier or prediction column.
CMC-INDBML-007	$1 and $2 are not similar
CMC-INDBML-008	Invalid Table Name
CMC-INDBML-009	Unable to save model monitoring details
CMC-INDBML-010	Record Saved Successfully
CMC-LOV-001	Invalid Source Code.
CMC-IB-001	Branch Code 1 and Branch Code 2 cannot be same
CMC-IB-002	$1 is a invalid GL Code
CMC-IB-003	$1 is a invalid Branch Code
CMC-IB-004	Accounting Reference numbers cannot be empty for retry
CMC-IB-005	Accounting Reference number, Transaction Branch or Accounting Branch cannot be empty for retry all
CMC-IB-006	Currency is not vaid
CMC-LOV-002	Invalid Currency.
CMC-LOV-003	Cannot Close the record for which rates are maintained.
CMC-LOV-004	Invalid Language Code.

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Table A-1 (Cont.) Error Codes and Messages

Error Codes	Messages
CMC-LOV-005	Invalid Country.
CMC-LOV-006	Invalid GLCode.
CMC-LOV-007	Invalid Limit Currency.
CMC-LOV-008	Invalid Year.
CMC-LOV-009	Invalid Month.
CMC-LOV-010	Amount Limit Exceeds.
CMC-LOV-011	Invalid Version.
CMC-LOV-012	Rate Type $1 is invalid.
CMC-NLP-000	System is unable to process the request.
CMC-NLP-001	Training File created successfully.
CMC-NLP-002	Training File creation failed.
CMC-NLP-003	Service definition not found for $1 for use case $2.
CMC-NLP-004	Unsupported file type uploaded. Please upload supported file type.
CMC-NLP-005	You do not have sufficient number of training files for use case $1 to train the model.
CMC-NLP-006	Invalid training files are present in the training corpus.
CMC-NLP-007	Error in processing step $1.
CMC-NLP-008	Successfully completed the processing of process $1.
CMC-NLP-010	Run Reference is already mapped with Usecase
CMC-NLP-011	Usecase is not present. Cannot import model
CMC-NLP-012	Model Import code is not valid. Please check again.
CMC-OBRH-001	Record already exists.
CMC-OBRH-002	Record saved successfully.
CMC-OBRH-003	Record does not exist.
CMC-OBRH-004	Invalid Payload.
CMC-OBRH-005	Record deleted successfully.
CMC-OBRH-006	Record modified successfully.
CMC-OBRH-007	Data fetched successfully.
CMC-OBRH-008	Data exported successfully.
CMC-OBRH-009	Failed to get data.
CMC-OBRH-010	Cannot start disabled route.
CMC-OBRH-011	Data imported successfully.
CMC-OBRH-012	Failed to import.
CMC-OBRH-013	Failed to parse [$1].
CMC-OBRH-014	Data extracted successfully.
CMC-OBRH-015	Route state cannot be changed to Start as Consumer Service / Provider is inactive.
CMC-OBRH-016	Modified/Deleted attribute is already in use by route.
CMC-OBRH-017	Something went wrong!
CMC-OBRH-018	Imported WSDL successfully.
CMC-OBRH-019	Imported Swagger successfully.
CMC-OBRH-020	Failed to import [$1].
CMC-OBRH-021	Failed to export [$1].

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Table A-1 (Cont.) Error Codes and Messages

Error Codes	Messages
CMC-OBRH-022	Request failed [$1].
CMC-OBRH-023	Request is being processed
CMC-ORCH-001	Failed to initiate.
CMC-ORCH-002	Transaction is successfully initiated.
CMC-ORCH-003	Invalid action, failed to initiate.
CMC-ORCH-004	$1 is not submitted, transaction remains the same.
CMC-ORCH-005	Cannot proceed with submit as the action is not initiated.
CMC-ORCH-006	Cannot proceed with submit as the information is incomplete.
CMC-ORCH-007	Failed to submit.
CMC-ORCH-008	Record successfully submitted.
CMC-ORCH-009	$1 is in-progress, failed to initiate.
CMC-ORCH-010	Aw, snap! An unexpected exception occurred, try again.
CMC-ORCH-011	Invalid request.
CMC-ORCH-012	Cannot proceed with submit as the action is not initiated.
CMC-ORCH-013	Cannot find the provided information.
CMC-ORCH-014	Record is not yet submitted by $1, cannot initiate the action.
CMC-ORCH-015	Record already unlocked by $1.
CMC-ORCH-016	One record can be authorized at a time. Please close the screen and try again.
CMC-ORCH-017	Current operation terminated.
CMC-ORCH-018	Current operation could not be terminated.
CMC-OV-001	Override Codes must not be empty.
CMC-OV-002	Business Overrides Saved Successfully.
CMC-OV-003	Business Overrides Updated Successfully.
CMC-OV-004	Business Overrides Authorized Successfully.
CMC-OV-005	Business Overrides Approval Pending.
CMC-OV-006	Maker Cannot Authorize.
CMC-OV-007	Multiple Authorizations not allowed for checker.
CMC-OV-008	No Records found for approval.
CMC-OV-009	Maker should approve the records.
CMC-OV-010	Reference number is not valid.
CMC-OV-011	Exception Occurred while converting string to number.
CMC-OV-012	Server Error Occurred during API call.
CMC-OV-013	Client Error Occurred during API call.
CMC-OV-014	Illegal State Exception Occurred.
CMC-OV-015	JTA Transaction unexpectedly rolled back.
CMC-OV-016	Exception Occurred while creating Bean.
CMC-OV-017	Unexpected Exception Occurred.
CMC-OV-018	Exception Occurred while Executing Query.
CMC-STR-001	mandatory fields are missing.
CMC-STR-002	invalid real account number.
CMC-STR-003	Real Account No cannot be modified.
CMC-STR-004	Structured Address is already created for this Real Account.
CMC-STR-005	Structured Address is already created for this External Virtual Account.

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Table A-1 (Cont.) Error Codes and Messages

Error Codes	Messages
CMC-STR-006	invalid virtual account number.
CMC-STR-007	Virtual Account No cannot be modified.
CMC-VAM-001	Rolled Back Due to Exception.
ERR_DEF_CODE	System is unable to process the request.
GCS-AUTH-01	Record Successfully Authorized.
GCS-AUTH-02	Valid modifications for approval were not sent. Failed to match.
GCS-AUTH-03	Maker cannot authorize.
GCS-AUTH-04	No Valid unauthorized modifications found for approval.
GCS-CLOS-002	Record Successfully Closed.
GCS-CLOS-01	Record Already Closed.
GCS-CLOS-02	Record Successfully Closed.
GCS-CLOS-03	Unauthorized record cannot be closed, it can be deleted before first authorization.
GCS-COM-001	Record does not exist.
GCS-COM-002	Invalid version sent, operation can be performed only on latest version.
GCS-COM-003	Please Send Proper ModNo.
GCS-COM-004	Please send maker ID in the request.
GCS-COM-005	Request is Null. Please Resend with Proper SELECT.
GCS-COM-006	Unable to parse JSON.
GCS-COM-007	Request Successfully Processed.
GCS-COM-008	Modifications should be consecutive.
GCS-COM-009	Resource ID cannot be blank or null.
GCS-COM-010	Successfully cancelled $1.
GCS-COM-011	$1 failed to update.
GCS-DEL-001	Record deleted successfully.
GCS-DEL-002	Record(s) deleted successfully.
GCS-DEL-003	Modifications did not match valid unauthorized modifications that can be deleted for this record.
GCS-DEL-004	Send all unauthorized modifications to be deleted for record that is not authorized even once.
GCS-DEL-005	Only Maker of first version of record can delete modifications of record that is not once authorized.
GCS-DEL-006	No valid unauthorized modifications found for deleting.
GCS-DEL-007	Failed to delete. Only maker of the modification(s) can delete.
GCS-MOD-001	Closed Record cannot be modified.
GCS-MOD-002	Record Successfully Modified.
GCS-MOD-003	Record marked for close, cannot modify.
GCS-MOD-004	Only maker of the record can modify before once auth.
GCS-MOD-005	Not amendable field, cannot modify.
GCS-MOD-006	Natural Key cannot be modified.
GCS-MOD-007	Only the maker can modify the pending records.
GCS-REOP-003	Successfully Reopened.
GCS-REOP-01	Unauthorized Record cannot be Reopened.
GCS-REOP-02	Failed to Reopen the Record, cannot reopen Open records.
GCS-REOP-03	Successfully Reopened.

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Table A-1 (Cont.) Error Codes and Messages

Error Codes	Messages
GCS-REOP-04	Unauthorized record cannot be reopened, record should be closed and authorized.
GCS-SAV-001	Record already exists.
GCS-SAV-002	Record Saved Successfully.
GCS-SAV-003	The record is saved and validated successfully.
GCS-VAL-001	The record is successfully validated.
ML-TS-001	Invalid Data Source.
ML-TS-002	Invalid datatype for case ID.
ML-TS-003	Timeseries Model Training Failed.
ML-TS-004	Use Case Name cannot have dash.
ML-RG-001	Regression Model Build Failed.
ML-RG-002	Regression Model Statistics Calculation Failed.
ML-RG-003	Cross Validation Failed.
ML-RG-004	Model Selection Failed.
ML-RG-005	Model Successfully Trained.
ML-RG-006	Invalid Use Case Selected.
ML-RG-007	No Trained Model found.
ML-RG-008	Batch Scoring Failed.
ML-RG-009	Successfully completed Batch scoring.
ML-CLS-001	Mandatory IN Parameters are NULL.
ML-CLS-002	Stratified Sampling Failed.
ML-CLS-003	Stratified dataset Split Failed.
ML-CLS-004	Correlation Check Failed.
ML-CLS-005	Model Metrics Computation Failed.
ML-CLS-006	Only Binary Target Class Supported for Generalized Linear Model.
ML-CLS-007	Failed to Select Final Algorithm.
ML-CLS-008	Dynamic Execute Statement Failed.
ML-CLS-009	Classification Model Build Failed.
ML-CLS-010	Classification Model Successfully Built.
ML-CLS-011	No Trained Classification Model Found.
ML-CLS-012	Failed to Predict.
ML-CLS-013	Classification Batch Scoring Failed.
ML-CLS-014	Successfully completed Batch scoring. Result are available at $1.
ML-CORR-001	Correlation completed successfully.
ML-CORR-002	Correlation Failed.
ML-CORR-003	Correlation analysis not completed fully.
ML-UTIL-001	Invalid Table Name.
ML-UTIL-002	Invalid column Name(s).
ML-UTIL-003	Failed in Random Sampling.
ML-UTIL-004	Too less data for model building.
ML-UTIL-005	Failed in Splitting Data.
ML-UTIL-006	Failed in Selecting Feature.
ML-UTIL-007	Failed to Drop Model(s).

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Table A-1 (Cont.) Error Codes and Messages

Error Codes	Messages
CMC-ML-ANOM-001	User cannot assign case to themselves
CMC-ML-ANOM-002	Validation Error : $1
CMC-ML-ANOM-003	Processed Successfully
ML-ANOMALY-01	Enough Historical Anomalies to Build two class Classification Model
ML-ANOMALY-02	Anomaly Model Built Successfully
ML-ANOMALY-03	Anomaly Model Build Failed
ML-ANOMALY-04	Failed in Query Using Model $1
ML-ANOMALY-05	No Model by name $1
ML-ANOMALY-06	Query result Saved
ML-ANOMALY-07	Anomaly Training Data Successfully added
ML-ANOMALY-08	Failed to add Anomaly Training Data
ML-CLUSTER-001	Model Partitioning support is not available
ML-CLUSTER-002	Clustering Model Statistics Computation Failed
ML-CLUSTER-003	Clustering EM Model Building Failed
ML-CLUSTER-004	Clustering KM Model Building Failed
ML-CLUSTER-005	Clustering OC Model Building Failed
ML-CLUSTER-006	Mandatory IN Parameters are NULL
ML-CLUSTER-007	Nested Table support is not available
ML-CLUSTER-008	Clustering Custom Model Building Failed
ML-CLUSTER-009	Clustering Automatic Model Building Failed
ML-CLUSTER-0010	Clustering Batch Scoring Failed
ML-CLUSTER-0011	Clustering Batch Scoring Failed
ML-CLUSTER-0012	Clustering Successful
ML-CLUSTER-0013	Clustering Batch Scoring Successful
ML-CLUSTER-0014	Clustering Single Scoring Successful
ST-CUS-167	Record already exist for customer no and source_system_cust_no combination.
ST-SAVE-027	Request Successfully Processed.
CBS-CRITERIA-001	Criteria Code cannot be blank.
CBS-CRITERIA-002	Criteria Description cannot be blank.
CBS-CRITERIA-003	Select valid Product Processor.
CBS-CRITERIA-004	Atleast one Rule should be selected in Criteria Definition.
CBS-CRITERIA-005	Rule Description cannot be blank.

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Table A-1 (Cont.) Error Codes and Messages

Error Codes	Messages
CBS-CRITERIA-006	Select a Rule ID from the list.
CBS-CRITERIA-007	Enter a valid number for Priority.
CBS-CRITERIA-008	Enter a valid number for Priority.
CBS-CRITERIA-009	Duplicate entries found for Rule ID.
CBS-CRITERIA-010	Duplicate entries found for Priority.
CBS-CRITERIA-011	Enter valid Parent Rule ID for.
CBS-CRITERIA-012	Duplicate entries found for Rule ID.
CBS-CRITERIA-013	Cannot add child Rule when Call All Bureau is enabled.
CBS-CRITERIA-014	Duplicate entries found for Priority.
CBS_ERR_004	Parameter description cannot be modified.
CBS_LKUP_01	Duplicate entries found for Lookup Code.
CBS_500	Error occurred at Bureau Call. Response structure from Bureau is different.
CBS_SYSPAR_001	System parameter not maintained for the bureau for history call.
CBS_400	Facts not found for Bureau identification Rule. Empty response from criteria for given PPcode. Empty response from Oracle Banking Routing Hub from bureau call. Bureau identification Rule not found for given facts.
CBS-CRTR-015	Criteria Code has exceeded the max length specified
CBS-CRTR-016	Description has exceeded the max length specified
CBS-CRTR-017	Rule Id has exceeded the max length specified
CBS-CRTR-018	Rule Description has exceeded the max length specified
CBS_BR_DTLS_NOT_FOUND	Bureau Details are not provided
CBS_BR_DTLS_NOT_MNT	Bureau Details are not maintained for +{reqBureauProductType} (variable, value will be replaced at runtime from payload)
CDS-DML-006	Invalid range definition. Either range or value is allowed
CDS-DML-007	Duplicate $1 values are not allowed
CDS-DML-010	From value should not be greater than To value
CDS-RUL-001	Error occurred while evaluating the rule
CDS-RUL-003	Effective date should be less than Expiry Date
CDS-RUL-006	Effective date should be less than the Expiry Date
CDS-DML-003	Effective date should be less than Expiry Date
CDS-PRC-006	Effective date should be less than the Expiry Date
CDS-DML-002	Maintain at least one record in $1
CDS-DML-014	Effective date cannot be less than the Product Processor Effective date.

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Table A-1 (Cont.) Error Codes and Messages

Error Codes	Messages
CDS-PRC-014	Effective date cannot be less than the Product Processor Effective Date.
CDS-DML-017	if dmlAppEnabledInd is selected as N then dmlFeature can not be null
CDS-DML-018	if dmlAppEnabledInd is selected as y then dmlScoreRuleId can not be null
CDS-DML-022	Input parameter is missing or incorrect. Unable to resolve any scoring model
CDS-DML-0223	Input parameter is missing or incorrect. Unable to calculate the score
CDS-DML-013	Invalid product processor
CDS-PRC-011	Incorrect Range Definition. Range definition should be continuous in $1
CDS-PRC-012	Duplicate $1 values are not allowed
CDS-PRC-015	Product Processor is not authorized
CDS-DML-011	Incorrect Range Definition. Range definition should be continuous
CDS-DML-012	Input parameter is missing or incorrect. Unable to resolve any pricing setup
CDS-QFT-001	if qftRuleApplicableInd is selected as y then qftRuleName and qftRuleId cannot be null
CDS-QFT-002	if qftRuleApplicableInd is selected as N then qftFactName and qftFactId cannot be null
CDS-QFT-005	qftCode cannot be other than alphanumeric
CDS-QFT-004	Fact or rule not found
CDS-DML-008	Invalid rule name
CDS-PRC-0010	Fact or rule not found
CDS-PRC-007	Pricing Rate definition should be greater than or equal to minimum rate and less than or equal to maximum rate
CDS-PRC-009	rate percentage of range cannot be equal to zero or less than the previous one
CDS-PRC-005	$1 should be equal to or greater than the System date
CDS-PRC-0010	Invalid product processor
CDS-PRC-004	Maintain at least one record $1
CDS-PRC-001	Min Rate cannot be less than zero or not be more than max rate
CDS-PRC-003	Overlapping price range definition not allowed $1
CDS-PRC-002	Rate Type cannot any other keyword
CDS-PRC-008	$1 cannot be less than or equal to zero
CDS-DML-009	Unable to resolve any scoring model
CDS-PPR-001	$1 should be equal to or greater than the System date
CDS-DML-005	Overlapping range definition not allowed in $1
CDS-QFT-003	Invalid product processor
CDS-DML-001	$1 should be equal to or greater than the Posting date
CDS-DML-019	Unable to resolve the best fit scoring model. Multiple scoring model resolved
CDS-DML-016	Unable to resolve the best fit pricing model. Multiple pricing model resolved
CDS-DML-004	The sum of weightage assigned to the feature code should be 100
CDS-PPR-002	Effective date should be less than Expiry Date
CDS-PRC-013	Rate definition should be greater than or equal to minimum rate and less than or equal to maximum rate
CDS-DML-020	Unable to resolve the best fit application scoring model Multiple application scoring model resolved
CDS-DML-021	Unable to resolve the best fit decision and grade matrix. Multiple decision and grade matrix resolved

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Table A-1 (Cont.) Error Codes and Messages

Error Codes	Messages
CDS-BWC-001	$1 should be equal to or greater than the System date
CDS-BWC-002	Maintain at least one record in $1
CDS-BWC-003	Effective date should be less than the Expiry Date
CDS-BWC-014	Effective date cannot be less than the Product Processor Effective date
CDS-STG-006	Effective Date cannot be null or blank
CDS-STG-007	Expiry Date cannot be null or blank
CDS-STG-008	Industry cannot be null or blank
CDS-STG-009	Module cannot be null or blank
CDS-STG-010	Line of Business cannot be null or blank
CDS-STG-011	Effective date should be less than the Expiry Date
CDS-STG-012	Expiry Date should be equal to or greater then the System date
CDS-STG-013	Invalid Strategy Code
CDS-STG-014	Invalid Industry
CDS-STG-015	Invalid Module
CDS-STG-016	Invalid Line of Business
CDS-STG-017	Invalid product processor
CDS-STG-018	Invalid Account Category
CDS-STG-019	Invalid modes for the selected module
CDS-STG-020	Invalid combination of steps for selected modes
CDS-STG-021	Record already exists
CDS-STG-022	Effective date cannot be less than the Product Processor Effective Date
CDS-RUL-002	Fact already exists
CDS-STG-023	Invalid combination of modes and steps
CDS-DML-040	FeatureDTO missing. Kindly enter the details
CDS-LML-029	Logical Model Reason Code is Invalid
CDS-DML-024	Negative values not allowed
CDS-DML-025	Category not allowed in case of multi applicant scoring model
CDS-DML-026	Percentage cannot be greater than 100
CDS-DML-027	For multi-applicant max value not allowed
CDS-DML-028	Max value not required for range type Value
CDS-DML-029	Range type cannot be null
CDS-DML-030	Max value cannot be null
CDS-DML-031	Please enter a valid scoring model type
CDS-DML-032	Please enter a valid range type
CDS-DML-033	Feature list not required for application model
CDS-DML-034	Scoring rule id not required for the scoring model type
CDS-DML-035	Please enter a valid feature type
CDS-DML-036	Only range Type Value is allowed, for fact type feature
CDS-DML-037	Only range Type ParamPercent is allowed, for rule based feature
CDS-DML-038	Only range Type Value is allowed, for Text type fact
CDS-DML-039	Category code missing
CDS-LML-015	Logical Model Code size must be between 1 and 30
CDS-LML-016	Logical Model Description size must be between 1 and 240

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Table A-1 (Cont.) Error Codes and Messages

Error Codes	Messages
CDS-LML-017	Logical Model Effective Date cannot be null
CDS-LML-018	Logical Model Expiry Date cannot be null
CDS-LML-019	Logical Model Rule Id size must be between 1 and 80
CDS-LML-020	Logical Model Details Rule Id cannot be null
CDS-LML-021	Reason Code cannot be null
CDS-LML-022	Logical Model comments size must be between 1 and 80
CDS-LML-023	Logical Model Sequence must be in the range of 1 to 999
CDS-LML-024	Logical Model Sequence is Incorrect
CDS-LML-025	Logical Model Priority must be in the range of 1 to 100
CDS-LML-026	Logical Model Details cannot be null or empty
CDS-LML-027	Rule Id cannot be duplicate
CDS-LML-028	Invalid Rule Id
CDS-QUR-001	Invalid Input for QuestionnaireId, can not be null or blank
CDS-QUR-002	Invalid Input for QuestionnaireId, null or blank required
CDS-QUR-003	Invalid Input for QuestionId, null or blank required
CDS-QUR-004	Invalid Input for QuestionId, can not be null or blank
CDS-QUR-005	Questionnaire Code cannot be null or empty
CDS-QUR-006	Questionnaire Description cannot be null or empty
CDS-QUR-007	Product Processor cannot be null or empty
CDS-QUR-008	Question Code cannot be null or empty
CDS-QUR-009	Question Short Name cannot be null or empty
CDS-QUR-010	Question Description cannot be null or empty
CDS-QUR-011	Question Type cannot be null or empty
CDS-QUR-012	Answer Description cannot be null or empty
CDS-QUR-013	Questionnaire Code size must be between 1 and 30
CDS-QUR-014	Questionnaire Description size must be between 1 and 240
CDS-QUR-015	Question Code cannot be duplicate for a product processor
CDS-QUR-016	Question Sequence Number cannot be null, empty or zero, negetive
CDS-QUR-017	Answer Option Sequence Number cannot be null, empty or zero, negetive
CDS-QUR-018	Question Sequence Number cannot be duplicate for a questionnaire
CDS-QUR-019	Answer Option Sequence Number cannot be duplicate for a Question
CDS-QUR-020	Answer OptionId cannot be null or empty
CDS-QUR-021	Answer OptionId cannot be duplicate for a question
CDS-BWC-004	Incorrect execution stage
CDS-BWC-005	$1 fact or rule not found
CDS-QUR-022	Input for whether Question Mandatory cannot be null or empty
CDS-QUR-023	System will not allow to add questions where response choice has not been captured,At least 2 record should be available
CDS-QUR-024	System will not allow to save the questionnaire without any question configured, Atleast 1 question should be configured in the questionnaire
CDS-QUR-025	Question Code cannot be duplicate for a questionnaire.
CDS-STG-024	Invalid type and value for additional info
CDS-STG-025	Selection of atleast 1 mode is mandatory

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Table A-1 (Cont.) Error Codes and Messages

Error Codes	Messages
CDS-STG-026	Effective date cannot be updated after authorisation
CDS-STG-027	Multiple values of same type are not allowed under Additional Information
CDS-LOOKUP-001	Lookup Type must be alphanumeric
CDS-LOOKUP-002	Lookup Type must be between 1 and 30
CDS-LOOKUP-003	Lookup Description must be between 1 and 240
CDS-LOOKUP-004	Duplicate lookup codes not allowed
CMC-GL-002	$1 is a invalid GL Codes
CMC-GL-003	$1 is a invalid Job Name
CMC-GL-004	GL hand off job is already running for branch $1
CMC-GL-005	IB Entries are present for branch $1, cannot initiate job
CMC-GL-006	Unbalanced Entries are present for branch $1, cannot initiate job
CMC-GL-007	GL handOff job started successfully
CMC-GL-008	branch code is required
CMC-GL-009	Blocked GL cannot be used
CMC-GL-010	Special character not allowed, GL code should be alphanumeric
CMC-GL-012	Log Scheduler Frequency is not a valid number
CMC-GL-013	Log Scheduler Frequency is not between 1 minute(60000) to 30 minutes(1800000)
CMC-GL-014	Log Scheduler Frequency is not in increments of 1 minute
CMC-GL-011	Job is already completed, cannot retry $1
CMC-GL-MIS-001	Generic Error, Failed to persist $1 MIS Linkage
CMC-GL-MIS-002	This combination already exist for customer MIS,, customer: $1, effectiveDate: $2
CMC-GL-MIS-003	This combination already exist for transaction MIS, unitRefNo: $1, branchCode: $2, unitType: $3, effectiveDate: $4
CMC-GL-MIS-004	Invalid unitType: $1

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B

Functional Activity Codes

Table B-1 List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
External Chart of Accounts	CMC_FA_EXT_CHART_ACC_NEW	CREATE	Create External Chart of Accounts
External Chart of Accounts	CMC_FA_EXT_CHART_ACC_AMEND	UNLOCK	Modify External Chart of Accounts
External Chart of Accounts	CMC_FA_EXT_CHART_ACC_AUTHORIZE	AUTHORIZE	Authorize External Chart of Accounts
External Chart of Accounts	CMC_FA_EXT_CHART_ACC_CLOSE	CLOSE	Close External Chart of Accounts
External Chart of Accounts	CMC_FA_EXT_CHART_ACC_DELETE	DELETE	Delete External Chart of Accounts
External Chart of Accounts	CMC_FA_EXT_CHART_ACC_VIEW	VIEW	View External Chart of Accounts
External Chart of Accounts	CMC_FA_EXT_CHART_ACC_REOPEN	REOPEN	Reopen External Chart of Accounts
MIS Class	CMC_FA_MIS_CLASS_NEW	CREATE	Create MIS Class
MIS Class	CMC_FA_MIS_CLASS_AMEND	UNLOCK	Modify MIS Class
MIS Class	CMC_FA_MIS_CLASS_AUTHORIZE	AUTHORIZE	Authorize MIS Class
MIS Class	CMC_FA_MIS_CLASS_CLOSE	CLOSE	Close MIS Class
MIS Class	CMC_FA_MIS_CLASS_DELETE	DELETE	Delete MIS Class
MIS Class	CMC_FA_MIS_CLASS_REOPEN	REOPEN	Reopen MIS Class
MIS Class	CMC_FA_MIS_CLASS_VIEW	VIEW	View MIS Class
MIS Group	CMC_FA_MIS_GROUP_NEW	CREATE	Create MIS Group
MIS Group	CMC_FA_MIS_GROUP_AMEND	UNLOCK	Modify MIS Group
MIS Group	CMC_FA_MIS_GROUP_AUTHORIZE	AUTHORIZE	Authorize MIS Group
MIS Group	CMC_FA_MIS_GROUP_DELETE	DELETE	Delete MIS Group
MIS Group	CMC_FA_MIS_GROUP_CLOSE	CLOSE	Close MIS Group

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Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
MIS Group	CMC_FA_MIS_GROUP_REOPEN	REOPEN	Reopen MIS Group
MIS Group	CMC_FA_MIS_GROUP_VIEW	VIEW	View MIS Group
Pricing Source System	CMC_FA_PRC_SRC_SYS_SAVE	CREATE	Create Pricing Source
Pricing Source System	CMC_FA_PRC_SRC_SYS_MODIFY	UNLOCK	Modify Pricing Source
Pricing Source System	CMC_FA_PRC_SRC_SYS_AUTH	AUTHORIZE	Authorize Pricing Source
Pricing Source System	CMC_FA_PRC_SRC_SYS_DELETE	DELETE	Delete Pricing Source
Pricing Source System	CMC_FA_PRC_SRC_SYS_CLOSE	CLOSE	Close Pricing Source
Pricing Source System	CMC_FA_PRC_SRC_SYS_REOPEN	REOPEN	Reopen Pricing Source
Pricing Source System	CMC_FA_PRC_SRC_SYS_GETBYID	VIEW	View Pricing Source
Transaction Code	CMC_FA_TRN_CODE_CREATE	CREATE	Create Transaction Code
Transaction Code	CMC_FA_TRN_CODE_MODIFY	UNLOCK	Modify Transaction Code
Transaction Code	CMC_FA_TRN_CODE_AUTHORIZE	AUTHORIZE	Authorize Transaction Code
Transaction Code	CMC_FA_TRN_CODE_DELETE	DELETE	Delete Transaction Code
Transaction Code	CMC_FA_TRN_CODE_CLOSE	CLOSE	Close Transaction Code
Transaction Code	CMC_FA_TRN_CODE_REOPEN	REOPEN	Reopen Transaction Code
Transaction Code	CMC_FA_TRN_CODE_VIEW	VIEW	View Transaction Code
Resource Class	CMC_FA_RESOURCE_CLASS_AMEND	UNLOCK	Modify Resource Class
Resource Class	CMC_FA_RESOURCE_CLASS_AUTHORIZE	AUTHORIZE	Authorize Resource Class
Resource Class	CMC_FA_RESOURCE_CLASS_AUTHQUERY	VIEW	Get all unauthorized records
Resource Class	CMC_FA_RESOURCE_CLASS_CLOSE	CLOSE	Close Resource Class
Resource Class	CMC_FA_RESOURCE_CLASS_DELETE	DELETE	Delete Resource Class

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Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
Resource Class	CMC_FA_RESOURCE_CLASS_REOPEN	REOPEN	Reopen Resource Class
Resource Class	CMC_FA_RESOURCE_CLASS_NEW	NEW	Create new Resource Class
Resource Class	CMC_FA_RESOURCE_CLASS_VIEW	VIEW	View Resource Class
Resource Class	CMC_FA_RESOURCE_CLASS_VIEWALL	VIEW	View All Resource Class
cmc-resource-segment-orchestrator (API)	CMC_FA_ORCHESTRATOR_CON_JSON	VIEW	Orchestrator Con Json
cmc-resource-segment-orchestrator (API)	CMC_FA_ORCHESTRATOR_INITIATE	INITIATE	Orchestrator Initiate
cmc-resource-segment-orchestrator (API)	CMC_FA_ORCHESTRATOR_INITIATE_EXIST_TXN	INITIATE	Orchestrator Initiate Exist Transaction
cmc-resource-segment-orchestrator (API)	CMC_FA_ORCHESTRATOR_SUBMIT	NEW	Orchestrator Submit
Borrowing Capacity	CMC_OBCDS_FA_BWC_ACTIONS	ACTION	Action Borrowing Capacity
Borrowing Capacity	CMC_OBCDS_FA_BWC_AMEND	UNLOCK	Modify Borrowing Capacity
Borrowing Capacity	CMC_OBCDS_FA_BWC_AUTHORIZE	AUTHORIZE	Authorize Borrowing Capacity
Borrowing Capacity	CMC_OBCDS_FA_BWC_AUTHQUERY	AUTHORIZE QUERY	Authorize query Borrowing Capacity
Borrowing Capacity	CMC_OBCDS_FA_BWC_CLOSE	CLOSE	Close Borrowing Capacity
Borrowing Capacity	CMC_OBCDS_FA_BWC_DELETE	DELETE	Delete Borrowing Capacity
Borrowing Capacity	CMC_OBCDS_FA_BWC_HISTORY	HISTORY	History Borrowing Capacity
Borrowing Capacity	CMC_OBCDS_FA_BWC_NEW	CREATE	Create Borrowing Capacity
Borrowing Capacity	CMC_OBCDS_FA_BWC_REOPEN	REOPEN	Reopen Borrowing Capacity
Borrowing Capacity	CMC_OBCDS_FA_BWC_VALIDATE_LOV	VALIDATE LOV	Validate Lov Borrowing Capacity
Borrowing Capacity	CMC_OBCDS_FA_BWC_VIEW	VIEW	View Borrowing Capacity

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Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
Borrowing Capacity	CMC_OBCDS_FA_BWC_VIEWALL	VIEW ALL	View all Borrowing Capacity
Borrowing Capacity	CMC_OBCDS_FA_BWC_VIEWCHANGES	VIEWCHANGES	Viewchanges Borrowing Capacity
Counter	CMC_OBCDS_FA_COUNTERCONFIG_AMEND	UNLOCK	Unlock Counter
Counter	CMC_OBCDS_FA_COUNTERCONFIG_AUTHORIZE	AUTHORIZE	Authorize Counter
Counter	CMC_OBCDS_FA_COUNTERCONFIG_AUTHQUERY	AUTHQUERY	Authorize query Counter
Counter	CMC_OBCDS_FA_COUNTERCONFIG_CLOSE	CLOSE	Close Counter
Counter	CMC_OBCDS_FA_COUNTERCONFIG_DELETE	DELETE	Delete Counter
Counter	CMC_OBCDS_FA_COUNTERCONFIG_HISTORY	HISTORY	History Counter
Counter	CMC_OBCDS_FA_COUNTERCONFIG_NEW	CREATE	Create Counter
Counter	CMC_OBCDS_FA_COUNTERCONFIG_REJECT	REJECT	Reject Counter
Counter	CMC_OBCDS_FA_COUNTERCONFIG_REOPEN	REOPEN	Reopen Counter
Counter	CMC_OBCDS_FA_COUNTERCONFIG_VALIDATE_LOV	VALIDATE LOV	Validate Lov Counter
Counter	CMC_OBCDS_FA_COUNTERCONFIG_VIEW	VIEW	View Counter
Counter	CMC_OBCDS_FA_COUNTERCONFIG_VIEWALL	VIEW ALL	View All Counter
Counter	CMC_OBCDS_FA_COUNTERCONFIG_VIEWCHANGES	VIEWCHANGES	Viewchanges Counter
Product Processor	CMC_OBCDS_FA_PPR_ACTIONS	ACTION	Action Product Processor
Product Processor	CMC_OBCDS_FA_PPR_AMEND	UNLOCK	Unlock Product Processor
Product Processor	CMC_OBCDS_FA_PPR_AUTHORIZE	AUTHORIZE	Authorize Product Processor
Product Processor	CMC_OBCDS_FA_PPR_AUTHQUERY	AUTHQUERY	Authorize query Product Processor
Product Processor	CMC_OBCDS_FA_PPR_CLOSE	CLOSE	Close Product Processor
Product Processor	CMC_OBCDS_FA_PPR_DELETE	DELETE	Delete Product Processor
Product Processor	CMC_OBCDS_FA_PPR_HISTORY	HISTORY	History Product Processor
Product Processor	CMC_OBCDS_FA_PPR_NEW	CREATE	Create Product Processor
Product Processor	CMC_OBCDS_FA_PPR_REOPEN	REOPEN	Reopen Product Processor

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Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
Product Processor	CMC_OBCDS_FA_PPR_VALIDATE_LOV	VALIDATE LOV	Validate Lov Product Processor
Product Processor	CMC_OBCDS_FA_PPR_VIEW	VIEW	View Product Processor
Product Processor	CMC_OBCDS_FA_PPR_VIEWALL	VIEW ALL	View All Product Processor
Product Processor	CMC_OBCDS_FA_PPR_VIEWCHANGES	VIEWCHANGES	Viewchanges Product Processor
Pricing Model	CMC_OBCDS_FA_PRC_ACTIONS	ACTION	Action Pricing Model
Pricing Model	CMC_OBCDS_FA_PRC_AMEND	UNLOCK	Unlock Pricing Model
Pricing Model	CMC_OBCDS_FA_PRC_AUTHORIZE	AUTHORIZE	Authorize Pricing Model
Pricing Model	CMC_OBCDS_FA_PRC_AUTHQUERY	AUTHQUERY	Authorize query Pricing Model
Pricing Model	CMC_OBCDS_FA_PRC_CLOSE	CLOSE	Close Pricing Model
Pricing Model	CMC_OBCDS_FA_PRC_DELETE	DELETE	Delete Pricing Model
Pricing Model	CMC_OBCDS_FA_PRC_HISTORY	HISTORY	History Pricing Model
Pricing Model	CMC_OBCDS_FA_PRC_NEW	CREATE	Create Pricing Model
Pricing Model	CMC_OBCDS_FA_PRC_REOPEN	REOPEN	Reopen Pricing Model
Pricing Model	CMC_OBCDS_FA_PRC_VALIDATE_LOV	VALIDATE LOV	Validate Pricing Model LOV
Pricing Model	CMC_OBCDS_FA_PRC_VIEW	VIEW	View Pricing Model
Pricing Model	CMC_OBCDS_FA_PRC_VIEWALL	VIEWALL	Viewall Pricing Model
Pricing Model	CMC_OBCDS_FA_PRC_VIEWCHANGES	VIEWCHANGES	Viewchanges Pricing Model
Charge Code	CMC_OBCDS_FA_PRICING DETAILS_AMEND	UNLOCK	Unlock Charge Code
Charge Code	CMC_OBCDS_FA_PRICING DETAILS_AUTHORIZE	AUTHORIZE	Authorize Charge Code
Charge Code	CMC_OBCDS_FA_PRICING DETAILS_AUTHQUERY	AUTHQUERY	Authorize query Charge Code
Charge Code	CMC_OBCDS_FA_PRICING DETAILS_CLOSE	CLOSE	Close Charge Code
Charge Code	CMC_OBCDS_FA_PRICING DETAILS_DELETE	DELETE	Delete Charge Code
Charge Code	CMC_OBCDS_FA_PRICING DETAILS_GETBYCODE	GETBYCODE	Getbycode Charge Code
Charge Code	CMC_OBCDS_FA_PRICING DETAILS_HISTORY	HISTORY	History Charge Code

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Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
Charge Code	CMC_OBCDS_FA_PRICING DETAILS_NEW	CREATE	Create Charge Code
Charge Code	CMC_OBCDS_FA_PRICING DETAILS_REJECT	REJECT	Reject Charge Code
Charge Code	CMC_OBCDS_FA_PRICING DETAILS_REOPEN	REOPEN	Reopen Charge Code
Charge Code	CMC_OBCDS_FA_PRICING DETAILS_VALIDATE_LOV	VALIDATE LOV	Validate Charge Code LOV
Charge Code	CMC_OBCDS_FA_PRICING DETAILS_VIEW	VIEW	View Charge Code
Charge Code	CMC_OBCDS_FA_PRICING DETAILS_VIEWALL	VIEWALL	Viewall Charge Code
Charge Code	CMC_OBCDS_FA_PRICING DETAILS_VIEWCHANGES	VIEWCHANG ES	Viewchanges Charge Code
Charge Code	CMC_OBCDS_FA_GET_CH ARGES	GET CHARGES	Get Charges Charge Code
Scoring Feature	CMC_OBCDS_FA_QFT_ACT IONS	ACTION	Action Scoring Feature
Scoring Feature	CMC_OBCDS_FA_QFT_AM END	UNLOCK	Unlock Scoring Feature
Scoring Feature	CMC_OBCDS_FA_QFT_AUT HORIZE	AUTHORIZE	Authorize Scoring Feature
Scoring Feature	CMC_OBCDS_FA_QFT_AUT HQUERY	AUTHQUERY	Authorize Query Scoring Feature
Scoring Feature	CMC_OBCDS_FA_QFT_CLO SE	CLOSE	Close Scoring Feature
Scoring Feature	CMC_OBCDS_FA_QFT_DEL ETE	DELETE	Delete Scoring Feature
Scoring Feature	CMC_OBCDS_FA_QFT_HIS TORY	HISTORY	History Scoring Feature
Scoring Feature	CMC_OBCDS_FA_QFT_NE W	CREATE	Create Scoring Feature
Scoring Feature	CMC_OBCDS_FA_QFT_RE OPEN	REOPEN	Reopen Scoring Feature
Scoring Feature	CMC_OBCDS_FA_QFT_VALI DATE_LOV	VALIDATE LOV	Validate Scoring Feature LOV
Scoring Feature	CMC_OBCDS_FA_QFT_VIE W	VIEW	View Scoring Feature
Scoring Feature	CMC_OBCDS_FA_QFT_VIE WALL	VIEWALL	Viewall Scoring Feature
Scoring Feature	CMC_OBCDS_FA_QFT_VIE WCHANGES	VIEWCHANG ES	Viewchanges Scoring Feature
Qualitative Scoring Model	CMC_OBCDS_FA_QUAL_AC TIONS	ACTION	Action on Qualitative Scoring Model
Qualitative Scoring Model	CMC_OBCDS_FA_QUAL_A MEND	UNLOCK	Unlock Qualitative Scoring Model

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Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
Qualitative Scoring Model	CMC_OBCDS_FA_QUAL_AUTHORIZE	AUTHORIZE	Authorize Qualitative ScroringModel
Qualitative Scoring Model	CMC_OBCDS_FA_QUAL_AUTHQUERY	AUTHQUERY	Authorize query Qualitative ScroringModel
Qualitative Scoring Model	CMC_OBCDS_FA_QUAL_CLOSE	CLOSE	Close Qualitative ScroringModel
Qualitative Scoring Model	CMC_OBCDS_FA_QUAL_DELETE	DELETE	Delete Qualitative ScroringModel
Qualitative Scoring Model	CMC_OBCDS_FA_QUAL_HISTORY	HISTORY	History Qualitative ScroringModel
Qualitative Scoring Model	CMC_OBCDS_FA_QUAL_NEW	NEW	Create Qualitative ScroringModel
Qualitative Scoring Model	CMC_OBCDS_FA_QUAL_REOPEN	REOPEN	Reopen Qualitative ScroringModel
Qualitative Scoring Model	CMC_OBCDS_FA_QUAL_VALIDATE_LOV	VALIDATE LOV	Validate Qualitative ScroringModel LOV
Qualitative Scoring Model	CMC_OBCDS_FA_QUAL_VIEW	VIEW	View Qualitative ScroringModel
Qualitative Scoring Model	CMC_OBCDS_FA_QUAL_VIEWALL	VIEWALL	View all Qualitative ScroringModel
Qualitative Scoring Model	CMC_OBCDS_FA_QUAL_VIEWCHANGES	VIEW	View Qualitative ScroringModel
Questionnaire	CMC_OBCDS_FA_QUESTIONNAIRESEED_ACTIONS	ACTION	Action Questionnaireseed
Questionnaire	CMC_OBCDS_FA_QUESTIONNAIRESEED_AMEND	UNLOCK	Unlock Questionnaireseed
Questionnaire	CMC_OBCDS_FA_QUESTIONNAIRESEED_AUTHORIZE	AUTHORIZE	Authorize Questionnaireseed
Questionnaire	CMC_OBCDS_FA_QUESTIONNAIRESEED_AUTHQUERY	AUTHQUERY	Authorize query Questionnaireseed
Questionnaire	CMC_OBCDS_FA_QUESTIONNAIRESEED_CLOSE	CLOSE	Close Questionnaireseed
Questionnaire	CMC_OBCDS_FA_QUESTIONNAIRESEED_DELETE	DELETE	Delete Questionnaireseed
Questionnaire	CMC_OBCDS_FA_QUESTIONNAIRESEED_HISTORY	HISTORY	History Questionnaireseed
Questionnaire	CMC_OBCDS_FA_QUESTIONNAIRESEED_NEW	CREATE	Create Questionnaireseed
Questionnaire	CMC_OBCDS_FA_QUESTIONNAIRESEED_REOPEN	REOPEN	Reopen Questionnaireseed

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Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
Questionnaire	CMC_OBCDS_FA_QUESTIONNAIRESEED_VALIDATE_LOV	VALIDATE LOV	Validate Questionnaireseed LOV
Questionnaire	CMC_OBCDS_FA_QUESTIONNAIRESEED_VIEW	VIEW	View Questionnaireseed
Questionnaire	CMC_OBCDS_FA_QUESTIONNAIRESEED_VIEWALL	VIEW ALL	View All Questionnaireseed
Questionnaire	CMC_OBCDS_FA_QUESTIONNAIRESEED_VIEWCHANGES	VIEWCHANGES	Viewchanges Questionnaireseed
Questionnaire	CMC_OBCDS_FA_QUES_ACTIONS	ACTION	Action Questionnaire
Questionnaire	CMC_OBCDS_FA_QUES_AMEND	UNLOCK	Unlock Questionnaire
Questionnaire	CMC_OBCDS_FA_QUES_AUTHORIZE	AUTHORIZE	Authorize Questionnaire
Questionnaire	CMC_OBCDS_FA_QUES_AUTHQUERY	AUTHQUERY	Authquery Questionnaire
Questionnaire	CMC_OBCDS_FA_QUES_CLOSE	CLOSE	Close Questionnaire
Questionnaire	CMC_OBCDS_FA_QUES_DELETE	DELETE	Delete Questionnaire
Questionnaire	CMC_OBCDS_FA_QUES_DISPLAY	DISPLAY	Display Question Display
Questionnaire	CMC_OBCDS_FA_QUES_DISPLAY_DUMMY	DISPLAY	Display Question Display
Questionnaire	CMC_OBCDS_FA_QUES_HISTORY	HISTORY	History Questionnaire
Questionnaire	CMC_OBCDS_FA_QUES_NEW	CREATE	Create Questionnaire
Questionnaire	CMC_OBCDS_FA_QUES_REOPEN	REOPEN	Reopen Questionnaire
Questionnaire	CMC_OBCDS_FA_QUES_VALIDATEQUSCODE	VALIDATE	Validate Questionnaire
Questionnaire	CMC_OBCDS_FA_QUES_VALIDATE_LOV	VALIDATE LOV	Validate Questionnaire LOV
Questionnaire	CMC_OBCDS_FA_QUES_VIEW	VIEW	View Questionnaire
Questionnaire	CMC_OBCDS_FA_QUES_VIEWALL	VIEW ALL	View All Questionnaire
Questionnaire	CMC_OBCDS_FA_QUES_VIEWCHANGES	VIEWCHANGES	Viewchanges Questionnaire
Questionnaire	CMC_OBCDS_FA_QUES_VIEWPPR	VIEW PPR	View PPR Questionnaire
Questionnaire	CMC_OBCDS_FA_QUES_VIEWQURCODE	VIEW	View Questionnaire
Questionnaire	CMC_OBCDS_FA_FETCH_QUESTIONNAIRE	FETCH	Fetch Questionnaire

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Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
Questionnaire	CMC_OBCDS_FA_FETCH_QUEST_REG	FETCH	Fetch Questionnaire
Strategy Configuration	CMC_OBCDS_FA_STRATEGYCONFIG_ACTIONS	ACTION	Action Strategy Configuration
Strategy Configuration	CMC_OBCDS_FA_STRATEGYCONFIG_AMEND	UNLOCK	Unlock Strategy Configuration
Strategy Configuration	CMC_OBCDS_FA_STRATEGYCONFIG_AUTHORIZE	AUTHORIZE	Authorize Strategy Configuration
Strategy Configuration	CMC_OBCDS_FA_STRATEGYCONFIG_AUTHQUERY	AUTHQUERY	Authorize query Strategy Configuration
Strategy Configuration	CMC_OBCDS_FA_STRATEGYCONFIG_CLOSE	CLOSE	Close Strategy Configuration
Strategy Configuration	CMC_OBCDS_FA_STRATEGYCONFIG_DELETE	DELETE	Delete Strategy Configuration
Strategy Configuration	CMC_OBCDS_FA_STRATEGYCONFIG_HISTORY	HISTORY	History Strategy Configuration
Strategy Configuration	CMC_OBCDS_FA_STRATEGYCONFIG_NEW	CREATE	Create Strategy Configuration
Strategy Configuration	CMC_OBCDS_FA_STRATEGYCONFIG_REOPEN	REOPEN	Reopen Strategy Configuration
Strategy Configuration	CMC_OBCDS_FA_STRATEGYCONFIG_VALIDATE_LOV	VALIDATE LOV	Validate Strategy Configuration LOV
Strategy Configuration	CMC_OBCDS_FA_STRATEGYCONFIG_VIEW	VIEW	View Strategy Configuration
Strategy Configuration	CMC_OBCDS_FA_STRATEGYCONFIG_VIEWALL	VIEW ALL	View All Strategy Configuration
Strategy Configuration	CMC_OBCDS_FA_STRATEGYCONFIG_VIEWCHANGES	VIEWCHANGES	Viewchanges Strategy Configuration
View Execution Summary	CMC_OBCDS_FA_SERVICE_LOG_VIEWALL	VIEW ALL	View All View Execution Summary
View Execution Summary	CMC_OBCDS_FA_FETCH_CREDIT_DECISION	FETCH	Fetch View Execution Summary
Decision Grade Matrix	CMC_OBCDS_FA_DGM_ACTIONS	ACTION	Action Decision Grade Matrix
Decision Grade Matrix	CMC_OBCDS_FA_DGM_AMEND	UNLOCK	Unlock Decision Matrix
Decision Grade Matrix	CMC_OBCDS_FA_DGM_AUTHORIZE	AUTHORIZE	Authorize Decision Matrix

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Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
Decision Grade Matrix	CMC_OBCDS_FA_DGM_AUTHQUERY	AUTHQUERY	Authorize Query Decision Matrix
Decision Grade Matrix	CMC_OBCDS_FA_DGM_CLOSE	CLOSE	Close Decision Matrix
Decision Grade Matrix	CMC_OBCDS_FA_DGM_DELETE	DELETE	Delete Decision Matrix
Decision Grade Matrix	CMC_OBCDS_FA_DGM_HISTORY	HISTORY	History Decision Matrix
Decision Grade Matrix	CMC_OBCDS_FA_DGM_NEW	CREATE	Create Decision Matrix
Decision Grade Matrix	CMC_OBCDS_FA_DGM_REOPEN	REOPEN	Reopen Decision Matrix
Decision Grade Matrix	CMC_OBCDS_FA_DGM_VALIDATE_LOV	VALIDATE LOV	Validate Decision Matrix LOV
Decision Grade Matrix	CMC_OBCDS_FA_DGM_VIEW	VIEW	View Decision Matrix
Decision Grade Matrix	CMC_OBCDS_FA_DGM_VIEWALL	VIEW ALL	View All Decision Matrix
Decision Grade Matrix	CMC_OBCDS_FA_DGM_VIEWCHANGES	VIEWCHANGES	Viewchanges Decision Matrix
Quantitative Scoring Model	CMC_OBCDS_FA_DML_ACTIONS	ACTION	Action Quantitative Scoring Model
Quantitative Scoring Model	CMC_OBCDS_FA_DML_AMEND	UNLOCK	Unlock Qualitative Scoring Model
Quantitative Scoring Model	CMC_OBCDS_FA_DML_AUTHORIZE	AUTHORIZE	Authorize Qualitative ScroringModel
Quantitative Scoring Model	CMC_OBCDS_FA_DML_AUTHQUERY	AUTHQUERY	Authorize query Qualitative ScroringModel
Quantitative Scoring Model	CMC_OBCDS_FA_DML_CLOSE	CLOSE	Close Qualitative ScroringModel
Quantitative Scoring Model	CMC_OBCDS_FA_DML_DELETE	DELETE	Delete Qualitative ScroringModel
Quantitative Scoring Model	CMC_OBCDS_FA_DML_HISTORY	HISTORY	History Qualitative ScroringModel
Quantitative Scoring Model	CMC_OBCDS_FA_DML_NEW	CREATE	CreateQualitative ScroringModel
Quantitative Scoring Model	CMC_OBCDS_FA_DML_REOPEN	REOPEN	Reopen Qualitative ScroringModel
Quantitative Scoring Model	CMC_OBCDS_FA_DML_VALIDATE_LOV	VALIDATE LOV	Validate Qualitative ScroringModel LOV

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Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
Quantitative Scoring Model	CMC_OBCDS_FA_DML_VIEW	VIEW	View Qualitative ScroringModel
Quantitative Scoring Model	CMC_OBCDS_FA_DML_VIEWALL	VIEW ALL	View All Qualitative ScroringModel
Quantitative Scoring Model	CMC_OBCDS_FA_DML_VIEWCHANGES	VIEWCHANGES	Viewchanges Qualitative ScroringModel
Validation Model	CMC_OBCDS_FA_LML_ACTIONS	ACTION	Action Validation Model
Validation Model	CMC_OBCDS_FA_LML_AMEND	UNLOCK	Unlock Validation Model
Validation Model	CMC_OBCDS_FA_LML_AUTHORIZE	AUTHORIZE	Authorize Validation Model
Validation Model	CMC_OBCDS_FA_LML_AUTHQUERY	AUTHQUERY	Authorize query Validation Model
Validation Model	CMC_OBCDS_FA_LML_CLOSE	CLOSE	Close Validation Model
Validation Model	CMC_OBCDS_FA_LML_DELETE	DELETE	Delete Validation Model
Validation Model	CMC_OBCDS_FA_LML_HISTORY	HISTORY	History Validation Model
Validation Model	CMC_OBCDS_FA_LML_NEW	CREATE	Create Validation Model
Validation Model	CMC_OBCDS_FA_LML_REOPEN	REOPEN	Reopen Validation Model
Validation Model	CMC_OBCDS_FA_LML_VALIDATE_LOV	VALIDATE LOV	Validate Validation Model LOV
Validation Model	CMC_OBCDS_FA_LML_VIEW	VIEW	View Validation Model
Validation Model	CMC_OBCDS_FA_LML_VIEWALL	VIEW ALL	View all Validation Model
Validation Model	CMC_OBCDS_FA_LML_VIEWCHANGES	VIEWCHANGES	Viewchanges Validation Model
Lookup	CMC_OBCDS_FA_LOOKUPS_ACTIONS	ACTION	Action Lookup
Lookup	CMC_OBCDS_FA_LOOKUPS_AMEND	UNLOCK	Unlock Lookup
Lookup	CMC_OBCDS_FA_LOOKUPS_AUTHORIZE	AUTHORIZE	Authorize Lookup
Lookup	CMC_OBCDS_FA_LOOKUPS_AUTHQUERY	AUTHQUERY	Authorize query Lookup
Lookup	CMC_OBCDS_FA_LOOKUPS_CLOSE	CLOSE	Close Lookup
Lookup	CMC_OBCDS_FA_LOOKUPS_CODE_VIEW	CODE VIEW	Code View Lookup
Lookup	CMC_OBCDS_FA_LOOKUPS_DELETE	DELETE	Delete Lookup

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Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
Lookup	CMC_OBCDS_FA_LOOKUPS_HISTORY	HISTORY	History Lookup
Lookup	CMC_OBCDS_FA_LOOKUPS_NEW	CREATE	Create Lookup
Lookup	CMC_OBCDS_FA_LOOKUPS_REOPEN	REOPEN	Reopen Lookup
Lookup	CMC_OBCDS_FA_LOOKUPS_VALIDATE_LOV	VALIDATE LOV	Validate Lov Lookup
Lookup	CMC_OBCDS_FA_LOOKUPS_VIEW	VIEW	View Lookup
Lookup	CMC_OBCDS_FA_LOOKUPS_VIEWALL	VIEW ALL	View All Lookup
Lookup	CMC_OBCDS_FA_LOOKUPS_VIEWCHANGES	VIEWCHANGES	Viewchanges Lookup
System Parameter	CMC_OBCDS_FA_PMT_ACTIONS	ACTION	Action System Parameter
System Parameter	CMC_OBCDS_FA_PMT_AMEND	UNLOCK	Unlock System Parameter
System Parameter	CMC_OBCDS_FA_PMT_AUTHORIZE	AUTHORIZE	Authorize System Parameter
System Parameter	CMC_OBCDS_FA_PMT_AUTHQUERY	AUTHQUERY	Authorize query System Parameter
System Parameter	CMC_OBCDS_FA_PMT_CLOSE	CLOSE	Close System Parameter
System Parameter	CMC_OBCDS_FA_PMT_DELETE	DELETE	Delete System Parameter
System Parameter	CMC_OBCDS_FA_PMT_HISTORY	HISTORY	History System Parameter
System Parameter	CMC_OBCDS_FA_PMT_NEW	CREATE	Create System Parameter
System Parameter	CMC_OBCDS_FA_PMT_REOPEN	REOPEN	Reopen System Parameter
System Parameter	CMC_OBCDS_FA_PMT_VALIDATE_LOV	VALIDATE LOV	Validate System Parameter LOV
System Parameter	CMC_OBCDS_FA_PMT_VIEW	VIEW	View System Parameter
System Parameter	CMC_OBCDS_FA_PMT_VIEWALL	VIEW ALL	View All System Parameter
System Parameter	CMC_OBCDS_FA_PMT_VIEWCHANGES	VIEWCHANGES	Viewchanges System Parameter
cmc-charges-calculation-services (API)	CMC_FA_GET_PRC_METHODS	GETPRCMETHODS	Provides all pricing categories

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Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
cmc-charges-calculation-services (API)	CMC_FA_PRC_CATEGORY	GETPRCCATEGORY	Provides Price Methods for Given Price Category
cmc-charges-calculation-services (API)	CMC_FA_CHG_CALCULATE_CHARGES	GETCHARGES	Performs Charge Calculation
cmc-charges-calculation-services (API)	CMC_FA_PRC_SRC_SYS_GETBYID	GETBYRESOURCEID	Retrieves the Datasegment Deatils by ResourceID
cmc-charges-calculation-services (API)	CMC_FA_PRC_SRC_SYS_ACTIONS	GETPERMITTEDACTIONSONRES	Provides Action for Resource ID.
cmc-charges-calculation-services (API)	CMC_FA_PRC_SRC_SYS_AGGREGATE	GETRESOURCEAGGREGATE	Get Aggregate Details of the Resource
cmc-charges-calculation-services (API)	CMC_FA_PRC_SRC_SYS_HISTORY	GETRESOURCEHISTORY	Retrieves the History by Given Resource ID
cmc-charges-calculation-services (API)	CMC_FA_PRC_SRC_SYS_GETALL	GETSUMMARY	Get all Valid Master Datasegment Details
cmc-charges-calculation-services (API)	CMC_FA_PRC_SRC_SYS_GET_UNAUTH	GETUNAUTHRESOURCE	Retrieves the Unauthorized Resource by Given Resource ID
cmc-charges-calculation-services (API)	CMC_FA_PRC_SRC_SYS_UNLOCK	REMOVERESOURCELOCK	Removes the Advisory Lock on the Resource
cmc-charges-calculation-services (API)	CMC_FA_PRC_SRC_SYS_SUBMIT	SUBMITRESOURCE	Submit for the Resource
cmc-charges-calculation-services (API)	CMC_FA_PRC_SRC_SYS_ISVALID	VALIDATERESOURCE	Validates the Resource by Resource ID

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Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
Price Rule	CMC_FA_CHARGERULE_AUTHORIZE_RESOURCE	AUTHORIZERESOURCE	Authorize the Price Rule with given Resource ID
Price Rule	CMC_FA_CHARGERULE_CLOSE	CLOSERESOURCE	Closes the Price Rule with given Resource ID
Price Rule	CMC_FA_CHARGERULE_CREATE_RESOURCE	CREATERESOURCE	Creates New Price Rule
Price Rule	CMC_FA_CHARGERULE_DELETE_RESOURCE	DELETERESOURCE	Deletes the Price Rule Record for Given Resource ID
Price Rule	CMC_FA_CHARGERULE_GET_BY_RESOURCEID	GETBYRESOURCEID	Provides Price Rule for given Resource ID
Price Rule	CMC_FA_CHARGERULE_ACTION	GETPERMITTEDACTIONSONRES	Provides all Applicable Actions for Price Rule of given Resource ID
Price Rule	CMC_FA_CHARGERULE_RESOURCE_AGGREGATE	GETRESOURCEAGGREGATE	Get Aggregate Details of the Price Rule
Price Rule	CMC_FA_CHARGERULE_RESOURCE_HISTORY	GETRESOURCEHISTORY	Retrieves the History for Price Rule with given Resource ID
Price Rule	CMC_FA_CHARGERULE_SUMMARY	GETSUMMARY	Get all Price Rules Details
Price Rule	CMC_FA_CHARGERULE_UNAUTHORIZE_RESOURCE	GETUNAUTHRESOURCE	Retrieves the Unauthorized Price Rule for given Resource ID
Price Rule	CMC_FA_CHARGERULE_AUTHORIZE_RESOURCE	REJECTRESOURCE	Rejects the Resource by given Resource ID
Price Rule	CMC_FA_CHARGERULE_REMOVE_RESOURCE_LOCK	REMOVERESOURCELOCK	Unlocks the Price Rule with given Resource ID
Price Rule	CMC_FA_CHARGERULE_REOPEN_RESOURCE	REOPENRESOURCE	Reopens the Price Rule with given Resource ID
Price Rule	CMC_FA_CHARGERULE_SUBMIT_RESOURCE	SUBMITRESOURCE	Submits the Price Rule for Provided Resource ID
Price Rule	CMC_FA_CHARGERULE_UPDATE_RESOURCE	UPDATERESOURCE	Updates Existing Price Rule
Price Rule	CMC_FA_CHARGERULE_VALIDATE_RESOURCE	VALIDATERESOURCE	Validates the Price Rule with Provided Resource ID
cmc-transactioncontroller-services (API)	CMC_FA_TXN_CONTROLLER_GET_ADVICE	GETEVENTADVICETYPESUMMARY	Get the Event Advice Type Summary Filtered from Transaction Controller Details for the Specified Event
cmc-transactioncontroller-services (API)	CMC_FA_TXN_CONTROLLER_GET_CHECKLIST	GETEVENTCHECKLISTSUMMARY	Get the Event CheckList Summary Filtered from Transaction Controller Details for the Specified Event
cmc-transactioncontroller-services (API)	CMC_FA_TXN_CONTROLLER_GET_CLAUSE	GETEVENTCLAUSESUMMARY	Get the Event Clauses Summary Filtered from Transaction Controller Details for the Specified Event

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Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
cmc-transactioncontroller-services (API)	CMC_FA_TXN_CONTROLLER_GET_DATASEGMENT	GETEVENTDATASEGMENTSUMMARY	Get the Event DataSegment Summary Filtered from Transaction Controller Details for the Specified Event
cmc-transactioncontroller-services (API)	CMC_FA_TXN_CONTROLLER_GET_DOCUMENT	GETEVENTDOCUMENTSUMMARY	Get the Event Document Summary Filtered from Transaction Controller Details for the Specified Event
cmc-transactioncontroller-services (API)	CMC_FA_TXN_CONTROLLER_GET	GETTRANSACTIONCONTROLLERS	Get the Complete Transaction Controller Details for the Given Query Params
cmc-transactioncontroller-services (API)	CMC_FA_TXN_CONTROLLER_NEW	SAVETRANSACTIONCONTROLLER	Based on the businessProcessCode, fetches the event and datasegment details and posts it into the TransactionController table.
cmc-transactioncontroller-services (API)	CMC_FA_TXN_CONTROLLER_PUT_DATASEGMENT	UPDATEDATASEGMENTSTATUS	For the specified referenceNumber, update status to COMPLETE/INCOMPLETE/WIP for specified data segment in TransactionController
cmc-transactioncontroller-services (API)	CMC_FA_TXN_CONTROLLER_PUT_ADVICE	UPDATEEVENTADVICETYPESTATUS	For the specified reference Number and event, update status to COMPLETE/INCOMPLETE/WIP for specified advice Type in Transaction Controller
cmc-transactioncontroller-services (API)	CMC_FA_TXN_CONTROLLER_PUT_CHECKLIST	UPDATEEVENTALLCHECKLISTSTATUS	For the specified reference Number and event, update status to COMPLETE/INCOMPLETE/WIP for specified check List in TransactionController
cmc-transactioncontroller-services (API)	CMC_FA_TXN_CONTROLLER_PUT_EVENT	UPDATEEVENTALLDATASEGMENTSTATUS	For the specified reference Number and event, update status to COMPLETE/INCOMPLETE/WIP for all data segments in TransactionController
cmc-transactioncontroller-services (API)	CMC_FA_TXN_CONTROLLER_PUT_CHECKLIST	UPDATEEVENTCHECKLISTSTATUS	For the specified reference Number and event, update status to COMPLETE/INCOMPLETE/WIP for specified check List in TransactionController
cmc-transactioncontroller-services (API)	CMC_FA_TXN_CONTROLLER_PUT_CLAUSE	UPDATEEVENTCLAUSESTATUS	For the specified reference Number and event, update status to COMPLETE/INCOMPLETE/WIP for specified clause in Transaction Controller
cmc-transactioncontroller-services (API)	CMC_FA_TXN_CONTROLLER_PUT_EVENT_DS	UPDATEEVENTDATASEGMENTSTATUS	For the specified reference Number and event, update status to COMPLETE/INCOMPLETE/WIP for specified datasegment in TransactionController

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Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
cmc-transactioncontroller-services (API)	CMC_FA_TXN_CONTROLLER_PUT_DOCUMENT	UPDATEEVENTDOCUMENTSTATUS	For the specified reference Number and event, update status to COMPLETE/INCOMPLETE/WIP for specified document Type in TransactionController
Priority Code - Priority Code Maintenance	CMC_MENU_FA_PRIORITY_CODE_MAINT_AMND	UNLOCK	Modify Priority Code Maintenance
Priority Code - Priority Code Maintenance	CMC_MENU_FA_PRIORITY_CODE_MAINT_AUTHORIZE	AUTHORIZE	Authorize Priority Code Maintenance
Priority Code - Priority Code Maintenance	CMC_MENU_FA_PRIORITY_CODE_MAINT_CLOSE	CLOSE	Close Priority Code Maintenance
Priority Code - Priority Code Maintenance	CMC_MENU_FA_PRIORITY_CODE_MAINT_REOPEN	REOPEN	Reopen Priority Code Maintenance
Priority Code - Priority Code Maintenance	CMC_MENU_FA_PRIORITY_CODE_MAINT_VIEW	VIEW	View Priority Code Maintenance
Priority Code - Customer Priority Maintenance	CMC_MENU_FA_CUSTOMER_PRIORITY_MAINT_CREATE	CREATE	Create Customer Priority Maintenance
Priority Code - Customer Priority Maintenance	CMC_MENU_FA_CUSTOMER_PRIORITY_MAINT_AMND	UNLOCK	Modify Customer Priority Maintenance
Priority Code - Customer Priority Maintenance	CMC_MENU_FA_CUSTOMER_PRIORITY_MAINT_CLOSE	CLOSE	Close Customer Priority Maintenance
Priority Code - Customer Priority Maintenance	CMC_MENU_FA_CUSTOMER_PRIORITY_MAINT_REOPEN	REOPEN	Reopen Customer Priority Maintenance
Priority Code - Customer Priority Maintenance	CMC_MENU_FA_CUSTOMER_PRIORITY_MAINT_AUTHORIZE	AUTHORIZE	Authorize Customer Priority Maintenance
Priority Code - Customer Priority Maintenance	CMC_MENU_FA_CUSTOMER_PRIORITY_MAINT_DELETE	DELETE	Delete Customer Priority Maintenance
Priority Code - Customer Priority Maintenance	CMC_MENU_FA_CUSTOMER_PRIORITY_MAINT_VIEW	VIEW	Customer Priority Maintenance

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Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
Checklist - Checklist Maintenance	TFPM_FA_SVR_COMM	CREATE	Create Checklist Maintenance
Checklist - Checklist Maintenance	TFPM_FA_SVR_COMM	UNLOCK	Unlock Checklist Maintenance
Checklist - Checklist Maintenance	TFPM_FA_SVR_COMM	AUTHORIZE	Authorize Checklist Maintenance
Checklist - Checklist Maintenance	TFPM_FA_SVR_COMM	CLOSE	Close Checklist Maintenance
Checklist - Checklist Maintenance	TFPM_FA_SVR_COMM	REOPEN	Reopen Checklist Maintenance
Checklist - Checklist Maintenance	TFPM_FA_SVR_COMM	VIEW	View Checklist Maintenance
Checklist - Checklist Maintenance	TFPM_FA_SVR_COMM	DELETE	Delete Checklist Maintenance
Checklist - Checklist Linkage Maintenance	TFPM_FA_SVR_COMM	CREATE	Create Checklist Linkage Maintenance
Checklist - Checklist Linkage Maintenance	TFPM_FA_SVR_COMM	UNLOCK	Unlock Checklist Linkage Maintenance
Checklist - Checklist Linkage Maintenance	TFPM_FA_SVR_COMM	AUTHORIZE	Authorize Checklist Linkage Maintenance
Checklist - Checklist Linkage Maintenance	TFPM_FA_SVR_COMM	CLOSE	Close Checklist Linkage Maintenance
Checklist - Checklist Linkage Maintenance	TFPM_FA_SVR_COMM	REOPEN	Reopen Checklist Linkage Maintenance
Checklist - Checklist Linkage Maintenance	TFPM_FA_SVR_COMM	VIEW	View Checklist Linkage Maintenance
Checklist - Checklist Linkage Maintenance	TFPM_FA_SVR_COMM	DELETE	Delete Checklist Linkage Maintenance
Float Rate Maintenance	CMC_FA_FLOAT_RATE_NEW	CREATE	Create New Float Rate Record
Float Rate Maintenance	CMC_FA_FLOAT_RATE_AMEND	UNLOCK	Unlock to Modifiy Float Rate Record

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Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
Float Rate Maintenance	CMC_FA_FLOAT_RATE_AUTHORIZE	AUTHORIZE	Authorize Float Rate Record
Float Rate Maintenance	CMC_FA_FLOAT_RATE_CLOSE	CLOSE	Close Float Rate Record
Float Rate Maintenance	CMC_FA_FLOAT_RATE_DELETE	DELETE	Delete Float Rate Record
Float Rate Maintenance	CMC_FA_FLOAT_RATE_REOPEN	REOPEN	Reopen Closed Float Rate Record
Float Rate Maintenance	CMC_FA_FLOAT_RATE_VIEW	VIEW	View Float Rate Record
Float Rate Maintenance	CMC_FA_FLOAT_RATE_CODE_LOV	LOV	Get Rate Code Details in LOV
Float Rate Maintenance	CMC_FA_FLOAT_RATE_PICKUP	RATEPICKUP	Pickup Float Rate based on Data Related to Rate Code, Branch Code, Effective Date, Amount Slab etc
Currency Definition	CMC_FA_CURRENCY_DEFN_AMEND	UNLOCK	Modify Currency Definition
Currency Definition	CMC_FA_CURRENCY_DEFN_AUTHORIZE	AUTHORIZE	Authorize Currency Definition
Currency Definition	CMC_FA_CURRENCY_DEFN_CLOSE	CLOSE	Close Currency Definition
Currency Definition	CMC_FA_CURRENCY_DEFN_DELETE	DELETE	Delete Currency Definition
Currency Definition	CMC_FA_CURRENCY_DEFN_NEW	CREATE	Create Currency Definition
Currency Definition	CMC_FA_CURRENCY_DEFN_REOPEN	REOPEN	Reopen Currency Definition
Currency Definition	CMC_FA_CURRENCY_DEFN_VIEW	VIEW	View Currency Definition
Currency Definition	CMC_FA_CURRENCY_DEFN_VIEW_NEW	VIEW	View Currency Definition
Currency Pair Definition	CMC_FA_CURRENCY_PAIR_DEFN_AMEND	UNLOCK	Modify Currency Pair Definition
Currency Pair Definition	CMC_FA_CURRENCY_PAIR_DEFN_AUTHORIZE	AUTHORIZE	Authorize Currency Pair Definition
Currency Pair Definition	CMC_FA_CURRENCY_PAIR_DEFN_CLOSE	CLOSE	Close Currency Pair Definition
Currency Pair Definition	CMC_FA_CURRENCY_PAIR_DEFN_DELETE	DELETE	Delete Currency Pair Definition
Currency Pair Definition	CMC_FA_CURRENCY_PAIR_DEFN_NEW	CREATE	Create Currency Pair Definition
Currency Pair Definition	CMC_FA_CURRENCY_PAIR_DEFN_REOPEN	REOPEN	Reopen Currency Pair Definition

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Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
Currency Pair Definition	CMC_FA_CURRENCY_PAIR_DEFN_VIEW	VIEW	View Currency Pair Definition
Currency Exchange Rate	CMC_FA_CURRENCY_RATE_MASTER_AMEND	UNLOCK	Modify Currency Exchange Rate
Currency Exchange Rate	CMC_FA_CURRENCY_RATE_MASTER_AUTHORIZE	AUTHORIZE	Authorize Currency Exchange Rate
Currency Exchange Rate	CMC_FA_CURRENCY_RATE_MASTER_CLOSE	CLOSE	Close Currency Exchange Rate
Currency Exchange Rate	CMC_FA_CURRENCY_RATE_MASTER_DELETE	DELETE	Delete Currency Exchange Rate
Currency Exchange Rate	CMC_FA_CURRENCY_RATE_MASTER_NEW	CREATE	Create Currency Exchange Rate
Currency Exchange Rate	CMC_FA_CURRENCY_RATE_MASTER_REOPEN	REOPEN	Reopen Currency Exchange Rate
Currency Exchange Rate	CMC_FA_CURRENCY_RATE_MASTER_VIEW	VIEW	View Currency Exchange Rate
Currency Exchange Rate	CMC_FA_CURRENCY_RATE_MASTER_NEW_SERVICE	CREATESERVICE	Create Currency Exchange Rate
Currency Exchange Rate	CMC_FA_CURRENCY_RATE_MASTER_AMEND_SERVICE	UNLOCKSERVICE	Modify Currency Exchange Rate
Currency Exchange Rate	CMC_FA_CURRENCY_RATE_MASTER_SERVICE_CLOSE	CLOSESERVICE	Close Currency Exchange Rate
Currency Exchange Rate	CMC_FA_CURRENCY_RATE_MASTER_SERVICE_REOPEN	REOPENSERVICE	Reopen Currency Exchange Rate
Currency Exchange Rate	CMC_FA_CURRENCY_RATE_PURGE_TO_HISTORY	PURGE	Purge To History
Currency Rate Type	CMC_FA_CURRENCY_RATE_TYPE_AMEND	UNLOCK	Modify Currency Rate Type
Currency Rate Type	CMC_FA_CURRENCY_RATE_TYPE_AUTHORIZE	AUTHORIZE	Authorize Currency Rate Type
Currency Rate Type	CMC_FA_CURRENCY_RATE_TYPE_CLOSE	CLOSE	Close Currency Rate Type
Currency Rate Type	CMC_FA_CURRENCY_RATE_TYPE_DELETE	DELETE	Delete Currency Rate Type
Currency Rate Type	CMC_FA_CURRENCY_RATE_TYPE_NEW	CREATE	Create Currency Rate Type
Currency Rate Type	CMC_FA_CURRENCY_RATE_TYPE_REOPEN	REOPEN	Reopen Currency Rate Type

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Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
Currency Rate Type	CMC_FA_CURRENCY_RATE_TYPE_VIEW	VIEW	View Currency Rate Type
External Deposit Account	CMC_FA_EXTERNALDEPOSIT_REOPEN_RESOURCE	REOPENRESOURCE	Reopen External Deposit Account
External Deposit Account	CMC_FA_EXTERNALDEPOSIT_CREATE	CREATE	Create External Deposit Account
External Deposit Account	CMC_FA_EXTERNALDEPOSIT_SUMMARY	SUMMARY	Summary External Deposit Account
External Deposit Account	CMC_FA_EXTERNALDEPOSIT_UPDATE	UPDATE	Update External Deposit Account
External Deposit Account	CMC_FA_EXTERNALDEPOSIT_CLOSE	CLOSE	Close External Deposit Account
External Deposit Account	CMC_FA_EXTERNALDEPOSIT_FETCH_BY_RESOURCEID	FETCHBYRESOURCEID	View External Deposit Account
External Deposit Account	CMC_FA_EXTERNALDEPOSIT_DELETE_RECORD	DELETE	Delete External Deposit Account
External Deposit Account	CMC_FA_EXTERNALDEPOSIT_VALIDATE_RECORD	VALIDATE	Validate External Deposit Account
External Deposit Account	CMC_FA_EXTERNALDEPOSIT_RESOURCE_AGGREGATE	RESOURCEAGGREGATE	Retrieve Aggregate Data for External Deposit Account
External Deposit Account	CMC_FA_EXTERNALDEPOSIT_PERMITTED_ACTIONS	PERMITTEDACTIONS	External Deposit Account Entity Actions
External Deposit Account	CMC_FA_EXTERNALDEPOSIT_REMOVE_RESOURCELOCK	REMOVERESOURCELOCK	Remove Lock of Resource for an External Deposit Account
External Deposit Account	CMC_FA_EXTERNALDEPOSIT_GET_RESOURCE_HIST	GETRESOURCEHIST	Get Resource History for an External Deposit Account
External Deposit Account	CMC_FA_EXTERNALDEPOSIT_GET_UNAUTH_RESOURCES	GETUNAUTHRESOURCES	Retrieve Unauthorized External Deposit Account
External Deposit Account	CMC_FA_EXTERNALDEPOSIT_AUTHORIZE	AUTHORIZE	Authorize External Deposit Account
External Deposit Account	CMC_FA_EXTERNALDEPOSIT_SUBMIT	SUBMIT	Submit External Deposit Account
External Virtual Account (API)	CMC_FA_EXT_VIRTUAL_ACCOUNT_CREATE	CREATE	Create External Virtual Account

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Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
External Virtual Account (API)	CMC_FA_EXT_VIRTUAL_ACCOUNT_MODIFY	MODIFY	Modify External Virtual Account
External Virtual Account (API)	CMC_FA_EXT_VIRTUAL_ACCOUNT_GETBYNATURALKEY	GET BY NATURAL KEY	Retrieve a Specific External Virtual Account
External Virtual Account (API)	CMC_FA_EXT_VIRTUAL_ACCOUNT_VIEWALL	GET ALL	Retrieve all External Virtual Accounts
External Virtual Account (API)	CMC_FA_EXT_VIRTUAL_ACCOUNT_CLOSE	CLOSE	Close an External Virtual Account
External Virtual Account (API)	CMC_FA_EXT_VIRTUAL_ACCOUNT_REOPEN	REOPEN	Reopen a Closed External Virtual Account
External Virtual Account Structured Address (API)	CMC_FA_EXT_VA_SERVICE_STR_ADDR_NEW	CREATE	Create structured address for an external virtual account
External Virtual Account Structured Address (API)	CMC_FA_EXT_VA_SERVICE_STR_ADDR_AMEND	MODIFY	Modify Structured Address of External Virtual aAccount
External Virtual Account Structured Address (API)	CMC_FA_EXT_VA_SERVICE_STR_ADDR_VIEWALL	GET ALL	Summary View
External Virtual Account Structured Address (API)	CMC_FA_EXT_VA_SERVICE_STR_ADDR_VIEW	GET BY NATURAL KEY	Specific Virtual Account's Structured Address View
External Virtual Account Structured Address (API)	CMC_FA_EXT_VA_SERVICE_STR_ADDR_CLOSE	CLOSE	Closing Structured Address of a Specific Virtual Account
External Virtual Account Structured Address (API)	CMC_FA_EXT_VA_SERVICE_STR_ADDR_REOPEN	REOPEN	Reopen Structured Address of Virtual Account

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Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
GL Parameter	CMC_FA_MIS_PARAMETER_NEW	CREATE	Create GL Parameters
GL Parameter	CMC_FA_MIS_PARAMETER_VIEW	GET ALL	Get All GL Parameters
GL Parameter	CMC_FA_MIS_PARAMETER_AUTHORIZE	AUTHORIZE	Authorize GL Parameters
GL Parameter	CMC_FA_MIS_PARAMETER_CLOSE	CLOSE	Close GL Parameters
GL Parameter	CMC_FA_MIS_PARAMETER_REOPEN	REOPEN	Reopen GL Parameters
GL Parameter	CMC_FA_MIS_PARAMETER_AMEND	MODIFY	Modify GL Parameters
GL Parameter	CMC_FA_MIS_PARAMETER_DELETE	DELETE	Delete GL Parameters
Inter Branch Parameters	CMC_FA_INTERBRANCH_NEW	CREATE	Create Inter Branch Parameters
Inter Branch Parameters	CMC_FA_INTERBRANCH_VIEW	GET ALL	Get All Inter Branch Parameters
Inter Branch Parameters	CMC_FA_INTERBRANCH_AUTHORIZE	AUTHORIZE	Authorize Inter Branch Parameters
Inter Branch Parameters	CMC_FA_INTERBRANCH_CLOSE	CLOSE	Close Inter Branch Parameters
Inter Branch Parameters	CMC_FA_INTERBRANCH_REOPEN	REOPEN	Reopen Inter Branch Parameters
Inter Branch Parameters	CMC_FA_INTERBRANCH_AMEND	MODIFY	Modify Inter Branch Parameters
Inter Branch Parameters	CMC_FA_INTERBRANCH_DELETE	DELETE	Delete Inter Branch Parameters
External System Services (ECA System APIs)	CMC_FA_ECA_SYSTEM_AUTHORIZE	AUTHORIZE	Authorize ECA System
External System Services (ECA System APIs)	CMC_FA_ECA_SYSTEM_CLOSE	CLOSE	Close ECA System
External System Services (ECA System APIs)	CMC_FA_ECA_SYSTEM_CREATE	CREATE	Create ECA System
External System Services (ECA System APIs)	CMC_FA_ECA_SYSTEM_DELETE	DELETE	Delete ECA System

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Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
External System Services (ECA System APIs)	CMC_FA_ECA_SYSTEM_LOV	LOV	ECA System LOV
External System Services (ECA System APIs)	CMC_FA_ECA_SYSTEM_MODIFY	MODIFY	Modify ECA System
External System Services (ECA System APIs)	CMC_FA_ECA_SYSTEM_REOPEN	REOPEN	Reopen ECA System
External System Services (ECA System APIs)	CMC_FA_ECA_SYSTEM_VIEW	VIEW	View ECA System
External System Services (Upload Source APIs)	CMC_FA_UPLOAD_SOURCE_AMEND	AMEND	Amend Upload Source
External System Services (Upload Source APIs)	CMC_FA_UPLOAD_SOURCE_AUTHORIZE	AUTHORIZE	Authorize Upload Source
External System Services (Upload Source APIs)	CMC_FA_UPLOAD_SOURCE_CLOSE	CLOSE	Close Upload Source
External System Services (Upload Source APIs)	CMC_FA_UPLOAD_SOURCE_DELETE	DELETE	Delete Upload Source
External System Services (Upload Source APIs)	CMC_FA_UPLOAD_SOURCE_NEW	NEW	Create Upload Source
External System Services (Upload Source APIs)	CMC_FA_UPLOAD_SOURCE_VIEW	VIEW	View Upload Source

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Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
External System Services (Upload Source Preference APIs)	CMC_FA_UPLOAD_SOURCE_PREF_AMEND	AMEND	Amend Upload Source Preference
External System Services (Upload Source Preference APIs)	CMC_FA_UPLOAD_SOURCE_PREF_AUTHORIZE	AUTHORIZE	Authorize Upload Source Preference
External System Services (Upload Source Preference APIs)	CMC_FA_UPLOAD_SOURCE_PREF_CLOSE	CLOSE	Close Upload Source Preference
External System Services (Upload Source Preference APIs)	CMC_FA_UPLOAD_SOURCE_PREF_DELETE	DELETE	Delete Upload Source Preference
External System Services (Upload Source Preference APIs)	CMC_FA_UPLOAD_SOURCE_PREF_NEW	NEW	Create New Upload Source Preference
External System Services (Upload Source Preference APIs)	CMC_FA_UPLOAD_SOURCE_PREF_REOPEN	REOPEN	Reopen Upload Source Preference
External System Services (Upload Source Preference APIs)	CMC_FA_UPLOAD_SOURCE_PREF_VIEW	VIEW	View Upload Source Preference
Additional Attributes	CMC_MENU_FA_ADDNL_FIELDS_MAINT	MENU	Additional Fields Maintenance
SLA Maintenance	CMC_FA_SLA_MAINT	CREATE	Create SLA
SLA Maintenance	CMN_WDFA_DASHBOARD_DEF	DASHBOARD	Service for SLA Breach

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Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
Data Segment	CFPM_FA_DATA_SEGMENT _AMEND	MODIFY	API to Modify Data Segment Details
Data Segment	CFPM_FA_DATA_SEGMENT _AUTHORIZE	AUTHORIZE	API to Authorize Data Segment Details
Data Segment	CFPM_FA_DATA_SEGMENT _AUTHQUERY	VERIFY	API to Authquery Data Segment Details
Data Segment	CFPM_FA_DATA_SEGMENT _CLOSE	CLOSE	API to Close Data Segment Details
Data Segment	CFPM_FA_DATA_SEGMENT _DELETE	DELETE	API to Delete New Data Segment Details
Data Segment	CFPM_FA_DATA_SEGMENT _GETBY_DATA_SEGCODE	SAVE	API to Save New Data Segment Details
Data Segment	CFPM_FA_DATA_SEGMENT _GETBY_DOMAIN	FETCH	API to Get Data Segment List by Domain Name
Data Segment	CFPM_FA_DATA_SEGMENT _GETDSLIBYDOM	FETCH	API to Get Data Segment Details List by Domain Name
Data Segment	CFPM_FA_DATA_SEGMENT _NEW	SAVE	API to Save New Data Segment Details
Data Segment	CFPM_FA_DATA_SEGMENT _REOPEN	REOPEN	API to Reopen Data Segment Details
Data Segment	CFPM_FA_DATA_SEGMENT _VIEW	FETCH	API to View Data Segment Details
Data Segment	CFPM_FA_DATA_SEGMENT _VIEWALL	FETCH	API to Get all Data Segment Details
Data Segment	CFPM_FA_DATA_SEGMENT _GETBY_SUBDOMAIN	FETCH	API to Get Data Segment List by Domain Name Categorized by Subdomains
BIC Directory	CMC_FA_BIC_DIRECTORY_ AUTHORIZE	AUTHORIZE	BIC Directory Authorize
BIC Directory	CMC_FA_BIC_DIRECTORY_ CLOSE	CLOSE	BIC Directory Close
BIC Directory	CMC_FA_BIC_DIRECTORY_ CREATE	CREATE	BIC Directory Create
BIC Directory	CMC_FA_BIC_DIRECTORY_ DELETE	DELETE	BIC Directory Delete
BIC Directory	CMC_FA_BIC_DIRECTORY_ LOV	VALIDATION	BIC Directory Lov Validation
BIC Directory	CMC_FA_BIC_DIRECTORY_ MODIFY	UPDATE	BIC Directory Amendment
BIC Directory	CMC_FA_BIC_DIRECTORY_ REOPEN	REOPEN	BIC Directory Reopen
BIC Directory	CMC_FA_BIC_DIRECTORY_ VIEW	FETCH	BIC Directory View
BIC Directory	CMC_FA_BIC_DIRECTORY_ CREATE_SERVICE	CREATE	BIC Directory Create Service
BIC Directory	CMC_FA_BIC_DIRECTORY_ MODIFY_SERVICE	UPDATE	BIC Directory Amendment Service

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Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
BIC Directory	CMC_FA_BIC_DIRECTORY_REOPEN_SERVICE	REOPEN	BIC Directory Reopen Service
BIC Directory	CMC_FA_BIC_DIRECTORY_CLOSE_SERVICE	CLOSE	BIC Directory Close Service
BIC Directory	CMC_FA_BIC_DIRECTORY_VIEW_SERVICE	FETCH	BIC Directory ViewAll Service
BIC Directory	CMC_FA_BIC_DIRECTORY_AUTHORIZE	REJECT	BIC Directory Rejection API
Checklist	CFPM_FA_CHECKLIST_CREATE	CREATE	Checklist Create
Checklist	CFPM_FA_CHECKLIST_DELETE	DELETE	Checklist Submit
Checklist	CFPM_FA_CHECKLIST_FINAL_GET	FETCH	Checklist Latest Get
Checklist	CFPM_FA_CHECKLIST_ID_GET	FETCH	Checklist Get By ID
Checklist	CFPM_FA_CHECKLIST_SUBMIT	SUBMIT	Checklist Submit
Checklist	CFPM_FA_CHECKLIST_UPDATE	UPDATE	Checklist Update
Checklist	CMC_FA_CHECKLIST_GET_BY_ID	FETCH	Fetch Checklist Details by ID
Checklist	CMC_FA_CHECKLIST_GET_FINAL	FETCH	Fetch submitted Checklist Details by ID
Process Code	TFPM_FA_CMC_PRCODE_MA_AUTHORIZE	AUTHORIZE	Authorize Process Code
Process Code	TFPM_FA_CMC_PRCODE_MA_CLOSE	CLOSE	Close Process Code
Process Code	TFPM_FA_CMC_PRCODE_MA_CREATE	CREATE	Create Process Code
Process Code	TFPM_FA_CMC_PRCODE_MA_DELETE	DELETE	Delete Process Code
Process Code	TFPM_FA_CMC_PRCODE_MA_LOV	VALIDATION	Validate Process Code
Process Code	TFPM_FA_CMC_PRCODE_MA_MODIFY	UPDATE	Update Process Code
Process Code	TFPM_FA_CMC_PRCODE_MA_REOPEN	REOPEN	Reopen Process Code
Process Code	TFPM_FA_CMC_PRCODE_MA_VIEW	FETCH	View Process Code
Process Code	CMC_FA_PROCESSCODE_PHASES	FETCH	Fetch Process Code
Process Code	TFPM_FA_CMC_PRCODE_MA_AUTHORIZE	REJECT	Rejection API
cmc-ml-indb-services	CMC_FA_ML_TS_USECASE_MODIFY	UNLOCK	Modifies Specific Usecase Setting
cmc-ml-indb-services	CMC_FA_ML_BUILD_ANOMALY_MODEL	buildAnomaly Model	Build Anomaly Model

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Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
cmc-ml-indb-services	CMC_FA_ML_GET_ANOMALY_MODEL_METRICS	findAnomalyModelMetrics	Get Anomaly Model Metrics for usecase
cmc-ml-indb-services	CMC_FA_ML_ANOMALY_MODEL_QUERY	queryAnomalyModel	Query Anomaly Model
cmc-ml-indb-services	CMC_FA_ML_ANOMALY_QUERY_SAVE	saveAnomalyQuery	Save Anomaly Query
cmc-ml-indb-services	CMC_FA_ML_ANOMALY_QUERY_GET	getAnomalyResults	Query Anomaly Model Get
cmc-ml-indb-services	CMC_FA_ML_ANOMALY_EXPLAIN_PREDICTION	explainAnomalyPrediction	Save Anomaly Query
cmc-ml-indb-services	CMC_FA_DEBUG_USER_GET	getDebugUsers	Debug Users Get
cmc-ml-indb-services	CMC_FA_DEBUG_USER_POST	saveDebugUsers	Save ML debug users
cmc-ml-indb-services	CMC_FA_DEBUG_USER_LOGS_GET	getDebugLogs	Get Debug logs
cmc-ml-indb-services	CMC_FA_DEBUG_USER_GET_BY_ID	getDebugUserById	Save a Debug User by Id
cmc-ml-indb-services	CMC_FA_DEBUG_USER_EDIT_BY_ID	editUserDebugDetails	Edit a Debug User by Id
cmc-ml-indb-services	CMC_FA_INV_DSHBRD_SUS_REC_GET	Edit a Debug User by Id	Get Suspected Records
cmc-ml-indb-services	CMC_FA_INV_DSHBRD_ASSIGN_REC_POST	assignSuspectedRecord	Assign Suspected Records
cmc-ml-indb-services	CMC_FA_INV_DSHBRD_ASSIGN_REC_GET	getAssignedRecords	Get assigned Records
cmc-ml-indb-services	CMC_FA_INV_DSHBRD_INV_REC_GET	getInvestigationData	Get investigation record data
cmc-ml-indb-services	CMC_FA_INV_DSHBRD_SAVE	saveRecord	Save Investigation
cmc-ml-indb-services	CMC_FA_INV_DSHBRD_GET	getAll	Get All Investigation
cmc-ml-indb-services	CMC_FA_INV_DSHBRD_MODIFY	modifyRecord	Modify Investigation
cmc-ml-indb-services	CMC_FA_INV_DSHBRD_APPROVE	authorize	Authorize
cmc-ml-indb-services	CMC_FA_INV_DSHBRD_GET_BY_ID	getById	Assign Suspected Records
cmc-ml-indb-services	CMC_FA_INV_DSHBRD_HISTORY	getHistory	History Records
cmc-ml-indb-services	CMC_FA_INV_DSHBRD_UNAUTH	authQuery	Authorize Suspected Records
cmc-ml-indb-services	CMC_FA_INV_DSHBRD_GET_GRAPHS	getInvestigationDataForGraphs	Get Graphs
cmc-ml-indb-services	CMC_FA_INV_DSHBRD_PROCESS_REC	processesRecords	Process Records

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Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
cmc-ml-indb-services	CMC_FA_ML_CLUSTERING_AUTOCLUSTER	autoCluster	Auto Clustering for specified use case
cmc-ml-indb-services	CMC_FA_ML_CLUSTERING_CUSTOMCLUSTER	customCluster	Custom Clustering for specified use case
cmc-ml-indb-services	CMC_FA_ML_CLUSTERING_RULE	getAllClusterRules	Clustering rules for specific use case and ID
cmc-ml-indb-services	CMC_FA_ML_CLUSTERING_INFO	getAllClustersInformation	Clustering information for specific use case
cmc-ml-indb-services	CMC_FA_ML_CLUSTER_SCORE	clusterScore	Saving cluster information for specific use case
cmc-ml-indb-services	CMC_FA_ML_CLUSTER_PARTITIONS	getAllClusterPartitionCol	Get cluster partition columns for specific use case
cmc-ml-indb-services	CMC_FA_ML_CLUSTER_ANALYSIS	getClusterAnalysis	Get cluster characteristics specific use case and clusterId
cmc-ml-indb-services	CMC_FA_ML_TS_USECASE_GETBYID	VIEW	Fetches Specific Usecase Setting
cmc-ml-indb-services	CMC_FA_ML_TS_USECASE_GETALL	GETSUMMARY	Fetches All Usecase Settings
cmc-ml-indb-services	CMC_FA_ML_TS_USECASE_DELETE	DELETE	Deletes Specific Usecase Setting
cmc-ml-indb-services	CMC_FA_ML_TS_USECASE_AUTHORIZE	AUTHORIZE	Approves Usecase Setting Record
cmc-ml-indb-services	CMC_FA_ML_TS_USECASE_UNAUTHORIZE	GETUNAUTHRESOURCES	Fetches Unauthorized Data of Specific Usecase Setting
cmc-ml-indb-services	CMC_FA_ML_TS_USECASE_CLOSE	CLOSE	Closes Usecase Setting Record
cmc-ml-indb-services	CMC_FA_ML_TS_USECASE_GETHISTORY	HISTORY	Fetches History of Specific Usecase Setting
cmc-ml-indb-services	CMC_FA_ML_TS_USECASE_REOPEN	REOPEN	Reopen Usecase Setting Record
cmc-ml-indb-services	CMC_FA_ML_TS_USECASE_CREATE	CREATE	Saves New Usecase Setting
cmc-ml-indb-services	CMC_FA_ML_TS_USECASE_FETCH_DATACOLUMNS	GETDATACOLUMNS	Fetches Data Columns
cmc-ml-indb-services	CMC_FA_ML_TS_USECASE_METRIC	GETMETRICS	Metrics of Specific Usecase
cmc-ml-indb-services	CMC_FA_ML_TS_USECASE_FETCH_MINING_FUNCTIONS	GETUSECASETYPES	Fetches Supported Mining Functions
cmc-ml-indb-services	CMC_FA_ML_TS_USECASE_FETCH_ALGORITHMS	GETSUPPORTEDALGORITHMS	Fetches Algorithms Supported by Mining Functions
cmc-ml-indb-services	CMC_FA_ML_TS_USECASE_FETCH_PRODUCTS	GETPRODUCTLIST	Fetches Preconfigured Obma Prodcuts
cmc-ml-indb-services	CMC_FA_ML_TS_MODEL_TRAIN	TRAINMODEL	Trains The Model For Specified Usecase
cmc-ml-indb-services	CMC_FA_ML_TS_MODEL_BATCH_SCORING	BATCHSCORE	Score The Model For Specified Usecase

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Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
cmc-ml-indb-services	CMC_FA_ML_CORRELATION	CORRELATION	Perform Correlation
cmc-ml-indb-services	CMC_FA_ML_POSITIVE_TARGET	GETPOSITIVETARGET	Get Positive Target Value
cmc-ml-indb-services	CMC_FA_ML_COST_MATRIX	GETCOSTMATRIX	Fetch Cost Matrix
cmc-ml-indb-services	CMC_FA_ML_SAVE_COST_MATRIX	SAVECOSTMATRIX	Save Cost Matrix
cmc-ml-indb-services	CMC_FA_ML_TS_USECASE_MONITORING	GETMODELMONITORING	Model Monitoring
cmc-ml-indb-services	CMC_FA_ML_TS_USECASE_MONITORING_DETAILS	GETMODELMONITORINGDETAILS	Model Monitoring Details
cmc-ml-indb-services	CMC_FA_ML_TS_USECASE_SAVE_AUTOMOD	GETAUTOMODDETAILS	Save Model Monitoring Automod
cmc-ml-indb-services	CMC_FA_ML_TS_USECASE_GET_AUTOMOD	SAVEAUTOMODS	Get Model Monitoring Automod
cmc-ml-indb-services	CMC_FA_ML_TS_USECASE_TRAIN_INF_CHECK	TRAININFCHECK	Check Train And Inference Data Source
cmc-ml-indb-services	CMC_FA_ML_TS_USECASE_METRIC_PARTITIONCOLUMNS	GetPartitionColumns	Partition Columns for Metrics of specific usecase
cmc-ml-indb-services	CMC_FA_ML_TS_USECASE_METRICMODELS	GetModelMetrics	Metrics Models of specific usecase
cmc-ml-indb-services	CMC_FA_MLCORE_TS_MODEL_TRAIN	TrainModel	Trains the model for specified usecase in core
cmc-ml-indb-services	CMC_FA_MLCORE_TS_MODEL_BATCH_SCORING	BatchScore	Trains the model for specified usecase in core
cmc-ml-indb-services	CMC_FA_MLCORE_CORRELATION	Correlation	Perform Correlation in core
cmc-ml-indb-services	CMC_FA_MLCORE_POSITIVE_TARGET	GetPositiveTarget	Get Positive target value in core
cmc-ml-indb-services	CMC_FA_MLCORE_COST_MATRIX	GetCostMatrix	Fetch Cost Matrix in core
cmc-ml-indb-services	CMC_FA_MLCORE_SAVE_COST_MATRIX	SaveCostMatrix	Save Cost Matrix in core
cmc-ml-indb-services	CMC_FA_MLCORE_TS_USECASE_FETCH_DATACOLUMNS	GetDataColumns	Fetches Data Columns in core
cmc-ml-indb-services	CMC_FA_MLCORE_TS_USECASE_METRICMODELS	GetModelMetrics	Metrics Models of specific usecase in core
cmc-ml-indb-services	CMC_FA_MLCORE_TS_USECASE_METRIC_PARTITIONCOLUMNS	GetPartitionColumns	Partition Columns for Metrics of specific usecase in core
cmc-ml-indb-services	CMC_FA_MLCORE_TS_USECASE_METRIC	GetMetrics	Metrics of specific usecase in core
cmc-ml-indb-services	CMC_FA_MLCORE_TS_USECASE_MONITORING	GetModelMonitoring	Model Monitoring in core

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Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
cmc-ml-indb-services	CMC_FA_MLCORE_TS_USECASE_MONITORINGDETAILS	GetModelMonitoringDetails	Model Monitoring Details in core
cmc-ml-indb-services	CMC_FA_MLCORE_TS_USECASE_SAVEAUTOMOD	SaveAutomods	Save Model Monitoring Automod in core
cmc-ml-indb-services	CMC_FA_MLCORE_TS_USECASE_TRAININFCHECK	TrainInfCheck	Check Train and Inf table in core
cmc-ml-indb-services	CMC_FA_MLCORE_TS_USECASE_GETAUTOMOD	GetAutomodDetails	Get Model Monitoring Automod in core
cmc-fc-ai-ml-services	CMC_FA_POLLER_FLAG	SETPOLLERFLAG	Sets the pollar flag
cmc-nlp-text-extraction-services	CMC_NLP_FA_TEXT_EXTRACTION_PROCESS	PROCESSFILE	Text Extraction Process
cmc-nlp-maintenance-services	CMC_NLP_FA_MOD_MNGMNT_GET	GETALL	Model Management Get all
cmc-nlp-maintenance-services	CMC_NLP_FA_MOD_MNGMNT_GETBY_ID	GETBYID	Model Management Getting By ID
cmc-nlp-maintenance-services	CMC_NLP_FA_MOD_MNGMNT_POST	SAVERECORD	Model Management Saving
cmc-nlp-maintenance-services	CMC_NLP_FA_MOD_MNGMNT_AUTHORIZE	AUTHORIZE	Model Management Authorize
cmc-nlp-maintenance-services	CMC_NLP_FA_MOD_MNGMNT_AUTHQUERY	AUTHQUERY	Model Management Auth
cmc-nlp-maintenance-services	CMC_NLP_FA_MOD_MNGMNT_CLOSE	CLOSERECORD	Model Management Close
cmc-nlp-maintenance-services	CMC_NLP_FA_MOD_MNGMNT_DELETE	DELETE	Model Management Delete
cmc-nlp-maintenance-services	CMC_NLP_FA_MOD_MNGMNT_HISTORY	GETHISTORY	Model Management History
cmc-nlp-maintenance-services	CMC_NLP_FA_MOD_MNGMNT_REOPEN	REOPENRECORD	Model Management Open Record
cmc-nlp-maintenance-services	CMC_NLP_FA_MOD_MNGMNT_TAGPARAMS	TAGPARAMS	Model Management Tag Parameters
cmc-nlp-maintenance-services	CMC_NLP_FA_ANNOTATOR_ERROR_DATA	FETCHERRORDATA	Annotator service to return Doc id and file name for Error status
cmc-nlp-maintenance-services	CMC_NLP_FA_ANNOTATOR_CLASS_FILE	UPLOADCLASSFILE	Annotator service to save classification file

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Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
cmc-nlp-maintenance-services	CMC_NLP_FA_ANNOTATOR_ANNOTATED_FILE	UPLOADANNOTATEDFILE	Annotator service to save annotated file
cmc-nlp-maintenance-services	CMC_NLP_FA_MOD_MNGMNT_PUT	MODIFYRECORD	Model_Management Modifying
cmc-nlp-maintenance-services	CMC_NLP_FA_ONL_PRCSNG_PROCESS	PROCESSFILE	Online Processing Process File
cmc-nlp-maintenance-services	CMC_NLP_FA_ONL_PRCSNG_TRAIN	TRAINMODEL	Online Processing Model Train
cmc-nlp-maintenance-services	CMC_NLP_FA_ONL_PRCSNG_SAVE	SAVEMODEL	Online Processing Model Save
cmc-nlp-maintenance-services	CMC_NLP_FA_ONL_PRCSNG_SERV	PROCESSFILE	Online Processing Process File
cmc-nlp-maintenance-services	CMC_NLP_FA_TAG_CREATION_GET	GETALL	Tag Creation Get all
cmc-nlp-maintenance-services	CMC_NLP_FA_TAG_CREATION_GETBY_ID	GETBYID	Tag Creation Getting By ID
cmc-nlp-maintenance-services	CMC_NLP_FA_TAG_CREATION_POST	SAVERECORD	Tag Creation Saving
cmc-nlp-maintenance-services	CMC_NLP_FA_TAG_CREATION_PUT	MODIFYRECORD	Tag Creation Modifying
cmc-nlp-maintenance-services	CMC_NLP_FA_TAG_CREATION_AUTHORIZE	AUTHORIZE	Tag Creation Authorize
cmc-nlp-maintenance-services	CMC_NLP_FA_TAG_CREATION_AUTHQUERY	AUTHQUERY	Tag Creation Auth
cmc-nlp-maintenance-services	CMC_NLP_FA_TAG_CREATION_CLOSE	CLOSERECORD	Tag Creation Close
cmc-nlp-maintenance-services	CMC_NLP_FA_TAG_CREATION_DELETE	DELETE	Tag Creation Delete
cmc-nlp-maintenance-services	CMC_NLP_FA_TAG_CREATION_HISTORY	GETHISTORY	Tag Creation History
cmc-nlp-maintenance-services	CMC_NLP_FA_TAG_CREATION_REOPEN	REOPENRECORD	Tag Creation Open Record
cmc-nlp-maintenance-services	CMC_NLP_FA_TXN_LOG_UPDATE	UPDATETXNLOG	Transaction Log Update Service
cmc-nlp-maintenance-services	CMC_NLP_FA_TXN_LOG_FETCH_LOGDATA	FETCHLOGTABLEDATA	Transaction Log Fetch Log Data Service

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Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
cmc-nlp-maintenance-services	CMC_NLP_FA_TXN_LOG_FETCH_TAGVALS	FETCHTAGVALS	Transaction Log Fetch Tag values Service
cmc-nlp-maintenance-services	CMC_NLP_FA_UTIL_USECASES	GETUSECASES	UTIL Service usecasenames
cmc-nlp-maintenance-services	CMC_NLP_FA_UTIL_TAGS	GETTAGS	UTIL Service tags
cmc-nlp-maintenance-services	CMC_NLP_FA_MODMNGMNT_GET_RUNREF	GETRUNREFS	Get Run Reference By Usecase
cmc-nlp-maintenance-services	CMC_NLP_FA_MODMNGMNT_EXPORT_MODEL	EXPORTMODEL	Export NLP Models
cmc-nlp-maintenance-services	CMC_NLP_FA_MODMNGMNT_IMPORT_MODEL	IMPORTMODEL	Import NLP Models
cmc-nlp-maintenance-services	CMC_NLP_FA_ANNOTATOR_GET_FILE_BY_ID	GETFILEBYID	Get File IDs
cmc-nlp-maintenance-services	CMC_NLP_FA_ANNOTATOR_GET_FILE_IDS	GETFILEIDS	Get File IDs
cmc-nlp-maintenance-services	CMC_NLP_FA_MOD_MNGMNT_AUTHORIZE	REJECT	Rejection API
cmc-nlp-maintenance-services	CMC_NLP_FA_TAG_CREATION_AUTHORIZE	REJECT	Rejection API
Float Rate Maintenance	CMC_FA_FLOAT_RATE_NEW	CREATE	Create New Float Rate Record
Float Rate Maintenance	CMC_FA_FLOAT_RATE_AMEND	UNLOCK	Unlock to Modifiy Float Rate Record
Float Rate Maintenance	CMC_FA_FLOAT_RATE_AUTHORIZE	AUTHORIZE	Authorize Float Rate Record
Float Rate Maintenance	CMC_FA_FLOAT_RATE_CLOSE	CLOSE	Close Float Rate Record
Float Rate Maintenance	CMC_FA_FLOAT_RATE_DELETE	DELETE	Delete Float Rate Record
Float Rate Maintenance	CMC_FA_FLOAT_RATE_REOPEN	REOPEN	Reopen Closed Float Rate Record
Float Rate Maintenance	CMC_FA_FLOAT_RATE_VIEW	VIEW	View Float Rate Record
Float Rate Maintenance	CMC_FA_FLOAT_RATE_CODE_LOV	LOV	Get Rate Code Details in LOV
Float Rate Maintenance	CMC_FA_FLOAT_RATE_PICKUP	RATEPICKUP	Pickup Float Rate based on Data Related to Rate Code, Branch Code, Effective Date, Amount Slab etc
BIC Directory	CMC_FA_BIC_DIRECTORY_AUTHORIZE	AUTHORIZE	BIC Directory Authorize

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Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
BIC Directory	CMC_FA_BIC_DIRECTORY_CLOSE	CLOSE	BIC Directory Close
BIC Directory	CMC_FA_BIC_DIRECTORY_CREATE	CREATE	BIC Directory Create
BIC Directory	CMC_FA_BIC_DIRECTORY_DELETE	DELETE	BIC Directory Delete
BIC Directory	CMC_FA_BIC_DIRECTORY_LOV	VALIDATION	BIC Directory Lov Validation
BIC Directory	CMC_FA_BIC_DIRECTORY_MODIFY	UPDATE	BIC Directory Amendment
BIC Directory	CMC_FA_BIC_DIRECTORY_REOPEN	REOPEN	BIC Directory Reopen
BIC Directory	CMC_FA_BIC_DIRECTORY_VIEW	FETCH	BIC Directory View
BIC Directory	CMC_FA_BIC_DIRECTORY_CREATE_SERVICE	CREATE	BIC Directory Create Service
BIC Directory	CMC_FA_BIC_DIRECTORY_MODIFY_SERVICE	UPDATE	BIC Directory Amendment Service
BIC Directory	CMC_FA_BIC_DIRECTORY_REOPEN_SERVICE	REOPEN	BIC Directory Reopen Service
BIC Directory	CMC_FA_BIC_DIRECTORY_CLOSE_SERVICE	CLOSE	BIC Directory Close Service
BIC Directory	CMC_FA_BIC_DIRECTORY_VIEW_SERVICE	FETCH	BIC Directory ViewAll Service
BIC Directory	CMC_FA_BIC_DIRECTORY_AUTHORIZE	REJECT	BIC Directory Rejection API
RFR Maintenance	CMC_FA_AUTHORIZE_RFR_RATES	AUTHORIZE	Authorize RFR rates
RFR Maintenance	CMC_FA_CLOSE_RFR_RATE	CLOSE	Close RFR rate
RFR Maintenance	CMC_FA_DELETE_RFR_RATE	DELETE	Delete RFR rate
RFR Maintenance	CMC_FA_GET_ALL_RFR_RATES	FETCH	Get all RFR rates
RFR Maintenance	CMC_FA_GET_BY_RFR_ID_VERSION	FETCH	Get by RFR ID version
RFR Maintenance	CMC_FA_GET_BY_RFR_RATE_CODE_AND_VERSION	FETCH	Get by RFR rate code and version
RFR Maintenance	CMC_FA_GET_RFR_HISTORY	FETCH	Get RFR history
RFR Maintenance	CMC_FA_REJECT_RFR_RATES	REJECT	Reject RFR rates
RFR Maintenance	CMC_FA_REOPEN_RFR_RATES	REOPEN	Reopen RFR rates
RFR Maintenance	CMC_FA_RFR_RATES_AUTH_QUERY	FETCH	RFR rates authorization query
RFR Maintenance	CMC_FA_RFR_RATES_RATE_PICKUP	FETCH	RFR rates rate pickup

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Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
RFR Maintenance	CMC_FA_RFR_RATE_VIEW	FETCH	RFR rate view
RFR Maintenance	CMC_FA_SAVE_RFR_RATE	CREATE	Save RFR rate
RFR Maintenance	CMC_FA_UPDATE_RFR_RATES	UPDATE	Update RFR rates
RFR Maintenance	CMC_FA_RFR_RATE_NEW	CREATE	New RFR rates
RFR Maintenance	CMC_FA_RFR_RC_LOV	FETCH	CMC RFR Rate Code LOV
RFR Maintenance	CMC_FA_GET_RFR_RATE_BY_ID	FETCH	RFR rates view
BIC to Customer Mapping	CMC_FA_BIC_CUST_CREATE	CREATE	Create BIC Customer
BIC to Customer Mapping	CMC_FA_BIC_CUST_FETCH	FETCH	Fetch BIC Customer
BIC to Customer Mapping	CMC_FA_BIC_CUST_MODIFY	UPDATE	Modify BIC Customer
BIC to Customer Mapping	CMC_FA_BIC_CUST_GET_BY_ID	FETCH	Fetch BIC Customer by ID
BIC to Customer Mapping	CMC_FA_BIC_CUST_DELETE	DELETE	Delete BIC Customer by ID
BIC to Customer Mapping	CMC_FA_BIC_CUST_CLOSE	CLOSE	Close BIC Customer by ID
BIC to Customer Mapping	CMC_FA_BIC_CUST_REOPEN	REOPEN	Reopen BIC Customer by ID
BIC to Customer Mapping	CMC_FA_BIC_CUST_APPROVE	AUTHORIZE	Authorize BIC Customer by ID
BIC to Customer Mapping	CMC_FA_BIC_CUST_REJECT	REJECT	Reject BIC Customer by ID
BIC to Customer Mapping	CMC_FA_BIC_CUST_GET_UNAUTH	FETCH	Fetch Unauthorized BIC Customer by ID
Local Bank Directory	CMC_FA_EXTBNK_DIRECTORY_AUTHORIZE	AUTHORIZE	External Local Bank Directory Authorize
Local Bank Directory	CMC_FA_EXTBNK_DIRECTORY_CLOSE	CLOSE	External Local Bank Directory Close
Local Bank Directory	CMC_FA_EXTBNK_DIRECTORY_CREATE	CREATE	External Local Bank Directory Directory Create
Local Bank Directory	CMC_FA_EXTBNK_DIRECTORY_DELETE	DELETE	External Local Bank Directory Directory Delete
Local Bank Directory	CMC_FA_EXTBNK_DIRECTORY_MODIFY	UPDATE	External Local Bank Directory Directory Modify

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Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
Local Bank Directory	CMC_FA_EXTBNK_DIRECTORY_REOPEN	REOPEN	External Local Bank Directory Directory Modify
Local Bank Directory	CMC_FA_EXTBNK_DIRECTORY_VIEW	FETCH	External Local Bank Directory Directory View
Local Holiday	CMC_FA_LOCAL_HOLIDAY_NEW	CREATE	Create Local Holiday
Local Holiday	CMC_FA_LOCAL_HOLIDAY_AMEND	UNLOCK	Modify Local Holiday
Local Holiday	CMC_FA_LOCAL_HOLIDAY_AUTHORIZE	AUTHORIZE	Authorize Local Holiday
Local Holiday	CMC_FA_LOCAL_HOLIDAY_CLOSE	CLOSE	Close Local Holiday
Local Holiday	CMC_FA_LOCAL_HOLIDAY_DELETE	DELETE	Delete Local Holiday
Local Holiday	CMC_FA_LOCAL_HOLIDAY_REOPEN	REOPEN	Reopen Local Holiday
Local Holiday	CMC_FA_LOCAL_HOLIDAY_VIEW	VIEW	View Local Holiday
Media	CMC_FA_MEDIA_AUTHORIZE	AUTHORIZE	Authorize Media
Media	CMC_FA_MEDIA_REOPEN	REOPEN	Reopen Media
Media	CMC_FA_MEDIA_DELETE	DELETE	Delete Media
Media	CMC_FA_MEDIA_CLOSE	CLOSE	Close Media
Media	CMC_FA_MEDIA_AMEND	UNLOCK	Modify Media
Media	CMC_FA_MEDIA_NEW	CREATE	Create Media
Media	CMC_FA_MEDIA_VIEW	VIEW	View Media
Amount Text Language	CMC_FA_AMTXTLANG_NEW	CREATE	Create Amount Text Language
Amount Text Language	CMC_FA_AMTXTLANG_VIEW	VIEW	View Amount Text Language
Amount Text Language	CMC_FA_AMTXTLANG_AMEND	UNLOCK	Modify Amount Text Language
Amount Text Language	CMC_FA_AMTXTLANG_AUTHORIZE	AUTHORIZE	Authorize Amount Text Language
Amount Text Language	CMC_FA_AMTXTLANG_CLOSE	CLOSE	Close Amount Text Language
Amount Text Language	CMC_FA_AMTXTLANG_REOPEN	REOPEN	Reopen Amount Text Language
Amount Text Language	CMC_FA_AMTXTLANG_DELETE	DELETE	Delete Amount Text Language
System Dates	CMC_FA_SYSTEM_DATES_VIEW	VIEW	View System Dates
System Dates	CMC_FA_SYSTEM_DATES_GET	GET	Get System Dates
External Chart of Accounts	CMC_FA_GL_CODE_SERVICE_SAVE	CREATE	Create External Chart of Accounts

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Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
External Chart of Accounts	CMC_FA_GL_CODE_SERVICE_GETALL	VIEW	View External Chart of Accounts
External Chart of Accounts	CMC_FA_GL_CODE_SERVICE_MODIFY	UNLOCK	Modify External Chart of Accounts
External Chart of Accounts	CMC_FA_GL_CODE_SERVICE_CLOSE	CLOSE	Close External Chart of Accounts
External Chart of Accounts	CMC_FA_GL_CODE_SERVICE_REOPEN	REOPEN	Reopen External Chart of Accounts
External Chart of Accounts	CMC_FA_GL_CODE_SERVICE_GETLOV	GETLOV	View External Chart of Accounts Based on Filter
Fact	PLATORULE_FA_FACT_NEW	CREATE	Create Fact
Fact	PLATORULE_FA_FACT_MODIFY	MODIFY	Modify Fact
Fact	PLATORULE_FA_FACT_GETALL	GETALL	Get all facts
Fact	PLATORULE_FA_FACT_GET	GET	Get Fact
Fact	PLATORULE_FA_FACT_UPLOAD	UPLOAD	Facts Upload
Fact	PLATORULE_FA_FACT_DOWNLOAD	DOWNLOAD	Facts Download
Fact	PLATORULE_FA_RULE_NEW	NEW	Create Rule
Rule	PLATORULE_FA_RULE_MODIFY	MODIFY	Modify Rule
Rule	PLATORULE_FA_RULE_GETALL	GETALL	Get All Rules
Rule	PLATORULE_FA_RULE_GET	GET	Get Rule
NA	PLATORULE_FA_RULE_EVALUATION	EVALUATE	Evaluate Rule
Rule	PLATORULE_FA_RULE_PAGINATION_GETALL	GETALL	Get All Rules Pagination
RuleGroup	PLATORULE_FA_RULEGROUP_NEW	NEW	create rule group
RuleGroup	PLATORULE_FA_RULEGROUP_MODIFY	MODIFY	Modify rule group
RuleGroup	PLATORULE_FA_RULEGROUP_GETALL	GETALL	get all rule groups
RuleGroup	PLATORULE_FA_RULEGROUP_EVALUATION	EVALUATE	evalaute rule group
View Audit Rule	PLATORULE_FA_RULESLOG_VIEW	VIEW	view rules log
NA	PLATORULE_FA_RULE_NEWENDPOINT	NEWENDPOINT	rulesNewEndPoints

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Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
NA	PLATORULE_FA_RULE_REFENDPOINTS	REFENDPOINTS	rulesRefEndPoints
NA	PLATORULE_FA_GET_PARENT_RULES	PARENT RULES	getParentRuleByNamespace
NA	PLATORULE_FA_GET_FACTS_OF_RULES	FACTS OF RULES	getFactsOfRules
NA	PLATORULE_FA_EVALUATE_RULEGROUPNAMESPACENAME	EVALUATE	evaluateRuleGroupByNameNamespace
Track Receivable Priority Code	CMC_MENU_FA_TRACK_PRIORITY_CREATE	Menu Create	Menu Create
Track Receivable Priority Code	CMC_MENU_FA_TRACK_PRIORITY_VIEW	Menu View	Menu View
Track Receivable Priority Code	CMC_FA_TRACK_PRIORITY_VIEW	VIEW	View Track Receivable Priority Code
Track Receivable Priority Code	CMC_FA_TRACK_PRIORITY_NEW	NEW	Create Track Receivable Priority Code
Track Receivable Priority Code	CMC_FA_TRACK_PRIORITY_VIEWALL	VIEW ALL	View All Track Receivable Priority Code
Track Receivable Priority Code	CMC_FA_TRACK_PRIORITY_REOPEN	REOPEN	Reopen Track Receivable Priority Code
Track Receivable Priority Code	CMC_FA_TRACK_PRIORITY_AUTHORIZE	AUTHORIZE	Authorize Track Receivable Priority Code
Track Receivable Priority Code	CMC_FA_TRACK_PRIORITY_CLOSE	CLOSE	Close Track Receivable Priority Code
Track Receivable Priority Code	CMC_FA_TRACK_PRIORITY_AMEND	UNLOCK	Unlock Track Receivable Priority Code
Track Receivable Priority Code	CMC_FA_TRACK_PRIORITY_DELETE	DELETE	Delete Track Receivable Priority Code
Customer Address Details	CMC_FA_CUST_ADDRESS_GET_ADDRTYPES	QUERY	Query Address Type for Customer Address
Customer Address Details	CMC_FA_CUST_ADDRESS_NEW	CREATE	Create Customer address
Customer Address Details	CMC_FA_CUST_ADDRESS_AMEND	UNLOCK	Modify Customer address
Customer Address Details	CMC_FA_CUST_ADDRESS_AUTHORIZE	AUTHORIZE	Authorize Customer address

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Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
Customer Address Details	CMC_FA_CUST_ADDRESS_AUTHQUERY	AUTHORIZE QUERY	Query Unauthorized Customer address
Customer Address Details	CMC_FA_CUST_ADDRESS_CLOSE	CLOSE	Close Customer address
Customer Address Details	CMC_FA_CUST_ADDRESS_DELETE	DELETE	Delete Customer address
Customer Address Details	CMC_FA_CUST_ADDRESS_HISTORY	HISTORY	Query History of Customer address
Customer Address Details	CMC_FA_CUST_ADDRESS_REJECT	REJECT	Reject Customer address
Customer Address Details	CMC_FA_CUST_ADDRESS_REOPEN	REOPEN	Reopen Customer address
Customer Address Details	CMC_FA_CUST_ADDRESS_VIEW	VIEW	View Customer address
Customer Address Details	CMC_FA_CUST_ADDRESS_VIEWALL	VIEWALL	View All Customer address
Address Type	CMC_FA_ADDRESS_TYPE_NEW	CREATE	Create Address Type
Address Type	CMC_FA_ADDRESS_TYPE_AMEND	UNLOCK	Modify Address Type
Address Type	CMC_FA_ADDRESS_TYPE_AUTHORIZE	AUTHORIZE	Authorize Address Type
Address Type	CMC_FA_ADDRESS_TYPE_AUTHQUERY	AUTHORIZE QUERY	Query Unauthorized Address Type
Address Type	CMC_FA_ADDRESS_TYPE_CLOSE	CLOSE	Close Address Type
Address Type	CMC_FA_ADDRESS_TYPE_DELETE	DELETE	Delete Address Type
Address Type	CMC_FA_ADDRESS_TYPE_HISTORY	HISTORY	Query History of Address Type
Address Type	CMC_FA_ADDRESS_TYPE_REJECT	REJECT	Reject Address Type
Address Type	CMC_FA_ADDRESS_TYPE_REOPEN	REOPEN	Reopen Address Type
Address Type	CMC_FA_ADDRESS_TYPE_VIEW	VIEW	View Address Type
Address Type	CMC_FA_ADDRESS_TYPE_VIEWALL	VIEWALL	View All Address Type
cmc-document-services	CFPM_FA_DOCUMENT_SERV_UPLOAD	POST	Fetch document by application reference No

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Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
cmc-document-services	CMC_FA_DOCUMENT_DELETE	DELETE	Delete document
cmc-document-services	CMC_FA_DOCUMENT_DELETE	DELETE	Document update (as provided)
cmc-document-services	CMC_FA_DOCUMENT_DELETE_BY_APPREF	DELETE	Delete document by App Ref
cmc-document-services	CMC_FA_DOCUMENT_GET_APP_NO	GET	Get by application number
cmc-document-services	CMC_FA_DOCUMENT_GET_BY_CUSTOMER_ID	GET	Get by customer ID
cmc-document-services	CMC_FA_DOCUMENT_GET_BY_ENTITY	GET	Get by entity ref no
cmc-document-services	CMC_FA_DOCUMENT_GET_BY_INDEX	GET	Get by index
cmc-document-services	CMC_FA_DOCUMENT_GET_BY_SINGLE_INDEX	GET	Get by index (single index)
cmc-document-services	CMC_FA_DOCUMENT_GET_ID	GET	Get by ID
cmc-document-services	CMC_FA_DOCUMENT_GET_LINKED	GET	Get linked documents
cmc-document-services	CMC_FA_DOCUMENT_SAVE	POST	Reference save
cmc-document-services	CMC_FA_DOCUMENT_SAVE	PUT	Reference update
cmc-document-services	CMC_FA_DOCUMENT_SAVE	POST	Save document
cmc-document-services	CMC_FA_DOCUMENT_UPDATE	PUT	Update document

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Table B-2 CMC- List of Functional Activity Codes

Screen Name	Functional Activity Codes for NEW	Functional Activity Codes for VIEW	Functional Activity Codes for AUTH	Functional Activity Codes for UNLOCK	Functional Activity Codes for CLOSE	Functional Activity Codes for REOPEN	Functional Activity Codes for DELETE
Account Entitlement Group	CMC_FA_ACC_ENT_GRP_SAVE	CMC_FA_ACC_ENT_GRP_GET	CMC_FA_ACC_ENT_GRP_AUTHORIZE	CMC_FA_ACC_ENT_GRP_MODIFY	CMC_FA_ACC_ENT_GRP_CLOSE	CMC_FA_ACC_ENT_GRP_REOPEN	CMC_FA_ACC_ENT_GRP_DELETE
Customer access group	CMC_FA_CUST_ACCESS_CREATE	CMC_FA_CUST_ACCESS_GET	CMC_FA_CUST_ACCESS_AUTHORIZE	CMC_FA_CUST_ACCESS_UNLOCK	CMC_FA_CUST_ACCESS_CLOSE	CMC_FA_CUST_ACCESS_REOPEN	CMC_FA_CUST_ACCESS_DELETE
Customer category	CMC_FA_CUSTOMER_CATEGORY_NEW	CMC_FA_CUSTOMER_CATEGORY_VIEW	CMC_FA_CUSTOMER_CATEGORY_AUTHORIZE	CMC_FA_CORE_CUST_CAT_SERVICE_MODIFY	CMC_FA_CUSTOMER_CATEGORY_CLOSE	CMC_FA_CUSTOMER_CATEGORY_REOPEN	CMC_FA_CUSTOMER_CATEGORY_DELETE
External Customer	CMC_FA_EXT_CUSTOMER_CREATE	CMC_FA_EXT_CUSTOMER_VIEW	CMC_FA_EXT_CUSTOMER_AUTHORIZE	CMC_FA_EXT_CUSTOMER_MODIFY	CMC_FA_EXT_CUSTOMER_CLOSE	CMC_FA_EXT_CUSTOMER_REOPEN	CMC_FA_EXT_CUSTOMER_DELETE
External Customer Account	CMC_FA_EXT_ACCOUNT_CREATE	CMC_FA_EXT_ACCOUNT_VIEW	CMC_FA_EXT_ACCOUNT_AUTHORIZE	CMC_FA_EXT_ACCOUNT_MODIFY	CMC_FA_EXT_ACCOUNT_CLOSE	CMC_FA_EXT_ACCOUNT_REOPEN	CMC_FA_EXT_ACCOUNT_DELETE
External Customer Account Structured Address	CMC_FA_RA_STR_ADDR_NEW	CMC_FA_RA_STR_ADDR_VIEWALL	CMC_FA_RA_STR_ADDR_AUTHORIZE	CMC_FA_RA_STR_ADDR_AMEND	CMC_FA_RA_STR_ADDR_CLOSE	CMC_FA_RA_STR_ADDR_REOPEN	CMC_FA_RA_STR_ADDR_DELETE
Liability	CMC_ELCM_FA_LIABILITY_NEW	CMC_ELCM_FA_LIABILITY_VIEWALL	CMC_ELCM_FA_LIAB_AUTHORIZE	CMC_ELCM_FA_LIAB_UPDATE	CMC_ELCM_FA_LIAB_CLOSE	CMC_ELCM_FA_LIAB_REOPEN	CMC_ELCM_FA_LIAB_DELETE
Liability customer	CMC_ELCM_FA_LIABCUST_CREATE	CMC_ELCM_FA_LIABCUST_VIEWALL	CMC_ELCM_FA_LIABCUST_AUTHORIZE	CMC_ELCM_FA_LIABCUST_UPDATE	CMC_ELCM_FA_LIABCUST_CLOSE	CMC_ELCM_FA_LIABCUST_REOPEN	CMC_ELCM_FA_LIABCUST_DELETE
Facility	CMC_ELCM_FA_FACILITY_NEW	CMC_ELCM_FA_FACILITY_VIEWALL	CMC_ELCM_FA_FACILITY_AUTHORIZE	CMC_ELCM_FA_FACILITY_UPDATE	CMC_ELCM_FA_FACILITY_CLOSE	CMC_ELCM_FA_FACILITY_REOPEN	CMC_ELCM_FA_FACILITY_DELETE
Collateral	CMC_ELCM_FA_COLLATERAL_NEW	CMC_ELCM_FA_COLLATERAL_VIEWALL	CMC_ELCM_FA_COLLAT_AUTHORIZE	CMC_ELCM_FA_COLLAT_UPDATE	CMC_ELCM_FA_COLLAT_CLOSE	CMC_ELCM_FA_COLLAT_REOPEN	CMC_ELCM_FA_COLLAT_DELETE
External Lending Entity	CMC_FA_EXT_LEND_ENT_NEW	CMC_FA_EXT_LEND_ENT_VIEWALL	CMC_FA_EXT_LEND_ENT_AUTHORIZE	CMC_FA_EXT_LEND_ENT_AMEND	CMC_FA_EXT_LEND_ENT_CLOSE	CMC_FA_EXT_LEND_ENT_REOPEN	CMC_FA_EXT_LEND_ENT_DELETE
Multi-Currency Account Linkage	CMC_FA_MCA_LINKAGE_CREATE	CMC_FA_MCA_LINKAGE_VIEW	CMC_FA_MCA_LINKAGE_AUTHORIZE	CMC_FA_MCA_LINKAGE_MODIFY	CMC_FA_MCA_LINKAGE_CLOSE	CMC_FA_MCA_LINKAGE_REOPEN	CMC_FA_MCA_LINKAGE_DELETE

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Table B-2 (Cont.) CMC- List of Functional Activity Codes

Screen Name	Functional Activity Codes for NEW	Functional Activity Codes for VIEW	Functional Activity Codes for AUTH	Functional Activity Codes for UNLOCK	Functional Activity Codes for CLOSE	Functional Activity Codes for REOPEN	Functional Activity Codes for DELETE
Forget Process - Forget Customer	CMC_FA_CORE_FORGET_CUSTOMER_CREATE	CMC_FA_CORE_FORGET_CUSTOMER_VIEW	CMC_FA_CORE_FORGET_CUSTOMER_AUTHORIZE	CMC_FA_CORE_FORGET_CUSTOMER_MODIFY			CMC_FA_CORE_FORGET_CUSTOMER_DELETE
Collaterals Pool	CMC_ELCM_FA_POOL_CREATE	CMC_ELCM_FA_POOL_VIEWALL	CMC_ELCM_FA_POOL_AUTHORIZE	CMC_ELCM_FA_POOL_UPDATE	CMC_ELCM_FA_POOL_CLOSE	CMC_ELCM_FA_POOL_REOPEN	CMC_ELCM_FA_POOL_DELETE

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