

# Oracle® Banking Microservices Architecture

## Oracle Banking Common Core User Guide



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## B Functional Activity Codes

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# Preface

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## Purpose

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

## 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.

## Documentation Accessibility

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## 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
<b>boldface</b>	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
<code>monospace</code>	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you 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 1 Acronyms and Abbreviations**

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

## Basic Actions

**Table 2 Basic Actions**

Action	Description
<b>Approve</b>	Used to approve the initiated report. This button is displayed, once the user click <b>Authorize</b> .
<b>Audit</b>	Used to view the maker details, checker details, and report status.
<b>Authorize</b>	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.
<b>Close</b>	Used to close a record. This action is available only when a record is created.
<b>Confirm</b>	Used to confirm the performed action.
<b>Cancel</b>	Used to cancel the performed action.
<b>Compare</b>	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 <b>Authorize</b> .
<b>Collapse All</b>	Used to hide the details in the sections. This button is displayed, once the user click <b>Compare</b> .
<b>Expand All</b>	Used to expand and view all the details in the sections. This button is displayed, once the user click <b>Compare</b> .
<b>New</b>	Used to add a new record. When the user click <b>New</b> , the system displays a new record enabling to specify the required data.  <div data-bbox="878 1188 1370 1365" style="border-left: 2px solid #0070C0; padding-left: 10px; background-color: #E6F2FF;"> <p> <b>Note:</b> The fields which are marked with asterisk are mandatory.</p> </div>
<b>OK</b>	Used to confirm the details in the screen.
<b>Save</b>	Used to save the details entered or selected in the screen.
<b>View</b>	Used to view the report details in a particular modification stage. This button is displayed in the widget, once the user click <b>Authorize</b> .
<b>View Difference only</b>	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 <b>Compare</b> .
<b>Unlock</b>	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 3 Symbols and Icons - Common










Symbol/Icon	Function
	Minimize
	Maximize
	Close
	Perform Search
	Open a list
	Add a new record
	Navigate to the first record
	Navigate to the last record
	Navigate to the previous record

Table 3 (Cont.) Symbols and Icons - Common










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



Table 4 Symbols and Icons - Audit Details









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

Table 5 Symbols and Icons - Widget

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

# 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.
- [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 BIP advices that are available for the process.
- [Amount Text Language](#)  
This topic describes the information to configure an amount text language.
- [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.
- [Customer Access Group](#)  
This topic describes the information to configure the customer access group.
- [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](#)  
This topic describes the information to configure ECA 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 Account](#)  
This topic describes the information to configure an external chart.
- [External Customer](#)  
This topic describes the information to configure the external customer details.
- [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.
- [GL Parameter Maintenance](#)  
This topic describes the information to configure an GL parameter maintenance.
- [Host Code](#)  
This topic describes the information to configure the host code.
- [Interest Rate](#)  
This topic describes the information to configure a Interest Rate.
- [Inter Branch Parameters Maintenance](#)  
This topic describes the information to configure an inter branch parameters maintenance.
- [Language Code](#)  
This topic describes the information to configure a language code.
- [Local Holiday](#)  
This topic describes the information to configure a local holiday.
- [Media](#)  
This topic describes the information to configure the media.
- [MIS Group](#)  
This topic describes the information to configure an MIS Group.
- [MIS Class](#)  
This topic describes the information to configure an MIS Class.
- [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](#)  
This topic describes the information to configure an Screenclass.
- [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](#)  
This topic describes the information to upload a source code
- [Upload Source Preference](#)  
This topic describes the information to configure upload source preference.

## 1.1 Account Entitlement Group

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

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.

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **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 displays.

**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
<b>Domain Code</b>	Search and select the required language code.
<b>Account Entitlement Group Code</b>	Specify the currency symbols.
<b>Account Entitlement Group Description</b>	Select a decimals as fraction value from the drop-down list.

4. Click **Save** to save the details.  
The amount text language is successfully created and can be viewed using the [View Account Entitlement Group](#) screen.
5. 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.

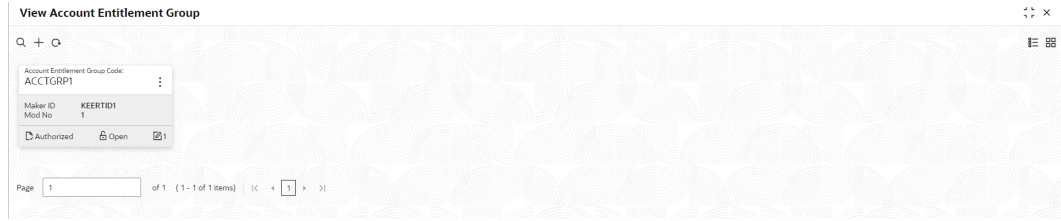
The user can configure an account entitlement group using [Create Account Entitlement Group](#) screen.

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **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 displays.

**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
<b>Language Code</b>	Displays the language code associated with the amount word.
<b>Authorization Status</b>	Displays the authorization status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Displays the status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>
<b>Modification Number</b>	Displays the number of modification performed on the record.

## 1.2 Additional Field Maintenance

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

Specify **User ID** and **Password**, and login to **Home** screen.

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

The **Additional Field Maintenance** screen displays.

**Figure 1-3 Additional Field Maintenance**



- View the details from **Additional Fields Maintenance** screen  
For more information on fields, refer to the field description table.


**Table 1-3 Additional Field Maintenance - Field Description**

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

- On **Additional Field Maintenance** screen, click + button.  
The **Additional Fields Maintenance** screen displays.

**Figure 1-4 Additional Fields Maintenance**

- specify the fields on **Additional Fields Maintenance** screen.

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

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

**Table 1-4 Additional Fields Maintenance – Field Description**

Field	Description
<b>Component Name</b>	Click <b>Search</b> icon to view and select the component name from the list of
<b>Product Code</b>	Click <b>Search</b> icon to view and select the product code from the list of
<b>Product Name</b>	Displays the product name for the specified product code.
<b>Description</b>	Displays the description as <b>Additional Fields</b> , and it can be modified.

Table 1-4 (Cont.) Additional Fields Maintenance – Field Description

Field	Description
<b>Application ID</b>	Displays the Application ID.
<b>Construct Additional Fields MetaData</b>	Specify the details under this section to configure metadata for each field.
<b>Select</b>	Check this box to select/unselect a row.
<b>Field ID</b>	Specify the field ID.
<b>Field Label</b>	Specify the field label.
<b>Category</b>	Specify the category.
<b>Field Type</b>	Select the field type from the drop-down values.
<b>Edit</b>	Click this icon to edit the fields in the row.
<b>Mandatory</b>	Check this box if the field needs to be configured as mandatory.
<b>Construct Validation MetaData</b>	Specify the details under this section for validations to be applied on configured fields.
<b>Select</b>	Check this box to select/unselect a row.
<b>Validation Name</b>	Specify the validation name.
<b>Validation Template To Use</b>	Select the template to be used for the validation.
<b>Custom Error Message</b>	Specify the error message that needs to be displayed for the lidti
<b>Edit Arguments</b>	Click this icon to edit the fields in the row.

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

The user can view the confirmation advice details in the [Additional Field Maintenance](#).

## 1.3 Advice

This topic describes the information to configure the various BIP 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.

### 1.3.1 Create Advice

This topic describes the systematic instructions to configure advices.

Specify **User ID** and **Password**, and login to **Home** screen.

- On **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Advice**.
- Under **Advice**, click **Create Advice**.

The **Create Advice** screen displays.



**Figure 1-5 Create Advice**

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

 **Note:**

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

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

**Table 1-5 Create Advice – Field Description**

Field	Description
<b>Advice Name</b>	Specify the name of the advice.
<b>Advice Description</b>	Specify the information about the advice.
<b>Micro Service Name</b>	Specify the name of the micro service.
<b>Swift Micro Service</b>	Specify the information about the swift micro service.
<b>Micro Service Endpoint</b>	Specify the endpoint micro service.
<b>Application Name</b>	Specify the application name for which advice is generated.
<b>Application Description</b>	Specify the additional information about the application.
<b>Media</b>	Search and select the required media.
<b>Branch</b>	Search and select the required branch.
<b>Currency</b>	Search and select the required currency.
<b>Report Locale</b>	Specify the locale report details.
<b>Report Absolute Path</b>	Specify the report absolute path.
<b>Format</b>	Select a download file format for an advice from the drop-down list. The available options are: <ul style="list-style-type: none"> <li>• <b>PDF</b></li> <li>• <b>PPTX</b></li> <li>• <b>HTML</b></li> <li>• <b>XLS</b></li> <li>• <b>RTF</b></li> </ul>
<b>Swift Endpoint</b>	Specify the swift endpoint.

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

The advice is successfully created and can be viewed using the [View Advice](#) screen.

## 1.3.2 View Advice

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

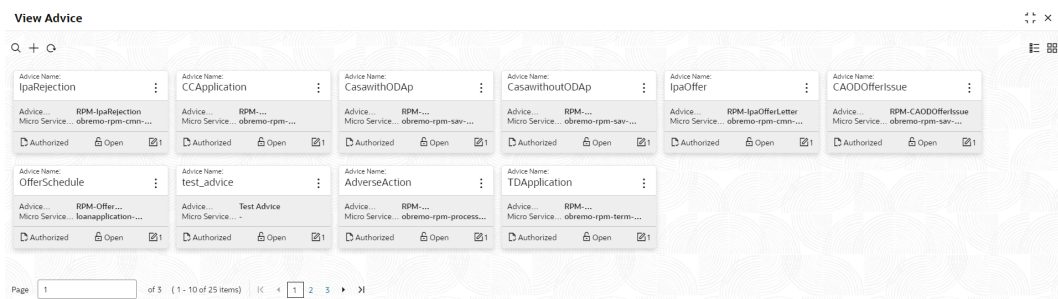
The user can configure an advice for a process using the [Create Advice](#) screen.

Specify **User ID** and **Password**, and login to **Home** screen.

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

The **View Advice** screen displays.

**Figure 1-6 View Advice**



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

**Table 1-6 View Advice – Field Description**

Field	Description
<b>Advice Name</b>	Displays the name of the advice.
<b>Advice Description</b>	Displays information about the advice.
<b>Micro Service Name</b>	Displays the name of the micro service.
<b>Authorization Status</b>	Displays the authorization status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Displays the status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>
<b>Modification Number</b>	Displays the number of modification performed on the record.

## 1.4 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.

## 1.4.1 Create Amount Text Language

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

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Amount Text Language**.
2. Under **Amount Text Language**, click **Create Amount Text Language**.  
The **Create Amount Text Language** screen displays.

**Figure 1-7 Create Amount Text Language**

3. Specify the fields on **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 1-7 Create Amount Text Language – Field Description**

Field	Description
<b>Language Code</b>	Search and select the required language code.
<b>Currency Symbol</b>	Specify the currency symbols.
<b>Decimals As Fraction</b>	Select a decimals as fraction value from the drop-down list.

**Table 1-7 (Cont.) Create Amount Text Language – Field Description**

Field	Description
<b>Final Text</b>	Specify the final text for the amount word currency list.
<b>CCY</b>	Search and select the CCY.
<b>Post Decimal</b>	Specify the post decimal details.
<b>Pre Decimal</b>	Specify the pre decimal details.
<b>Text Before</b>	Select an option for the before text.
<b>Text Between</b>	Specify the text that must appear between the amount word currency list.
<b>Amount</b>	Select the amount details.
<b>One Flag</b>	Select an option for the amount word text list.
<b>Text</b>	Specify the text for the amount word.

4. Click + icon to add a new row.
5. Click **Save** to save the details.

The amount text language is successfully created and can be viewed using the [View Amount Text Language](#) screen.

## 1.4.2 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.

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **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 displays.

**Figure 1-8 View Amount Text Language**

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

**Table 1-8 View Amount Text Language – Field Description**

Field	Description
<b>Language Code</b>	Displays the language code associated with the amount word.
<b>Authorization Status</b>	Displays the authorization status of the record. The options are: <ul style="list-style-type: none"><li>• <b>Authorized</b></li><li>• <b>Rejected</b></li><li>• <b>Unauthorized</b></li></ul>
<b>Record Status</b>	Displays the status of the record. The options are: <ul style="list-style-type: none"><li>• <b>Open</b></li><li>• <b>Closed</b></li></ul>
<b>Modification Number</b>	Displays the number of modification performed on the record.

## 1.5 BIC Directory

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

As part of setting up basic information, the user must maintain Bank Identifier Codes (BIC).

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.

### 1.5.1 Create BIC Directory

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

Specify **User ID** and **Password**, and login to **Home** screen.

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

The **Create BIC Directory** screen displays.

**Figure 1-9 Create BIC Directory**

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

 **Note:**

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

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

**Table 1-9 Create BIC Directory – Field Description**

Field	Description
<b>BIC Code</b>	Specify the unique BIC Code by which the bank is identified by SWIFT.
<b>Bank Name</b>	Specify the name for the bank.
<b>Customer Number</b>	Click <b>Search</b> icon to view and select the required customer number.
<b>Customer Name</b>	Displays the customer name based on the selected <b>Customer Number</b> .
<b>Bank Address 1-3</b>	Displays the bank address 1-3 based on the selected <b>Customer Number</b> .
<b>SWIFT Key</b>	Specify the swift key details.
<b>Telex Key</b>	Specify the unique telex key for the BIC directory.
<b>SWIFT Key Arrangement</b>	Select the SWIFT key arrangement from the drop-down list. The available options are: <ul style="list-style-type: none"> <li>• <b>Yes</b></li> <li>• <b>No</b></li> </ul>

Table 1-9 (Cont.) Create BIC Directory – Field Description

Field	Description
<b>Relationship</b>	Select one of the following options: <ul style="list-style-type: none"> <li><b>No:</b> If selected, indicates that the BIC Entity is not a customer of your bank</li> <li><b>Mail:</b> 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.</li> <li><b>Keys:</b> 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.</li> </ul>
<b>Sub-type Code</b>	Click <b>Search</b> icon to view and select the required sub-type code.
<b>BEI Indicator</b>	Displays BEI Indicator based on the selected <b>Sub-type Code</b> .
<b>ADB Member</b>	Select the ADB member from the drop-down list. The available options are: <ul style="list-style-type: none"> <li><b>Not applicable</b></li> <li><b>Yes</b></li> <li><b>No</b></li> </ul>
<b>MT103+ Preferred</b>	By default, this is disabled. If selected, indicates the counter party whose BIC code details you are capturing capacitate to receive payment messages in the MT 103 format.
<b>Blacklisted</b>	By default, this is disabled. If selected, indicates the BIC entity is blacklisted.
<b>CUG Member</b>	By default, this is disabled. If selected, indicates the BIC entity is a closed user group member.
<b>Remit Member</b>	By default, this is disabled. If selected, indicates the customer is registered with MT 103 extended remittance information multiple user group.
<b>Update During Upload</b>	By default, this is disabled. If selected, updated the BIC directory during an upload.
<b>Multi-Customer Credit Transfer</b>	By default, this is disabled. If selected, indicates multiple credit transfer feature (MT102 support) exists between the bank and the BIC entity.
<b>Generate 102+</b>	By default, this is disabled. If selected, generates 102+ message.
<b>Maximum Size in Bytes</b>	Specify the maximum size.
<b>Generate MT101</b>	By default, this is disabled. If selected, indicates MT101 can be sent/received from this BIC. Select to generate MT101 message.
<b>Number of Transactions Per Page</b>	Specify the number of transactions to view per page. If not specified, the value is defaulted to 10.
<b>Real Customer Number</b>	Click <b>Search</b> icon to view and select the required real customer number.
<b>Real Customer Name</b>	Based on the Real Customer Number selected, the information is auto-populated.

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

The BIC directory is successfully created and can be viewed using the [View BIC Directory](#) screen.

## 1.5.2 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.

Specify **User ID** and **Password**, and login to **Home** screen.

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

The **View BIC Directory** screen displays.

**Figure 1-10 View BIC Directory**



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

**Table 1-10 View BIC Directory – Field Description**

Field	Description
<b>Customer Number</b>	Displays the number of the customer.
<b>Sub-type Code</b>	Displays the sub-type code associated with the customer number.
<b>BIC Code</b>	Displays the defined BIC code for the associated customer.
<b>Authorization Status</b>	Displays the authorization status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Displays the status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>
<b>Modification Number</b>	Displays the number of modification performed on the record.

## 1.6 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.

## 1.6.1 Configure Branch EOD

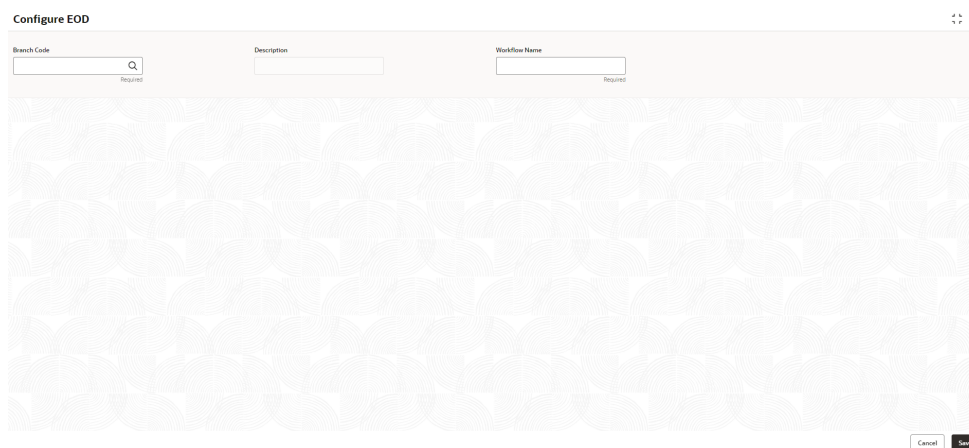
This topic describes the systematic instructions to create / configure the EOD work-flow with a branch.

Specify **User ID** and **Password**, and login to **Home** screen.

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

The **Configure EOD** screen displays.

**Figure 1-11 Configure EOD**



The screenshot shows the 'Configure EOD' web interface. At the top, there are three input fields: 'Branch Code', 'Description', and 'Workflow Name'. Each field has a search icon and is labeled 'Required' below it. The main area of the screen is a large, light-colored grid with a subtle pattern. At the bottom right, there are 'Cancel' and 'Save' buttons.

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

 **Note:**

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

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

**Table 1-11 Configure EOD – Field Description**

Field	Description
<b>Branch Code</b>	Specify the branch code that is associated with the logged in user.
<b>Description</b>	Displays the description of the branch.
<b>Workflow Name</b>	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.

## 1.6.2 View Branch EOD

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

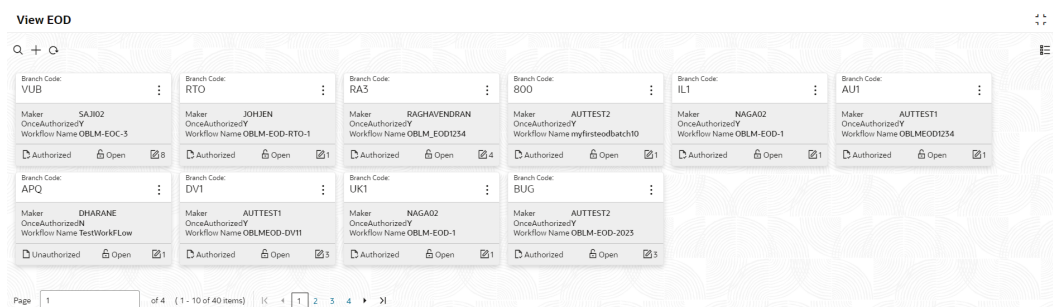
The user can configure EOD using [Configure EOD](#) screen.

Specify **User ID** and **Password**, and login to **Home** screen.

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

The **View EOD** screen displays.

**Figure 1-12 View EOD**



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

**Table 1-12 View EOD – Field Description**

Field	Description
<b>Branch Code</b>	Displays the branch code details.
<b>Maker</b>	Displays the name of the maker.
<b>Workflow Name</b>	Displays the name of the work-flow.

Table 1-12 (Cont.) View EOD – Field Description

Field	Description
<b>Authorization Status</b>	Displays the authorization status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Displays the status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>
<b>Modification Number</b>	Displays the number of modification performed on the record.

### 1.6.3 Invoke Branch EOD

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

The work-flow mapping can be configured using [Configure Branch EOD](#) screen.

Specify **User ID** and **Password**, and login to **Home** screen.

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

The **Invoke EOD** screen displays.

Figure 1-13 Invoke EOD

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

#### Note:

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

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

**Table 1-13 Invoke EOD – Field Description**

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

4. Click **Start** to invoke EOD for selected branch and click **Refresh** to view the current status of batch.
5. 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.

6. Click **Reset** to clear the branch selected.
7. Click **Refresh** to view the current status of batch.
8. Mouse-hover on the task to view the relevant details such as Start time, End time, and Error if any.

## 1.7 Checklists

This topic describes the information to configure an Checklists.

This topic contains the following subtopics:

- [Checklists Linkage Maintenance](#)  
This topic describes the systematic instructions to view the list and configure the checklists linkage maintenance.
- [Checklists Maintenance](#)  
This topic describes the systematic instructions to view the list and configure the checklists maintenance.

### 1.7.1 Checklists Linkage Maintenance

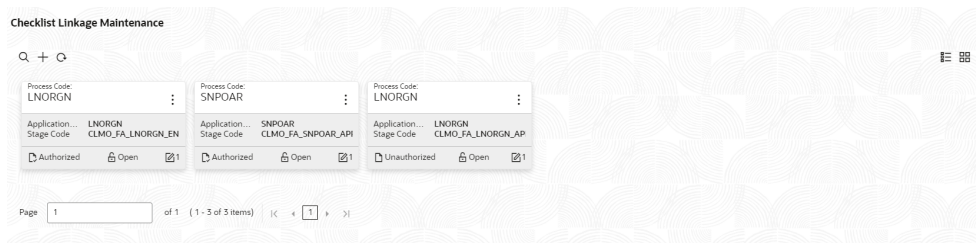
This topic describes the systematic instructions to view the list and configure the checklists linkage maintenance.

Specify **User ID** and **Password**, and login to **Home** screen.

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

The **Checklists Linkage Maintenance** screen displays.


**Figure 1-14 Checklists Linkage Maintenance**



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

**Table 1-14 Checklists Linkage Maintenance – Field Description**

Field	Description
<b>Process Code</b>	Displays the process code.
<b>Application Category Code</b>	Displays the application category code
<b>Stage Code</b>	Displays the stage code.
<b>Authorization Status</b>	Displays the authorization status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Displays the status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>
<b>Modification Number</b>	Displays the number of modification performed on the record.

- Click  to configure the new checklists linkage maintenance.

The **Checklists Linkage Maintenance** screen displays.

**Figure 1-15 Checklists Linkage Maintenance**
**Note:**


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

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

**Table 1-15 Checklists Linkage Maintenance – Field Description**

Field	Description
<b>Process Code</b>	Click <b>Search</b> and select the process code to maintain the checklists.
<b>Process Name</b>	Displays the name of process based on the process code selection.
<b>Application Category Code</b>	Select the application category code from the drop-down list.
<b>Application Category Name</b>	Displays the name of the application category.
<b>Stage Code</b>	Select the stage code from the drop-down list.
<b>Stage Name</b>	Displays the name of the stage selected.



4. Click  to add a row and provide the checklist code details.
5. Click **Save** to save the details.
6. Click **Cancel** to discard the changes and close the screen.

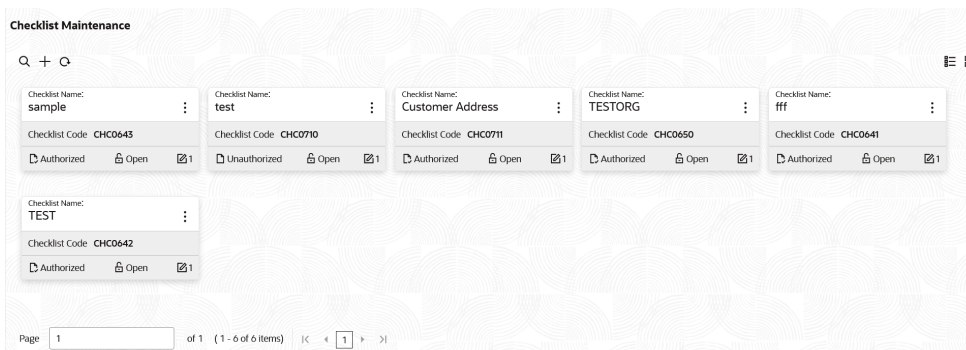
## 1.7.2 Checklists Maintenance

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

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Checklists**.
2. Under **Checklists**, click **Checklists Maintenance**.  
The **Checklists Maintenance** screen displays.


**Figure 1-16 Checklists Maintenance**



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

**Table 1-16 Checklists Maintenance – Field Description**

Field	Description
<b>Checklist Name</b>	Displays the name of the checklist.
<b>Checklist Code</b>	Displays the code of the checklist maintained.
<b>Authorization Status</b>	Displays the authorization status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Displays the status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>
<b>Modification Number</b>	Displays the number of modification performed on the record.

3. Click  to configure the new checklists maintenance.  
The **Checklists** screen displays.

**Figure 1-17 Checklists**
 **Note:**

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

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

**Table 1-17 Checklists Maintenance – Field Description**

Field	Description
<b>Checklist Code</b>	Displays the auto-generated code for each new checklist.
<b>Checklist Name</b>	Specify the name of the checklist to be maintained.

4. Click **Save** to save the details.
5. Click **Cancel** to discard the changes and close the screen.

## 1.8 Country Code

This topic describes the information to configure the Country code.

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.

### 1.8.1 Create Country Code

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

Specify **User ID** and **Password**, and login to **Home** screen.



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

The **Create Country Code** screen displays.

**Figure 1-18 Create Country Code**

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

**Note:**

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

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

**Table 1-18 Create Country Code – Field Description**

Field	Description
<b>Country Code</b>	Specify the country code.
<b>Country Name</b>	Specify the name of the country.
<b>Alternate Country Code</b>	Specify the alternate country code.
<b>Region Code</b>	Specify the region code.
<b>ISO Country Code</b>	Specify the ISO country code.
<b>ISO Code</b>	Specify the ISO code.
<b>Blacklist</b>	By default, this is disabled. If selected, indicates the country is blacklisted.
<b>EU Member</b>	By default, this is disabled. If selected, indicates the country is recognized by Swift as a part of the Intra European countries.
<b>Generate 205</b>	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.

**Table 1-18 (Cont.) Create Country Code – Field Description**

Field	Description
<b>IBAN Check Required</b>	By default, this is disabled. If selected, indicates check required for an IBAN is mandatory.
<b>BIC Clearing Code</b>	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.
<b>Intra European</b>	By default, this is disabled. If selected, indicates the country is an intra European country.

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

The country code is successfully created and can be viewed using the [View Country Code](#) screen.

## 1.8.2 View Country Code

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

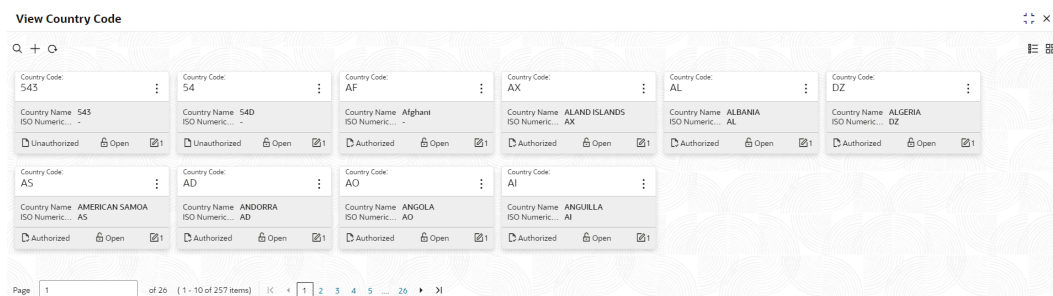
The user can configure country code using [Create Country Code](#) screen.

Specify **User ID** and **Password**, and login to **Home** screen.

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

The **View Country Code** screen displays.

**Figure 1-19 View Country Code**



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

**Table 1-19 View Country Code – Field Description**

Field	Description
<b>Country Code</b>	Displays the code of the country.
<b>ISO Numeric Code</b>	Displays the ISO numeric code details of the country code.

Table 1-19 (Cont.) View Country Code – Field Description

Field	Description
<b>Authorization Status</b>	Displays the authorization status of the record. The options are: <ul style="list-style-type: none"><li>• <b>Authorized</b></li><li>• <b>Rejected</b></li><li>• <b>Unauthorized</b></li></ul>
<b>Record Status</b>	Displays the status of the record. The options are: <ul style="list-style-type: none"><li>• <b>Open</b></li><li>• <b>Closed</b></li></ul>
<b>Modification Number</b>	Displays the number of modification performed on the record.

## 1.9 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.

### 1.9.1 Create Currency Definition

This topic describes the systematic instructions to define currency.

Specify **User ID** and **Password**, and login to **Home** screen.

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

The **Create Currency Definition** screen displays.

**Figure 1-20 Create Currency Definition**

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

**Note:**

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

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

**Table 1-20 Create Currency Definition – Field Description**

Field	Description
<b>Currency Code</b>	Specify the currency code.
<b>Maintenance Country</b>	Click <b>Search</b> and select the required maintenance country.
<b>Currency Name</b>	Specify the name of the currency.
<b>Alternate Currency Code</b>	Specify the code of the alternate currency.
<b>Currency Type</b>	Specify the currency type.
<b>ISO Numerical Currency Code</b>	Specify the International Standardization Organization numerical currency code.

Table 1-20 (Cont.) Create Currency Definition – Field Description

Field	Description
<b>Currency Country</b>	Click <b>Search</b> icon to view and select the required currency country.
<b>Currency Decimals</b>	Specify the currency decimals.
<b>Currency Interest Method</b>	Select the currency interest method from the drop-down list.
<b>Currency Spot Days</b>	Specify the number of spot working days applicable for the currency.
<b>Foreign Exchange Netting Days</b>	Specify the number of days for the foreign exchange netting.
<b>Settlement Message Days</b>	Select the settlement message days.
<b>Position GL</b>	Click <b>Search</b> icon to view and select the required position GL.
<b>Position Equivalent GL</b>	Search and select the required position equivalent GL.
<b>Currency Tolerance Limit</b>	Specify the currency tolerance limit.
<b>Index Base Currency</b>	Click <b>Search</b> icon to view and select the required index base currency.
<b>Commodity Code</b>	By default, this is disabled. If selected, enables a commodity code.
<b>Cut Off Days</b>	Specify the cut off days for the payment transaction involving the currency.
<b>Cut Off Hour</b>	Specify the hour of the day for the cut off.
<b>Cut Off Min</b>	Specify the minute of the hour for the cut off.
<b>CLS Currency</b>	By default, this is disabled. If selected, allow 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.
<b>Generate 103+</b>	By default, this is disabled. If selected, generate outgoing MT 103 messages in the MT 103 + format.
<b>Index Flag</b>	By default, this is disabled. If selected, derives index rate of the currency.
<b>Euro Conversion Required</b>	By default, this is disabled. If selected, indicates the Euro conversion is required.
<b>New Cover Message Format Required</b>	By default, this is disabled. If selected, indicates a new cover message format is required.
<b>Validate Tag-50F</b>	By default, this is disabled. If selected, indicates validations must be performed for the 50F details captured for the ordering customer during contract input.
<b>Currency Round Rule</b>	Select the currency round rule from the drop-down list.
<b>Currency Round Unit</b>	Specify the currency round unit.
<b>Currency Format Mask</b>	Select one of the currency format.
<b>Currency Euro Type</b>	Select one of the currency Euro type. The available options are: <ul style="list-style-type: none"> <li>• <b>EURO Currency</b></li> <li>• <b>In Currency</b></li> <li>• <b>Out Currency</b></li> <li>• <b>EUTO Closed</b></li> </ul>
<b>Credit Auto Exchange Rate Limit</b>	Specify the credit automatic exchange rate limit.

**Table 1-20 (Cont.) Create Currency Definition – Field Description**

Field	Description
<b>Debit Auto Exchange Rate Limit</b>	Specify the debit automatic exchange rate limit.
<b>Country Code</b>	Click <b>Search</b> icon to view and select the required country code.
<b>Country Name</b>	Specify the name of the country.
<b>Currency Code</b>	Click <b>Search</b> icon to view and select the required currency code.

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

The Currency definition is successfully created and can be viewed using the [View Currency Definition](#) screen.

## 1.9.2 View Currency Definition

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

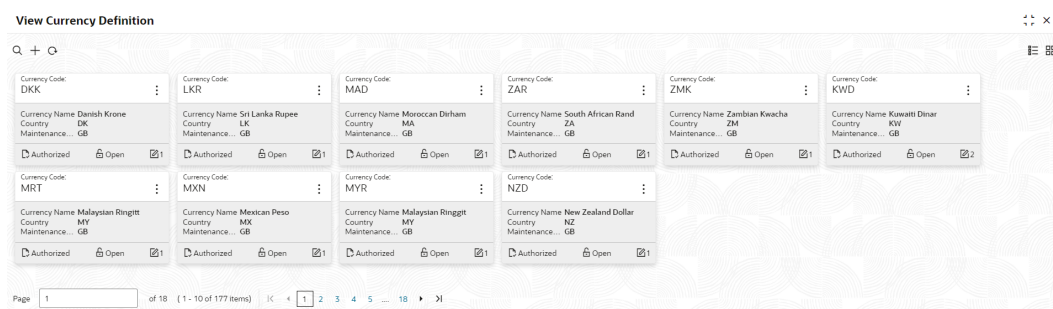
The user can configure currency definition using [Create Currency Definition](#) screen.

Specify **User ID** and **Password**, and login to **Home** screen.

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

The **View Currency Definition** screen displays.

**Figure 1-21 View Currency Definition**



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

**Table 1-21 View Currency Definition – Field Description**

Field	Description
<b>Currency Code</b>	Displays the code of the currency.
<b>Currency Name</b>	Displays the name of the currency.
<b>Alternate Currency Code</b>	Displays the code of the alternate currency.
<b>Country</b>	Displays the country associated with the currency.
<b>Maintenance Country</b>	Displays the maintenance country.
<b>Authorization Status</b>	Displays the authorization status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Displays the status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>
<b>Modification Number</b>	Displays the number of modification performed on the record.

## 1.10 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 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.

## 1.10.1 Create Currency Exchange Rate

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

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **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 displays.

**Figure 1-22 Create Currency Exchange Rate**

3. Specify the fields on **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 1-22 Create Currency Exchange Rate – Field Description**

Field	Description
<b>Branch Code</b>	Click <b>Search</b> icon to view and select the required branch code.
<b>Currency 1</b>	Click <b>Search</b> icon to view and select the required currency.
<b>Currency 2</b>	Displays the currency 2 based on selected <b>Currency1</b> .
<b>Currency Rule</b>	Specify the currency rule details.
<b>Rate Type</b>	Select a rate type from the drop-down list.
<b>Buy Rate</b>	<p>Displays the Buy Rate for the Currency Exchange. Buy Rate is calculated based on Spread Definition maintained in the Currency Pair Maintenance screen.</p> <p>The effective spread is calculated using any of the following two methods:</p> <p><b>a. Percentage:</b> If the <b>Spread Definition</b> is selected as <b>Percentage</b>, 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.</p> <p><b>b. Points</b> If you select <b>Spread Definition</b> as <b>Points</b> 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</p>
<b>Buy Spread</b>	Specify the buy spread details.
<b>Mid Rate</b>	Specify the mid-rate details.
<b>Sale Spread</b>	Specify the sale spread details.
<b>Sale Rate</b>	<p>Displays the Sale Rate for the Currency Exchange. Sale Rate is calculated based on Spread Definition maintained in the Currency Pair Maintenance screen.</p> <p>The effective spread is calculated using any of the following two methods:</p> <p><b>a. Percentage</b> If the <b>Spread Definition</b> is selected as <b>Percentage</b>, 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.</p> <p><b>b. Points</b> If you select <b>Spread Definition</b> as <b>Points</b> 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.</p>
<b>Rate Date</b>	Select a rate date from the drop-down calendar.

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

The currency exchange rate is successfully created and can be viewed using the [View Currency Exchange Rate](#) screen.

## 1.10.2 View Currency Exchange Rate

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

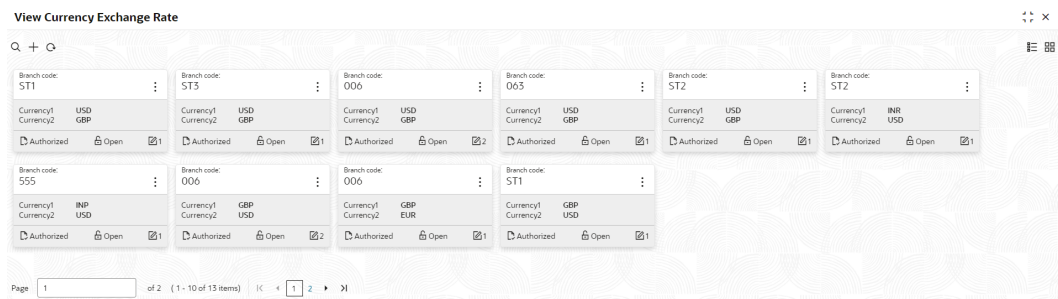
The user can configure currency exchange rate using [Create Currency Exchange Rate](#) screen.

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **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 displays.

**Figure 1-23 View Currency Exchange Rate**



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

**Table 1-23 View Currency Exchange Rate – Field Description**

Field	Description
<b>Branch Code</b>	Displays the code of the branch.
<b>Currency 1-2</b>	Displays the currency associated with the branch code.
<b>Authorization Status</b>	Displays the authorization status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Displays the status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>
<b>Modification Number</b>	Displays the number of modification performed on the record.

## 1.11 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.

### 1.11.1 Create Currency Holiday Master

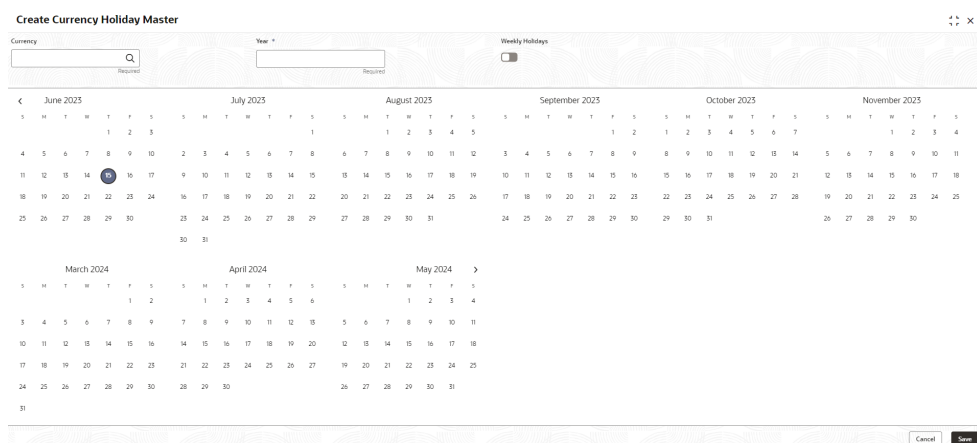
This topic describes the systematic instructions to configure a currency holiday.

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **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 displays.

**Figure 1-24 Create Currency Holiday Master**



3. Specify the fields on **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 1-24 Create Currency Holiday Master – Field Description**

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

- Select the dates using the calendar.

 **Note:**

The selected dates displays in blue highlighted circle.

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

The currency holiday master is successfully created and can be viewed using the [View Currency Holiday Master](#) screen.

## 1.11.2 View Currency Holiday Master

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

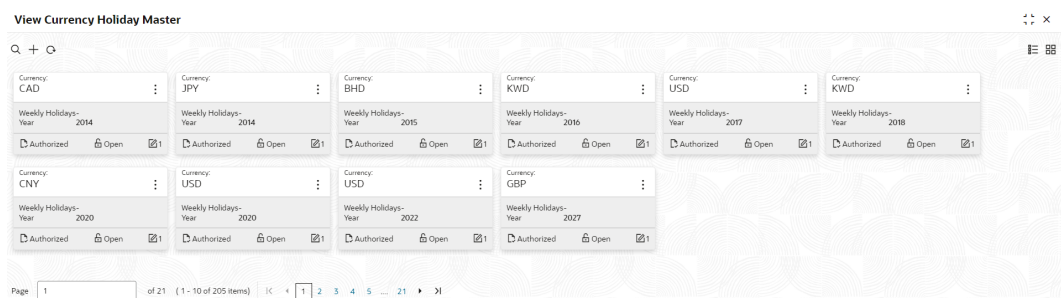
The user can configure currency holiday master using [Create Currency Holiday Master](#) screen.

Specify **User ID** and **Password**, and login to **Home** screen.

- On **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Currency Holiday Master**.
- Under **Currency Holiday Master**, click **View Currency Holiday Master**.

The **View Currency Holiday Master** screen displays.

**Figure 1-25 View Currency Holiday Master**



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

**Table 1-25 View Currency Holiday Master – Field Description**

Field	Description
<b>Currency Rate Type</b>	Displays the currency details.
<b>Weekly Holidays</b>	Displays the weekly holidays associated with the currency.
<b>Authorization Status</b>	Displays the authorization status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Displays the status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>
<b>Modification Number</b>	Displays the number of modification performed on the record.

## 1.12 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:

- [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.

### 1.12.1 Create Currency Pair Definition

This topic describes the systematic instructions to define currency pair.

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **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 displays.

**Figure 1-26 Create Currency Pair Definition**

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

**Note:**

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

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

**Table 1-26 Create Currency Pair Definition – Field Description**

Field	Description
<b>Currency 1-2</b>	Click <b>Search</b> 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.
<b>Maintenance Country</b>	Click <b>Search</b> icon to view and select the required maintenance country.
<b>Check through Currency</b>	By default, this is disabled. If selected, it indicates a check through currency.
<b>Through Currency</b>	Click <b>Search</b> icon to view and select the required through currency for which the exchange rate between the currencies must be calculated.

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

Field	Description
<b>Number of Units</b>	Select one of the number of units. The available options are below: <ul style="list-style-type: none"> <li>• <b>One</b></li> <li>• <b>Hundred</b></li> <li>• <b>Thousand</b></li> </ul>
<b>Points Multiplier</b>	Specify the points multiplier.
<b>Quotation</b>	Select one of the required quotation: <ul style="list-style-type: none"> <li>• <b>Direct:</b> 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</li> <li>• <b>Indirect:</b> 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</li> </ul>
<b>Spread Definition</b>	Select the required spread definition. The effective spread can be calculated using any of the following two methods: <ul style="list-style-type: none"> <li>• <b>Percentage:</b> Spread/100 x mid rate</li> <li>• <b>Points:</b> Spread x points multiplier</li> </ul> The method of <b>Spread Definition</b> that user specify applies to two instances: <ul style="list-style-type: none"> <li>• While maintaining exchange rates for the currency pair.</li> <li>• While maintaining customer spread for the currency pair.</li> </ul>

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

The currency pair definition is successfully created and can be viewed using the [View Currency Pair Definition](#) screen.

## 1.12.2 View Currency Pair Definition

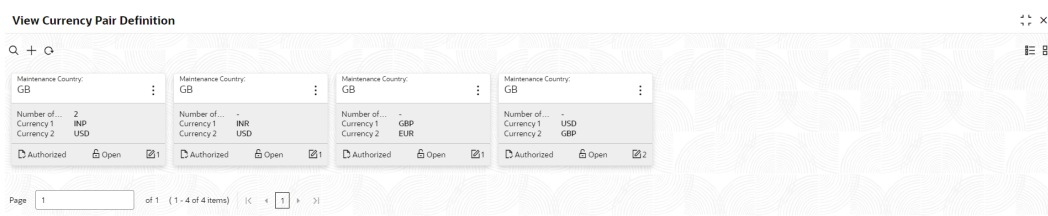
This topic describes the systematic instructions to view the list of define a currency pair.

The user can configure currency pair definition using [Create Currency Pair Definition](#) screen.

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **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 displays.

**Figure 1-27 View Currency Pair Definition**

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

**Table 1-27 View Currency Pair Definition – Field Description**

Field	Description
<b>Maintenance Country</b>	Displays the maintenance country details.
<b>Number of Units</b>	Displays the number of units.
<b>Currency 1-2</b>	Displays the currency associated with the country.
<b>Authorization Status</b>	Displays the authorization status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Displays the status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>
<b>Modification Number</b>	Displays the number of modification performed on the record.

## 1.13 Currency Rate Type

This topic describes the information to configure a Currency Rate.

This topic contains the following subtopics:

- [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.

### 1.13.1 Create Currency Rate Type

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

Specify **User ID** and **Password**, and login to **Home** screen.


1. On **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 displays.



**Figure 1-28 Create Currency Rate Type**

3. Specify the fields on **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 1-28 Create Currency Rate Type – Field Description**

Field	Description
<b>Currency Rate Type</b>	Specify the currency rate type.
<b>Currency Rate Type Description</b>	Specify additional information about the currency rate type.

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

The currency rate type is successfully created and can be viewed using the [View Currency Rate Type](#) screen.

## 1.13.2 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.

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **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 displays.

**Figure 1-29 View Currency Rate Type**



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

**Table 1-29 View Currency Rate Type – Field Description**

Field	Description
<b>Currency Rate Type</b>	Displays the currency rate type.
<b>Authorization Status</b>	Displays the authorization status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Displays the status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>
<b>Modification Number</b>	Displays the number of modification performed on the record.

## 1.14 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.

### 1.14.1 Create Customer Access Group

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

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **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 displays.

**Figure 1-30 Create Customer Access Group**

3. Specify the fields on **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 1-30 Create Customer Access Group – Field Description**

Field	Description
<b>Access Code</b>	Specify the access group.
<b>Access Code Description</b>	Specify the additional information about the access group.

4. 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.

## 1.14.2 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.

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **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 displays.

**Figure 1-31 View Customer Access Group**



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

**Table 1-31 View Customer Access Group – Field Description**

Field	Description
<b>Access Group</b>	Displays the access group.
<b>Access Group Description</b>	Displays the additional information about the customer access group.
<b>Authorization Status</b>	Displays the authorization status of the access group. The options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Displays the record status of the access group. The options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>
<b>Modification Number</b>	Displays the number of modification performed on the record.

## 1.15 Customer Category

This topic describes the information to configure a Customer Category

This topic contains the following subtopics:

- [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.

## 1.15.1 Create Customer Category

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

Specify **User ID** and **Password**, and login to **Home** screen.

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 displays.

**Figure 1-32 Create Customer Category**

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

 **Note:**

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

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

**Table 1-32 Create Customer Category – Field Description**

Field	Description
<b>Customer Category</b>	Specify the customer category.
<b>Customer Category Description</b>	Specify the additional information about the customer category.
<b>Populate Changes</b>	By default, this is disabled. If selected, displays the changes.

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

The customer category is successfully created and can be viewed using the [View Customer Category](#) screen.

## 1.15.2 View Customer Category

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

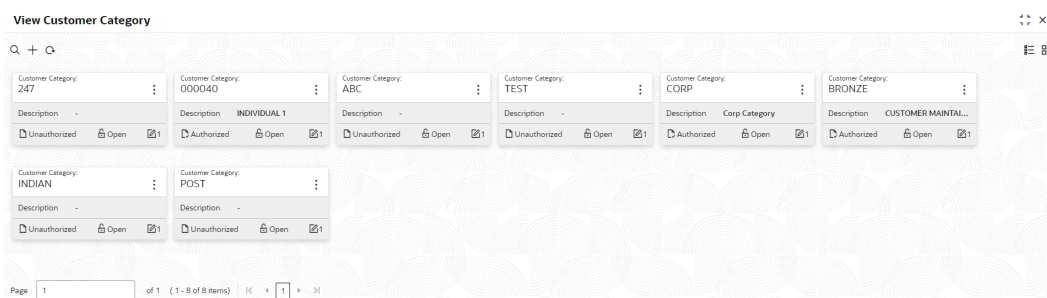
The user can configure customer category using [Create Customer Category](#) screen.

Specify **User ID** and **Password**, and login to **Home** 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 displays.

**Figure 1-33 View Customer Category**



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

**Table 1-33 View Customer Category – Field Description**

Field	Description
<b>Customer Category</b>	Displays the customer category.
<b>Authorization Status</b>	Displays the authorization status of the report. The options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Displays the record status of the report. The options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>
<b>Modification Number</b>	Displays the number of modification performed on the record.

## 1.16 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.

## 1.16.1 Create Data Segment

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

Specify **User ID** and **Password**, and login to **Home** screen.

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

The **Create Data Segment** screen displays.

**Figure 1-34 Create Data Segment**

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

 **Note:**

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

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

**Table 1-34 Create Data Segment – Field Description**

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

**Table 1-34 (Cont.) Create Data Segment – Field Description**

Field	Description
<b>Purpose</b>	Specify the purpose details.

- 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.

## 1.16.2 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.

Specify **User ID** and **Password**, and login to **Home** screen.

- On **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Data Segment**.
- Under **Data Segment**, click **View Data Segment**.

The **View Data Segment** screen displays.

**Figure 1-35 View Data Segment**

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

**Table 1-35 View Data Segment – Field Description**

Field	Description
<b>Datasegment Name</b>	Displays the name of the datasegment.
<b>Datasegment Code</b>	Displays the code of the datasegment.
<b>Authorization Status</b>	Displays the authorization status of the record. The options are: <ul style="list-style-type: none"> <li><b>Authorized</b></li> <li><b>Rejected</b></li> <li><b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Displays the status of the record. The options are: <ul style="list-style-type: none"> <li><b>Open</b></li> <li><b>Closed</b></li> </ul>
<b>Modification Number</b>	Displays the number of modification performed on the record.



## 1.17 ECA System

This topic describes the information to configure ECA 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.

### 1.17.1 Create ECA System

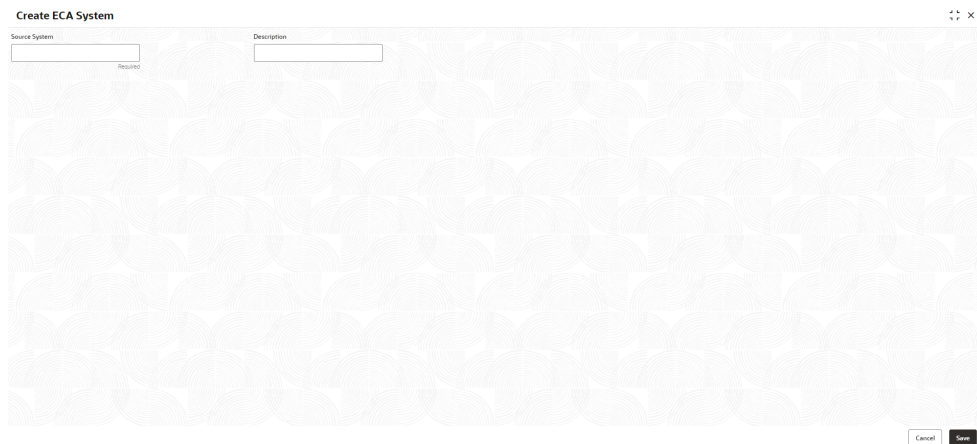
This topic describes the systematic instructions to configure ECA system details.

Specify **User ID** and **Password**, and login to **Home** screen.

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 displays.

**Figure 1-36 Create ECA System**



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

 **Note:**

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

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

**Table 1-36 Create ECA System – Field Description**

Field	Description
<b>Source System</b>	Specify the source system.
<b>Description</b>	Specify the additional information about the ECA system.

- Click **Save** to save details.

The ECA system is successfully created and can be viewed using the [View ECA System](#) screen.

## 1.17.2 View ECA System

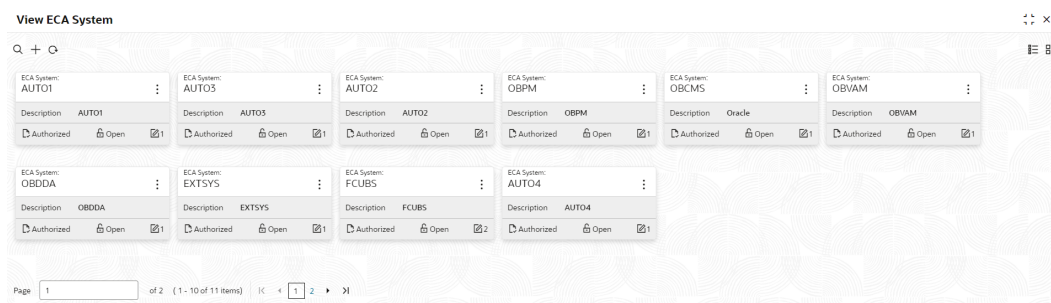
This topic describes the systematic instructions to view the list of configured ECA system.

The user can configure ECA system using [Create ECA System](#) screen.

Specify **User ID** and **Password**, and login to **Home** screen.

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

The **View ECA System** screen displays.

**Figure 1-37 View ECA System**

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

**Table 1-37 View ECA System – Field Description**

Field	Description
<b>ECA System</b>	Displays the name of the ECA system.
<b>Description</b>	Displays any additional information of the ECA system.
<b>Authorization Status</b>	Displays the authorization status of the record. The options are: <ul style="list-style-type: none"> <li><b>Authorized</b></li> <li><b>Rejected</b></li> <li><b>Unauthorized</b></li> </ul>

**Table 1-37 (Cont.) View ECA System – Field Description**

Field	Description
<b>Record Status</b>	Displays the status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>
<b>Modification Number</b>	Displays the number of modification performed on the record.

## 1.18 External Bank Parameters

This topic describes the information to configure bank level parameters.

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.

### 1.18.1 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.

Specify **User ID** and **Password**, and login to **Home** screen.

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 displays.

**Figure 1-38 Create External Bank Parameters**

The screenshot shows a web form titled "Create External Bank Parameters". The form has a light gray background with a subtle pattern. It contains the following fields and controls:

- Bank Code**: A text input field with a "Required" label below it.
- Bank Name**: A text input field.
- Head Office Branch**: A text input field with a search icon (magnifying glass) on the right.
- Branch Description**: A text input field.
- No of Days to Forget Customer**: A text input field.
- Enforce View before Authorize**: A checkbox.

At the bottom right of the form, there are two buttons: "Cancel" and "Save".

- Specify the fields on **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 1-38 Create External Bank Parameters – Field Description**

Field	Description
<b>Bank Code</b>	Specify the code of the bank.
<b>Bank Name</b>	Specify the name of the bank.
<b>Head Office Branch</b>	Click <b>Search</b> icon to view and select the required head office branch.
<b>Branch Description</b>	Displays the branch description based on the selected <b>Head Office Branch</b> .
<b>Number of Days to Forget Customer</b>	Specify the number of days to inactive/forget the customer.

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

The external bank parameters is successfully created and can be viewed using the [View External Bank Parameters](#) screen.

## 1.18.2 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.

Specify **User ID** and **Password**, and login to **Home** screen.

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

The **View External Bank Parameters** screen displays.

**Figure 1-39 View External Bank Parameters**



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

**Table 1-39 View External Bank Parameters – Field Description**

Field	Description
<b>Head Office Branch</b>	Displays the head office branch details.
<b>Maker</b>	Displays the name of the user who has configured the bank details.
<b>Once Authorized</b>	Indicates if the record is authorized once or not.
<b>Bank Code</b>	Displays the code of the bank.
<b>Authorization Status</b>	Displays the authorization status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Displays the status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>
<b>Modification Number</b>	Displays the number of modification performed on the record.

## 1.19 External Branch Parameters

This topic 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.

### 1.19.1 Create External Branch Parameters

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

Specify **User ID** and **Password**, and login to **Home** screen.

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 displays.

**Figure 1-40 Create External Branch Parameters**

3. Specify the fields on **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 1-40 Create External Branch Parameters – Field Description**

Field	Description
<b>Branch Code</b>	Specify a branch code.
<b>Branch Name</b>	Specify a name for the branch.
<b>Local Currency</b>	Click <b>Search</b> icon to view and select the required local currency.
<b>Source System</b>	Click <b>Search</b> icon to view and select the required source system.
<b>Source Branch Code</b>	Specify a source branch code.
<b>Address Line 1-3</b>	Specify the address details.
<b>Host Code</b>	Click <b>Search</b> and select the required host code.
<b>Country Code</b>	Displays the country code based on the selected <b>Host Code</b> .
<b>Host Name</b>	Specify the name for the host.
<b>Walk-in Customer</b>	Click <b>Search</b> icon to view and select the required walk-in customer.
<b>Weekly Holiday 1-2</b>	Select a weekly holiday from the drop-down list.

**Note:**

There are two days of weekly holiday depending on the geographical zone.

**Table 1-40 (Cont.) Create External Branch Parameters – Field Description**

Field	Description
<b>Auto Authorization</b>	By default, it is disabled. If selected, the record is automatically authorized.
<b>Report DSN</b>	Specify the details of the report DSN.
<b>DSN Name</b>	Specify the DSN name.
<b>SWIFT Address</b>	Search and select the required SWIFT address.
<b>Default BIC</b>	If selected, indicates the selected SWIFT address as the default BIC.

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

The external branch parameters is successfully created and can be viewed using the [View External Branch Parameters](#) screen.

## 1.19.2 View External Branch Parameters

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

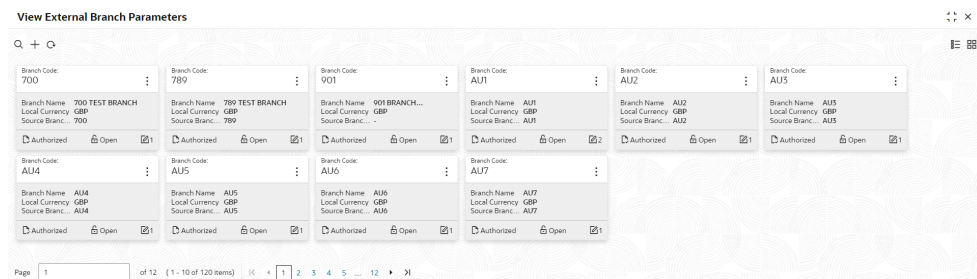
The user can configure external branch parameters using [Create External Branch Parameters](#) screen.

Specify **User ID** and **Password**, and login to **Home** screen.

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

The **View External Branch Parameters** screen displays.

**Figure 1-41 View External Branch Parameters**



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

**Table 1-41 View External Branch Parameters – Field Description**

Field	Description
<b>Branch Code</b>	Displays the code of the bank.
<b>Branch Name</b>	Displays the name of the bank.
<b>Local Currency</b>	Displays the local currency details.

**Table 1-41 (Cont.) View External Branch Parameters – Field Description**

Field	Description
<b>Source Branch Code</b>	Displays the code of the source branch.
<b>Authorization Status</b>	Displays the authorization status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Displays the status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>
<b>Modification Number</b>	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.

## 1.20 External Chart Account

This topic describes the information to configure an external chart.

This topic contains the following subtopics:

- [Create External Chart Account](#)  
This topic describes the systematic instructions to configure external chart accounts.
- [Chart Account Handoff](#)  
The maintenance screen allows you to initiate the handoff and view the handoff status.
- [Inter Branch Entry Retry](#)  
This maintenance screen allows you to view failed inter branch entry details and initiate retry.
- [Pre GL Balance Check](#)  
This topic describes the systematic instructions to view the GL Balance.
- [Transaction Log](#)  
This topic describes the systematic instructions to view all the transaction.
- [Transaction Log Error Detail](#)  
This topic describes the systematic instructions to view all failed transactions failed during chart account hand-off.
- [Unbalanced Transaction Log](#)  
This topic describes the systematic instructions to view all unbalanced transaction.
- [View External Chart Account](#)  
This topic describes the systematic instructions to view the list of configured external chart accounts.



## 1.20.1 Create External Chart Account

This topic describes the systematic instructions to configure external chart accounts.

Specify **User ID** and **Password**, and login to **Home** screen.

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

The **Create External Chart Account** screen displays.

**Figure 1-42 Create External Chart Account**

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

 **Note:**

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

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

**Table 1-42 Create External Chart Account – Field Description**

Field	Description
<b>General Ledger Code</b>	Specify the general ledger code.
<b>General Ledger Description</b>	Specify the additional information about the general ledger.
<b>Source System</b>	Click <b>Search</b> icon to view and select the required source system.
<b>Source System GL Code</b>	Specify the source system GL code.
<b>Category</b>	Select the category from the drop-down list.
<b>Blocked</b>	By default, this is disabled. If selected, indicates the external chart account is blocked.

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

The external chart account is successfully created and can be viewed using the [View External Chart Account](#) screen.

## 1.20.2 Chart Account Handoff

The maintenance screen allows you to initiate the handoff and view the handoff status.

Specify **User ID** and **Password**, and login to **Home** screen.

- From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **External Chart Account**.
- Under **External Chart Account**, click **Chart Account Handoff**.

The **Chart Account Handoff** screen displays.

**Figure 1-43 Chart Account Handoff**

Trigger Id	Transaction Branch	Trigger Type	Entries Count	Status	Cutoff Date	Trigger Timestamp	End Timestamp	Retry
117168512137974528	002	Batch	49	Success	2023-12-07	2023-11-08 05:38:21	2023-11-08 05:38:21	⋮
1171683234468191744	002	Batch	44	Success	2023-12-06	2023-11-08 05:36:35	2023-11-08 05:36:35	⋮
1171682344786669568	002	Batch	151	Failure	2023-12-05	2023-11-08 05:27:20	2023-11-08 05:27:20	⋮
1171427837917991904	002	Batch	2	Success	2023-12-04	2023-11-07 12:41:29	2023-11-07 12:41:29	⋮
1171424280057688004	002	Batch	4	Success	2023-12-01	2023-11-07 12:24:50	2023-11-07 12:24:50	⋮


- Click the **Search** icon, and select the branch code from the list to initiate the handoff.
- Click the **Handoff** button to initiate the handoff for the selected branch code. The **Handoff** initiated popup screen displays.
- Specify the fields on **Chart Account Handoff** screen to filter the account handoff. For more information on fields, refer to the field description table.

**Table 1-43 Chart Account Handoff – Field Description**

Field	Description
<b>Trigger ID</b>	Specify the <b>Trigger ID</b> to view the particular handoff status.
<b>Branch Code</b>	Click the <b>Search</b> icon, and select the branch code to view the handoff status.

- Click **Search** button to search and view the account handoff details.



- Click  and select the **Retry** to re-initiate the account handoff for the given trigger id.
- Click the **Reset** button to clear the account hand-off filter criteria.

## 1.20.3 Inter Branch Entry Retry

This maintenance screen allows you to view failed inter branch entry details and initiate retry.

Specify **User ID** and **Password**, and login to **Home** screen.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **External Chart Account**.
2. Under **External Chart Account**, click **Inter Branch Entry Retry**.

The **Inter Branch Entry Retry** screen displays.

**Figure 1-44 Inter Branch Entry Retry**

Transaction Reference Number	Accounting Reference Number	Transaction Branch	Account Branch	Error Codes	Retry Count	
BR13581600125027	1100081	BR1	S09	CMC-IB-001	4	<input type="checkbox"/>
BR1088RN_CW_DS5001	1108434788773783041	BR1	BR2	CMC-IB-001	-	<input type="checkbox"/>
BR1088RN_CW_DS5001	110843537656002483121	BR1	BR2	CMC-IB-001	-	<input type="checkbox"/>
BR1088RN_CW_DS5001	11084347887544037440	BR1	BR2	CMC-IB-001	-	<input type="checkbox"/>
BR1088RN_CW_DS5001	110843521277636405800	BR1	BR2	CMC-IB-001	-	<input type="checkbox"/>
BR1088RN_CW_DS5001	110843521285600578541	BR1	BR5	CMC-IB-001	-	<input type="checkbox"/>

3. Specify the fields on **Inter Branch Entry Retry** screen.  
For more information on fields, refer to the field description table.

**Table 1-44 Inter Branch Entry Retry – Field Description**

Field	Description
<b>Transaction Reference Number</b>	Specify the transaction reference number to view the details.
<b>Transaction Branch</b>	Click the <b>Search</b> icon, and select the Transaction branch from the list.
<b>Account Branch</b>	Click the <b>Search</b> icon, and select the Account branch from the list.

4. Click the **Search** button to search and view the inter branch entry retry.
5. Perform one of the following actions:
  - a. Click **Retry All** to re-initiate the inter branch entries.
  - b. Click **Retry** to re-initiate the inter branch entries.

The **Inter Branch Entry** popup screen displays.
6. Click the **Reset** button to clear the search criteria.

## 1.20.4 Pre GL Balance Check

This topic describes the systematic instructions to view the GL Balance.

Specify **User ID** and **Password**, and login to **Home** screen.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **External Chart Account**.
2. Under **External Chart Account**, click **Pre GL Balance Check**.

The **Pre GL Balance Check** screen displays.

**Figure 1-45 Pre GL Balance Check**

3. Specify the fields on **Pre GL Balance Check** screen.

**Note:**

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

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

**Table 1-45 Pre GL Balance Check – Field Description**

Field	Description
<b>Branch Code</b>	Click the <b>Search</b> icon, and select the branch code from the list to view the GL balance.
<b>Local Currency</b>	Auto populates the local currency based on the branch code selected.
<b>Product Processor</b>	Click the <b>Search</b> icon, and select the product processor to which the GL balance to viewed.
<b>Module Code</b>	Click the <b>Search</b> icon, and select the module code to which the GL balance to view.

4. Click the **Fetch** button to view the real and contingent balance.

## 1.20.5 Transaction Log

This topic describes the systematic instructions to view all the transaction.

Specify **User ID** and **Password**, and login to **Home** screen.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **External Chart Account**.
2. Under **External Chart Account**, click **Transaction Log**.

The **Transaction Log** screen displays.



Figure 1-46 Transaction Log

- Specify the fields on **Transaction Log** screen.  
For more information on fields, refer to the field description table.

Table 1-46 Transaction Log – Field Description

Field	Description
<b>Transaction Reference Number</b>	Specify the reference number of the transaction.
<b>Transaction Branch</b>	Click <b>Search</b> icon, and select branch code of the transaction.
<b>General Ledger Code</b>	Click <b>Search</b> icon, and select general ledger code of the transaction.
<b>Source System</b>	Click <b>Search</b> icon, and select source system of the transaction.
<b>Event Code</b>	Click <b>Search</b> icon, and select event code of the transaction.
<b>Category</b>	Select the type of category from the drop-down list. <ul style="list-style-type: none"> <li>Asset</li> <li>Liability</li> <li>Income</li> <li>Expense</li> <li>Contingent Asset</li> <li>Contingent Liability</li> </ul>
<b>Product Processor</b>	Click the <b>Search</b> icon, and select the product processor of the transaction.
<b>Module Code</b>	Click the <b>Search</b> icon, and select the module code of the transaction. <div style="border: 1px solid #ccc; padding: 10px; margin-top: 10px;"> <p> <b>Note:</b></p> <p>This field appears when we click the <b>Advanced</b> button.</p> </div>

**Table 1-46 (Cont.) Transaction Log – Field Description**

Field	Description
<b>Product Code</b>	<p>Click the <b>Search</b> icon, and select the product code of the transaction.</p> <div style="border: 1px solid #ccc; background-color: #e6f2ff; padding: 10px; margin-top: 10px;"> <p> <b>Note:</b></p> <p>This field appears when we click the <b>Advanced</b> button.</p> </div>
<b>Amount Tag</b>	<p>Click the <b>Search</b> icon, and select the amount tag of the transaction.</p> <div style="border: 1px solid #ccc; background-color: #e6f2ff; padding: 10px; margin-top: 10px;"> <p> <b>Note:</b></p> <p>This field appears when we click the <b>Advanced</b> button.</p> </div>

4. Click the **Search** button to view the transaction details.
5. Click the **Reset** button to clear the search criteria.

## 1.20.6 Transaction Log Error Detail

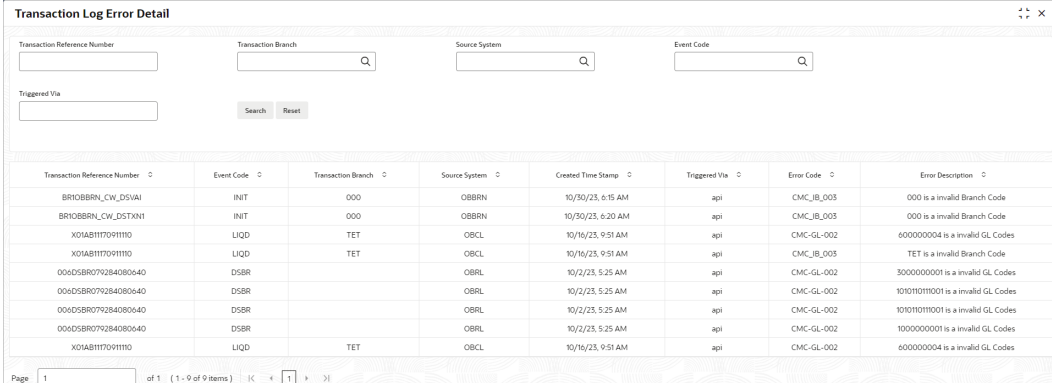
This topic describes the systematic instructions to view all failed transactions failed during chart account hand-off.

Specify **User ID** and **Password**, and login to **Home** screen.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **External Chart Account**.
2. Under **External Chart Account**, click **Transaction Log Error Detail**.

The **Transaction Log Error Detail** screen displays.

**Figure 1-47 Transaction Log Error Detail**



The screenshot shows the 'Transaction Log Error Detail' interface. At the top, there are search filters for Transaction Reference Number, Transaction Branch, Source System, and Event Code, each with a search icon. Below these is a 'Triggered Via' field and 'Search' and 'Reset' buttons. The main area contains a table with the following columns: Transaction Reference Number, Event Code, Transaction Branch, Source System, Created Time Stamp, Triggered Via, Error Code, and Error Description. The table lists several error entries with details such as transaction numbers, codes, branches, and timestamps.

Transaction Reference Number	Event Code	Transaction Branch	Source System	Created Time Stamp	Triggered Via	Error Code	Error Description
BRI0BBRN_CW_DSVAI	INIT	000	OBBRN	10/30/23, 6:15 AM	api	CMC_IBL-005	000 is a invalid Branch Code
BRI0BBRN_CW_DSTXN1	INIT	000	OBBRN	10/30/23, 6:20 AM	api	CMC_IBL-005	000 is a invalid Branch Code
X09AB117091110	LIQD	TET	OBCL	10/16/23, 9:51 AM	api	CMC-GL-002	6000000004 is a invalid GL Codes
X09AB117091110	LIQD	TET	OBCL	10/16/23, 9:51 AM	api	CMC_IBL-005	TET is a invalid Branch Code
000D5BR079284080640	DSBR		OBRL	10/2/23, 5:25 AM	api	CMC-GL-002	3000000001 is a invalid GL Codes
000D5BR079284080640	DSBR		OBRL	10/2/23, 5:25 AM	api	CMC-GL-002	10101101001 is a invalid GL Codes
000D5BR079284080640	DSBR		OBRL	10/2/23, 5:25 AM	api	CMC-GL-002	10101101001 is a invalid GL Codes
000D5BR079284080640	DSBR		OBRL	10/2/23, 5:25 AM	api	CMC-GL-002	1000000001 is a invalid GL Codes
X09AB117091110	LIQD	TET	OBCL	10/16/23, 9:51 AM	api	CMC-GL-002	6000000004 is a invalid GL Codes

Page: 1 of 1 (1 - 9 of 9 items) | [Navigation icons]

3. Specify the fields on **Transaction Log Error Detail** screen.
- For more information on fields, refer to the field description table.

**Table 1-47 Transaction Log Error Detail – Field Description**

Field	Description
<b>Transaction Reference Number</b>	Specify the reference number of the transaction.
<b>Transaction Branch</b>	Click <b>Search</b> icon, and select branch code of the transaction.
<b>Source System</b>	Click <b>Search</b> icon, and select source system of the transaction.
<b>Event Code</b>	Click <b>Search</b> icon, and select event code of the transaction.
<b>Triggered Via</b>	Specify the triggered via of the transaction.

4. Click the **Search** button to view failed transactions during chart account handoff.
5. Click the **Reset** button to clear the search criteria.

## 1.20.7 Unbalanced Transaction Log

This topic describes the systematic instructions to view all unbalanced transaction.

Specify **User ID** and **Password**, and login to **Home** screen.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **External Chart Account**.
2. Under **External Chart Account**, click **Unbalanced Transaction Log**.

The **Unbalanced Transaction Log** screen displays.

**Figure 1-48 Unbalanced Transaction Log**




The screenshot shows the 'Unbalanced Transaction Log' interface. At the top, there are search filters for Transaction Reference Number, Transaction Branch, General Ledger Code, Source System, Event Code, Category, and Product Processor. Below the filters are 'Search', 'Reset', and 'Advanced' buttons. The main area contains a table with the following columns: Transaction Reference Number, Transaction Initiation Date, Event Code, Event Serial Number, General Ledger Code, Account Branch, Transaction Branch, Account Currency, ACT Amount, LCT Amount, Amount Tag, Exchange Rate, Value Date, Debit/Credit Indicator, Transaction Code, Module Code, Inter Branch Entry, Product Code, and Inv Reference Number. The table lists several transactions with details like dates (e.g., 4/18/23, 10/18/23), amounts (\$400.00, \$500.00), and codes (SAUR\_002\_101, SAUR\_101).

3. Specify the fields on **Unbalanced Transaction Log** screen.  
For more information on fields, refer to the field description table.

**Table 1-48 Unbalanced Transaction Log – Field Description**

Field	Description
<b>Transaction Reference Number</b>	Specify the reference number of the transaction.

Table 1-48 (Cont.) Unbalanced Transaction Log – Field Description

Field	Description
<b>Transaction Branch</b>	Click <b>Search</b> icon, and select branch code of the transaction.
<b>General Ledger Code</b>	Click <b>Search</b> icon, and select general ledger code of the transaction.
<b>Source System</b>	Click <b>Search</b> icon, and select source system of the transaction.
<b>Event Code</b>	Click <b>Search</b> icon, and select event code of the transaction.
<b>Category</b>	Select the type of category from the drop-down list. <ul style="list-style-type: none"> <li>• <b>Asset</b></li> <li>• <b>Liability</b></li> <li>• <b>Income</b></li> <li>• <b>Expense</b></li> <li>• <b>Contingent Asset</b></li> <li>• <b>Contingent Liability</b></li> </ul>
<b>Product Processor</b>	Click the <b>Search</b> icon, and select the product processor of the transaction.
<b>Module Code</b>	Click the <b>Search</b> icon, and select the module code of the transaction. <div style="border: 1px solid #ccc; background-color: #e6f2ff; padding: 10px; margin-top: 10px;"> <p> <b>Note:</b> This field appears when we click the <b>Advanced</b> button.</p> </div>
<b>Product Code</b>	Click the <b>Search</b> icon, and select the product code of the transaction. <div style="border: 1px solid #ccc; background-color: #e6f2ff; padding: 10px; margin-top: 10px;"> <p> <b>Note:</b> This field appears when we click the <b>Advanced</b> button.</p> </div>
<b>Amount Tag</b>	Click the <b>Search</b> icon, and select the amount tag of the transaction. <div style="border: 1px solid #ccc; background-color: #e6f2ff; padding: 10px; margin-top: 10px;"> <p> <b>Note:</b> This field appears when we click the <b>Advanced</b> button.</p> </div>

4. Click the **Search** button to view the unbalanced details.
5. Click the **Reset** button to clear the search criteria.

## 1.20.8 View External Chart Account

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

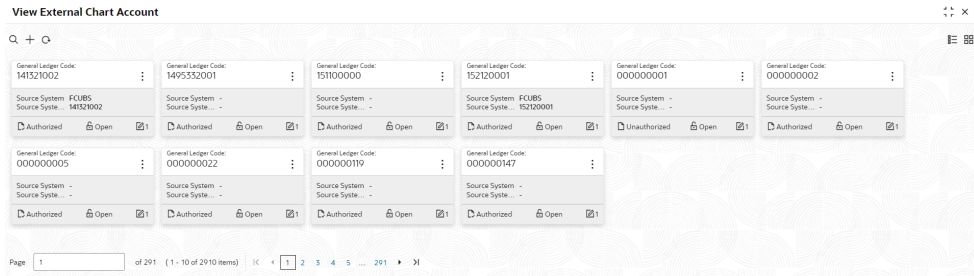
The user can configure external chart account using [Create External Chart Account](#) screen. Specify **User ID** and **Password**, and login to **Home** screen.



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

The **View External Chart Account** screen displays.

**Figure 1-49 View External Chart Account**



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

**Table 1-49 View External Chart Account – Field Description**

Field	Description
<b>General Ledger Code</b>	Displays the code of the general ledger.
<b>Source System</b>	Displays the source system details.
<b>Source System GL Code</b>	Displays the GL code of the source system.
<b>Authorization Status</b>	Displays the authorization status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Displays the status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>
<b>Modification Number</b>	Displays the number of modification performed on the record.

## 1.21 External Customer

This topic describes the information to configure the external customer details.

This topic contains the following subtopics:

- [Create External Customer](#)  
This topic describes the systematic instructions to configure the external customer details.
- [View External Customer](#)  
This topic describes the systematic instructions to view the list of configured external customer details.

## 1.21.1 Create External Customer

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

Specify **User ID** and **Password**, and login to **Home** screen.

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 displays.

**Figure 1-50 Create External Customer**

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

**Note:**

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

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

**Table 1-50 Create External Customer – Field Description**

Field	Description
<b>Customer Number</b>	Specify the number for the customer.
<b>Customer Name</b>	Specify the name for the customer.
<b>Short Name</b>	Specify the short name for the customer.
<b>Customer Type</b>	Select one of the options: <ul style="list-style-type: none"> <li>• <b>Individual:</b> If selected, the customer is an individual customer.</li> <li>• <b>Corporate:</b> If selected, the customer is a corporate customer.</li> <li>• <b>Bank:</b> If selected, the customer is a bank employee.</li> </ul>

Table 1-50 (Cont.) Create External Customer – Field Description

Field	Description
<b>Source Customer ID</b>	Specify the source customer ID.
<b>Source System</b>	Click <b>Search</b> icon to view and select the required source system.
<b>Customer Category</b>	Click <b>Search</b> icon to view and select the required customer category.
<b>Relationship Manager ID</b>	Specify the relationship manager ID.
<b>Access Group</b>	Search and select the required access group.
<b>Address Line 1-4</b>	Specify the customer address details.
<b>Country</b>	Click <b>Search</b> icon to view and select the required country.
<b>Postal Code</b>	Specify the postal code.
<b>Deceased</b>	By default, this is disabled. If selected, indicates the customer is deceased.
<b>Frozen</b>	By default, this is disabled. If selected, indicates the customer account is frozen.
<b>Whereabouts Unknown</b>	By default, this is disabled. If selected, indicates the customers whereabouts are unknown.
<b>Sanction Check Required</b>	By default, this is disabled. If selected, indicates the sanction check is required.
<b>Walk-in Customer</b>	By default, this is disabled. If selected, indicates a walk-in customer.
<b>Staff</b>	By default, this is disabled. If selected, indicates a staff customer.
<b>Language</b>	Click <b>Search</b> icon to view and select the required language.
<b>Nationality</b>	Click <b>Search</b> icon to view and select the required nationality.

4. 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.

## 1.21.2 View External Customer

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

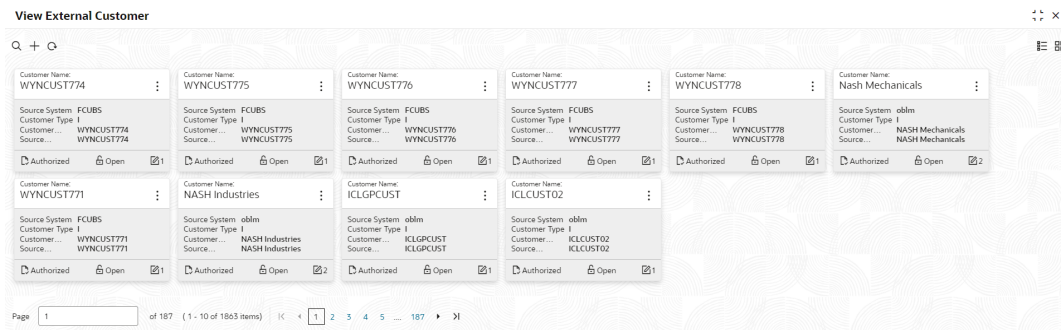
The user can configure external customer using [Create External Customer](#) screen.

Specify **User ID** and **Password**, and login to **Home** 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 displays.

**Figure 1-51 View External Customer**



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

**Table 1-51 View External Customer – Field Description**

Field	Description
<b>Customer Name</b>	Displays the name of the customer.
<b>Source System</b>	Displays the source system details.
<b>Customer Type</b>	Displays the type of the customer.
<b>Customer Number</b>	Displays the customer number associated with the customer name.
<b>Source Customer ID</b>	Displays the source of the customer ID associated with the customer name.
<b>Authorization Status</b>	Displays the authorization status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Displays the status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>
<b>Modification Number</b>	Displays the number of modification performed on the record.

## 1.22 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.

## 1.22.1 Create External Customer Account

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

Specify **User ID** and **Password**, and login to **Home** screen.

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 displays.

**Figure 1-52 Create External Customer Account**

3. Specify the fields on **Create External Customer Account** 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 Account – Field Description**

Field	Description
<b>Customer Account Number</b>	Specify the customer account number.
<b>Account Name</b>	Specify the name for an account.
<b>Customer Number</b>	Click <b>Search</b> icon to view and select the required customer number.
<b>Customer Name</b>	Displays the customer name based on the selected <b>Customer Number</b> .
<b>Account Class</b>	Select the account class from the drop-down list.

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

Field	Description
<b>Account Currency</b>	Click <b>Search</b> icon to view and select the required account currency.
<b>Source Account Branch</b>	Click <b>Search</b> icon to view and select the required source account branch.
<b>Source Customer Account</b>	Displays the source customer account based on the selected <b>Source Account Branch</b> .
<b>Account IBAN</b>	Specify the account IBAN details.
<b>Payment Entitlement Group</b>	Click <b>Search</b> and select the payment entitlement group for the customer account.
<b>Branch Entitlement Group</b>	Click <b>Search</b> and select the branch entitlement group for the customer account.
<b>Address Line 1-4</b>	Specify the address details.
<b>Country</b>	Click <b>Search</b> icon to view and select the required country.
<b>No Credit</b>	By default, this is disabled. If selected, indicates the account does not have any credit facility.
<b>No Debit</b>	By default, this is disabled. If selected, indicates the account does not have any debit facility.
<b>Blocked</b>	By default, this is disabled. If selected, indicates the account status is blocked.
<b>Frozen</b>	By default, this is disabled. If selected, indicates the account status is frozen.
<b>Dormant</b>	By default, this is disabled. If selected, indicates the account status is dormant.
<b>External Credit Approval Required</b>	By default, this is disabled. If selected, indicates ECA check is required for the external customer account.
<b>External Credit Approval System</b>	Click <b>Search</b> icon to view and select the required external credit approval system.
<b>Host Code</b>	Click <b>Search</b> icon to view and select the required host code.
<b>Account Open Date</b>	Select an effective date for the account from the drop-down calendar.

4. 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.

## 1.22.2 View External Customer Account

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

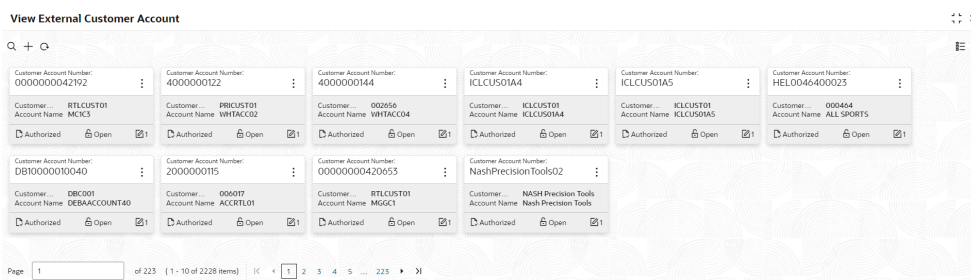
The user can configure external customer account using [Create External Customer Account](#) screen.

Specify **User ID** and **Password**, and login to **Home** 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 displays.

**Figure 1-53 View External Customer Account**



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

**Table 1-53 View External Customer Account – Field Description**

Field	Description
<b>Customer Account Number</b>	Displays the customer account number associated with the account name.
<b>Customer Number</b>	Displays the customer number associated with the account name.
<b>Authorization Status</b>	Displays the authorization status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Displays the status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>
<b>Modification Number</b>	Displays the number of modification performed on the record.

## 1.23 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.

## 1.23.1 Create External Customer Account Structured Address

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

Specify **User ID** and **Password**, and login to **Home** 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 **Create External Customer Account Structured Address**.

The **Create External Customer Account Structured Address** screen displays.

**Figure 1-54 Create External Customer Account Structured Address**

3. Specify the fields on **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 1-54 Create External Customer Account Structured Address – Field Description**

Field	Description
<b>Customer Account</b>	Click <b>Search</b> icon to view and select the required customer account.
<b>Account Name</b>	Displays the Account Name, Based on the <b>Customer Account</b> is selected.



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

Field	Description
<b>Department</b>	Specify the department.
<b>Sub Department</b>	Search and select the required country.
<b>Street Name</b>	Specify the street name.
<b>Building Number</b>	Specify the building number.
<b>Building Name</b>	Specify the building name.
<b>Floor</b>	Specify the floor.
<b>Post Box</b>	Specify the post box details.
<b>Room</b>	Specify the room number.
<b>Post Code</b>	Specify the post code.
<b>Town Name</b>	Specify the town name.
<b>Town Location Name</b>	Specify the town location name.
<b>District Name</b>	Specify the district name.
<b>Country Sub Division</b>	Specify the country sub division.
<b>Country</b>	Click <b>Search</b> icon to view and select the required country name.

4. 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.

## 1.23.2 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.

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **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 displays.

**Figure 1-55 View External Customer Account Structured Address**



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

**Table 1-55 View External Customer Account Structured Address – Field Description**

Field	Description
<b>Customer Number</b>	Displays the customer number.
<b>Town Name</b>	Displays the town name of the customer.
<b>Country</b>	Displays the country of the customer.
<b>Authorization Status</b>	Displays the authorization status of the record. The options are: <ul style="list-style-type: none"><li>• <b>Authorized</b></li><li>• <b>Rejected</b></li><li>• <b>Unauthorized</b></li></ul>
<b>Record Status</b>	Displays the status of the record. The options are: <ul style="list-style-type: none"><li>• <b>Open</b></li><li>• <b>Closed</b></li></ul>
<b>Modification Number</b>	Displays the number of modification performed on the record.

## 1.24 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.

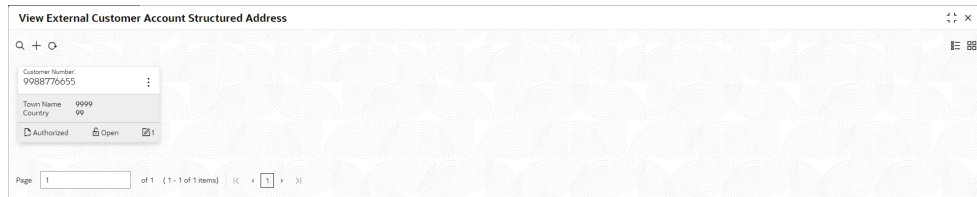
### 1.24.1 View External Virtual Account Structured Address

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

Specify **User ID** and **Password**, and login to **Home** screen.

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 displays.

**Figure 1-56 View External Virtual Account Structured Address**

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

**Table 1-56 View External Virtual Account Structured Address – Field Description**

Field	Description
<b>Customer Number</b>	Displays the customer number.
<b>Town Name</b>	Displays the town name of the customer.
<b>Country</b>	Displays the country name of the customer.
<b>Authorization Status</b>	Displays the authorization status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Displays the status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>
<b>Modification Number</b>	Displays the number of modification performed on the record.

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

## 1.25 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 forgotten.

## 1.25.1 Forget Customer

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

Specify **User ID** and **Password**, and login to **Home** screen.

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

The **Forget Customer** screen displays.

**Figure 1-57 Forget Customer**

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

 **Note:**

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

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

**Table 1-57 Forget Customer – Field Description**

Field	Description
<b>Forget Customer Process ID</b>	Specify a forget customer process ID.
<b>Forget Customer Process Type</b>	Select one of the options: <ul style="list-style-type: none"> <li>• <b>Customer Initiated:</b> If selected, indicates the customer has initiated the process.</li> <li>• <b>Bank Initiated:</b> If selected, indicates the bank has initiated the process.</li> </ul>
<b>Customer Number</b>	Click <b>Search</b> icon to view and select the customer number.
<b>Process Status</b>	Displays the process status.

4. Click **+** to specify the customer/bank details.
5. Click **Save** to save the details.

The forget customer is successfully done and can be viewed using the [View Forgotten Customer](#) screen.

## 1.25.2 View Forgotten Customer

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

The user can configure a customer detail who wants to be forgotten using the [Forget Customer](#).

Specify **User ID** and **Password**, and login to **Home** screen.

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

The **View Forgotten Customer** screen displays.

**Figure 1-58 View Forgotten Customer**



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

**Table 1-58 View Forgotten Customer – Field Description**

Field	Description
<b>Process Type</b>	Indicates if the process is initiated by the customer/bank
<b>Process ID</b>	Displays the forgotten customer process ID.
<b>Maker</b>	Displays the name of the user who has configured the forgotten customer details.
<b>Authorization Status</b>	Displays the authorization status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Displays the status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>
<b>Modification Number</b>	Displays the number of modification performed on the record.

## 1.26 GL Parameter Maintenance

This topic describes the information to configure an GL parameter maintenance.

This topic contains the following subtopics:

- [Create GL Parameter](#)  
This topic describes the systematic instructions to configure the GL parameter.
- [View GL Parameter](#)  
This topic describes the systematic instructions to view the list of configured GL parameters.

### 1.26.1 Create GL Parameter

This topic describes the systematic instructions to configure the GL parameter.

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **GL Parameter Maintenance**.
2. Under **GL Parameter Maintenance**, click **Create GL Parameter**.

The **Create GL Parameter** screen displays.

**Figure 1-59 Create GL Parameter**

3. Specify the fields on **Create GL Parameter** screen.

 **Note:**

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

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

**Table 1-59 Create GL Parameter – Field Description**

Field	Description
<b>Interbranch Entries Consolidation</b>	Select the toggle to enable the interbranch entries consolidation to GL parameter.
<b>Scheduler Frequency(in milliseconds)</b>	Specify the time between two consecutive batch runs.
<b>Consolidate Entries for Enterprise GL Handoff</b>	Select the toggle to enable the Consolidate Entries for Enterprise GL Handoff to GL parameter.
<b>Max Request Size</b>	Specify the max request size for GL parameter.

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

The GL Parameter is successfully created and can be viewed using the **View GL Parameter** screen.

 **Note:**

The user can maintain only one set of GL Parameter.

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

## 1.26.2 View GL Parameter

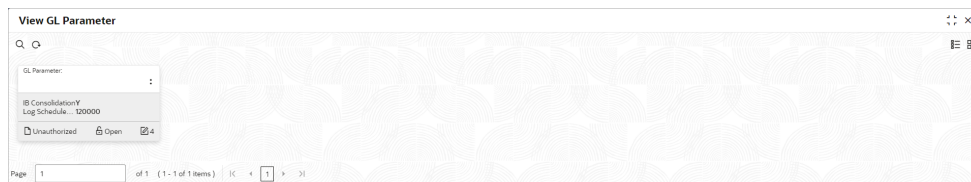
This topic describes the systematic instructions to view the list of configured GL parameters.

The user can configure an amount text language using **Create GL Parameter** screen. Specify **User ID** and **Password**, and login to **Home** screen.

- On **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **GL Parameter Maintenance**.
- Under **GL Parameter Maintenance**, click **View GL Parameter**.

The **View GL Parameter** screen displays.

**Figure 1-60 View GL Parameter**



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

**Table 1-60 View GL Parameter – Field Description**

Field	Description
<b>IB Consolidation</b>	Displays the IB Consolidation flag for GL parameter.
<b>Log Schedule</b>	Displays the log schedule for GL parameter
<b>Authorization Status</b>	Displays the authorization status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Displays the status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>

**Table 1-60 (Cont.) View GL Parameter – Field Description**

Field	Description
<b>Modification Number</b>	Displays the number of modification performed on the record.

## 1.27 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 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.

### 1.27.1 Create Host Code

This topic describes the systematic instructions to configure host code.

Specify **User ID** and **Password**, and login to **Home** screen.

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 displays.

**Figure 1-61 Create Host Code**

The screenshot shows a web form titled "Create Host Code". The form has a light gray background with a subtle pattern. It contains five input fields arranged in two rows. The first row has "Host Code" and "Description". The second row has "Country Code", "Processing Time Zone", and "Default Branch Code". Each field has a search icon and is labeled "Required". At the bottom right, there are "Cancel" and "Save" buttons.

3. Specify the fields on **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
<b>Host Code</b>	Specify the host code details.
<b>Description</b>	Specify the additional information about the host code.
<b>Country Code</b>	Click <b>Search</b> icon to view and select the required country code.
<b>Processing Time Zone</b>	Specify the processing time zone details.
<b>Default Branch Code</b>	Click <b>Search</b> icon to view and select the required default branch code.

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

The host code is successfully created and can be viewed using the [View Host Code](#) screen.

## 1.27.2 View Host Code

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

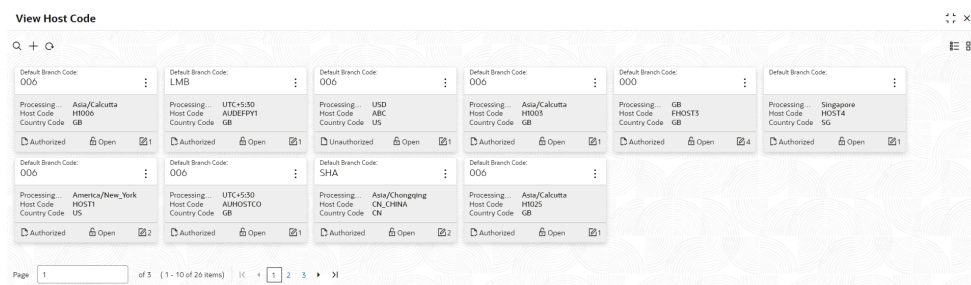
The user can configure host code using [Create Host Code](#) screen.

Specify **User ID** and **Password**, and login to **Home** screen.

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

The **View Host Code** screen displays.

**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
<b>Default Branch Code</b>	Displays the default branch code associated with the host code.
<b>Processing Time Zone</b>	Displays the processing time zone.
<b>Host Code</b>	Displays the host code details.
<b>Country Code</b>	Displays the country code details.
<b>Authorization Status</b>	Displays the authorization status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Displays the status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>
<b>Modification Number</b>	Displays the number of modification performed on the record.

## 1.28 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

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.

### 1.28.1 Create Interest Rate

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

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **Homescreen**, click **Core Maintenance**, under **Core Maintenance**, click **Interest Rate Maintenance**.
2. Under **Interest Rate Maintenance**, click **Create Interest Rate**.

The **Create Interest Rate** screen displays.

**Figure 1-63 Create Interest Rate**

The screenshot shows the 'Create Interest Rate' form with the following sections and fields:

- Branch Code:** Search icon, Required.
- Rate Code:** Required.
- Description:** Required.
- Type:** Floating (dropdown), Required.
- Quote Basis:** Per Annum (dropdown), Required.
- Propagate Rates to branches:** Toggle switch, Required.
- Currency Details:** Section header.
- Amount Slab Details:** Section header with expand/collapse icons.
- Tenor and Interest Details:** Section header with expand/collapse icons. Contains a table with columns: Tenor To, Units, and Interest Rate. Two rows are visible, both with 'Days' in the Units column.
- Page:** 1 of 1 (1-1 of 1 items) with navigation icons.
- Buttons:** Cancel and Save.

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

 **Note:**


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

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

**Table 1-63 Create Interest Rate – Field Description**


Field	Description
<b>Branch Code</b>	Click the <b>Search</b> icon to view and select the branch from the list. The list displays all the branch code maintained in the system.
<b>Rate Code</b>	Specify the rate code for the selected branch.
<b>Description</b>	Specify the description of the rate code.
<b>Type</b>	Select the rate type from the drop-down list. The available options are : <ul style="list-style-type: none"> <li>• <b>Fixed</b></li> <li>• <b>Floating</b></li> </ul>
<b>Quote Basis</b>	Select the quote basis for the rate from the drop-down list. The available options are : <ul style="list-style-type: none"> <li>• <b>Per Annum</b></li> <li>• <b>Exponential-252</b></li> <li>• <b>Exponential-365</b></li> <li>• <b>Linear-360</b></li> </ul>

Table 1-63 (Cont.) Create Interest Rate – Field Description

Field	Description
<b>Propagate Rates to branches</b>	Select the toggle to enable the propagate rates across all the branches of the bank.  <div style="border: 1px solid #0070C0; padding: 5px; background-color: #E6F2FF;">  <b>Note:</b> When the rate code is modified at the <b>Head Office Branch</b> a corresponding rate code record will be created and replicated to all the branches. </div>
<b>Currency Details</b>	Click + icon and popup screen appears to add the associates currencies to the rate code.
<b>Currency Code</b>	Click the <b>Search</b> icon to view and select the currency from the list.
<b>Description</b>	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
<b>Amount Slab</b>	Specify the amount for the rate code.
<b>Effective Date</b>	Select the date from when the rate needs to be effective for the amount slab.  <div style="border: 1px solid #0070C0; padding: 5px; background-color: #E6F2FF;">  <b>Note:</b> The effective date will be applicable until the new effective date is provided for the rate. </div>
<b>Borrow Lend Indicator</b>	Select the borrow lend indicator of the rate from the drop-down list. The available options are: <ul style="list-style-type: none"> <li>• <b>Borrow</b> - The rate is applied for deposits taken by the bank</li> <li>• <b>Lend</b>- The rate is applied for loans given to Customers.</li> </ul>

- 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.

**Table 1-65 Tenor and Interest Details - Field Description**

Field Name	Description
<b>Tenor To</b>	Specify the tenor upto which the interest rate needs to be effective.
<b>Units</b>	Select the units for the tenor slab from the drop-down list. The available options are: <ul style="list-style-type: none"> <li>• <b>Days</b></li> <li>• <b>Weeks</b></li> <li>• <b>Months</b></li> <li>• <b>Years</b></li> </ul>
<b>Interest Rate</b>	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. Click **Save** to save the details.

The Interest Rate Maintenance is successfully created and can be viewed using the [View Interest Rate](#) screen.

## 1.28.2 View Interest Rate

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

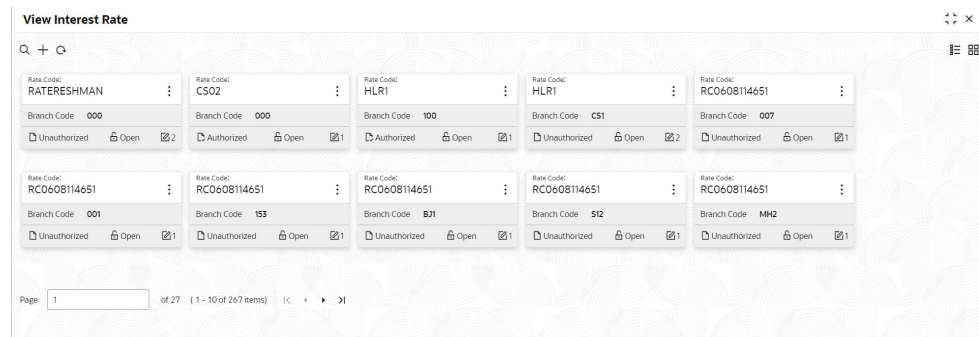
The user can configure Interest Rate using [Create Interest Rate](#) screen.

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **Homescreen**, click **Core Maintenance**, under **Core Maintenance**, click **Interest Rate Maintenance**.
2. Under **Interest Rate Maintenance**, click **View Interest Rate**.

The **View Interest Rate** screen displays.

**Figure 1-64 View Interest Rate**



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

**Table 1-66 View Interest Rate – Field Description**

Field	Description
<b>Rate Code</b>	Displays the rate code.
<b>Branch Code</b>	Displays the branch code.
<b>Authorization Status</b>	Displays the authorization status of the record. The options are: <ul style="list-style-type: none"><li>• <b>Authorized</b></li><li>• <b>Rejected</b></li><li>• <b>Unauthorized</b></li></ul>
<b>Record Status</b>	Displays the status of the record. The options are: <ul style="list-style-type: none"><li>• <b>Open</b></li><li>• <b>Closed</b></li></ul>
<b>Modification Number</b>	Displays the number of modification performed on the record.

## 1.29 Inter Branch Parameters Maintenance

This topic describes the information to configure an inter branch parameters maintenance.

This topic contains the following subtopics:

- [Create Inter Branch Parameters](#)  
This topic describes the systematic instructions to configure the inter branch parameters.
- [View Inter Branch Parameters](#)  
This topic describes the systematic instructions to view the list of configured inter branch parameters.

### 1.29.1 Create Inter Branch Parameters

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

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Inter Branch Parameters**.
2. Under **Inter Branch Parameters**, click **Create Inter Branch Parameters**.

The **Create Inter Branch Parameters** screen displays.

**Figure 1-65 Create Inter Branch Parameters**

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

 **Note:**

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

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

**Table 1-67 Create Inter Branch Parameters – Field Description**

Field	Description
<b>Branch 1</b>	Click the <b>Search</b> icon and select the branch code for branch 1.
<b>Branch 1 Name</b>	Auto populates the name of the branch 1 from the selected branch code.
<b>Branch 2</b>	Click the <b>Search</b> icon and select the branch code for branch 2.
<b>Branch 2 Name</b>	Auto populates the name of the branch 2 from the selected branch code.
<b>Branch 1</b>	Auto populates the branch 1 from the selected branch code.
<b>Due To Branch 2</b>	Click <b>Search</b> icon and select the GL code that will be the used for settling dues to Branch 2.
<b>Due From Branch 2</b>	Click <b>Search</b> icon and select the that will be the used for receiving dues from Branch 2.
<b>Inter Branch Currency</b>	Select the currency to be used for inter branch transaction from the drop-down list. The available options: <ul style="list-style-type: none"> <li>• <b>Account Currency</b></li> <li>• <b>Transaction Currency</b></li> </ul>
<b>Description (Due To Branch 2)</b>	Auto populates the description of branch 2.
<b>Description (Due From Branch 2)</b>	Auto populates the description of branch 2.
<b>Branch 2</b>	Auto populates the branch 2 from the selected branch code.
<b>Due To Branch 1</b>	Click <b>Search</b> icon and select the GL code that will be the used for settling dues to Branch 1.
<b>Due From Branch 1</b>	Click <b>Search</b> icon and select the that will be the used for receiving dues from Branch 1.

**Table 1-67 (Cont.) Create Inter Branch Parameters – Field Description**

Field	Description
<b>Inter Branch Currency</b>	Select the currency to be used for inter branch transaction from the drop-down list. The available options: <ul style="list-style-type: none"> <li>• <b>Account Currency</b></li> <li>• <b>Transaction Currency</b></li> </ul>
<b>Description (Due To Branch 1)</b>	Auto populates the description of branch 1.
<b>Description (Due From Branch 1)</b>	Auto populates the description of branch 1.

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

The inter branch parameters is successfully created and can be viewed using the [View Inter Branch Parameters](#) screen.

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

## 1.29.2 View Inter Branch Parameters

This topic describes the systematic instructions to view the list of configured inter branch parameters.

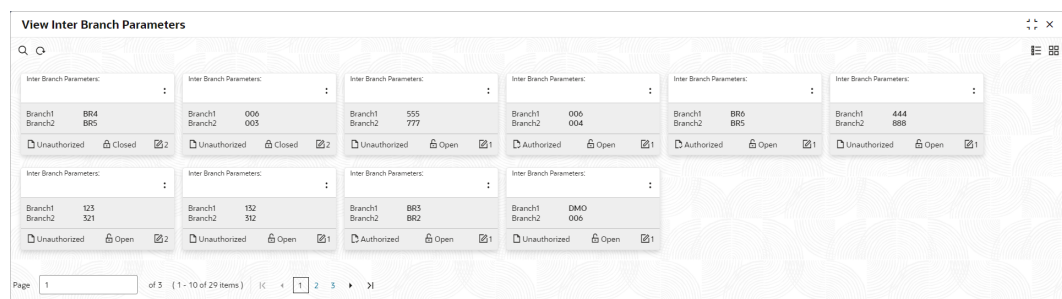
The user can configure an inter branch parameters using [Create Inter Branch Parameters](#) screen.

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Inter Branch Parameters**.
2. Under **Inter Branch Parameters**, click **View Inter Branch Parameters**.

The **View Inter Branch Parameters** screen displays.

**Figure 1-66 View Inter Branch Parameters**



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



**Table 1-68 View Inter Branch Parameters – Field Description**

Field	Description
<b>Branch 1</b>	Displays the code of the branch 1.
<b>Branch 2</b>	Displays the code of the branch 2.
<b>Authorization Status</b>	Displays the authorization status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Displays the status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>
<b>Modification Number</b>	Displays the number of modification performed on the record.

## 1.30 Language Code

This topic describes the information to configure a language code.

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.

### 1.30.1 Create Language Code

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

Specify **User ID** and **Password**, and login to **Home** screen.

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

The **Create Language Code** screen displays.

**Figure 1-67 Create Language Code**

The screenshot shows a web form titled "Create Language Code". It contains four input fields: "Language Code" (with a "Required" label below it), "Language Name", "Display Direction", and "Language ISO Code". The form is set against a background with a repeating pattern of overlapping circles. At the bottom right, there are "Cancel" and "Save" buttons.

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

 **Note:**

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

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

**Table 1-69 Create Language Code – Field Description**

Field	Description
<b>Language Code</b>	Specify the code for the language.
<b>Language Name</b>	Specify the name for the language associated with the language code.
<b>Display Direction</b>	Specify the display direction.
<b>Language ISO Code</b>	Specify the language ISO code.

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

The language code is successfully created and can be viewed using the [View Language Code](#) screen.

## 1.30.2 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.

Specify **User ID** and **Password**, and login to **Home** screen.

- On **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Language Code**.
- Under **Language Code**, click **View Language Code**.

The **View Language Code** screen displays.

**Figure 1-68 View Language Code**

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

**Table 1-70 View Language Code – Field Description**

Field	Description
<b>Language ISO Code</b>	Displays the default branch code associated with the host code.
<b>Language Code</b>	Displays the processing time zone.
<b>Language Name</b>	Displays the host code details.
<b>Authorization Status</b>	Displays the authorization status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Displays the status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>
<b>Modification Number</b>	Displays the number of modification performed on the record.

## 1.31 Local Holiday

This topic describes the information to configure a local holiday.

This topic contains the following subtopics:

- [Create Local Holiday](#)  
This topic describes the systematic instructions to configure local holidays.
- [View Local Holiday](#)  
This topic describes the systematic instructions to view the list of configured local holidays.

### 1.31.1 Create Local Holiday

This topic describes the systematic instructions to configure local holidays.


Specify **User ID** and **Password**, and login to **Home** screen.

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 displays.

**Figure 1-69 Create Local Holiday**

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

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

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

**Table 1-71 Create Local Holiday – Field Description**

Field	Description
<b>Branch Code</b>	Click <b>Search</b> icon to view and select the required branch code.
<b>Year</b>	Specify the year details.
<b>Weekly Holidays</b>	By default, this is disabled. If selected, you can define weekly holidays.
<b>Unexpected Holidays</b>	By default, this is disabled. If selected, you can define unexpected holidays.

4. Select the dates using the calendar.

**Note:**

The selected dates appear in pink highlighted circle.

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

The local holiday is successfully created and can be viewed using the [View Local Holiday](#) screen.

## 1.31.2 View Local Holiday

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

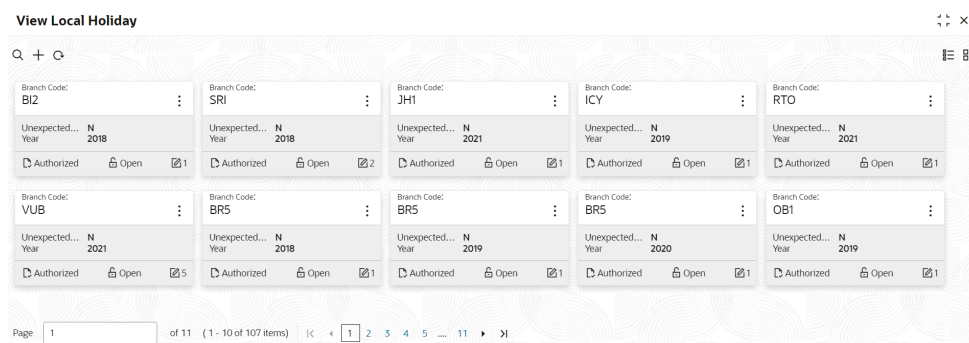
The user can configure local holiday using [Create Local Holiday](#) screen.

Specify **User ID** and **Password**, and login to **Home** screen.

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

The **View Local Holiday** screen displays.

**Figure 1-70 View Local Holiday**



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

**Table 1-72 View Local Holiday – Field Description**

Field	Description
<b>Branch Code</b>	Displays the code of the branch.
<b>Unexpected Holiday</b>	Indicates if the record is an unexpected holiday.
<b>Year</b>	Displays the year of the holiday.
<b>Authorization Status</b>	Displays the authorization status of the record. The options are: <ul style="list-style-type: none"> <li><b>Authorized</b></li> <li><b>Rejected</b></li> <li><b>Unauthorized</b></li> </ul>

**Table 1-72 (Cont.) View Local Holiday – Field Description**

Field	Description
<b>Record Status</b>	Displays the status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>
<b>Modification Number</b>	Displays the number of modification performed on the record.

## 1.32 Media

This topic describes the information to configure the media.

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.

### 1.32.1 Create Media

This topic describes the systematic instructions to configure media.

Specify **User ID** and **Password**, and login to **Home** screen.

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

The **Create Media** screen displays.

**Figure 1-71 Create Media**

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

 **Note:**

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

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

**Table 1-73 Create Media – Field Description**

Field	Description
<b>Media Code</b>	Specify a unique media code to identify while associating with an advice.
<b>Media Description</b>	Specify additional information about the media.
<b>Media Number</b>	Specify a unique number for the media type.
<b>Message Terminator</b>	Specify the padded characters to mark the end of an incoming messages.
<b>Message Suffix</b>	Specify the padding characters to mark the end of an outgoing messages.
<b>Stop Process</b>	By default, this option is disabled. If selected, halts the processing of incoming and outgoing messages.
<b>Padding Required</b>	By default, this option is disabled. If selected, pads the characters in every outgoing messages.
<b>TW (Test Word) Required Status</b>	By default, this option is disabled. If selected, enables the option for word testing.
<b>Media Priority</b>	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.
<b>Number of Character</b>	Specify the number the padding characters should be repeated for the advice from the spin box.
<b>Media Code</b>	Specify the unique media code to identify while associating with an advice.
<b>Compatible Media</b>	By default, this option is disabled. If selected, indicates the media is compatible.

4. Click **+** to add media details.
5. Click **Save** to save the details.

The media is successfully created and can be viewed using the [View Media](#) screen.

## 1.32.2 View Media

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

The user can configure media using [Create Media](#) screen.

Specify **User ID** and **Password**, and login to **Home** screen.

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

The **View Media** screen displays.

**Figure 1-72 View Media**



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

**Table 1-74 View Media – Field Description**

Field	Description
<b>Media</b>	Displays the name of the media.
<b>Media Number</b>	Displays the number of the media.
<b>Authorization Status</b>	Displays the authorization status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Displays the status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>
<b>Modification Number</b>	Displays the number of modification performed on the record.

## 1.33 MIS Group

This topic describes the information to configure an MIS Group.

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.

### 1.33.1 Create MIS Group

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

Specify **User ID** and **Password**, and login to **Home** screen.

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

The **Create MIS Group** screen displays.



**Figure 1-73 Create MIS Group**

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

 **Note:**

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

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

**Table 1-75 Create MIS Group – Field Description**

Field	Description
<b>MIS Group</b>	Specify the MIS Group.
<b>Description</b>	Specify the description of the MIS Group.
<b>Customer MIS</b>	Click <b>Search</b> icon and select the Customer MIS from the list.
<b>Transaction MIS</b>	Click <b>Search</b> icon and select the Transaction MIS from the list.
<b>Composite MIS</b>	Click <b>Search</b> icon and select the Composite MIS from the list.

4. Click **Save** to save the details.  
The MIS Group is successfully created and can be viewed using the **View MIS Group** screen.
5. Click **Cancel** to discard the changes and close the screen.

## 1.33.2 View MIS Group

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

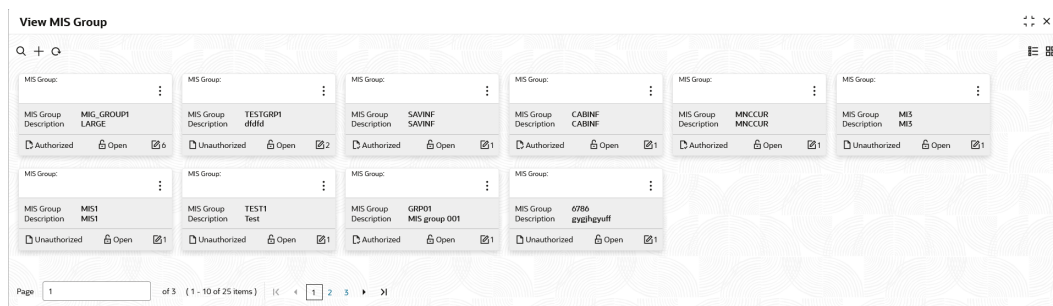
The user can configure an MIS Group using **Create MIS Group** screen.

Specify **User ID** and **Password**, and login to **Home** screen.

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

The **View MIS Group** screen displays.

**Figure 1-74 View MIS Group**



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

**Table 1-76 View MIS Group – Field Description**

Field	Description
<b>MIS Group</b>	Displays the name of the MIS group.
<b>Description</b>	Displays the description of the MIS group.
<b>Authorization Status</b>	Displays the authorization status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Displays the status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>
<b>Modification Number</b>	Displays the number of modification performed on the record.

## 1.34 MIS Class

This topic describes the information to configure an MIS Class.

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.

### 1.34.1 Create MIS Class

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

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **MIS Class**.

- Under **MIS Class**, click **Create MIS Class**.  
The **Create MIS Class** screen displays.

**Figure 1-75 Create MIS Class**

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

 **Note:**


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

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

**Table 1-77 Create MIS Class – Field Description**

Field	Description
<b>MIS Class</b>	Specify the MIS Class to be maintained.
<b>Description</b>	Specify the description of the MIS Class.
<b>MIS Type</b>	Select the MIS Type from the dropdown list. The available options are: <ul style="list-style-type: none"> <li>• <b>Transaction Class</b></li> <li>• <b>Composite Class</b></li> <li>• <b>Customer Class</b></li> </ul>
<b>Mandatory</b>	Select the Toggle to make the MIS Class as mandatory.



- Click  to add the MIS Code to the MIS Class respectively.
- 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.

## 1.34.2 View MIS Class

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

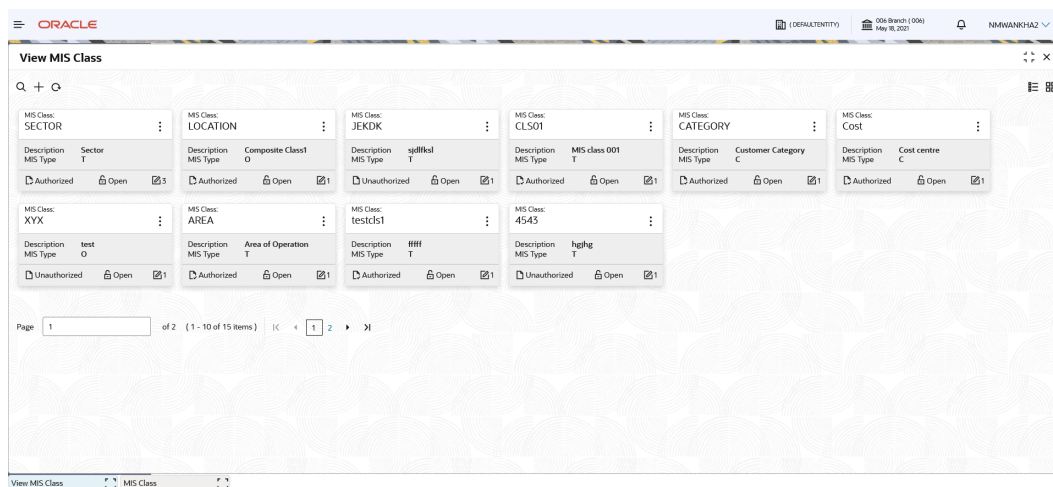
The user can configure an MIS Class using [Create MIS Class](#) screen.

Specify **User ID** and **Password**, and login to **Home** screen.

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

The **View MIS Class** screen displays.

**Figure 1-76 View MIS Class**



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

**Table 1-78 View MIS Class – Field Description**

Field	Description
<b>MIS Class</b>	Displays the configured MIS Class.
<b>Description</b>	Displays the description of the MIS Class.
<b>MIS Type</b>	Displays the type of MIS Class.
<b>Authorization Status</b>	Displays the authorization status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Displays the status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>
<b>Modification Number</b>	Displays the number of modification performed on the record.

## 1.35 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.

### 1.35.1 Create MCA Linkage

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

Specify **User ID** and **Password**, and login to **Home** screen.

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

The **Create MCA Linkage** screen displays.

**Figure 1-77 Create MCA Linkage**

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

 **Note:**

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

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

**Table 1-79 Create MCA Linkage – Field Description**

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

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

The MCA linkage is successfully created and can be viewed using the [View MCA Linkage](#) screen.

## 1.35.2 View MCA Linkage

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

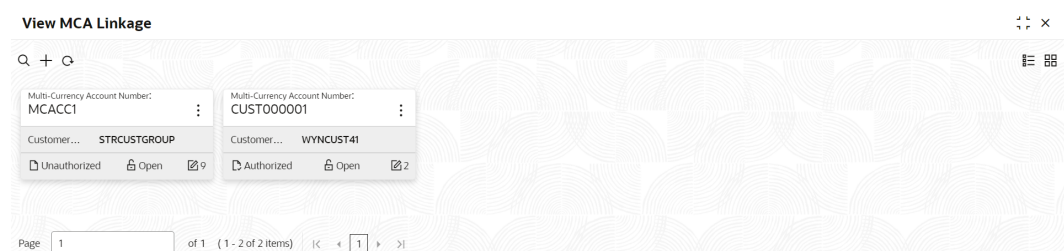
The user can configure MCA linkage using [Create MCA Linkage](#) screen.

Specify **User ID** and **Password**, and login to **Home** screen.

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

The **View MCA Linkage** screen displays.

**Figure 1-78 View MCA Linkage**



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

**Table 1-80 View MCA Linkage – Field Description**

Field	Description
<b>Multi-Currency Account Number</b>	Displays the multi-currency account number.
<b>Customer Number</b>	Displays the customer number.

Table 1-80 (Cont.) View MCA Linkage – Field Description

Field	Description
<b>Authorization Status</b>	Displays the authorization status of the record. The options are: <ul style="list-style-type: none"><li>• <b>Authorized</b></li><li>• <b>Rejected</b></li><li>• <b>Unauthorized</b></li></ul>
<b>Record Status</b>	Displays the status of the record. The options are: <ul style="list-style-type: none"><li>• <b>Open</b></li><li>• <b>Closed</b></li></ul>
<b>Modification Number</b>	Displays the number of modification performed on the record.

## 1.36 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 to define the stages for a particular process.
- [View Process Code](#)  
This topic describes the systematic instructions to view the list of configured process codes.

### 1.36.1 Process Code Maintenance

This topic describes the systematic instructions to define the stages for a particular process.

The process code information in this screen will be used in further business processing to construct the stages.

Specify **User ID** and **Password**, and login to **Home** screen.

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

The **Process Code** screen displays.

**Figure 1-79 Process Code**

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

**Note:**

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

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

**Table 1-81 Process Code – Field Description**

Field	Description
<b>Process Code</b>	Specify the code.
<b>Process Name</b>	Specify the process name.
<b>Process Version</b>	Specify the process version.
<b>Domain</b>	Specify the process domain.
<b>Stage ID</b>	Specify the unique stage ID.
<b>Stage Description</b>	Specify the stage description.
<b>Seq Order</b>	Displays the sequential order of the stage in the entire process.
<b>Source Stage</b>	Select it to indicate if the specific stage is the source stage of the process.
<b>Add Row</b>	Click <b>Add Row</b> to add a row and to capture the stage details that needs to be mapped to the process code.
<b>Delete Row</b>	Click <b>Delete Row</b> to delete a row with stage details.
<b>Phase Code</b>	Specify the phase code.
<b>Phase Description</b>	Specify the phase description.
<b>Seq Order</b>	Displays the sequential order of the phase.
<b>Stage ID</b>	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.
<b>Add Row</b>	Click <b>Add Row</b> to add a row and to capture the phase details that needs to be mapped to the process code.
<b>Delete Row</b>	Click <b>Delete Row</b> to delete a row with phase details.



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

The process code is successfully created and can be viewed using the [View Process Code](#) screen.

## 1.36.2 View Process Code

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

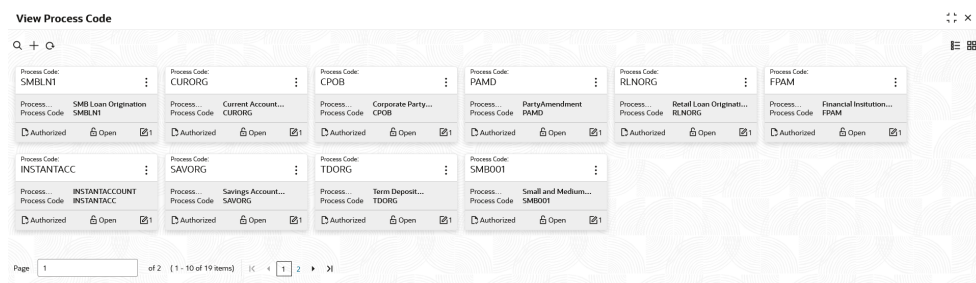
The user can configure process code using [Process Code Maintenance](#) screen.

Specify **User ID** and **Password**, and login to **Home** screen.

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

The **View Process Code** screen displays.

**Figure 1-80 View Process Code**



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

**Table 1-82 View Process Code – Field Description**

Field	Description
<b>Process Code</b>	Displays the process code.
<b>Description</b>	Displays the description of process code.
<b>Authorization Status</b>	Displays the authorization status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Displays the status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>
<b>Modification Number</b>	Displays the number of modification performed on the record.

## 1.37 Priority Code

This topic describes the information to configure an Priority Code.

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.

### 1.37.1 Priority Code Maintenance

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

Specify **User ID** and **Password**, and login to **Home** screen.

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

The **Priority Code Maintenance** screen displays.

**Figure 1-81 Priority Code Maintenance**



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

**Table 1-83 Priority Code Maintenance – Field Description**

Field	Description
<b>Name</b>	Displays the name of the priority code configured.
<b>Authorization Status</b>	Displays the authorization status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>

**Table 1-83 (Cont.) Priority Code Maintenance – Field Description**

Field	Description
<b>Record Status</b>	Displays the status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>
<b>Modification Number</b>	Displays the number of modification performed on the record.

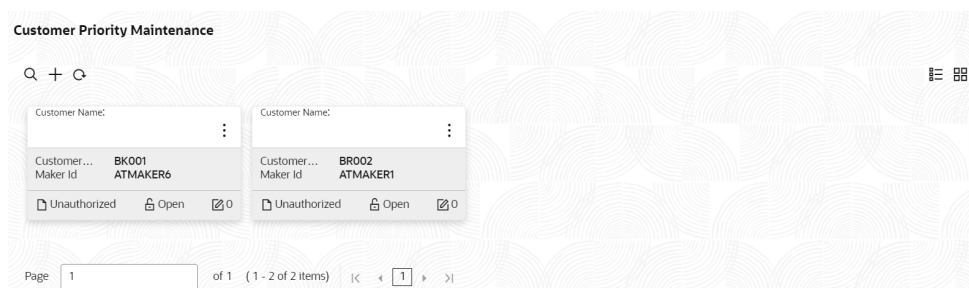
## 1.37.2 Customer Priority Maintenance

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

Specify **User ID** and **Password**, and login to **Home** screen.

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

The **Customer Priority Maintenance** screen displays.

**Figure 1-82 Customer Priority Maintenance**


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

**Table 1-84 Customer Priority Maintenance – Field Description**

Field	Description
<b>Customer Name</b>	Displays the name of the customer priority configured.
<b>Customer Code</b>	Displays the code of the customer priority.
<b>Authorization Status</b>	Displays the authorization status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Displays the status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>

**Table 1-84 (Cont.) Customer Priority Maintenance – Field Description**

Field	Description
<b>Modification Number</b>	Displays the number of modification performed on the record.

3. Click  button to configure the new customer priority maintenance. The **Customer Priority Maintenance** screen displays.

**Figure 1-83 Customer Priority Maintenance**


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

 **Note:**

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

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

**Table 1-85 Customer Priority Maintenance – Field Description**

Field	Description
<b>Customer Number</b>	Click <b>Search</b> and select the customer number from the list.
<b>Customer Name</b>	Displays the name of the selected customer.
<b>Branch</b>	Select the branch of the customer from the drop-down list.
	Click this icon to add the new row for the process codes configuration.
<b>Process Code</b>	Click <b>Search</b> and select the process code from the list.

**Table 1-85 (Cont.) Customer Priority Maintenance – Field Description**

Field	Description
<b>Process Name</b>	Displays the name of the selected process code.
<b>Priority</b>	Select the priority of the process code from the drop-down list.
<b>Edit</b>	Click the 'Edit' action button to modify the details.

## 1.38 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.

### 1.38.1 Create Pricing Source System

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

Specify **User ID** and **Password**, and login to **Home** screen.

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 displays.

**Figure 1-84 Create Pricing Source System**

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

**Note:**

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

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

**Table 1-86 Create Pricing Source System – Field Description**

Field	Description
<b>Pricing Source System</b>	Specify the pricing source system.
<b>Pricing Source Description</b>	Specify the additional information about the Pricing Source system.

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

The pricing source system is successfully created and can be viewed using the [View Pricing Source System](#) screen.

## 1.38.2 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.

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **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 displays.

**Figure 1-85 View Pricing Source System**



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

**Table 1-87 View Pricing Source System – Field Description**

Field	Description
<b>Pricing Source System</b>	Displays the name of the Pricing Source system.

Table 1-87 (Cont.) View Pricing Source System – Field Description

Field	Description
<b>Pricing Source System Description</b>	Displays any additional information of the Pricing Source system.
<b>Authorization Status</b>	Displays the authorization status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Displays the status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>

## 1.39 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.

### 1.39.1 Create Resource Class

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


Specify **User ID** and **Password**, and login to **Home** screen.

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

The **Create Resource Class** screen displays.



**Figure 1-86 Create Resource Class**

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

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

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

**Table 1-88 Create Resource Class – Field Description**

Field	Description
<b>Code</b>	Specify the Code for the resource class to configure.
<b>Description</b>	Specify the description for the code.
<b>Kernel Domains</b>	This section provides the information related to kernel domains.
	Click this icon to add the new kernel domain.
<b>Domains</b>	Click <b>Search</b> and select the domain from the list
<b>Data segments</b>	Click <b>+</b> and select the required data segments for the domain to be configured
<b>Extended Domain</b>	This section provides the information related to extended domains.
	Click this icon to add the new extended domain.
<b>Domains</b>	Click <b>Search</b> and select the domain from the list.
<b>URL</b>	Specify the URL of the selected domain.
<b>Data segments</b>	Click <b>+</b> and select the required data segments for the domain to be configured.



4. Click **Save** to save the details.  
The resource class is successfully created and can be viewed using the **View Resource Class** screen.
5. Click **Cancel** to discard the changes and close the screen.

## 1.39.2 View Resource Class

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

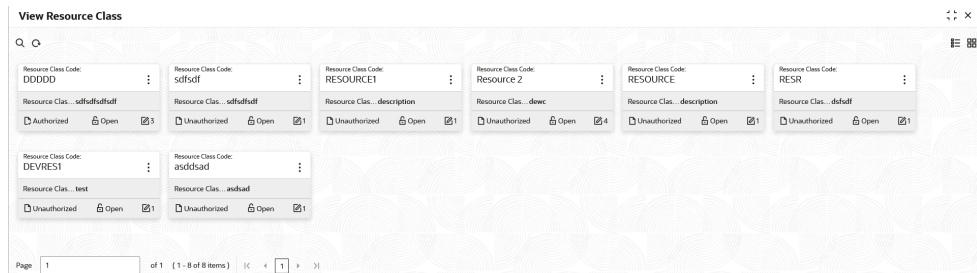
The user can configure an resource class using **Create Resource Class** screen.

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Resource Class**.
2. Under **Resource Class**, click **View Resource Class**.

The **View Resource Class** screen displays.

**Figure 1-87 View Resource Class**



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

**Table 1-89 View Resource Class – Field Description**

Field	Description
<b>Resource Class Code</b>	Displays the code of the resource class.
<b>Resource Class Description</b>	Displays the description of the resource class.
<b>Authorization Status</b>	Displays the authorization status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Displays the status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>
<b>Modification Number</b>	Displays the number of modification performed on the record.

## 1.40 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.

### 1.40.1 Create SLA Maintenance

This topic describes the systematic instructions to configure the SLA maintenance.

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **SLA Maintenance**.
2. Under **SLA Maintenance**, click **Create SLA Maintenance**.

The **Create SLA Maintenance** screen displays.

**Figure 1-88 Create SLA Maintenance**

The screenshot shows the 'Create SLA' form with the following fields and options:

- Product/Application Code (with a search icon)
- Product/Application Name
- Business Process Code (marked as Required)
- Business Process Name
- Branch (dropdown menu showing '000-Bank Futura - Integrated E')
- Branch Working Hours (with a refresh icon)
- Version Number (input field with '1')
- Include for SLA calculation (checkboxes for Branch Holidays, Currency Holidays, Hold Time, Customer Clarification, OH-Branch Time Transaction)
- Calculate button
- Cancel and Save buttons at the bottom right

3. Specify the fields on **Create SLA Maintenance** screen.

 **Note:**

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

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

Table 1-90 Create SLA Maintenance – Field Description

Field	Description
<b>Product/Application Code</b>	Click <b>Search</b> icon and select the Product or Application Code.
<b>Product/Application Name</b>	Displays the name of the Product/Application.
<b>Business Process Code</b>	Click <b>Search</b> icon and select the Business Process Code for which the SLA maintenance has to be made.
<b>Business Process Name</b>	Displays the Business Process name based on the Business Process code selected.
<b>Branch</b>	Select the branch code for which SLA maintenance has to be done.
<b>Branch Working Hours</b>	Click the icon to view the branch working hours.
<b>Include for SLA Calculation</b>	Select the checkbox to consider the below options for the SLA calculation. The available options are: <ul style="list-style-type: none"> <li>• <b>Branch Holidays</b></li> <li>• <b>Currency Holidays</b></li> <li>• <b>Hold Time</b></li> <li>• <b>Customer Clarification</b></li> <li>• <b>Off Branch Time Transactions</b></li> </ul>

4. Click **Calculate** to view data will appear for the selected Business process code
5. Click **Save** to save the details.

The SLA Maintenance is successfully created and can be viewed using the [View SLA Maintenance](#) screen.

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

## 1.40.2 View SLA Maintenance

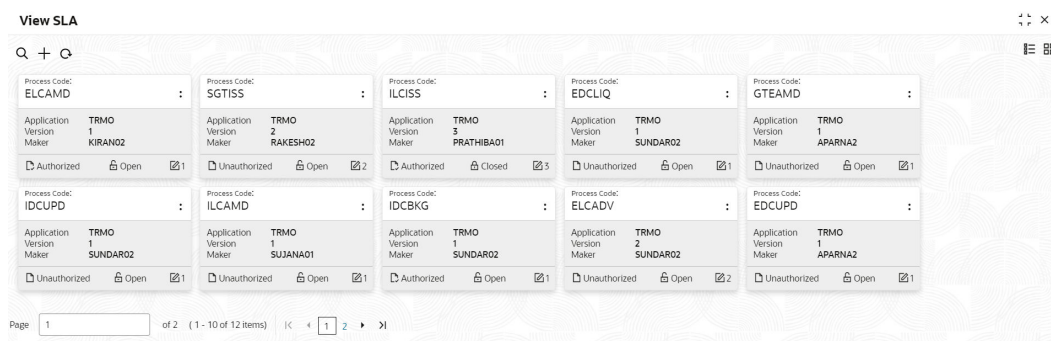
This topic describes the systematic instructions to view the list of configured SLA maintenance.

The user can configure an SLA maintenance using [Create SLA Maintenance](#) screen. Specify **User ID** and **Password**, and login to **Home** screen.

1. On **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **SLA Maintenance**.
2. Under **SLA Maintenance**, click **View SLA Maintenance**.

The **View SLA Maintenance** screen displays.

Figure 1-89 View SLA Maintenance



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

Table 1-91 View SLA Maintenance – Field Description

Field	Description
<b>Process Code</b>	Displays the process code of the SLA Maintenance configured.
<b>Application</b>	Displays the name of the application
<b>Authorization Status</b>	Displays the authorization status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Displays the status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>
<b>Modification Number</b>	Displays the number of modification performed on the record.

## 1.41 Screenclass

This topic describes the information to configure an Screenclass.

This topic contains the following subtopics:

- [Create Screenclass](#)  
This topic describes the systematic instructions to configure the Screenclass.
- [View Screenclass](#)  
This topic describes the systematic instructions to view the list of configured Screenclass.

### 1.41.1 Create Screenclass

This topic describes the systematic instructions to configure the Screenclass.

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Screenclass**.

- Under **Screenclass**, click **Create Screenclass**.  
The **Create Screenclass** screen displays.

**Figure 1-90 Create Screenclass**

- Specify the fields on **Create Screenclass** screen.

**Note:**

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

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

**Table 1-92 Create Screenclass – Field Description**

Field	Description
<b>Code</b>	Specify the code to configure the screenclass.
<b>Description</b>	Specify the description of the screenclass code.
<b>Domain</b>	Click <b>Search</b> icon and select the domain for the screenclass
<b>Breadcrumb Position</b>	Select the position of breadcrumb for the screenclass.
<b>Resource Flag</b>	Select the toggle to enable the resource class code.
<b>Resource Class Code</b>	Click <b>Search</b> icon and select the resource class code from the list  <div style="border: 1px solid #ccc; background-color: #e6f2ff; padding: 10px; margin-top: 10px;"> <p> <b>Note:</b> This field is active only if <b>Resource Flag</b> toggle is enabled.</p> </div>

- 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.

## 1.41.2 View Screenclass

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

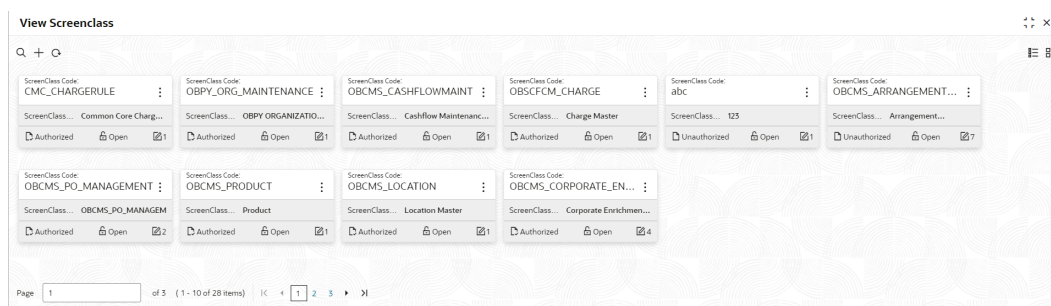
The user can configure an Screenclass using **Create Screenclass** screen.

Specify **User ID** and **Password**, and login to **Home** screen.

- On **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Screenclass**.
- Under **Screenclass**, click **View Screenclass**.

The **View Screenclass** screen displays.

**Figure 1-91 View Screenclass**



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

**Table 1-93 View Screenclass – Field Description**

Field	Description
<b>Screenclass Code</b>	Displays the code of screenclass.
<b>Screenclass Description</b>	Displays the description of screenclass.
<b>Authorization Status</b>	Displays the authorization status of the record. The options are: <ul style="list-style-type: none"> <li><b>Authorized</b></li> <li><b>Rejected</b></li> <li><b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Displays the status of the record. The options are: <ul style="list-style-type: none"> <li><b>Open</b></li> <li><b>Closed</b></li> </ul>
<b>Modification Number</b>	Displays the number of modification performed on the record.

## 1.42 State Code

This topic describes the information to configure an State Code.

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.

## 1.42.1 Create State Code

This topic describes the systematic instructions to configure the State Code.

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **State Code**.
2. Under **State Code**, click **Create State Code**.

The **Create State Code** screen displays.

**Figure 1-92 Create State Code**

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

 **Note:**

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

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

**Table 1-94 Create State Code – Field Description**

Field	Description
<b>State Code</b>	Specify the code of the state.
<b>State Name</b>	Specify the name of the state.
<b>Country Code</b>	Click <b>Search</b> icon and select the country code for the state to be configured.

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

The State Code is successfully created and can be viewed using the **View State Code** screen.

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

## 1.42.2 View State Code

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

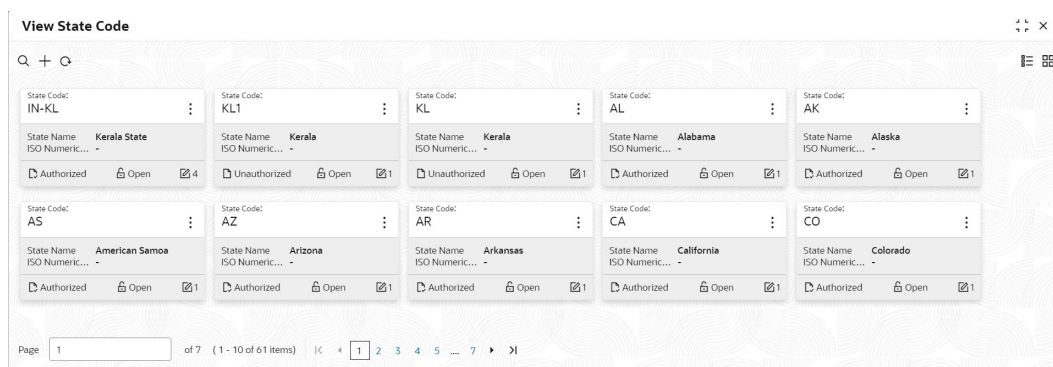
The user can configure an State Code using **Create State Code** screen.

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **State Code**.
2. Under **State Code**, click **View State Code**.

The **View State Code** screen displays.

**Figure 1-93 View State Code**



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

**Table 1-95 View State Code – Field Description**

Field	Description
<b>State Code</b>	Displays the State code.
<b>State Name</b>	Displays the name of state code.
<b>ISO Numeric</b>	Displays the ISO numeric.
<b>Authorization Status</b>	Displays the authorization status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Displays the status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>
<b>Modification Number</b>	Displays the number of modification performed on the record.



## 1.43 System Dates

This topic describes the information to view the system date details.

This topic contains the following subtopics:

- [View System Dates](#)  
This topic describes the systematic instructions to view the list of configured system dates.

### 1.43.1 View System Dates

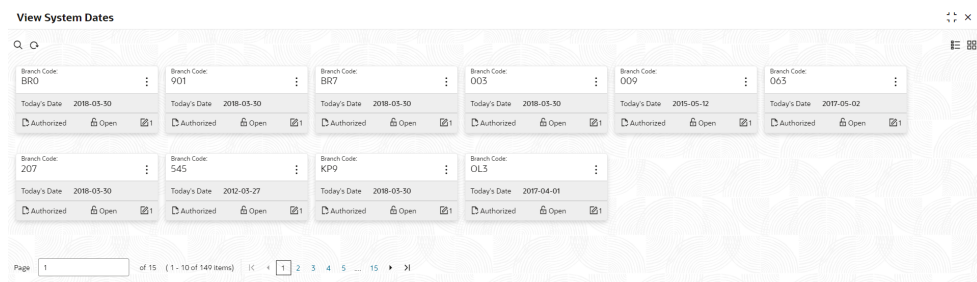
This topic describes the systematic instructions to view the list of configured system dates.

Specify **User ID** and **Password**, and login to **Home** screen.

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 displays.

**Figure 1-94 View System Dates**



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

**Table 1-96 View System Dates – Field Description**

Field	Description
<b>Branch Code</b>	Displays the code of the branch.
<b>Today's Date</b>	Displays system current date.
<b>Today's Date in Text</b>	Displays the system current date in words.
<b>Authorization Status</b>	Displays the authorization status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>

Table 1-96 (Cont.) View System Dates – Field Description

Field	Description
Record Status	Displays the status of the record. The options are: <ul style="list-style-type: none"><li>• Open</li><li>• Closed</li></ul>
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.

## 1.44 Transaction Code

This topic describes the information to configure the transaction code.

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.

### 1.44.1 Create Transaction Code

This topic describes the systematic instructions to configure transaction code details.

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Transaction Code**.
2. Under **Transaction Code**, click **Create Transaction Code**.

The **Create Transaction Code** screen displays.

**Figure 1-95 Create Transaction Code**

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

 **Note:**

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

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

**Table 1-97 Create Transaction Code – Field Description**

Field	Description
<b>Transaction Code</b>	Specify the transaction code details.
<b>Description</b>	Specify additional information about the transaction code.
<b>Source System</b>	Click <b>Search</b> icon to view and select the required source system.
<b>Source Transaction Code</b>	Specify the source transaction code details.

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

The transaction code is successfully created and can be viewed using the [View Transaction Code](#) screen.

## 1.44.2 View Transaction Code

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

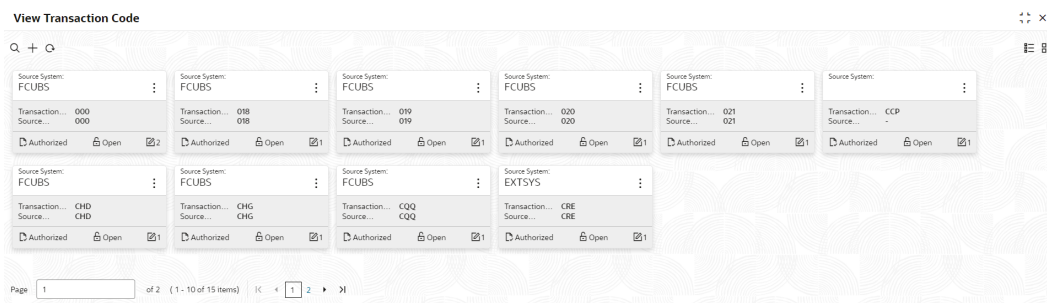
The user can configure transaction code using [Create Transaction Code](#) screen.

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Transaction Code**.
2. Under **Transaction Code**, click **View Transaction Code**.

The **View Transaction Code** screen displays.

**Figure 1-96 View Transaction Code**



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

**Table 1-98 View Transaction Code – Field Description**

Field	Description
<b>Source System</b>	Displays the source system details.
<b>Transaction Code</b>	Displays the transaction code details.
<b>Source Transaction Code</b>	Displays the source transaction code associated with the transaction code.
<b>Authorization Status</b>	Displays the authorization status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Displays the status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>
<b>Modification Number</b>	Displays the number of modification performed on the record.

## 1.45 Upload Source

This topic describes the information to upload a source code

This topic contains the following subtopics:

- [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.

### 1.45.1 Create Upload Source

This topic describes the systematic instructions to create upload source.

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Upload Source**.
2. Under **Upload Source**, click **Create Upload Source**.

The **Create Upload Source** screen displays.

**Figure 1-97 Create Upload Source**

3. Specify the fields on **Create Upload Source** screen.

 **Note:**

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

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

**Table 1-99 Create Upload Source – Field Description**

Field	Description
<b>Source Code</b>	Specify the source code details.
<b>Source Description</b>	Specify additional information of the source code.
<b>Base Data from Flexcube</b>	By default, this is disabled. If selected, indicates the base data is from FLEXCUBE.
<b>System Authorization Required</b>	By default, this is disabled. If selected, indicates the system requires authorization.

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

The upload source is successfully created and can be viewed using the [View Upload Source](#) screen.

## 1.45.2 View Upload Source

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

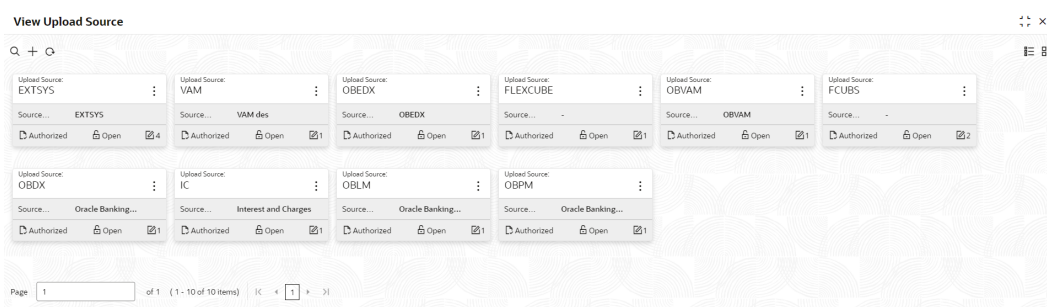
The user can configure upload source using [Create Upload Source](#) screen.

Specify **User ID** and **Password**, and login to **Home** 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 displays.

**Figure 1-98 View Upload Source**



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

**Table 1-100 View Upload Source – Field Description**

Field	Description
<b>Upload Source</b>	Displays the upload source details.
<b>Source Description</b>	Displays information about the source code.
<b>Authorization Status</b>	Displays the authorization status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Displays the status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>
<b>Modification Number</b>	Displays the number of modification performed on the record.

## 1.46 Upload Source Preference

This topic describes the information to configure upload source preference.

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.

## 1.46.1 Create Upload Source Preference

This topic describes the systematic instructions to configure upload source preference.

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **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 displays.

**Figure 1-99 Create Upload Source Preference**

3. Specify the fields on **Create Upload Source Preference** screen.

**Note:**

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

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

**Table 1-101 Create Upload Source Preference – Field Description**

Field	Description
<b>Source Code</b>	Click <b>Search</b> icon to view and select the required source code.
<b>On Error</b>	Select an error from the drop-down list.
<b>On Override</b>	Select an override from the drop-down list.

**Table 1-101 (Cont.) Create Upload Source Preference – Field Description**

Field	Description
<b>On Repairable Exception</b>	Select the repairable exception from the drop-down list.
<b>On Queue Exception</b>	Select the queue exception from the drop-down list.
<b>Status</b>	Select a status from the drop-down list.
<b>Purge Days</b>	Specify the purging days if the user wants to maintain any days to be purged while processing interface.
<b>Allow Deferred Processing</b>	By default, this is disabled. If selected, defers process the upload source preference.
<b>Allow EOD with Deferred</b>	By default, this is disabled. If selected, processes the EOD with deferred.
<b>Deletion Allowed</b>	By default, this is disabled. If selected, deletes the upload source preferences.
<b>Reverse Allowed</b>	By default, this is disabled. If selected, reverses the upload source preferences.
<b>Amend Allowed</b>	By default, this is disabled. If selected, amends the upload source preferences.
<b>Proceed with EOD</b>	By default, this is disabled. If selected, proceeds with the EOD.

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

The upload source preference is successfully created and can be viewed using the [View Upload Source Preference](#) screen.

## 1.46.2 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.

Specify **User ID** and **Password**, and login to **Home** screen.

- On **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Upload Source Preference**.
- Under **Upload Source Preference**, click **View Upload Source Preference**.

The **View Upload Source Preference** screen displays.

**Figure 1-100 View Upload Source Preference**



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

**Table 1-102 View Upload Source Preference – Field Description**

<b>Field</b>	<b>Description</b>
<b>Source Code</b>	Displays the code of the source.
<b>Status</b>	Displays the status of the post upload.
<b>Purge Days</b>	Displays the number of purge days.
<b>Authorization Status</b>	Displays the authorization status of the record. The options are: <ul style="list-style-type: none"><li>• <b>Authorized</b></li><li>• <b>Rejected</b></li><li>• <b>Unauthorized</b></li></ul>
<b>Record Status</b>	Displays the status of the record. The options are: <ul style="list-style-type: none"><li>• <b>Open</b></li><li>• <b>Closed</b></li></ul>
<b>Modification Number</b>	Displays the number of modification performed on the record.

# 2

## Bureau Integration Service

This topic provides 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.
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.

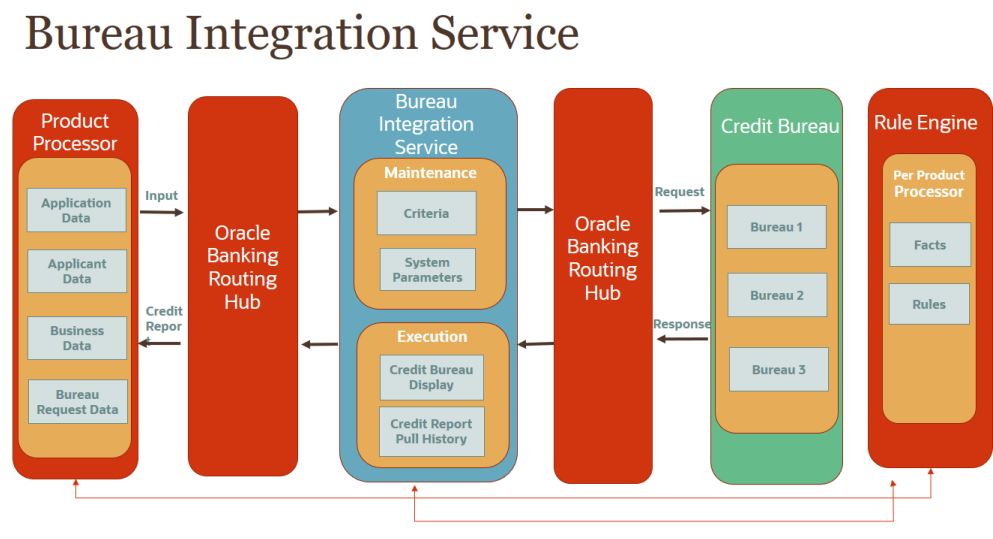
A new bureau can be added with only a configuration and without any change in the code. Two lookup types are required to be created in the bureau integration service. One for bureau and another for bureau product type. The additional maintenance required is configuration of the new bureau in the routing 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:

**Figure 2-1 Bureau Integration Service**



- [Overview](#)  
This topic describes the overview about the Decision 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 Decision service.

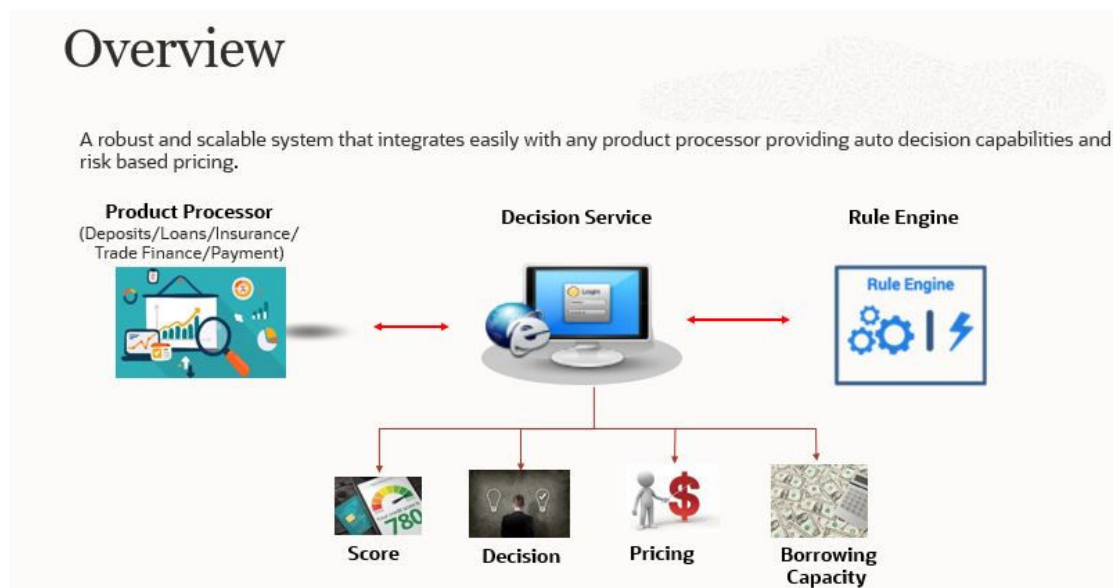
The Decision service provides automatic decision making capabilities that can allow lenders to develop simple business processes and strengthen the decision-making process.

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.

**Figure 2-2 Decision Service Overview**



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 internally 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.

### 2.2.1 Create System Parameter

This topic describes the systematic instructions to create system parameter by updating various details.

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **Homescreen**, click **Core Maintenance**, under **Core Maintenance**, click **Credit Bureau**.
2. Under **Credit Bureau**, click **Maintenance**, under **Maintenance**, click **System Parameter**, under **System Parameter**, click **Create System Parameter**.

The **Create System Parameter** screen displays.

**Figure 2-3 Create System Parameter**

Figure 2-3 shows the 'Create System Parameter' screen. The form is titled 'Create System Parameter' and has a close button (X) in the top right corner. It is divided into two main sections: 'Basic Details' and 'Parameter Description'. Under 'Basic Details', there are two required fields: 'Parameter Code' (a dropdown menu with 'Select' as the current value) and 'Product Processor' (a dropdown menu). Under 'Parameter Description', there are two required fields: 'Parameter Description' (a text input field) and 'Value' (a text input field). At the bottom right of the form, there are 'Cancel' and 'Save' buttons.

3. On **Create System Parameter** screen, specify the fields.



**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
<b>Parameter Code</b>	Select the parameter code from the drop-down list.
<b>Parameter Description</b>	Specify the short description for the parameter code.
<b>Product Processor</b>	Select the product processor from the drop-down list for which the parameter is being created.
<b>Value</b>	Specify the value for the parameter code.

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

The **System Parameter** is successfully created and can be viewed using the [View System Parameter](#) screen.

## 2.2.2 View System Parameter

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

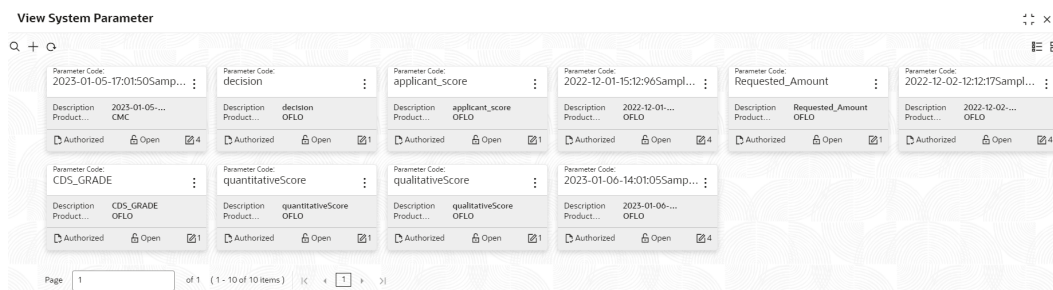
The user can configure the system parameter using the [Create System Parameter](#) screen. The status of the created system parameter is displayed as **Unauthorized** and **Open**. Once the checker authorizes the system parameter, the status is updated to **Authorized** and **Open**.

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **Homescreen**, click **Core Maintenance**, under **Core Maintenance**, click **Credit Bureau**.
2. Under **Credit Bureau**, click **Maintenance**, under **Maintenance**, click **System Parameter**, under **System Parameter**, click **View System Parameter**.

The **View System Parameter** screen displays.


**Figure 2-4 View System Parameter**



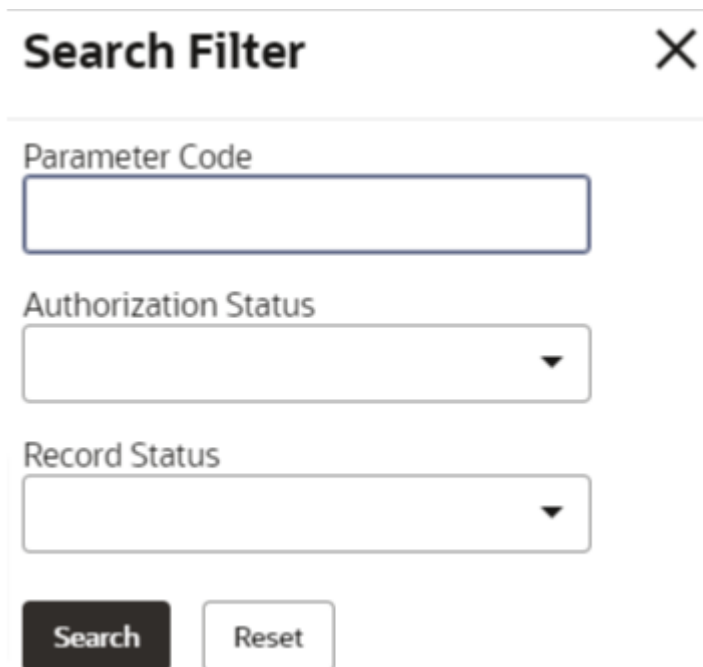
For more information on fields, refer to the field description table.

**Table 2-2 View System Parameter - Field Description**

Field	Description
<b>Parameter Code</b>	Displays the parameter code.
<b>Description</b>	Displays the description of the parameter code.
<b>Product Processor</b>	Displays the product processor of the parameter.
<b>Authorization Status</b>	Displays the authorization status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Displays the status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>
<b>Modification Number</b>	Displays the number of modification performed on the record.

3. On **View System Parameter**, click  icon.  
The **View System Parameter - Search** screen displays.

**Figure 2-5 View System Parameter - Search**



**Search Filter** ✕

Parameter Code

Authorization Status

Record Status

**Search**


4. On **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
<b>Parameter Code</b>	Specify the parameter code.
<b>Authorization Status</b>	Select the authorization status from the drop-down list. The available options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Select the record status from the drop-down list. The available options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>

- Click **Search** to display the required system parameter.

- On **View System Parameter** screen, click  icon to **Unlock, Delete, Authorize or View** the created system parameter.
- Click **Unlock** to modify the created system parameter.

The **System Parameter Maintenance - Modify** screen displays.

**Figure 2-6 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
<b>Parameter Code</b>	Displays the created system parameter code.
<b>Parameter Description</b>	Displays the created system parameter description.
<b>Product Processor</b>	Displays the product processor of the created system parameter. User can modify the same.
<b>Value</b>	Displays the value for the created system parameter. User can modify the same.

- Click **Save** to update the modified fields.
- Click **View** to view the created system parameter code.

The **System Parameter Maintenance - View** screen displays.



**Figure 2-7 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
<b>Parameter Code</b>	Displays the created system parameter code.
<b>Parameter Description</b>	Displays the created system parameter description.
<b>Product Processor</b>	Displays the product processor of the created system parameter.
<b>Value</b>	Displays the value for the created system parameter.

## 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.

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **Homescreen**, click **Core Maintenance**, under **Core Maintenance**, click **Credit Bureau**.
2. Under **Credit Bureau**, click **Maintenance**, under **Maintenance**, click **Lookup**, under **Lookup**, click **Create Lookup**.

The **Create Lookup** screen displays.

**Figure 2-8 Create Lookup**

3. On **Create Lookup** screen, specify the fields.

 **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
<b>Lookup Type</b>	Specify the unique lookup type name.
<b>Description</b>	Specify the short description for lookup.
<b>+ button</b>	Click to add a new row.
<b>- button</b>	Click to delete a row that is already added.
<b>Lookup Code</b>	Specify the unique lookup code.
<b>Description</b>	Specify the short description for lookup.
<b>Sort Order</b>	Specify the sort order.
<b>Dependent Identifier</b>	Specify the dependent Identifier.
<b>Enable</b>	Click the toggle status to enable the parameter.

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

The **Lookup** is successfully created and can be viewed using the [View Lookup](#) screen.

## 2.3.2 View Lookup

This topic describes the systematic instructions to view the list of configured lookup for Bureau Integration Service.

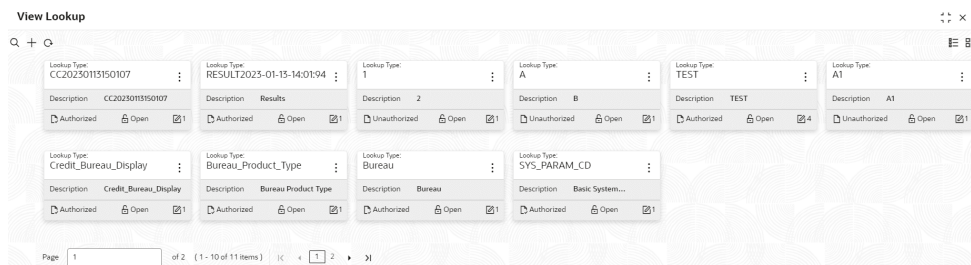
The user can configure the lookup using the [Create Lookup](#) screen. The status of the created lookup is displayed as **Unauthorized** and **Open**. Once the checker authorizes the lookup, the status is updated to **Authorized** and **Open**.

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **Homescreen**, click **Core Maintenance**, under **Core Maintenance**, click **Credit Bureau**.
2. Under **Credit Bureau**, click **Maintenance**, under **Maintenance**, click **Lookup**, under **Lookup**, click **View Lookup**.

The **View Lookup** screen displays.


**Figure 2-9 View Lookup**



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

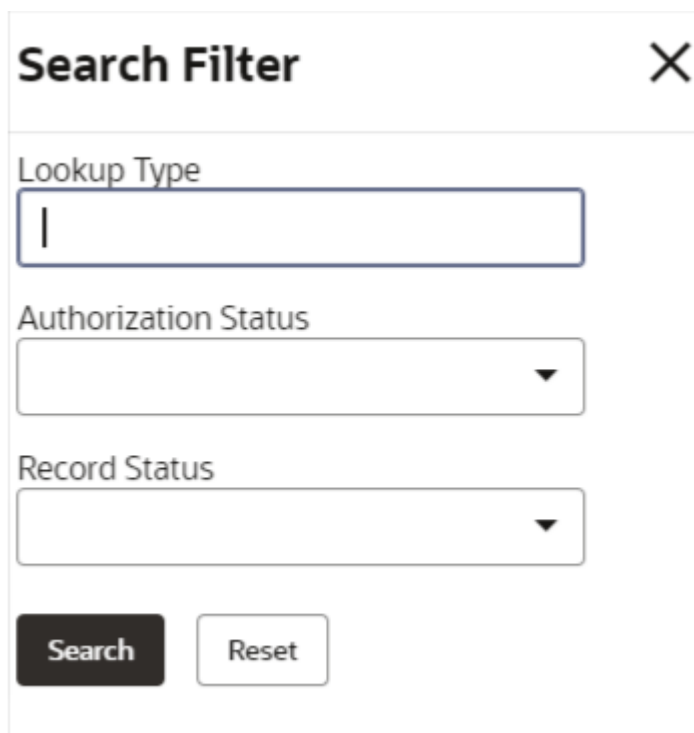
**Table 2-7 View Lookup – Field Description**

Field	Description
<b>Lookup Type</b>	Displays the lookup type.
<b>Description</b>	Displays the description of the lookup.
<b>Authorization Status</b>	Displays the authorization status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Displays the status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>
<b>Modification Number</b>	Displays the number of modification performed on the record.

3. On **View Lookup** screen, click  icon.

The **View Lookup - Search** screen displays.

**Figure 2-10 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 2-8 View Lookup – Search – Field Description**

Field	Description
<b>Lookup Type</b>	Specify the lookup type name.
<b>Authorization Status</b>	Select the authorization status from the drop-down list. The available options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Select the record status from the drop-down list. The available options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>

5. Click **Search** to display the required lookup.



6. On **View Lookup** screen, click  icon to **Unlock, Delete, Authorize** or **View** the created lookup.

- Click **Unlock** to modify the created lookup.  
The **Lookup Maintenance - Modify** screen displays.

**Figure 2-11 Lookup Maintenance - Modify**

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

**Table 2-9 Lookup Maintenance - Modify - Field Description**

Field	Description
<b>Lookup Type</b>	Displays lookup type name.
<b>Description</b>	Displays the short description of the lookup. User can modify the same.
<b>+ button</b>	Click to add a new row.
<b>- button</b>	Click to delete a row that is already added.
<b>Lookup Code</b>	Displays the lookup code for the created lookup. User can modify the same.
<b>Description</b>	Displays the description for the created lookup.
<b>Sort Order</b>	Displays the sort order for the created lookup. User can modify the same.
<b>Dependent Identifier</b>	Displays the dependent Identifier for the created lookup. User can modify the same.
<b>Enable</b>	Indicates if the lookup is enabled or not. User can modify the same.

- Click **Save** to update the modified fields.
- Click **View** to view the created lookup code.  
The **Lookup Maintenance - View** screen displays.

**Figure 2-12 Lookup Maintenance - View**

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

**Table 2-10 Lookup Maintenance - View - Field Description**

Field	Description
<b>Lookup Type</b>	Displays the created lookup type.
<b>Description</b>	Displays the description for the created lookup.
<b>Lookup Code</b>	Displays the lookup code for the created lookup.
<b>Description</b>	Displays the description for the created lookup.
<b>Sort Order</b>	Displays the sort order for the created lookup.
<b>Dependent Identifier</b>	Displays the dependent identifier for the created lookup.
<b>Enable</b>	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.

## 2.4.1 Create Product Processor

This topic describes the systematic instructions to create product processor by updating various details.

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **Homescreen**, click **Core Maintenance**, under **Core Maintenance**, click **Credit Bureau**.
2. Under **Credit Bureau**, click **Maintenance**, under **Maintenance**, click **Product Processor**, under **Product Processor**, click **Create Product Processor**.

The **Create Product Processor** screen displays.

**Figure 2-13 Create Product Processor**

3. On **Create Product Processor** screen, specify the fields.

 **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
<b>Product Processor Code</b>	Specify the unique product processor code.
<b>Product Processor Description</b>	Specify the short description for product processor.
<b>Effective Date</b>	Specify the effective date.
<b>Expiry Date</b>	Specify the expiry date.

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

The **Product Processor** is successfully created and can be viewed using the [View Product Processor](#) screen.

## 2.4.2 View Product Processor

This topic describes the systematic instructions to view the list of product processor.

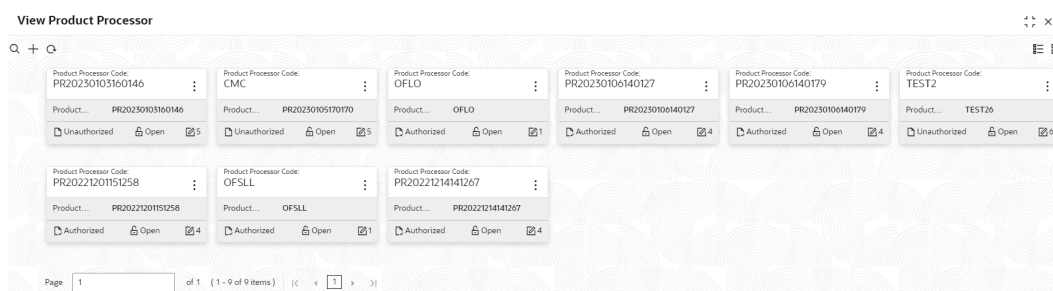
The user can create the product processor using the [Create Product Processor](#) screen. The status of the created system parameter is displayed as **Unauthorized** and **Open**. Once the checker authorizes the system parameter, the status is updated to **Authorized** and **Open**.

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **Homescreen**, click **Core Maintenance**, under **Core Maintenance**, click **Credit Bureau**.
2. Under **Credit Bureau**, click **Maintenance**, under **Maintenance**, click **Product Processor**, under **Product Processor**, click **View Product Processor**.

The **View Product Processor** screen displays.

**Figure 2-14 View Product Processor**



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

**Table 2-12 View Product Processor - Field Description**

Field	Description
<b>Product Processor Code</b>	Displays the product processor code.
<b>Product Processor Description</b>	Displays the description of the product processor.
<b>Authorization Status</b>	Displays the authorization status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Displays the status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>
<b>Modification Number</b>	Displays the number of modification performed on the record.




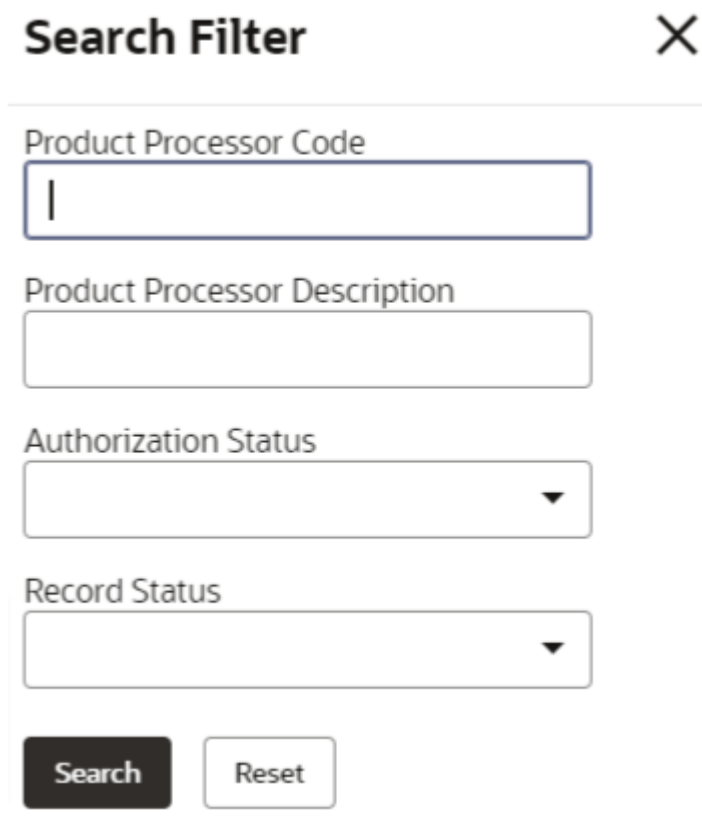
- On **View Product Processor** screen, click  icon.  
The **View Product Processor - Search** screen displays.

Figure 2-15 View Product Processor - Search



**Search Filter** ✕

Product Processor Code

Product Processor Description

Authorization Status

Record Status

**Search**

- On **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
<b>Product Processor Code</b>	Specify the product processor code.
<b>Product Processor Description</b>	Specify the product processor description.
<b>Authorization Status</b>	Select the authorization status of the product processor. The available options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>

**Table 2-13 (Cont.) View Product Processor - Search - Field Description**

Field	Description
<b>Record Status</b>	Select the record status of the product processor. The available options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>

- Click **Search** to display the required product processor.



- On **View Product Processor** screen, click  icon to **Unlock, Delete, Authorize** or **View** the created product processor.
- Click **Unlock** to modify the created product processor.

The **Product Processor Maintenance - Modify** screen displays.

**Figure 2-16 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
<b>Product Processor Code</b>	Displays the product processor code.
<b>Product Processor Description</b>	Displays the product processor description. User can modify the same.
<b>Effective Date</b>	Displays the effective date of the created product processor. User can modify the same before authorization if it is future dated.
<b>Expiry Date</b>	Displays the expiry date of the created product processor. User can modify the same.

- Click **Save** to update the modified fields.
- Click **View** to view the created product processor.

The **Product Processor Maintenance - View** screen displays.

**Figure 2-17 Product Processor Maintenance - View**

The screenshot shows a web interface for 'Product Processor Maintenance'. It features a 'Basic Details' section with two columns of information. The left column contains 'Product Processor Code' (OFLO) and 'Effective Date' (September 1, 2020). The right column contains 'Product Processor Description' (OFLO) and 'Expiry Date' (May 6, 2025). An 'Audit' button is located at the bottom left of the screen.

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

**Table 2-15 Product Processor Maintenance - View - Field Description**

Field	Description
<b>Product Processor Code</b>	Displays the product processor code.
<b>Product Processor Description</b>	Displays the product processor description.
<b>Effective Date</b>	Displays the effective date of the created product processor.
<b>Expiry Date</b>	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.

## 2.5.1 Create Bureau Criteria

This topic describes the systematic instructions to create bureau criteria by updating various details.

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **Homescreen**, click **Core Maintenance**, under **Core Maintenance**, click **Credit Bureau**.
2. Under **Credit Bureau**, click **Maintenance**, under **Maintenance**, click **Criteria**, under **Criteria**, click **Create Bureau Criteria**.

The **Create Bureau Criteria** screen displays.

**Figure 2-18 Create Bureau Criteria**

3. Specify the fields on **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
<b>Criteria Code</b>	Specify the unique criteria code.
<b>Description</b>	Specify a short description for the criteria code.
<b>Product Processor</b>	Specify the product processor for which the criteria is being created.
<b>+ button</b>	Click to add a new row.
<b>- button</b>	Click to delete a row that is already added.

Table 2-16 (Cont.) Create Bureau Criteria – Field Description

Field	Description
	Click to get the information about the rule.
<b>Rule ID</b>	Specify the rule ID.
<b>Description</b>	Displays the description of the rule ID selected.
<b>Priority</b>	Specify the priority of the criteria.
<b>Call All Bureau</b>	Click the toggle status to call all bureaus.
<b>Enable</b>	Click the toggle status to enable the rule criteria.
<b>Action</b>	This field is enabled if the <b>Call All Bureau</b> toggle is <b>OFF</b> .
<b>+ button</b>	Click this icon to add the child rule to the parent rule.
<b>Rule ID</b>	Select the rule ID from the drop down list.  <div style="background-color: #e6f2ff; padding: 10px; border: 1px solid #0070c0;">  <b>Note:</b> This field is enabled if the <b>Call All Bureau</b> toggle is <b>OFF</b>. </div>
	Click to get the information about the rules.  <div style="background-color: #e6f2ff; padding: 10px; border: 1px solid #0070c0;">  <b>Note:</b> This field is enabled if the <b>Call All Bureau</b> toggle is <b>OFF</b>. </div>
<b>Description</b>	Displays the description of the rule ID selected it is auto populated.  <div style="background-color: #e6f2ff; padding: 10px; border: 1px solid #0070c0;">  <b>Note:</b> This field is enabled if the <b>Call All Bureau</b> toggle is <b>OFF</b>. </div>
<b>Priority</b>	Specify the priority of the criteria.  <div style="background-color: #e6f2ff; padding: 10px; border: 1px solid #0070c0;">  <b>Note:</b> This field is enabled if the <b>Call All Bureau</b> toggle is <b>OFF</b>. </div>

**Table 2-16 (Cont.) Create Bureau Criteria – Field Description**

Field	Description
<b>Enable</b>	Click the toggle status to enable the rule criteria.  <div style="border-left: 2px solid #0070C0; border-right: 2px solid #0070C0; border-bottom: 2px solid #0070C0; padding: 10px; background-color: #E6F2FF;"> <p> <b>Note:</b> This field is enabled if the <b>Call All Bureau</b> toggle is <b>OFF</b>.</p> </div>

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

The **Criteria** are successfully created and can be viewed using the [View Bureau Criteria](#) 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**.

Specify **User ID** and **Password**, and login to **Home** screen.

- On **Homescreen**, click **Core Maintenance**, under **Core Maintenance**, click **Credit Bureau**.
- Under **Credit Bureau**, click **Maintenance**, under **Maintenance**, click **Criteria**, under **Criteria**, click **View Bureau Criteria**.

The **View Bureau Criteria** screen displays.

**Figure 2-19 View Bureau Criteria**

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

**Table 2-17 View Bureau Criteria – Field Description**

Field	Description
<b>Criteria Code</b>	Displays the criteria code.
<b>Description</b>	Displays the description of the criteria code.
<b>Product Processor</b>	Displays the product processor of the criteria.

Table 2-17 (Cont.) View Bureau Criteria – Field Description

Field	Description
<b>Authorization Status</b>	Displays the authorization status of the record. The options are: <ul style="list-style-type: none"><li>• <b>Authorized</b></li><li>• <b>Rejected</b></li><li>• <b>Unauthorized</b></li></ul>
<b>Record Status</b>	Displays the status of the record. The options are: <ul style="list-style-type: none"><li>• <b>Open</b></li><li>• <b>Closed</b></li></ul>
<b>Modification Number</b>	Displays the number of modification performed on the record.

3. On **View Bureau Criteria** screen, click



icon.

The **View Criteria - Search** screen displays.

Figure 2-20 View Criteria - Search

**Search Filter** ✕

Criteria Code

Description

Product Processor

Authorization Status

Record Status

**Search**

- On **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
<b>Criteria Code</b>	Specify the criteria code.
<b>Description</b>	Specify the criteria description.
<b>Product Processor</b>	Select the product processor from the drop-down list.
<b>Authorization Status</b>	Select the authorization status from the drop-down list. The available options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Select the record status from the drop-down list. The available options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>



5. Click **Search** to display the required criteria code.
6. On **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 2-21 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
<b>Criteria Code</b>	Displays the created criteria code.
<b>Description</b>	Displays the description for the created criteria code.
<b>Product Processor</b>	Displays the product processor for which the criteria is being created.
<b>Rule ID</b>	Displays the rule ID for the created criteria.
<b>Description</b>	Displays the description for the created criteria.
<b>Priority</b>	Displays the the priority for the created criteria.
<b>Call All Bureau</b>	Displays if call all bureau has been enabled for the created criteria.
<b>Enable</b>	Displays the criteria code if enabled for the created criteria.
<b>Actions</b>	Displays the actions of the created criteria.

8. Click **Save** to update the modified fields.
9. Click **View** to view the created criteria code.

The **Bureau Criteria Maintenance - View** screen displays.

**Figure 2-22 Bureau Criteria Maintenance - View**

**Bureau Criteria Maintenance**

**Basic Details**

Criteria Code: CRITERIA001  
Description: Bureau Criteria  
Product Processor: OFLO

**Criteria Definition**

<input type="checkbox"/>	Rule ID	Description	Priority	Call All Bureau	Enable	Actions
<input type="checkbox"/>	▶ MTEST3	• MTEST	1	Yes No	<input type="checkbox"/>	+ -
<input type="checkbox"/>	▶ TESTRULE9	• TESTRULE9	2	Yes No	<input type="checkbox"/>	+ -

Audit

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

**Table 2-20 Bureau Criteria Maintenance - View - Field Description**

Field	Description
<b>Criteria Code</b>	Displays the created criteria code.
<b>Description</b>	Displays the created criteria description.
<b>Product Processor</b>	Displays the product processor of the created criteria.
<b>Rule ID</b>	Displays the rule ID for the created criteria.
<b>Description</b>	Displays the description for the created criteria.
<b>Priority</b>	Displays the priority for the created criteria.
<b>Call All Bureau</b>	Displays if call all bureau has been enabled for the created criteria.
<b>Enable</b>	Displays the criteria code if enabled for the created criteria.
<b>Actions</b>	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

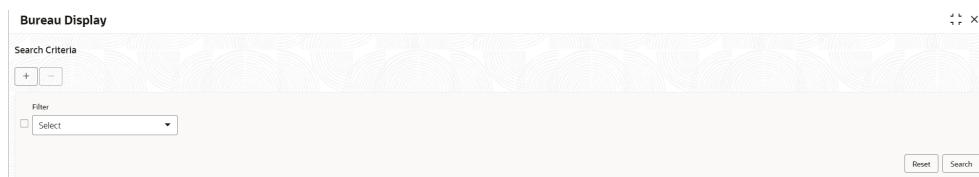
This topic describes the systematic instructions to view the credit bureau report based on the various filter options provided.

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **Home** screen, click **Credit Bureau**. Under **Credit Bureau**, click **Operations**.
2. Under **Operations**, click **Credit Bureau Display**.

The **Credit Bureau Display** screen is displays.

**Figure 2-23 Credit Bureau Display**



3. Specify the fields on **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
<b>Filter</b>	<p>Select the required option based on which you can search for the credit bureau reports from the drop-down list.</p> <p>The options are:</p> <ul style="list-style-type: none"> <li>• <b>External Reference Number</b></li> <li>• <b>Inquiry ID</b></li> <li>• <b>Inquiry Date</b></li> <li>• <b>Bureau Name</b></li> <li>• <b>Product Processor</b></li> <li>• <b>Application Number</b></li> <li>• <b>Bureau Report ID</b></li> </ul>

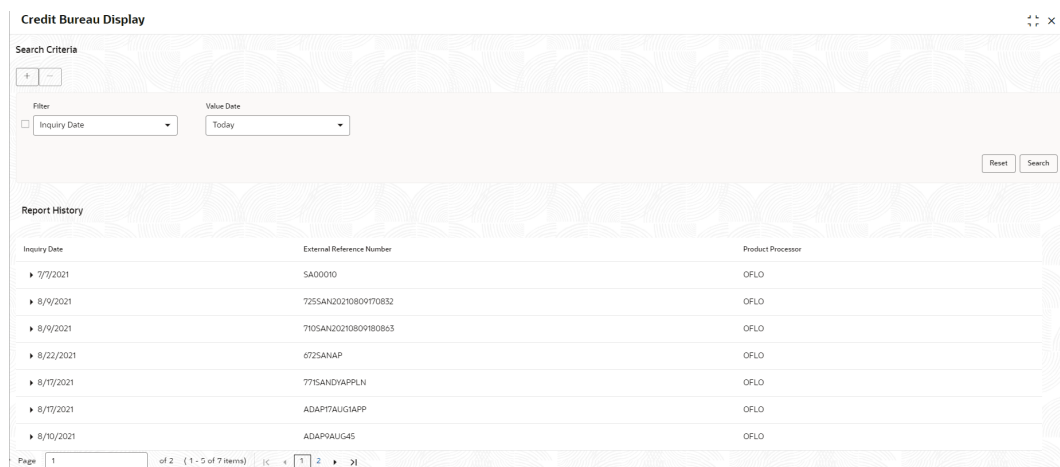
**Table 2-21 (Cont.) Credit Bureau Display- Field Description**

Field	Description
<b>Value</b>	<p>Specify the required details or select the appropriate option for the selected filter option.</p> <div style="border: 1px solid #ccc; padding: 10px; background-color: #e6f2ff;"> <p> <b>Note:</b></p> <p>This field appears once the user select the filter option as <b>Inquiry Date</b> and value as <b>Date Range</b>.</p> </div>
<b>From Date</b>	<p>Select the start date of the period during which the report was generated.</p> <div style="border: 1px solid #ccc; padding: 10px; background-color: #e6f2ff;"> <p> <b>Note:</b></p> <p>This field appears if the user select the filter option as <b>Inquiry Date</b> and value as <b>Date Range</b>.</p> </div>
<b>To Date</b>	<p>Select the end date of the period during which the report was generated.</p> <div style="border: 1px solid #ccc; padding: 10px; background-color: #e6f2ff;"> <p> <b>Note:</b></p> <p>This field appears if the user select the filter option as <b>Inquiry Date</b> and value as <b>Date Range</b>.</p> </div>

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.

**Figure 2-24 Credit Bureau Display - Report History**



The screenshot shows the 'Credit Bureau Display' interface. At the top, there are search criteria fields: 'Filter' (set to 'Inquiry Date') and 'Value Date' (set to 'Today'). Below this is a 'Report History' table with the following data:

Inquiry Date	External Reference Number	Product Processor
7/7/2021	SAD00010	OFLO
8/9/2021	7255AN20210809Y0832	OFLO
8/9/2021	7105AN20210809R0863	OFLO
8/22/2021	672SANAP	OFLO
8/17/2021	7715ANDYAPPLN	OFLO
8/17/2021	ADAP17AUGIAPP	OFLO
8/10/2021	ADAP9AUG45	OFLO

At the bottom of the table, there is a pagination control showing 'Page 1 of 2 (1 - 5 of 7 items)' and navigation buttons.

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

**Table 2-22 Credit Bureau Display - Report History – Field Description**

Field	Description
<b>Inquiry Date</b>	Displays the inquiry date of the request from product processor to bureau integration service.
<b>External Reference Number</b>	Displays the external reference number provided by the product processor.
<b>Product Processor</b>	Displays the name of the product processor that sent the request.

- Click the arrow icon to view the corresponding list of reports.  
The list of reports displays on **Credit Bureau Display** screen.

**Figure 2-25 Credit Bureau Display - List of Report**

The screenshot shows the 'Credit Bureau Display' interface. At the top, there is a 'Search Criteria' section with a search bar and a 'Search' button. Below this is the 'Report History' section, which displays a table of reports. The table has columns for 'Inquiry Date', 'External Reference Number', and 'Product Processor'. The first two rows are expanded to show details for 'JOHN CANN'. Each expanded row includes a 'View' button and a pop-up window showing report details from Experian, such as 'Inquiry ID', 'Report ID', 'Report Date', and 'Product'.

Inquiry Date	External Reference Number	Product Processor
7/7/2021	SA00010	OFLO
8/9/2021	725SAN20210809Y70832	OFLO
8/9/2021	7105AN20210809180863	OFLO
8/22/2021	672SANAP	OFLO
8/17/2021	775SANDYAPPLN	OFLO
8/17/2021	ADAP17AUGIAPP	OFLO
8/10/2021	ADAP18AUG45	OFLO

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

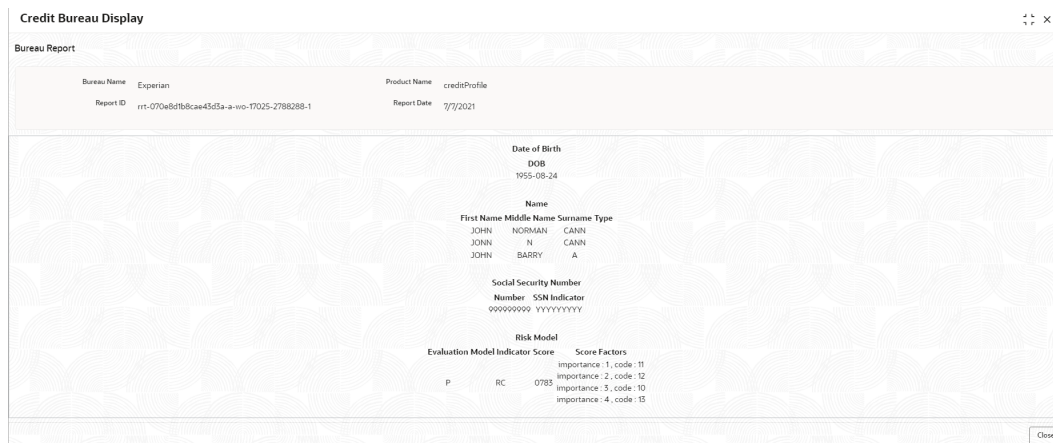
**Table 2-23 Create Bureau Display - List of Report – Field Description**

Field	Description
<b>Applicant Name</b>	Displays the name of the applicant.
<b>Bureau Name</b>	Displays the name of the credit bureau agency.
<b>Inquiry ID</b>	Displays the inquiry ID generated by bureau integration service.
<b>Report ID</b>	Displays the report ID provided by the credit bureau agency.
<b>Report Date</b>	Displays the date on which the credit bureau report is generated by the bureau.
<b>Product</b>	Displays the product of the credit bureau agency.
<b>View</b>	Click <b>View</b> to view the credit bureau report.

- Click the **View** link to view the credit bureau report.

The **Create Bureau Display - Bureau Report** displays.

**Figure 2-26 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
<b>Bureau Name</b>	Displays the name of the credit bureau agency.
<b>Product Name</b>	Displays the product name of the credit bureau agency.
<b>Report ID</b>	Displays the report ID provided by the credit bureau agency.
<b>Report Date</b>	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.
- [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.

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Routing Hub**.
2. Under **Routing Hub**, click **Service Consumers**.

The **Service Consumers** screen displays.

**Figure 2-27 Service Consumers**

Service Consumers						
OBIC_FCUBS	TestConsumer	OBLM	OBLM-bbbb	OBLM_JKM	Testing	
OBLM_DDA	OBLM_629_test	OBLM-NEW	OBLM_Mashreq			

Page 1 of 2 (1 - 10 of 14 items) | 1 2 >

#### Add Service Consumer

3. Click **Add**.

The **Add Service Consumer** screen displays.

**Figure 2-28 Add Service Consumer**

Add Service Consumer

Name  Required

Audit Type

Environment Variables

Add

Group  Required

Actions	Name	Value
No data to display.		

Save

4. Specify the fields on **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
<b>Name</b>	Specify the name of the service consumer.  <div style="border: 1px solid #0070C0; padding: 5px; background-color: #E6F2FF;"> <p> <b>Note:</b></p> <ul style="list-style-type: none"> <li>• Enter 0 to maximum of 255 characters.</li> <li>• No numeric value at beginning and no space allowed.</li> </ul> </div>
<b>Add</b>	To add, refer to step 5. Select the group from the drop-down list. The available options are: <ul style="list-style-type: none"> <li>• <b>Group</b></li> <li>• <b>Variable</b></li> </ul>
<b>Group</b>	Select the group from the drop-down list.
<b>Action</b>	Displays the action. The user can edit or delete the header.
<b>Name</b>	Displays the name of the header.
<b>Value</b>	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 displays.

**Figure 2-29 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.

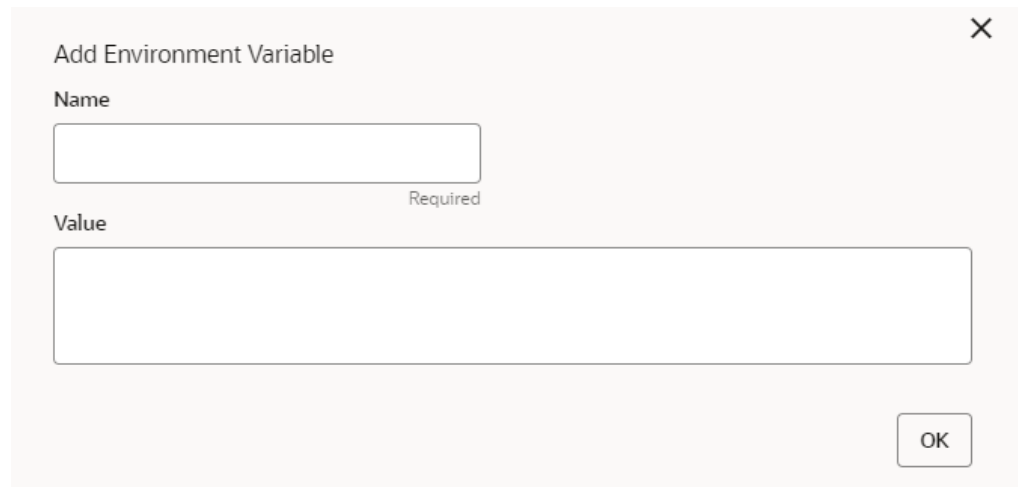
**Table 2-26 Add Environment Group - Field Description**

Field	Description
<b>Name</b>	Specify the name of the environment group.  <div data-bbox="803 661 933 703" data-label="Section-Header"> <p> <b>Note:</b></p> </div> <ul style="list-style-type: none"> <li>• Enter 0 to maximum of 255 characters.</li> <li>• No numeric value at beginning and no space allowed.</li> </ul>

- c. Click **Add** on **Add Service Consumer** screen and select **Variable** from drop-down list to add the variable.

The **Add Environment Variable** screen displays.

**Figure 2-30 Add Environment Variable**




- d. Specify the fields on **Add Environment Variable** screen and click **OK**.

 **Note:**

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

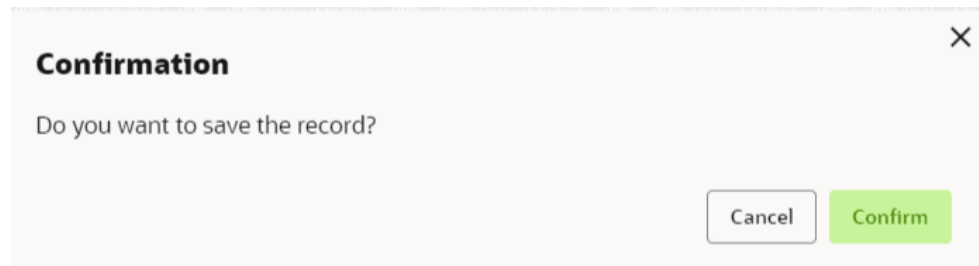
For more information on fields, refer to the field description table.

**Table 2-27 Add Environment Variable - Field Description**

Field	Description
<b>Name</b>	Specify the name of the environment variable.  <div style="border: 1px solid #ccc; background-color: #e6f2ff; padding: 10px;"> <p> <b>Note:</b></p> <ul style="list-style-type: none"> <li>• Enter 0 to maximum of 255 characters.</li> <li>• No numeric value at beginning and no space allowed.</li> </ul> </div>
<b>Value</b>	Specify the value of the environment variable. The value can either be hardcoded or Velocity mapping.

6. Click **Save** to save the details.  
The **Confirmation** screen displays.

**Figure 2-31 Confirmation - Add Service Consumers**



7. Click **Confirm** to save the record.
- Import Service Consumer**
8. Click **Import**.  
The **Import Service Consumer** screen displays.

**Figure 2-32 Import Service Consumer**


- Specify the fields on **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**

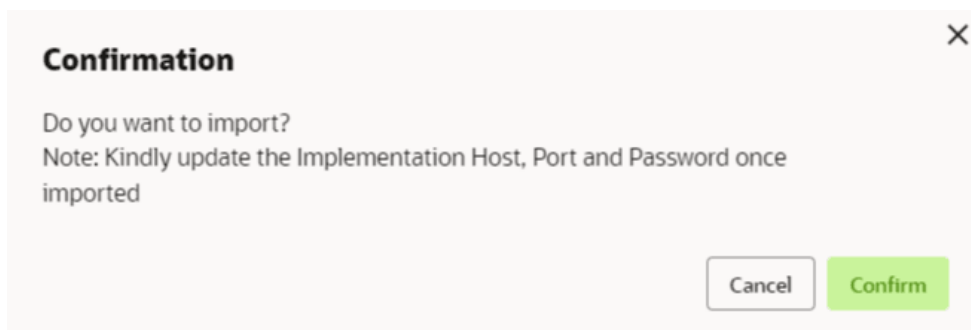
Field	Description
<b>File</b>	Select the file using <b>Select</b> .   <b>Note:</b> Allows only to select one file and accepts only JSON file.
<b>Extract</b>	Extracts the consumer name and service provider list from JSON file and displays it in the respective elements.

**Table 2-28 (Cont.) Import Service Consumer - Field Description**


Field	Description
<b>Name</b>	Specify the name of the service provider.  <div style="border: 1px solid #0070C0; padding: 5px; background-color: #E6F2FF;"> <p> <b>Note:</b></p> <ul style="list-style-type: none"> <li>• Enter 0 to maximum of 255 characters.</li> <li>• No numeric value at beginning and no space allowed.</li> </ul> </div>
<b>Name</b>	Displays the list of service providers names that are present in JSON file.

10. Click **Import** to import the selected file.  
The **Confirmation** screen displays.

**Figure 2-33 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 3 dots button (operation menu) and click **View**.  
The **View Service Consumer** screen displays.

**Figure 2-34 View Service Consumer**

View Service Consumer

Name: OBLM\_Mashreq

Audit Type: Select

Environment Variables: ▼

Group: Select

Actions	Name	Value
No data to display.		

The user can click edit button to edit the **Service Consumer**.

**Edit Service Consumer**

13. Click 3 dots button (operation menu) and click **Edit**.

The **Edit Service Consumer** screen displays.

**Figure 2-35 Edit Service Consumer**

Edit Service Consumer

Name: OBLM\_Mashreq

Audit Type: Select (Required)

Environment Variables: ▼ Add

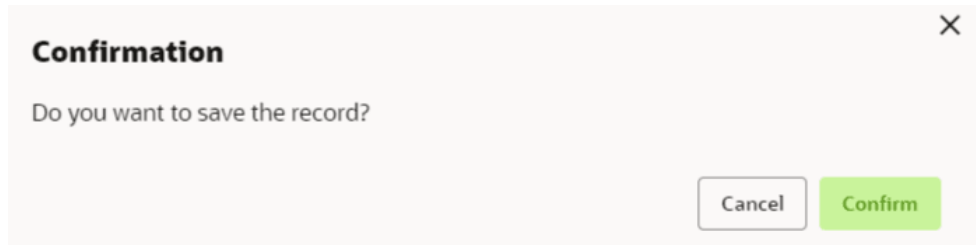
Group: Select (Required)

Actions	Name	Value
No data to display.		

Save

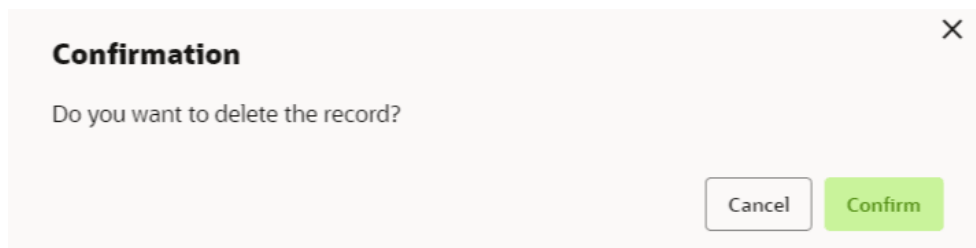
14. Click **Save** once the edit is done.  
The **Confirmation** screen displays.

**Figure 2-36 Confirmation - Edit Service Consumer**



15. Click **Confirm** to save the record.
- Delete Service Consumer**
16. Click 3 dots button (operation menu) and click **Delete**.  
The **Confirmation** screen displays.

**Figure 2-37 Confirmation - Delete Service Consumer**



17. Click **Confirm** to delete the record.
- Export Service Consumer in JSON**
18. Click 3 dots button (operation menu) and click **Export**. Select **JSON**.  
The **Export Service Consumer** screen displays.

**Figure 2-38 Export Service Consumer - JSON**

Export Service Consumer ✕

Name  
OBLM\_Mashreq

▼ Service Providers

<input type="checkbox"/>	Name
<input type="checkbox"/>	FCUBS-IFService 14.5
<input type="checkbox"/>	FCUBS-CoreService 14.5
<input type="checkbox"/>	OBLM_Mashreq-Service 14.4

Export

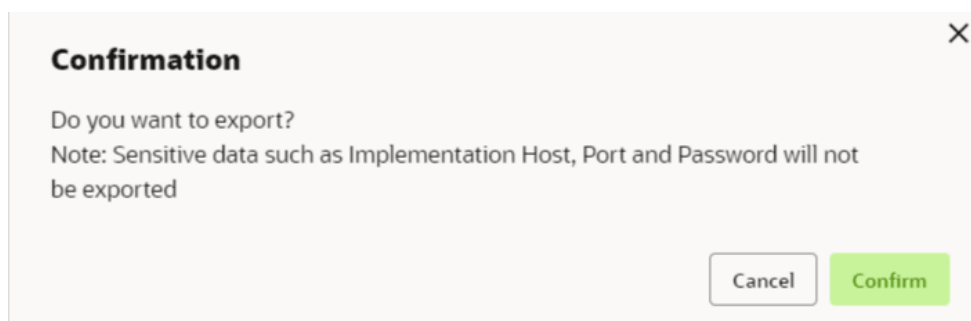
**Note:**

- 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 appears.



**Figure 2-39 Confirmation - Export Service Consumer in JSON**



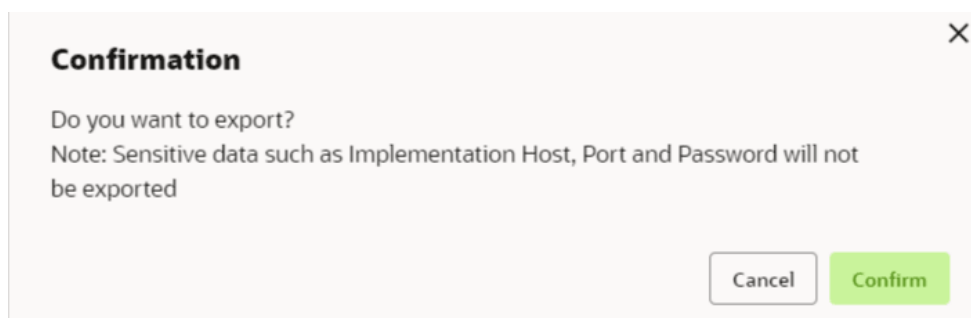
20. Click **Confirm** to export in JSON.

#### **Export Service Consumer in SQL**

21. Click **Export** and select **SQL**.

The **Confirmation** screen appears.

**Figure 2-40 Confirmation**



#### **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.

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **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 displays.

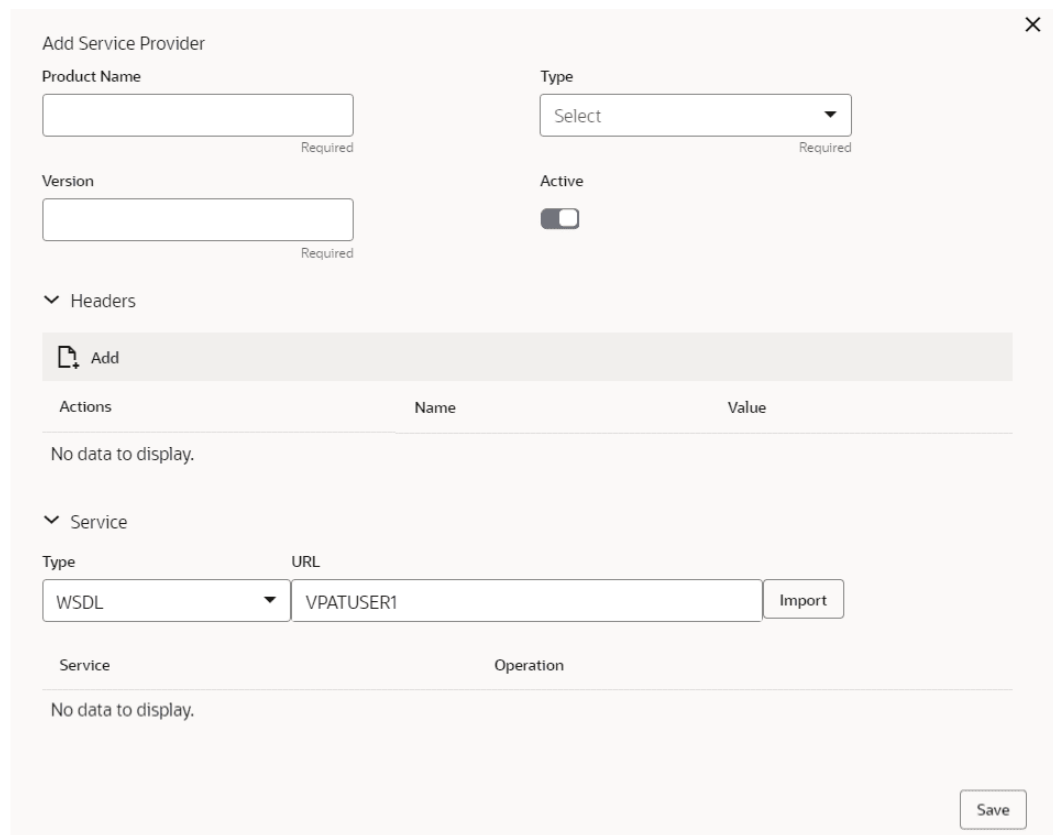
**Figure 2-41 Service Providers**



**To Add Service Provider**

4. Click **Add**.  
The **Add Service Provider** screen displays.

**Figure 2-42 Add Service Provider**





5. Specify the fields on **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
<b>Product Name</b>	Specify the product name of the service provider.   <b>Note:</b> <ul style="list-style-type: none"> <li>• Enter 0 to maximum of 255 characters.</li> <li>• No numeric value at beginning and no space allowed.</li> </ul>
<b>Type</b>	Select the type of service provider from drop-down list The available options are: <ul style="list-style-type: none"> <li>• <b>INTERNAL</b></li> <li>• <b>EXTERNAL</b></li> </ul>
<b>Version</b>	Specify the provider version.   <b>Note:</b> <ul style="list-style-type: none"> <li>• Enter 0 to maximum of 255 characters.</li> <li>• Only numeric or decimal values are allowed.</li> </ul>
<b>Active</b>	Predefined values are Active / Inactive If provider is marked as inactive, then all related routes will be stopped.
<b>Add</b>	To add, refer to step 4.
<b>Actions</b>	Displays the action. The user can edit or delete the header.
<b>Name</b>	Displays the name of the header.
<b>Value</b>	Displays the value of the header.
<b>Type</b>	Select the type of service from drop-down list. The available options are: <ul style="list-style-type: none"> <li>• <b>WSDL</b></li> <li>• <b>SWAGGER</b></li> </ul>
<b>URL</b>	Specify the service URL of the file location.
<b>Import</b>	Click <b>Import</b> to extract the service information from URL.
<b>Service</b>	Displays the extracted service from the selected URL.
<b>Operation</b>	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 displays.

**Figure 2-43 Add Header**

b. Specify the fields on **Add Header** screen and click **OK**.

 **Note:**

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

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

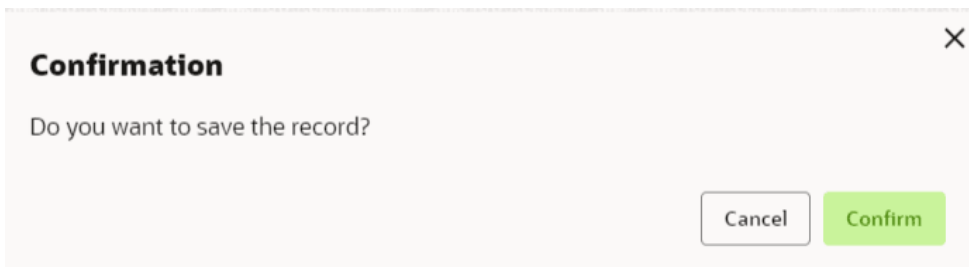
**Table 2-30 Add Header - Field Description**

Field	Description
<b>Name</b>	Specify the name of the header.
<b>Value</b>	Specify the value of the header.

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

The **Confirmation** screen displays.

**Figure 2-44 Confirmation**



8. Click **Confirm** to save the record.


**Import Service Provider**

9. Click **Import**.

The **Import Service Provider** screen displays.


**Figure 2-45 Import Service Provider**



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

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

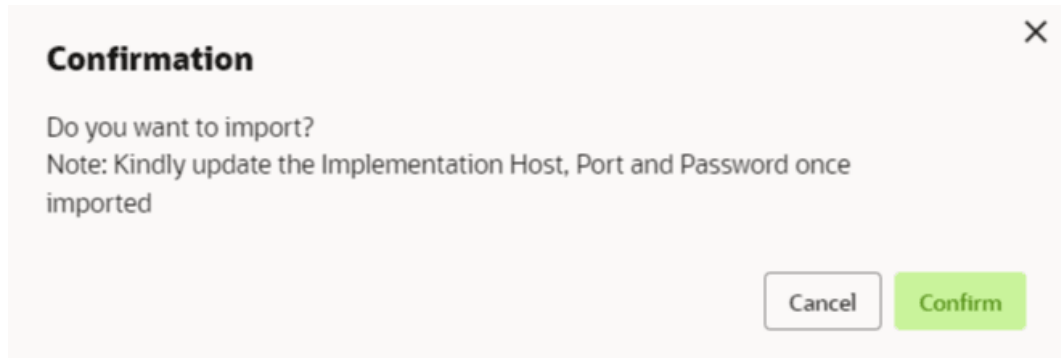
**Table 2-31 Import Service Provider - Field Description**

Field	Description
<b>File</b>	<p>Select the file using <b>Select</b> button.</p> <p> <b>Note:</b> Allows only to select one file and accepts only JSON file.</p>

10. Click **Import** to import the selected file.

The **Confirmation** screen displays.

**Figure 2-46 Confirmation - Import**



 **Note:**

Below data needs to be changed after importing provider configuration file:

- Implementation Host and Port
- Implementation Authentication Password

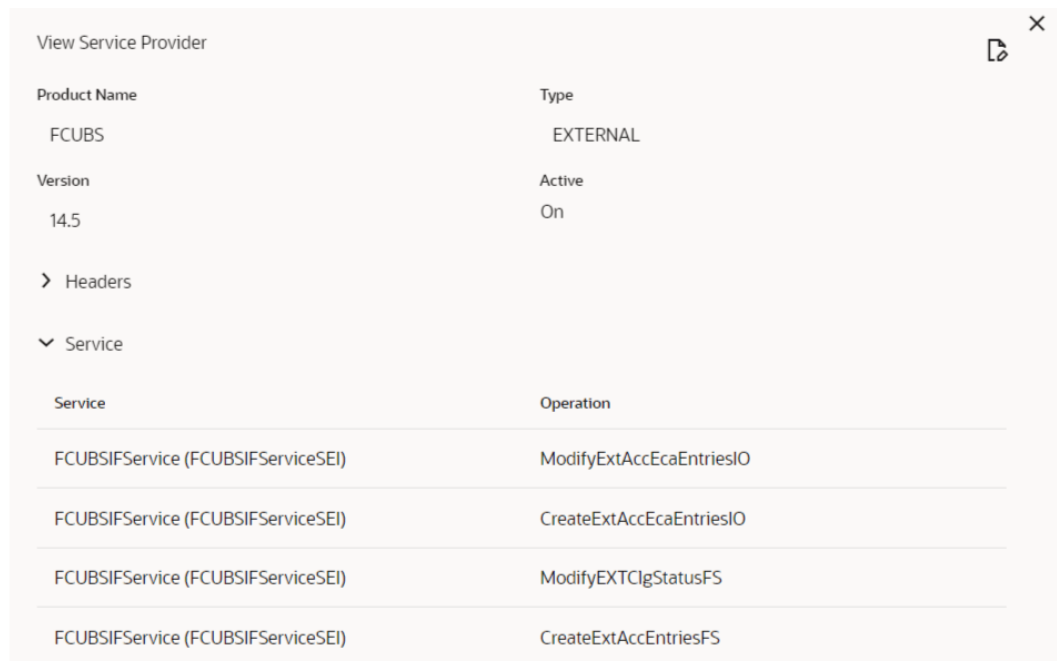
11. Click **Confirm** to import the record.

**View Service Provider**

12. Click 3 dots button (operation menu) and click **View**.

The **View Service Provider** screen displays.

**Figure 2-47 View Service Provider**



The user can click edit button to edit the **Service Provider**.

### Edit Service Provider

13. Click 3 dots button (operation menu) and click **Edit**.

The **Edit Service Provider** screen displays.

**Figure 2-48 Edit Service Provider**

Edit Service Provider

Product Name: FCUBS

Version: 14.5

Type: EXTERNAL

Active:

Headers

Add

Actions	Name	Value
No data to display.		

Service

Type: WSDL

URL:  Required

Service	Operation
FCUBSIFService (FCUBSIFServiceSEI)	ModifyExtAccEcaEntriesIO
FCUBSIFService (FCUBSIFServiceSEI)	CreateExtAccEcaEntriesIO
FCUBSIFService (FCUBSIFServiceSEI)	ModifyEXTClgStatusFS
FCUBSIFService (FCUBSIFServiceSEI)	CreateExtAccEntriesFS

14. Click **Save** once the edit is done.

The **Confirmation** screen displays.

**Figure 2-49 Confirmation - Edit Service Provider**

**Confirmation**

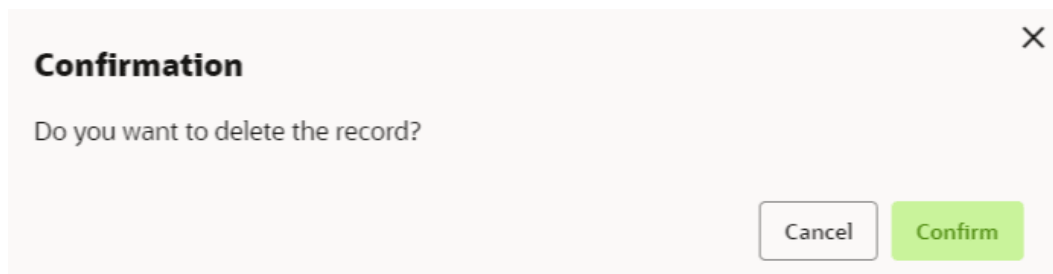
Do you want to save the record?

15. Click **Confirm** to save the record.

#### Delete Service Provider

16. Click 3 dots button (operation menu) and click **Delete**.  
The **Confirmation** screen displays.

Figure 2-50 Confirmation - Delete Service Provider

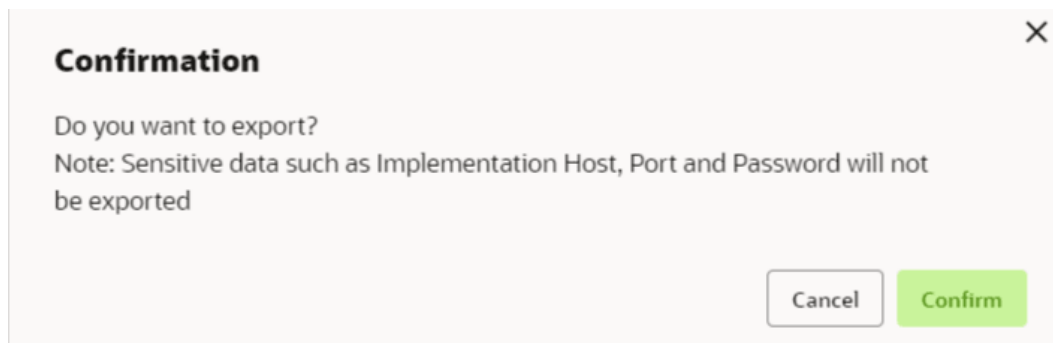


17. Click **Confirm** to delete the record.

#### Export Service Provider

18. Click 3 dots button (operation menu) and click **Export**.  
The **Confirmation** screen displays.

Figure 2-51 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.

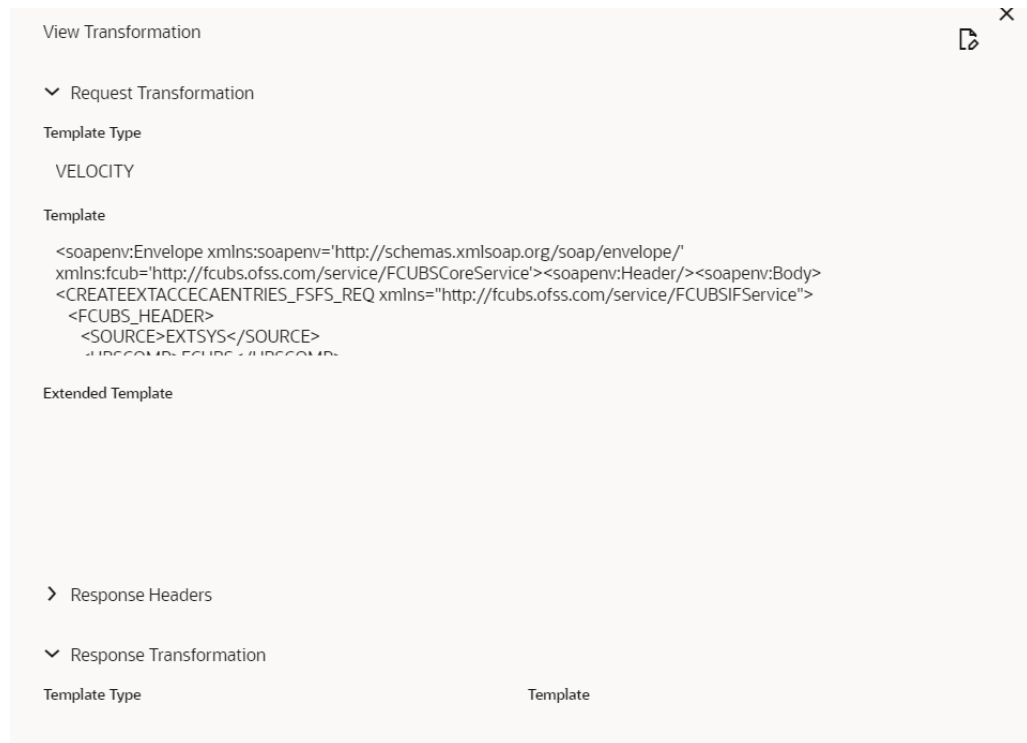


### 2.7.1.3 Experian Configuration

This topic provides the figures for the Experian configuration.

#### Experian Fetch Credit Report

**Figure 2-52** Experian Fetch Credit Report



View Transformation ✕

Request Transformation

Template Type

VELOCITY

Template

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:fcub="http://fcubs.ofss.com/service/FCUBSCoreService"><soapenv:Header/><soapenv:Body>
<CREATEEXTACCEAENTRIES_FSFS_REQ xmlns="http://fcubs.ofss.com/service/FCUBSIFService">
<FCUBS_HEADER>
<SOURCE>EXTSYS</SOURCE>
</FCUBS_HEADER>
</CREATEEXTACCEAENTRIES_FSFS_REQ>
</soapenv:Body>
</soapenv:Envelope>
```

Extended Template

Response Headers

Response Transformation

Template Type Template

**Figure 2-53 Experian Fetch Credit Report**

The screenshot shows the configuration for a transformation named 'FCUBS-CREATEEXTACCECAENTRIES'. It is currently active. The configuration is organized into several sections:

- Product Processor:** FCUBS-IFService 14.4, Implementation: FCUBS-IFService\_Default, Service: FCUBSIFService (FCUBSIFServiceSE)
- Service:** FCUBSIFService (FCUBSIFServiceSE), Operation: CreateExtAccEcaEntriesFS
- Headers:** A table with columns 'Actions', 'Name', and 'Value'. It currently displays 'No data to display.'
- Request Transformation:**
  - Template Type: VELOCITY
  - Template:

```
<soapenv:Envelope xmlns:soapenv='http://schemas.xmlsoap.org/soap/envelope/'
xmlns:fcub='http://fcubs.ofss.com/service/FCUBSCoreService'><soapenv:Header/><soapenv:Body>
<CREATEEXTACCECAENTRIES_FSFS_REQ xmlns='http://fcubs.ofss.com/service/FCUBSIFService'>
<FCUBS_HEADER>
<SOURCE>EXTSYS</SOURCE>
</FCUBS_HEADER>
</CREATEEXTACCECAENTRIES_FSFS_REQ>
</soapenv:Body>
</soapenv:Envelope>
```
  - Extended Template: (empty)

### Experian Sandbox

The **Service Consumer** is used to export details of fetch credit report from sandbox environment.

**Figure 2-54 Experian Sandbox**

The screenshot shows a table titled 'Service Consumers' with the following data:

Actions	Name	Description
⋮	ACCOUNTHANDOFF	DDA account handoff
⋮	VAM-BalanceQuery	OBVAM Balance Fetch
⋮	PMRTOutService	Request for transfer - MT101
⋮		Core Banking system - MT102

At the bottom of the table, there is a pagination control showing 'Page 1 of 1 (1 - 5 of 5 items)'.

### 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.



**Figure 2-57 Equifax Sandbox**

## 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])

# 3

## Decision Service

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.

- [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.

## 3.1 Overview

This topic describes the overview about the Decision service.

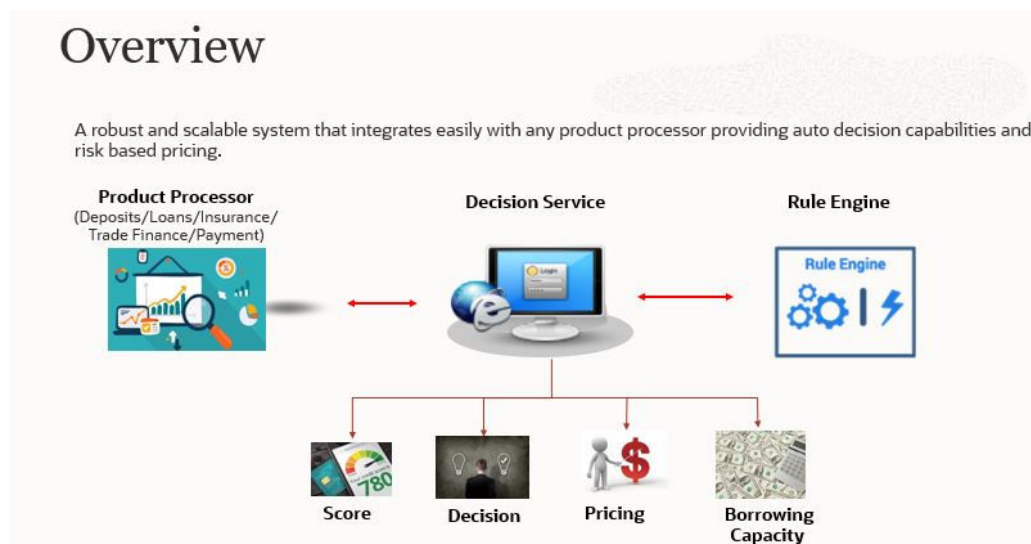
The Decision service provides automatic decision making capabilities that can allow lenders to develop simple business processes and strengthen the decision-making process.

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.

**Figure 3-1 Decision Service Overview**



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 internally uses the rule engine to configure various complex rules.

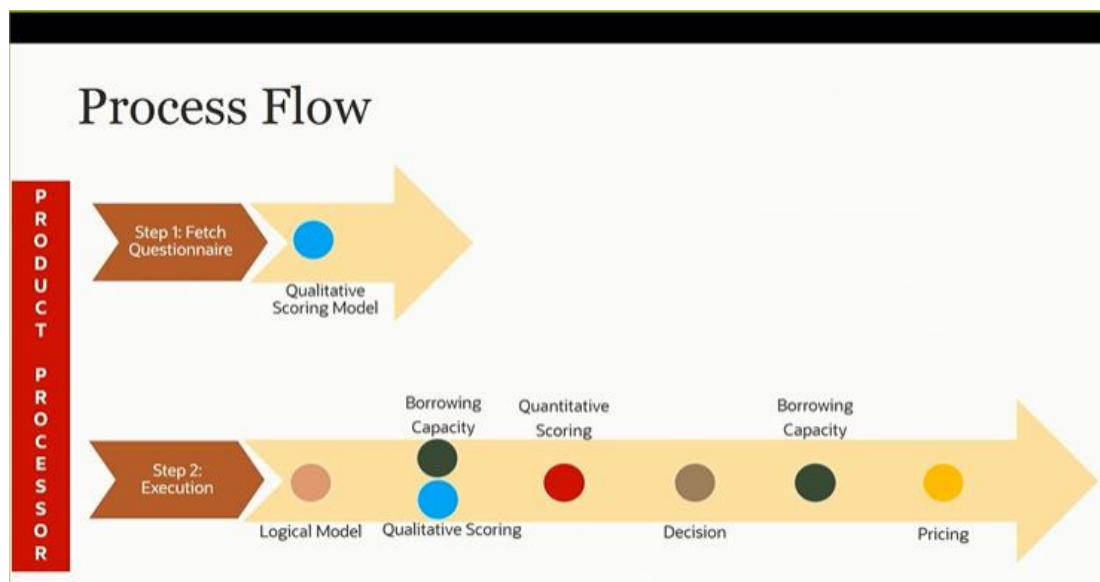
The decision service can calculate behavioral scores and suggest the best recommended collection strategy accordingly. For lending products, it can offer a credit

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**



### 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 than 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.

## **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 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.

### 3.4.1 Create System Parameter

This topic describes the systematic instructions to create system parameter by updating the various details.

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **Homescreen**, click **Core Maintenance**, under **Core Maintenance**, click **Credit Decision**.
2. Under **Credit Decision**, click **Maintenance**, under **Maintenance**, click **System Parameter**, under **System Parameter**, click **Create System Parameter**.

The **Create System Parameter** screen displays.

**Figure 3-3 Create System Parameter**

3. On **Create System Parameter** screen, specify the fields.

 **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
<b>Parameter Code</b>	Select the parameter code from the drop-down list.
<b>Parameter Description</b>	Specify the short description for the parameter code.
<b>Product Processor</b>	Select the product processor from the drop-down list for which the parameter is being created.
<b>Value</b>	Specify the value for the parameter code.

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

The **System Parameter** is successfully created and can be viewed using the [View System Parameter](#) screen.

## 3.4.2 View System Parameter

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

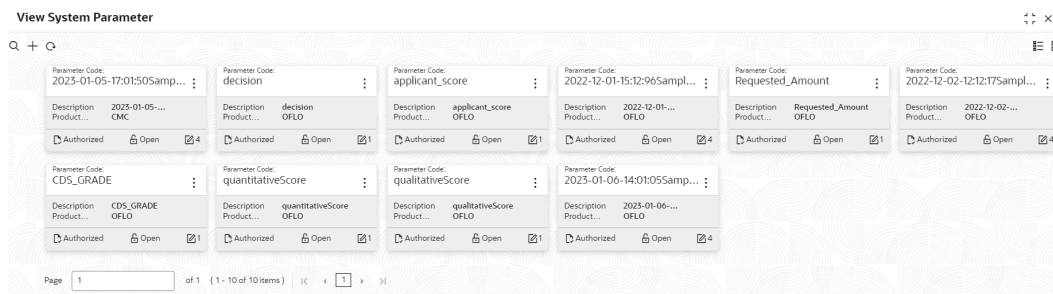
The user can configure the system parameter using the [Create System Parameter](#) screen. The status of the created system parameter is displayed as **Unauthorized** and **Open**. Once the checker authorizes the system parameter, the status is updated to **Authorized** and **Open**.

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **Homescreen**, click **Core Maintenance**, under **Core Maintenance**, click **Credit Decision**.
2. Under **Credit Decision**, click **Maintenance**, under **Maintenance**, click **System Parameter**, under **System Parameter**, click **View System Parameter**.

The **View System Parameter** screen displays.

**Figure 3-4 View System Parameter**



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

**Table 3-2 View System Parameter - Field Description**

Field	Description
<b>Parameter Code</b>	Displays the parameter code.
<b>Description</b>	Displays the description of the parameter code.
<b>Product Processor</b>	Displays the product processor of the parameter.
<b>Authorization Status</b>	Displays the authorization status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Displays the status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>
<b>Modification Number</b>	Displays the number of modification performed on the record.

- On **View System Parameter** screen, click  icon.  
The **View System Parameter - Search** screen displays.

Figure 3-5 View System Parameter - Search


4. On **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
<b>Parameter Code</b>	Specify the parameter code.
<b>Authorization Status</b>	Select the authorization status from the drop-down list. The available options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Select the record status from the drop-down list. The available options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>

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 displays.

**Figure 3-6 System Parameter Maintenance - Modify**

The screenshot shows the 'System Parameter Maintenance - Modify' interface. It features a 'Basic Details' section with the following fields:

- Parameter Code:** qualitativeScore (dropdown menu)
- Parameter Description:** 2023-01-05-17:01:50SampleTest (text input)
- Product Processor:** PR20230105140150 (dropdown menu)
- Value:** 30 (text input)

At the bottom of the form, there are three buttons: 'Audit', 'Cancel', and 'Save'.

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

**Table 3-4 System Parameter Maintenance - Modify - Field Description**

Field	Description
<b>Parameter Code</b>	Displays the created parameter code.
<b>Parameter Description</b>	Displays the created parameter description.
<b>Product Processor</b>	Specify the product processor of the created parameter.
<b>Value</b>	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 3-7 System Parameter Maintenance - View**

The screenshot shows the 'System Parameter Maintenance - View' interface. It displays the following details for a system parameter:

- Parameter Code:** 2023-01-05-17:01:50SampleTest
- Parameter Description:** 2023-01-05-17:01:50SampleTest
- Product Processor:** PR20230105140150
- Value:** 30

An 'Audit' button is visible at the bottom left of the screen.

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

**Table 3-5 System Parameter Maintenance - View - Field Description**

Field	Description
<b>Parameter Code</b>	Displays the created parameter code.
<b>Parameter Description</b>	Displays the created parameter description.
<b>Product Processor</b>	Displays the product processor of the created parameter.
<b>Value</b>	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-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.

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **Homescreen**, click **Core Maintenance**, under **Core Maintenance**, click **Credit Decision**.
2. Under **Credit Decision**, click **Maintenance**, under **Maintenance**, click **Lookup**, under **Lookup**, click **Create Lookup**.

The **Create Lookup** screen displays.

Figure 3-8 Create Lookup

3. On **Create Lookup** screen, specify the fields.

 **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
<b>Lookup Type</b>	Specify the unique lookup type name.
<b>Description</b>	Specify the short description for lookup.
<b>+ button</b>	Click to add a new row.
<b>- button</b>	Click to delete a row that is already added.
<b>Lookup Code</b>	Specify the unique lookup code.
<b>Description</b>	Specify the short description for lookup.
<b>Sort Order</b>	Specify the sort order.
<b>Dependent Identifier</b>	Specify the dependent Identifier.
<b>Enable</b>	By default this option is enabled. Indicates if the lookup is enabled or not.

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

The **Lookup** is successfully created and can be viewed using the [View Lookup](#) 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**.

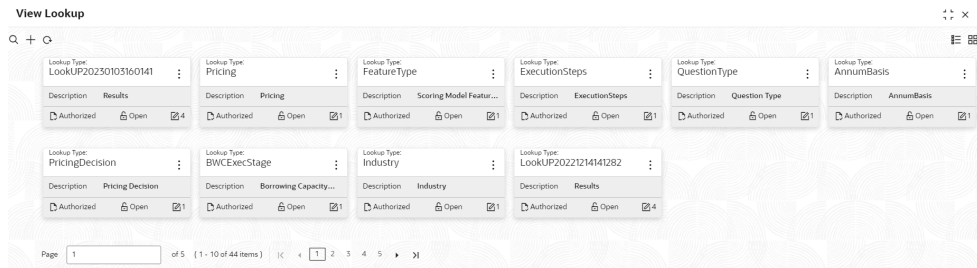
Specify **User ID** and **Password**, and login to **Home** screen.



1. On **Homescreen**, click **Core Maintenance**, under **Core Maintenance**, click **Credit Decision**.
2. Under **Credit Decision**, click **Maintenance**, under **Maintenance**, click **Lookup**, under **Lookup**, click **View Lookup**.

The **View Lookup** screen displays.

**Figure 3-9 View Lookup**




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

**Table 3-7 View Lookup - Field Description**

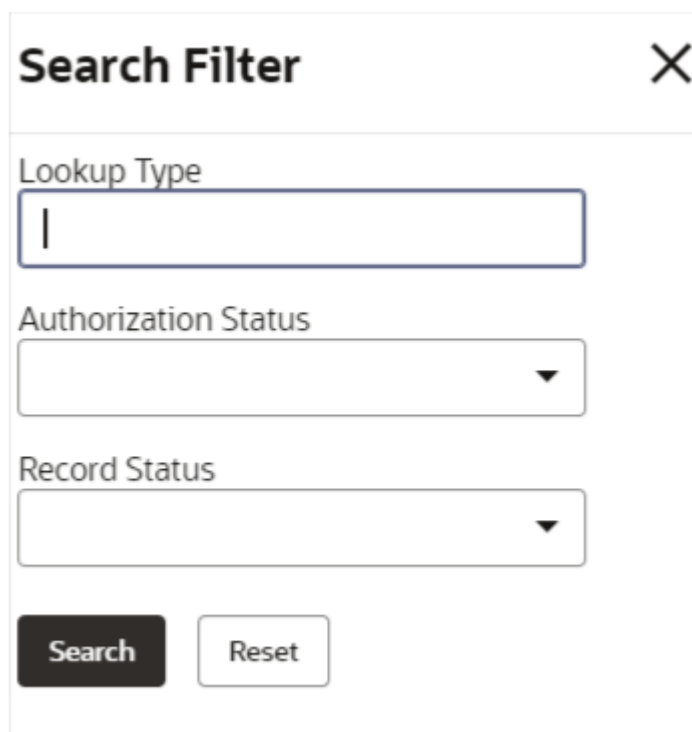
Field	Description
<b>Lookup Type</b>	Displays the lookup type.
<b>Description</b>	Displays the description of the lookup type.
<b>Authorization Status</b>	Displays the authorization status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Displays the status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>
<b>Modification Number</b>	Displays the number of modification performed on the record.



3. On **View Lookup** screen, click  icon.

The **View Lookup - Search** screen displays.

Figure 3-10 View Lookup - Search



- 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
<b>Lookup Type</b>	Specify the lookup type name.
<b>Authorization Status</b>	Select the authorization status of the lookup. The options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Select the record status of the lookup. The options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>

- Click **Search** to display the required lookup.



- On **View Lookup** screen, click  icon to **Unlock, Delete, Authorize** or **View** the created lookup.

- Click **Unlock** to modify the created lookup.

The **Lookup Maintenance - Modify** screen displays.

**Figure 3-11 Lookup Maintenance - Modify**

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

**Table 3-9 Lookup Maintenance - Modify - Field Description**

Field	Description
<b>Lookup Type</b>	Displays the created lookup type.
<b>Description</b>	Specify the description of the lookup type.
<b>Lookup Code</b>	Displays the lookup code for the created lookup.
<b>Description</b>	Displays the description for the created lookup.
<b>Sort Order</b>	Displays the sort order for the created lookup.
<b>Dependent Identifier</b>	Displays the dependent identifier for the created lookup.
<b>Enable</b>	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 3-12 Lookup Maintenance - View**

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

**Table 3-10 Lookup Maintenance - View - Field Description**

Field	Description
<b>Lookup Type</b>	Displays the created lookup type.
<b>Description</b>	Displays the created lookup type description.
<b>Lookup Code</b>	Displays the lookup code for the created lookup.
<b>Description</b>	Displays the description for the created lookup.
<b>Sort Order</b>	Displays the sort order for the created lookup.
<b>Dependent Identifier</b>	Displays the dependent identifier for the created lookup.
<b>Enable</b>	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.

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **Homescreen**, click **Core Maintenance**, under **Core Maintenance**, click **Credit Bureau**.
2. Under **Credit Bureau**, click **Maintenance**, under **Maintenance**, click **Product Processor**, under **Product Processor**, click **Create Product Processor**.

The **Create Product Processor** screen displays.

**Figure 3-13 Create Product Processor**

3. On **Create Product Processor** screen, specify the fields.

 **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
<b>Product Processor Code</b>	Specify the unique product processor code.
<b>Product Processor Description</b>	Specify the short description for product processor.
<b>Effective Date</b>	Specify the effective date.
<b>Expiry Date</b>	Specify the expiry date.

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

The **Product Processor** is successfully created and can be viewed using the [View Product Processor](#) 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**.

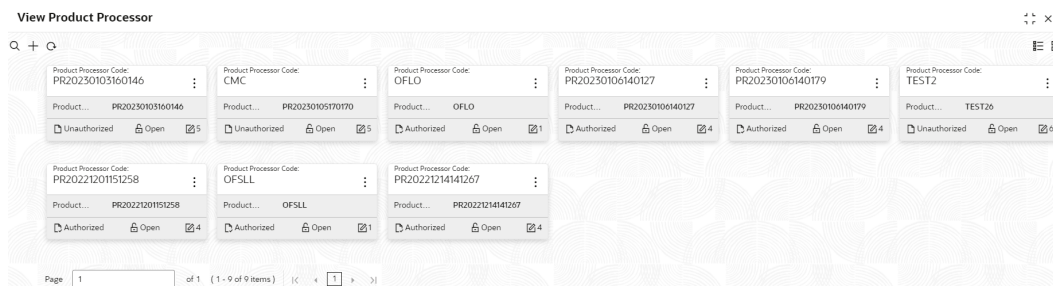
Specify **User ID** and **Password**, and login to **Home** screen.

1. On **Homescreen**, click **Core Maintenance**, under **Core Maintenance**, click **Credit Bureau**.

- Under **Credit Bureau**, click **Maintenance**, under **Maintenance**, click **Product Processor**, under **Product Processor**, click **View Product Processor**.

The **View Product Processor** screen displays.

**Figure 3-14 View Product Processor**



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

**Table 3-12 View Product Processor - Field Description**

Field	Description
<b>Product Processor Code</b>	Displays the product processor code.
<b>Product Processor Description</b>	Displays the description of the product processor.
<b>Authorization Status</b>	Displays the authorization status of the record. The options are: <ul style="list-style-type: none"> <li>Authorized</li> <li>Rejected</li> <li>Unauthorized</li> </ul>
<b>Record Status</b>	Displays the status of the record. The options are: <ul style="list-style-type: none"> <li>Open</li> <li>Closed</li> </ul>
<b>Modification Number</b>	Displays the number of modification performed on the record.

- On **View Product Processor** screen, click  icon.

The **View Product Processor - Search** screen displays.

Figure 3-15 View Product Processor - Search


4. On **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.

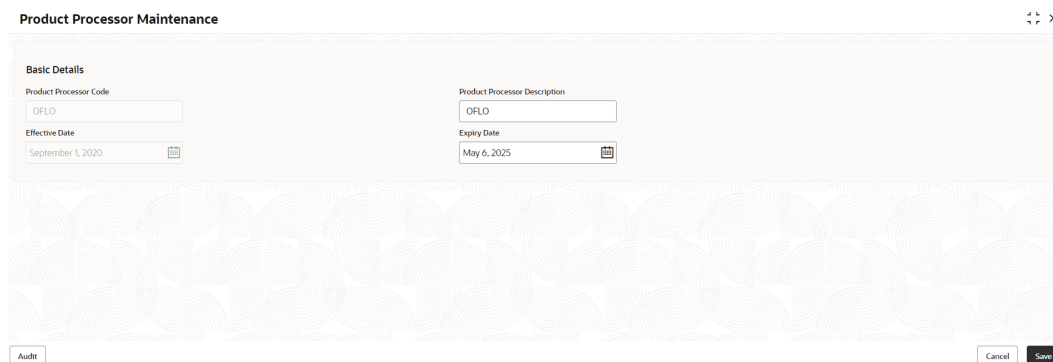
Table 3-13 View Product Processor - Search - Field Description

Field	Description
<b>Product Processor Code</b>	Specify the product processor code.
<b>Product Processor Description</b>	Specify the product processor description.
<b>Authorization Status</b>	Select the authorization status of the product processor. The available options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Select the record status of the product processor. The available options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>

5. Click **Search** to display the required product processor.

6. On **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 displays.

**Figure 3-16 Product Processor Maintenance - Modify**



The screenshot shows the 'Product Processor Maintenance' screen in 'Modify' mode. The form is titled 'Basic Details' and contains four input fields: 'Product Processor Code' with the value 'OFL0', 'Product Processor Description' with the value 'OFL0', 'Effective Date' with the value 'September 1, 2020', and 'Expiry Date' with the value 'May 6, 2025'. At the bottom of the form, there are three buttons: 'Audit', 'Cancel', and 'Save'.

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

**Table 3-14 Product Processor Maintenance - Modify - Field Description**

Field	Description
<b>Product Processor Code</b>	Displays the product processor code.
<b>Product Processor Description</b>	Displays the product processor description. User can modify the same.
<b>Effective Date</b>	Displays the effective date of the created product processor. User can modify the same before authorization if it is future dated.
<b>Expiry Date</b>	Displays the expiry date of the created product processor. User can modify the same.

8. Click **Save** to update the modified fields.
9. Click **View** to view the created product processor.  
The **Product Processor Maintenance - View** screen displays.



**Figure 3-17 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
<b>Product Processor Code</b>	Displays the product processor code.
<b>Product Processor Description</b>	Displays the product processor description.
<b>Effective Date</b>	Displays the effective date of the created product processor.
<b>Expiry Date</b>	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

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.

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **Homescreen**, click **Core Maintenance**, under **Core Maintenance**, click **Credit Decision**.
2. Under **Credit Decision**, click **Maintenance**, under **Maintenance**, click **Borrowing Capacity**, under **Borrowing Capacity**, click **Create Borrowing Capacity**.

The **Create Borrowing Capacity** screen displays.

**Figure 3-18 Create Borrowing Capacity**

3. On **Create Borrowing Capacity** screen, specify the fields.

#### **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
<b>Borrowing Capacity Code</b>	Specify the unique borrowing capacity code.
<b>Borrowing Capacity Description</b>	Specify a short description for the borrowing capacity.
<b>Effective Date</b>	Specify the effective date.
<b>Expiry Date</b>	Specify the expiry date.
<b>Product Processor</b>	Specify the product processor for which the borrowing capacity is being defined.
<b>Execution Stage</b>	Select the required option for execution stage from the drop-down list. The available options are: <ul style="list-style-type: none"><li>• <b>Before Decision:</b> 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.</li><li>• <b>After Decision:</b> 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.</li></ul>


4. On **Create Borrowing Capacity** screen, click **Selection Criteria** tab to define selection criteria rules.

The **Create Borrowing Capacity - Selection Criteria** screen displays.

**Figure 3-19 Create Borrowing Capacity - Selection Criteria**

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

**Table 3-17 Create Borrowing Capacity - Selection Criteria - Field Description**

Field	Description
<b>Use Existing Rule</b>	By default, this option is enabled. Indicates if the existing rule is linked.
<b>Rule Code</b>	Select the rule code from the drop down list.
	Click this icon to get the information about the rule.
<b>Rule Name</b>	Displays the rule name for the selected rule code.
<b>New</b>	Select this option to create new rule.
<b>Code</b>	Specify the rule code.
<b>Description</b>	Specify the rule description.
<b>+ icon</b>	Click this icon to add new expression.

**Table 3-17 (Cont.) Create Borrowing Capacity - Selection Criteria - Field Description**

Field	Description
<b>Fact / Rules</b>	<p>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.</p>
<b>Operator</b>	<p>Select the comparison operator from the drop-down list. The available options are:</p> <ul style="list-style-type: none"> <li>• &lt;</li> <li>• &gt;</li> <li>• +</li> <li>• =</li> <li>• %</li> <li>• !=</li> <li>• -</li> <li>• &gt;=</li> <li>• &lt;=</li> <li>• *</li> <li>• /</li> <li>• <b>Contains</b></li> <li>• <b>In</b></li> <li>• <b>Matches</b></li> <li>• <b>NotMatches</b></li> <li>• <b>NotContains</b></li> <li>• <b>Notin</b></li> </ul>
<b>Data Type</b>	<p>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:</p> <ul style="list-style-type: none"> <li>• <b>Text</b></li> <li>• <b>Number</b></li> <li>• <b>Boolean</b></li> <li>• <b>Date</b></li> <li>• <b>Fact</b></li> <li>• <b>Rules</b></li> </ul> <p>The below option appears if the <b>Data Type</b> is selected as <b>Boolean</b>.</p> <ul style="list-style-type: none"> <li>• <b>True</b></li> <li>• <b>False</b></li> </ul>
<b>Output</b>	<p>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:</p> <ul style="list-style-type: none"> <li>• <b>Text</b></li> <li>• <b>Number</b></li> <li>• <b>Boolean</b></li> <li>• <b>Date</b></li> <li>• <b>Fact</b></li> <li>• <b>Rules</b></li> </ul> <p>The below option appears if the <b>Data Type</b> is selected as <b>Boolean</b>.</p> <ul style="list-style-type: none"> <li>• <b>True</b></li> <li>• <b>False</b></li> </ul>

**Table 3-17 (Cont.) Create Borrowing Capacity - Selection Criteria - Field Description**


Field	Description
Expression	Displays the expression updated in the expression builder.

5. On **Create Borrowing Capacity** screen, click the **Eligibility** to define eligibility. The **Create Borrowing Capacity - Eligibility** screen displays.

**Figure 3-20 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
<b>+ icon</b>	Click this icon to add a new row.
<b>- icon</b>	Click this icon to delete a row, which is already added.
<b>Actions</b>	Select this check box corresponding to the row to be deleted.
<b>Fact ID</b>	Select the fact ID from the drop-down list.
<b>Rule ID</b>	Select the rule ID from the drop-down list.
	Click this icon to get the information about the rule.

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

The **Borrowing Capacity** is successfully created and can be viewed using the [View Borrowing Capacity](#) screen.

## 3.7.2 View Borrowing Capacity

This topic describes the systematic instructions to view the borrowing capacity.

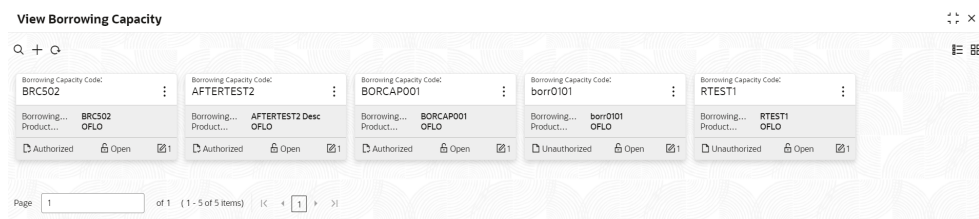
The user can configure the borrowing capacity using the [Create Borrowing Capacity](#) screen. The status of the created capacity is displayed as **Unauthorized** and **Open**. Once the checker authorizes the capacity, the status is updated to **Authorized** and **Open**.

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **Homescreen**, click **Core Maintenance**, under **Core Maintenance**, click **Credit Decision**.
2. Under **Credit Decision**, click **Maintenance**, under **Maintenance**, click **Borrowing Capacity**, under **Borrowing Capacity**, click **View Borrowing Capacity**.

The **View Borrowing Capacity** screen displays.

**Figure 3-21 View Borrowing Capacity**



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

**Table 3-19 View Borrowing Capacity – Field Description**

Field	Description
<b>Borrowing Capacity Code</b>	Displays the borrowing capacity code.
<b>Borrowing Capacity Description</b>	Displays the borrowing capacity description.
<b>Product Processor</b>	Displays the product processor.
<b>Authorization Status</b>	Displays the authorization status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Displays the status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>
<b>Modification Number</b>	Displays the number of modification performed on the record.

3. On **View Borrowing Capacity** screen, click



icon.

The **View Borrowing Capacity - Search** screen displays.

**Figure 3-22 View Borrowing Capacity - Search**

**Search Filter** ✕

Borrowing Capacity Code

Borrowing Capacity Description

Authorization Status

Record Status

**Search**

4. On **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.

**Table 3-20 View Borrowing Capacity - Search – Field Description**

Field	Description
<b>Borrowing Capacity Code</b>	Specify the borrowing capacity code.
<b>Borrowing Capacity Description</b>	Specify the borrowing capacity description.



**Table 3-20 (Cont.) View Borrowing Capacity - Search – Field Description**

Field	Description
<b>Authorization Status</b>	Select the authorization status from the drop-down list. The available options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Select the record status from the drop-down list. The available options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>
<b>Modification Number</b>	Displays the number of modification performed on the record.


5. Click **Search** to display to required borrowing capacity.
6. On **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 displays.

**Figure 3-23 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
<b>Borrowing Capacity Code</b>	Displays the model code for the created borrowing capacity.
<b>Borrowing Capacity Description</b>	The user can modify the model description for the created borrowing capacity.
<b>Effective Date</b>	The user can modify effective date for the borrowing capacity.
<b>Expiry Date</b>	The user can modify date of the created borrowing capacity.
<b>Product Processor</b>	Displays the product processor for the borrowing capacity.
<b>Execution Stage</b>	Displays execution stage for the borrowing capacity.

Table 3-21 (Cont.) Borrowing Capacity Maintenance - Modify - Field Description

Field	Description
<b>Use Existing Rule</b>	Indicates if the existing rule is linked.
<b>Rule Code</b>	The user can modify the rule code for the created borrowing capacity.
	Click this icon to get the information about the rule.
<b>Rule Name</b>	Displays the rule name of the rule code for the created borrowing capacity.
<b>Create New Rule</b>	The user can modify the rule code for the created borrowing capacity.
<b>Code</b>	Specify the new rule code for borrowing capacity.
<b>Description</b>	Specify the rule description for the borrowing capacity.
<b>Fact / Rules</b>	Displays the fact or rule for the created borrowing capacity.
<b>Operator</b>	Displays the comparison operator for the created borrowing capacity.
<b>Data Type</b>	Displays the data type for the fact or rule for the created borrowing capacity.
<b>Output</b>	Displays the output for the created borrowing capacity.
<b>Expression</b>	Displays the expression updated in the expression builder for the created borrowing capacity.
<b>Fact ID</b>	The user can modify the fact ID of the created borrowing capacity.
<b>Rule ID</b>	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 update the modified fields.
9. Click **View** to view the borrowing capacity.

The **Borrowing Capacity Maintenance – View** screen displays.

Figure 3-24 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
<b>Borrowing Capacity Code</b>	Displays the model code for the created borrowing capacity.
<b>Borrowing Capacity Description</b>	Displays the model description for the created borrowing capacity.
<b>Effective Date</b>	Displays effective date for the borrowing capacity.
<b>Expiry Date</b>	Displays date of the created borrowing capacity.
<b>Product Processor</b>	Displays the product processor for the borrowing capacity.
<b>Execution Stage</b>	Displays execution stage for the borrowing capacity.
<b>Use Existing Rule</b>	Indicates if the existing rule is linked.
<b>Rule Code</b>	Displays the rule code for the created borrowing capacity.
	Click this icon to get the information about the rule.

Table 3-22 (Cont.) Borrowing Capacity Maintenance - View - Field Description

Field	Description
<b>Rule Name</b>	Displays the rule name of the rule code for the created borrowing capacity.
<b>Create New Rule</b>	Displays the rule code for the created borrowing capacity.
<b>Code</b>	Displays the rule code for borrowing capacity.
<b>Description</b>	Displays the rule description for the borrowing capacity.
<b>Fact / Rules</b>	Displays the fact or rule for the created borrowing capacity.
<b>Operator</b>	Displays the comparison operator for the created borrowing capacity.
<b>Data Type</b>	Displays the data type for the fact or rule for the created borrowing capacity.
<b>Output</b>	Displays the output for the created borrowing capacity.
<b>Expression</b>	Displays the expression updated in the expression builder for the created borrowing capacity.
<b>Fact ID</b>	Displays the fact ID of the created borrowing capacity.
<b>Rule ID</b>	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.

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **Homescreen**, click **Core Maintenance**, under **Core Maintenance**, click **Credit Decision**.
2. Under **Credit Decision**, click **Maintenance**, under **Maintenance**, click **Strategy Configuration**, under **Strategy Configuration**, click **Create Strategy Configuration**.

The **Create Strategy Configuration** screen displays.

**Figure 3-25 Create Strategy Configuration**

**Create Strategy Configuration**

**Basic Details**

Strategy Code  Required

Product Processor  Required

Industry  Required

Account Category  Asset  Liability Required

Effective Date  Required

Strategy Code Description

Product Processor Description

Line of Business  Required

Module  Required

Expiry Date  Required

**Additional Information**

Type	Value
<input type="checkbox"/> Select	<input type="text" value="Select"/>
<input type="checkbox"/> Select	<input type="text" value="Select"/>

**Modes**

Select the Modes to configure as per requirement

Borrowing Capacity  Decision & Grade  Pricing  Qualitative Score  Quantitative Score  Score  Score & Decision  Score, Decision & Pricing

**Steps**

Note: The mandatory steps are by default checked and disabled. The optional steps are enabled and unchecked. The user can decide which steps need to be configured for a mode.

3. On **Create Strategy Configuration** screen, specify the fields.

### 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
<b>Strategy Code</b>	Specify the unique strategy code.
<b>Strategy Code Description</b>	Specify the short description for the strategy code.
<b>Product Processor</b>	Specify the product processor for which the strategy is being configured.
<b>Product Processor Description</b>	Displays the product processor description.
<b>Industry</b>	Select the industry type from the drop-down list . The values are configurable based on the lookup values maintained. The available options are: <ul style="list-style-type: none"> <li>• <b>Banking Industry</b></li> <li>• <b>Insurance</b></li> <li>• <b>Trade Finance</b></li> </ul>
<b>Line Of Business</b>	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: <ul style="list-style-type: none"> <li>• <b>Corporate</b></li> <li>• <b>Retail</b></li> <li>• <b>SMEnt</b></li> </ul>
<b>Account Category</b>	Indicates whether the strategy created is for asset or Liabilities.
<b>Module</b>	Select the module from the drop-down list . The values are configurable based on the lookup values maintained. The available options are: <ul style="list-style-type: none"> <li>• <b>Collection</b></li> <li>• <b>Origination</b></li> <li>• <b>Servicing</b></li> </ul>
<b>Effective Date</b>	Specify the effective date.
<b>Expiry Date</b>	Specify the expiry date.
<b>+ button</b>	Click to add a new facts.
<b>- button</b>	Click to delete a row that is already added.
<b>Type</b>	Select the fact type from the drop-down list.
<b>Value</b>	Select the value configured for the fact type from the drop-down list. The values are configurable based on the lookup values maintained.

Table 3-23 (Cont.) Create Strategy Configuration - Field Description

Field	Description
<b>Modes</b>	<p>Select the modes from the drop-down list. The available options are:</p> <ul style="list-style-type: none"> <li>• <b>Borrowing Capacity</b></li> <li>• <b>decision &amp; Grade</b></li> <li>• <b>Pricing</b></li> <li>• <b>Qualitative Score</b></li> <li>• <b>Quantitative Score</b></li> <li>• <b>Score</b></li> <li>• <b>Score and Decision</b></li> <li>• <b>Score, Decision &amp; Pricing</b></li> </ul> <p>If the <b>Module</b> is selected as <b>Collection</b>, then below options are available.</p> <ul style="list-style-type: none"> <li>• <b>Decision &amp; Grade</b></li> <li>• <b>Qualitative Score</b></li> <li>• <b>Quantitative Score</b></li> <li>• <b>Score</b></li> <li>• <b>Score and Decision</b></li> </ul>
<b>Steps</b>	<p>Steps are defined based on the modes selected. Example:</p> <p>If <b>Borrowing Capacity</b> mode is selected, the check box for borrowing capacity is by default selected and disabled. You can select the other steps.</p>

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

The **Strategy Configuration** is successfully created and can be viewed using the [View Strategy Configuration](#) 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**.

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **Homescreen**, click **Core Maintenance**, under **Core Maintenance**, click **Credit Decision**.
2. Under **Credit Decision**, click **Maintenance**, under **Maintenance**, click **Strategy Configuration**, under **Strategy Configuration**, click **View Strategy Configuration**.

The **View Strategy Configuration** screen displays.



**Figure 3-26 View Strategy Configuration**



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

**Table 3-24 View Strategy Configuration - Field Description**

Field	Description
<b>Strategy Code</b>	Displays the strategy code.
<b>Strategy Description</b>	Displays the description of the strategy.
<b>Product Processor</b>	Displays the product processor of the strategy.
<b>Authorization Status</b>	Displays the authorization status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Displays the status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>
<b>Modification Number</b>	Displays the number of modification performed on the record.

3. On **View Strategy Configuration** screen, click



icon.

The **View Strategy Configuration - Search** screen displays.

Figure 3-27 View Strategy Configuration - Search

4. On **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
<b>Strategy Code</b>	Specify the strategy code.
<b>Strategy Description</b>	Specify the description of the strategy.
<b>Authorization Status</b>	Select the authorization status from the drop-down list. The available options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Select the record status from the drop-down list. The available options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>

5. Click **Search** to display the required strategy configuration.
6. On **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 displays.

**Figure 3-28 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
<b>Strategy Code</b>	Displays the created strategy code.
<b>Strategy Code Description</b>	Displays the created strategy code description.
<b>Product Processor</b>	Displays the product processor for the created strategy configuration.
<b>Product Processor Description</b>	Displays the product processor description for the created strategy configuration.
<b>Account Category</b>	Displays the account category for the created strategy configuration.
<b>Module</b>	Displays the module for the created strategy configuration.
<b>Effective Date</b>	Displays the effective date for the created strategy configuration.
<b>Expiry Date</b>	Select the expiry date for the created strategy configuration.

**Table 3-26 (Cont.) Strategy Configuration Maintenance - Modify - Field Description**

Field	Description
<b>Type</b>	Displays the fact type for the created strategy configuration.
<b>Value</b>	Displays the fact value for the created strategy configuration.
<b>Steps</b>	Specify the steps defined for the created strategy configuration.

8. Click **Save** to update the modified fields.
9. Click **View** to view the created strategy configuration.

The **Strategy Configuration Maintenance - View** screen displays.

**Figure 3-29 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
<b>Strategy Code</b>	Displays the created strategy code.
<b>Strategy Code Description</b>	Displays the created strategy code description.
<b>Product Processor</b>	Displays the product processor for the created strategy configuration.
<b>Product Processor Description</b>	Displays the product processor description for the created strategy configuration.

**Table 3-27 (Cont.) Strategy Configuration Maintenance - View - Field Description**

Field	Description
<b>Account Category</b>	Displays the account category for the created strategy configuration.
<b>Module</b>	Displays the module for the created strategy configuration.
<b>Effective Date</b>	Displays the effective date for the created strategy configuration.
<b>Expiry Date</b>	Displays the expiry date for the created strategy configuration.
<b>Type</b>	Displays the fact type for the created strategy configuration.
<b>Value</b>	Displays the fact value for the created strategy configuration.
<b>Steps</b>	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.


Specify **User ID** and **Password**, and login to **Home** screen.

1. On **Homescreen**, click **Core Maintenance**, under **Core Maintenance**, click **Credit Decision**.
2. Under **Credit Decision**, click **Maintenance**, under **Maintenance**, click **Scoring Feature**, under **Scoring Feature**, click **Create Scoring Feature**.

The **Create Scoring Feature** screen displays.


**Figure 3-30 Create Scoring Feature**

3. On **Create Scoring Feature** screen, specify the fields.

 **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
<b>Feature Code</b>	Specify the unique feature code.
<b>Feature Description</b>	Specify a short description for the feature.
<b>Product Processor</b>	Specify the product processor for which the feature is being created.
<b>Rule</b>	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: <ul style="list-style-type: none"> <li>• <b>Yes</b></li> <li>• <b>No</b></li> </ul>
<b>Fact Code</b>	Select the fact code to be mapped to the feature from the drop-down list. This field is enabled if the <b>Rule</b> is selected as <b>No</b> .
<b>Fact Name</b>	Specify the fact name of the feature. This field is enabled if the <b>Rule</b> is selected as <b>No</b> .
<b>Rule Code</b>	Select the rule code to be mapped to the feature from the drop-down list. This field is enabled if the <b>Rule</b> is selected as <b>Yes</b> .
	Click this icon to get the information about the rule.
<b>Rule Name</b>	Specify the rule name for the selected rule. This field is enabled if the <b>Rule</b> is selected as <b>Yes</b> .

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

The **Scoring Feature** is successfully created and can be viewed using the [View Scoring Feature](#) screen.

## 3.9.2 View Scoring Feature

This topic describes the systematic instructions to view the list of scoring feature.

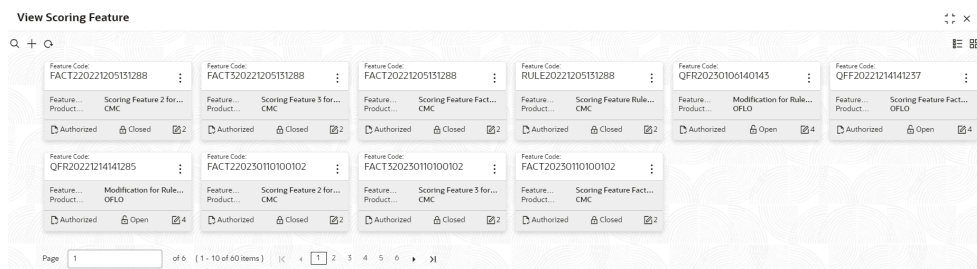
The user can configure the scoring feature using the [Create Scoring Feature](#) screen. The status of the created scoring feature is displayed as **Unauthorized** and **Open**. Once the checker authorizes the model, the status is updated to **Authorized** and **Open**.

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **Homescreen**, click **Core Maintenance** under **Core Maintenance**, click **Credit Decision**.
2. Under **Credit Decision**, click **Maintenance**, under **Maintenance**, click **Scoring Feature**, under **Scoring Feature**, click **View Scoring Feature**.

The **View Scoring Feature** screen displays.

**Figure 3-31 View Scoring Feature**



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

**Table 3-29 View Scoring Feature – Field Description**

Field	Description
<b>Feature Code</b>	Displays the feature code.
<b>Feature Description</b>	Displays the description of the feature.
<b>Product Processor</b>	Displays the product processor for which the feature is created.
<b>Authorization Status</b>	Displays the authorization status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Displays the status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>
<b>Modification Number</b>	Displays the number of modification performed on the record.

3. On **View Scoring Feature** screen, Click



icon.

The **View Scoring Feature - Search** screen displays.

**Figure 3-32 View Scoring Feature - Search**

**Search Filter** ✕

---

Feature Code

Feature Description

Authorization Status

Record Status

**Search**

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

**Table 3-30 View Scoring Feature - Search – Field Description**

Field	Description
<b>Feature Code</b>	Specify the feature code.
<b>Feature Description</b>	Specify the feature description.
<b>Authorization Status</b>	Select the authorization status from the drop-down list. The available options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>



**Table 3-30 (Cont.) View Scoring Feature - Search – Field Description**

Field	Description
<b>Record Status</b>	Select the record status from the drop-down list. The available options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>

4. Click **Search** to display the required scoring feature.
5. On **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..

The **Scoring Feature Maintenance - Modify** screen displays.

**Figure 3-33 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
<b>Feature Code</b>	Displays the feature code.
<b>Feature Description</b>	The user can modify the feature description.
<b>Product Processor</b>	Displays the product processor for the created scoring feature.
<b>Rule</b>	The user can modify the rule defined to the feature.
<b>Rule Code</b>	The user can modify the rule code of the feature. This field is displayed, if the <b>Rule</b> is selected as <b>Yes</b> .

**Table 3-31 (Cont.) Scoring Feature Maintenance - Modify - Field Description**

Field	Description
	Click this icon to get the information about the rule.
<b>Rule Name</b>	Displays the rule name of the feature. This field is displayed, if the <b>Rule</b> is selected as <b>Yes</b> .
<b>Fact Code</b>	The user can modify the fact code of the feature. This field is displayed, if the <b>Rule</b> is selected as <b>No</b> .
<b>Fact Name</b>	Displays the fact name of the feature. This field is displayed, if the <b>Rule</b> is selected as <b>No</b> .

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

## 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.

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.

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **Homescreen**, click **Core Maintenance**, under **Core Maintenance**, click **Credit Decision**.
2. Under **Credit Decision**, click **Maintenance**, under **Maintenance**, click **Quantitative Scoring Model**, under **Quantitative Scoring Model**, click **Create Quantitative Scoring Model**.

The **Create Quantitative Scoring Model** screen displays.

**Figure 3-34 Create Quantitative Scoring Model**

3. On **Create Quantitative Scoring Model** screen, specify the fields.

 **Note:**

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

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

**Table 3-32 Create Quantitative Scoring Model - Field Description**

Field	Description
<b>Scoring Model</b>	Select the scoring model from the drop-down list. The available options are: <ul style="list-style-type: none"> <li>• <b>Application Scoring Model</b></li> <li>• <b>Applicant Scoring Model</b></li> <li>• <b>Multi-Applicant Scoring Model</b></li> </ul>
<b>Scoring Model Code</b>	Specify the unique scoring model code.
<b>Scoring Model Description</b>	Specify a short description for the scoring model.
<b>Effective Date</b>	Specify the effective date.
<b>Expiry Date</b>	Specify the expiry date.
<b>Product Processor</b>	Specify the product processor for which the model is being created.
<b>Priority</b>	Specify the priority of the model.


4. Click the **Selection Criteria** to define quantitative scoring model.

The **Create Quantitative Scoring Model - Selection Criteria** screen displays.

**Figure 3-35 Create Quantitative Scoring Model - Selection Criteria**

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

**Table 3-33 Create Quantitative Scoring Model - Selection Criteria - Field Description**

Field	Description
<b>Use Existing Rule</b>	By default, this option is enabled. Indicates if the existing rule is linked.
<b>Rule Code</b>	Select the rule code from the drop down list.
	Click this icon to get the information about the existing rule.
<b>Rule Name</b>	Displays the rule name of the selected rule code.
<b>Create New Rule</b>	Select this option to create new rule.
<b>Code</b>	Specify the rule code.
<b>Description</b>	Specify the rule description.
<b>+ icon</b>	Click this icon to add new expression.

**Table 3-33 (Cont.) Create Quantitative Scoring Model - Selection Criteria - Field Description**

Field	Description
<b>Fact / Rules</b>	<p>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.</p>
<b>Operator</b>	<p>Select the comparison operator from the drop-down list. The available options are:</p> <ul style="list-style-type: none"> <li>• &lt;</li> <li>• &gt;</li> <li>• +</li> <li>• =</li> <li>• %</li> <li>• !=</li> <li>• -</li> <li>• &gt;=</li> <li>• &lt;=</li> <li>• *</li> <li>• /</li> <li>• <b>Contains</b></li> <li>• <b>In</b></li> <li>• <b>Matches</b></li> <li>• <b>NotMatches</b></li> <li>• <b>NotContains</b></li> <li>• <b>Notin</b></li> </ul>
<b>Data Type</b>	<p>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:</p> <ul style="list-style-type: none"> <li>• <b>Text</b></li> <li>• <b>Number</b></li> <li>• <b>Boolean</b></li> <li>• <b>Date</b></li> <li>• <b>Fact</b></li> <li>• <b>Rules</b></li> </ul> <p>The below option appears if the <b>Data Type</b> is selected as <b>Boolean</b>.</p> <ul style="list-style-type: none"> <li>• <b>True</b></li> <li>• <b>False</b></li> </ul>
<b>Output</b>	<p>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:</p> <ul style="list-style-type: none"> <li>• <b>Text</b></li> <li>• <b>Number</b></li> <li>• <b>Boolean</b></li> <li>• <b>Date</b></li> <li>• <b>Fact</b></li> <li>• <b>Rules</b></li> </ul> <p>The below option appears if the <b>Data Type</b> is selected as <b>Boolean</b>.</p> <ul style="list-style-type: none"> <li>• <b>True</b></li> <li>• <b>False</b></li> </ul>

**Table 3-33 (Cont.) Create Quantitative Scoring Model - Selection Criteria - Field Description**

Field	Description
<b>Expression</b>	Displays the expression updated in the expression builder.


- 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 displays.

**Figure 3-36 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
<b>Rule Code</b>	Select the rule code from the drop-down list.
	Click this icon to get the information about the rule.
<b>Rule Name</b>	Displays the rule name of the rule code.

- 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 displays.

**Figure 3-37 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
<b>+ icon</b>	Click this icon to add a new row.
<b>- icon</b>	Click this icon to delete a row, which is already added.
<b>Feature</b>	Select the feature from the drop-down list.
<b>Weightage (%)</b>	Specify the weightage to be assigned to each feature code.
<b>Range Type</b>	Select the range type from the drop down list. The available options are: <ul style="list-style-type: none"> <li>• <b>Max Value</b></li> <li>• <b>Param Percent%</b></li> <li>• <b>Value</b></li> </ul> For <b>Applicant Scoring Model</b> , this field is editable.
<b>Define Range/Value</b>	Click the <b>Define</b> link to define the score for the expected response.
<b>Enable</b>	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 displays.

**Figure 3-38 Create Quantitative Scoring Model - Define Link - Numeric Feature**

The screenshot shows the 'Create Quantitative Scoring Model' interface. It is divided into two main sections: 'Basic Details' and 'Scoring Feature'.

**Basic Details:**

- Scoring Model: Applicant Scoring Model (dropdown)
- Scoring Model Code: (text input, Required)
- Scoring Model Description: (text input, Required)
- Effective Date: September 30, 2020 (calendar icon, Required)
- Expiry Date: (calendar icon, Required)
- Product Processor: OFLO (dropdown)
- Priority: (text input, Required)

**Scoring Feature:**

Selection Criteria: Feature

Feature	Weightage (%)	Range Type	Define Range/Value	Enable
<input type="checkbox"/> Age Aggregate		Param Percent %	Define	<input type="checkbox"/>
<input type="checkbox"/> Select		Select	Define	<input type="checkbox"/>

**Range/Value Definition - Age Aggregate:**

Note: How decimal number is considered while defining a Range? For Example: If range is from 0 - 200 in 1st row and 200 - 500 in 2nd row then that means in the 2nd row it will start from 200.

Range Type: Param Percent %

Max Value: (text input, Required)

Range From	Range To	Percentage	Category
No data to display.			

Buttons: Done, Cancel, Save

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
<b>Range Type</b>	Displays the range type selected.
<b>Max Value</b>	Specify the maximum value on which scoring has to be done, if range type ID is Max Value % or Param %.
<b>+ icon</b>	Click this icon to add a new row.
<b>- icon</b>	Click this icon to delete a row, which is already added.
<b>Range From</b>	Specify the minimum range of value based on which scoring is to be done.
<b>Range To</b>	Specify the maximum range of value based on which scoring is to be done.
<b>Score/Percentage</b>	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.



**Table 3-36 (Cont.) Create Quantitative Scoring Model - Define Link – Numeric Feature - Field Description**

Field	Description
<b>Category</b>	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: <ul style="list-style-type: none"> <li>• <b>Strong</b></li> <li>• <b>Medium</b></li> <li>• <b>Weak</b></li> </ul>

If the data type of feature is alphanumeric such as Employment Category, the below screen appears.

**Figure 3-39 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
<b>Range Type</b>	Displays the range type selected. The default value for the same is <b>Value</b> .
<b>Max Value</b>	Specify the maximum value for the range type.

**Table 3-37 (Cont.) Create Quantitative Scoring Model - Define Link – Alphanumeric Feature - Field Description**

Field	Description
<b>+ icon</b>	Click this icon to add a new row.
<b>- icon</b>	Click this icon to delete a row, which is already added.
<b>Value</b>	Specify the value of the feature.
<b>Score</b>	Specify the score assigned for each range value.
<b>Category</b>	Specify the category for each range or value from the drop-down list. The available options are: <ul style="list-style-type: none"> <li>• <b>Strong</b></li> <li>• <b>Medium</b></li> <li>• <b>Weak</b></li> </ul>

- Click **Done** to save the data and close the range panel.
- Click **Save** to save the details.

The **Quantitative Scoring Model** is successfully created and can be viewed using the [View Quantitative Scoring Model](#) screen.

### 3.10.2 View Quantitative Scoring Model

This topic describes the systematic instructions to view the list of configured quantitative scoring model.

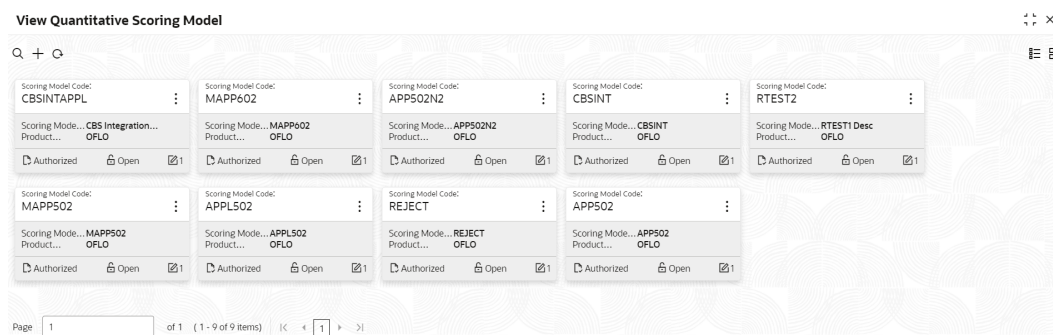
The user can configure the qualitative scoring model using the [Create Quantitative Scoring Model](#) screen. The status of the uploaded model is displayed as **Unauthorized** and **Open**. Once the checker authorizes the model, the status is updated to **Authorized** and **Open**.

Specify **User ID** and **Password**, and login to **Home** screen.

- On **Homescreen**, click **Core Maintenance**, under **Core Maintenance**, click **Credit Decision**.
- Under **Credit Decision**, click **Maintenance**, under **Maintenance**, click **Quantitative Scoring**, under **Quantitative Scoring Model**, click **View Quantitative Scoring Model**.

The **View Quantitative Scoring Model** screen displays.

**Figure 3-40 View Quantitative Scoring Model**



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

**Table 3-38 View Quantitative Scoring Model – Field Description**

Field	Description
<b>Scoring Model Code</b>	Displays the scoring model code.
<b>Scoring Model Description</b>	Displays the description of the scoring model.
<b>Product Processor Code</b>	Displays the product processor code
<b>Authorization Status</b>	Displays the authorization status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Displays the status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>
<b>Modification Number</b>	Displays the number of modification performed on the record.

3. On **View Quantitative Scoring Model** screen, click



icon.

The **View Quantitative Scoring Model - Search** screen displays.

Figure 3-41 View Quantitative Scoring Model - Search

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

Table 3-39 View Quantitative Scoring Model - Search – Field Description

Field	Description
<b>Scoring Model Code</b>	Specify the scoring model code.
<b>Scoring Model Description</b>	Specify the description of the scoring model.
<b>Authorization Status</b>	Select the authorization status from the drop-down list. The available options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Select the record status from the drop-down list. The available options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>

4. On 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 displays.

**Figure 3-42 Quantitative Scoring Model Maintenance - Modify**

**Quantitative Scoring Model Maintenance**

**Basic Details**

Scoring Model  
Application Scoring Model

Scoring Model Code  
CBSINTAPPL

Effective Date  
September 30, 2020

Product Processor  
OFLO

Scoring Model Description  
CBS Integration Application Level

Expiry Date  
March 31, 2025

Priority  
1

**Selection Criteria**      **Scoring Rule**

Use Existing Rule     Create New Rule

**Rules**

Rule Code      Rule Name  
CBSINT2      CBSINT2

**Rules**

**Basic Info**

Code      Description      Tag      Select Existing rule  
CBSINT2      CBSINT2               

Rule Version     

2     

**Section1**

**Else**

No items to display.

**Expression**

IF  
( MIN ( ALL\_Transunion\_Credit\_Report ) == 409 )  
Output  
Section1 true  
Else

**Note:**


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

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


**Table 3-40 Quantitative Scoring Model Maintenance - Modify - Field Description**

Field	Description
<b>Application Scoring Model</b>	Displays the application scoring model.
<b>Scoring Model Code</b>	Displays the qualitative scoring model code for the created quantitative scoring model.

**Table 3-40 (Cont.) Quantitative Scoring Model Maintenance - Modify - Field Description**

Field	Description
<b>Scoring Model Description</b>	The user can modify the quantitative scoring model description for the created quantitative scoring model.
<b>Effective Date</b>	Displays the effective date of the created quantitative scoring model. The user can modify the same before authorization.
<b>Expiry Date</b>	Displays the expiry date of the created quantitative scoring model. The user can modify the same before authorization.
<b>Product Processor</b>	Displays the product processor for the created quantitative scoring model.
<b>Priority</b>	The user can modify the priority of the created quantitative scoring model.
<b>Use Existing Rule</b>	The user can modify the existing rule if linked.
<b>Rule Code</b>	Displays the rule code for the created quantitative scoring model.
	Click this icon to get the information about the rule.
<b>Rule Name</b>	Displays the rule name of the rule code for the created quantitative scoring model.
<b>Code</b>	Displays the rule code.
<b>Description</b>	Displays the rule description.
<b>+ icon</b>	This icon can add new expression.
<b>Fact / Rules</b>	Displays the fact or rule of the created quantitative scoring model.
<b>Operator</b>	Displays the comparison operator of the created quantitative scoring model.
<b>Data Type</b>	Displays the data type for the fact or rule for the created quantitative scoring model.
<b>Output</b>	Displays the output for the created quantitative scoring model.
<b>Expression</b>	Displays the expression updated in the expression builder for the created quantitative scoring model.
<b>Feature</b>	This tab is enabled for the <b>Applicant Scoring Model</b> .
<b>+ icon</b>	This icon adds new row.
<b>- icon</b>	This icon deletes a row, which is already added.
<b>Feature</b>	Displays the feature for the created quantitative scoring model.
<b>Weightage (%)</b>	The user can modify the weightage assigned to each feature for the created quantitative scoring model.
<b>Range Type</b>	Displays the range type for the created quantitative scoring model.
<b>Define Range/Value</b>	Displays the range/value defined for the created quantitative scoring model.
<b>Range From</b>	The user can modify the minimum range of value based on which scoring is done.

**Table 3-40 (Cont.) Quantitative Scoring Model Maintenance - Modify - Field Description**

Field	Description
<b>Range To</b>	The user can modify the maximum range of value based on which scoring is done
<b>Score</b>	The user can modify the score for each range or value.
<b>Category</b>	The user can modify the category for the created quantitative scoring model.
<b>Enable</b>	Displays parameter for the created quantitative scoring model.
<b>Scoring Rule</b>	This tab is enabled for the <b>Application Scoring Model</b> .
<b>Rule Code</b>	Displays the rule code for the created quantitative scoring model.
	Click this icon to get the information about the rule.
<b>Rule Name</b>	Displays the rule name of the rule code for the created quantitative scoring model.

6. Click **Save** to update the modified fields.
7. Click **View** to view the created quantitative scoring model.

The **Quantitative Scoring Model Maintenance – View** screen displays.

**Figure 3-43 Quantitative Scoring Model Maintenance – View**

**Quantitative Scoring Model Maintenance**

**Basic Details**

Scoring Model	Scoring Model Description
Application Scoring Model	CBS Integration Application Level
Scoring Model Code	Effective Date
CBSINTAPPL	September 30, 2020
Effective Date	March 31, 2025
Product Processor	Priority
OFLO	1

Selection Criteria      Scoring Rule

Use Existing Rule     Create New Rule

**Rules**

Rule Code	Rule Name
CBSINT2	CBSINT2

**Edit**

**Rules**

**Basic Info**

Code: CBSINT2      Description: CBSINT2      Tag: [Dropdown]      Select Existing rule: [Search]

Rule Version: 2      [Search]

**Section1**

**Else**

[+/-] [Refresh]

No items to display.

**Expression**

```

IF
  ( MIN ( ALL_Transunion_Credit_Report ) == 409 )
Output:
  Section1 true
Else
  
```

**Audit**



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

**Table 3-41 Quantitative Scoring Model Maintenance - View - Field Description**

Field	Description
<b>Scoring Model</b>	Displays the application scoring model.
<b>Scoring Model Code</b>	Displays the qualitative scoring model code for the created quantitative scoring model.
<b>Scoring Model Description</b>	Displays the quantitative scoring model description for the created quantitative scoring model.
<b>Effective Date</b>	Displays the effective date of the created quantitative scoring model. The user can modify the same before authorization.
<b>Expiry Date</b>	Displays the expiry date of the created quantitative scoring model. The user can modify the same before authorization.
<b>Product Processor</b>	Displays the product processor for the created quantitative scoring model.
<b>Priority</b>	The user can modify the priority of the created quantitative scoring model.
<b>Use Existing Rule</b>	The user can modify the existing rule if linked.



**Table 3-41 (Cont.) Quantitative Scoring Model Maintenance - View - Field Description**

Field	Description
<b>Rule Code</b>	Displays the rule code for the created quantitative scoring model.
	Click this icon to get the information about the rule.
<b>Rule Name</b>	Displays the rule name of the rule code for the created quantitative scoring model.
<b>Create New Rule</b>	Displays the rule code for the created quantitative scoring model.
<b>Code</b>	Displays the rule code.
<b>Description</b>	Displays the rule description.
<b>+ icon</b>	This icon can add new expression.
<b>Fact / Rules</b>	Displays the fact or rule of the created quantitative scoring model.
<b>Operator</b>	Displays the comparison operator of the created quantitative scoring model.
<b>Data Type</b>	Displays the data type for the fact or rule for the created quantitative scoring model.
<b>Output</b>	Displays the output for the created quantitative scoring model.
<b>Expression</b>	Displays the expression updated in the expression builder for the created quantitative scoring model.
<b>Feature</b>	This tab is enabled for the <b>Applicant Scoring Model</b> .
<b>+ icon</b>	This icon adds new row.
<b>- icon</b>	This icon deletes a row, which is already added.
<b>Feature</b>	Displays the feature for the created quantitative scoring model.
<b>Weightage (%)</b>	Displays the weightage assigned to each feature for the created quantitative scoring model.
<b>Range Type</b>	Displays the range type for the created quantitative scoring model.
<b>Define Range/ Value</b>	Displays the range/value defined for the created quantitative scoring model.
<b>Range From</b>	The user can modify the minimum range of value based on which scoring is done.
<b>Range To</b>	The user can modify the maximum range of value based on which scoring is done
<b>Score</b>	Displays the score for each range or value.
<b>Category</b>	Displays the category for the created quantitative scoring model.
<b>Enable</b>	Displays parameter for the created quantitative scoring model.
<b>Scoring Rule</b>	This tab is enabled for the <b>Application Scoring Model</b> .
<b>Rule Code</b>	Displays the rule code for the created quantitative scoring model.
	Click this icon to get the information about the rule.
<b>Rule Name</b>	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.

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **Homescreen**, click **Core Maintenance**, under **Core Maintenance**, click **Credit Decision**.
2. Under **Credit Decision**, click **Maintenance**, under **Maintenance**, click **Decision Grade Matrix**, under **Decision Grade Matrix**, click **Create Decision Grade Matrix**.

The **Create Decision Grade Matrix** screen displays.

**Figure 3-44 Create Decision Grade Matrix**

3. On **Create Decision Grade Matrix** screen, specify the fields.

#### **Note:**

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

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

**Table 3-42 Create Decision Grade Matrix - Field Description**

Field	Description
<b>Model Code</b>	Specify the unique model code.
<b>Model Description</b>	Specify a short description for the model.
<b>Effective Date</b>	Specify the effective date.
<b>Expiry Date</b>	Specify the expiry date.
<b>Product Processor</b>	Specify the product processor for which the decision and grade matrix is being created.
<b>Priority</b>	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 displays.

**Figure 3-45 Create Decision Grade Matrix - Selection Criteria**

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

**Table 3-43 Create Decision Grade Matrix - Selection Criteria - Field Description**

Field	Description
<b>Use Existing Rule</b>	By default, this option is enabled. Indicates if the existing rule is linked.
<b>Rule Code</b>	Select the rule code from the drop down list.
	Click this icon to get the information about the rule.
<b>Rule Name</b>	Displays the rule name of the rule code.
<b>Create New Rule</b>	Select this option to create new rule.
<b>+ icon</b>	Click this icon to add new expression.
<b>Fact / Rules</b>	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.
<b>Operator</b>	Select the comparison operator from the drop-down list. The available options are: <ul style="list-style-type: none"> <li>• &lt;</li> <li>• &gt;</li> <li>• +</li> <li>• =</li> <li>• %</li> <li>• !=</li> <li>• -</li> <li>• &gt;=</li> <li>• &lt;=</li> <li>• *</li> <li>• /</li> <li>• <b>Contains</b></li> <li>• <b>In</b></li> <li>• <b>Matches</b></li> <li>• <b>NotMatches</b></li> <li>• <b>NotContains</b></li> <li>• <b>Notin</b></li> </ul>
<b>Data Type</b>	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: <ul style="list-style-type: none"> <li>• <b>Text</b></li> <li>• <b>Number</b></li> <li>• <b>Boolean</b></li> <li>• <b>Date</b></li> <li>• <b>Fact</b></li> <li>• <b>Rules</b></li> </ul> The below option appears if the <b>Data Type</b> is selected as <b>Boolean</b> . <ul style="list-style-type: none"> <li>• <b>True</b></li> <li>• <b>False</b></li> </ul>

**Table 3-43 (Cont.) Create Decision Grade Matrix - Selection Criteria - Field Description**

Field	Description
<b>Output</b>	<p>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.</p> <p>The available options are:</p> <ul style="list-style-type: none"> <li>• <b>Text</b></li> <li>• <b>Number</b></li> <li>• <b>Boolean</b></li> <li>• <b>Date</b></li> <li>• <b>Fact</b></li> <li>• <b>Rules</b></li> </ul> <p>The below option appears if the <b>Data Type</b> is selected as <b>Boolean</b>.</p> <ul style="list-style-type: none"> <li>• <b>True</b></li> <li>• <b>False</b></li> </ul>
<b>Expression</b>	Displays the expression updated in the expression builder.

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 displays.

**Figure 3-46 Create Decision Grade Matrix - Decision Matrix**

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

Table 3-44 Create Decision Grade Matrix - Decision Matrix - Field Description

Field	Description
<b>Add Column</b>	<p>Click this button to add features for which decision has to be maintained.</p> <p>On click of <b>Add Column</b>, all the features are shown in the drop down list. Select the feature to be added. Click save to add the feature.</p> <p>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.</p> <p>System should not save, if no feature have been added. User can click Cancel to close the window.</p>
<b>Link a Rule?</b>	<p>Select the appropriate radio button to link a rule to the features. The options are:</p> <ul style="list-style-type: none"> <li>• <b>Yes</b> - If this option is selected, the system displays the list of rules. Based on the rule mapped, the decision is provided.</li> <li>• <b>No</b> - If this option is selected, the system displays the list of decision lookup values.</li> </ul>
<b>+ icon</b>	Click this icon to add a new row.
<b>- icon</b>	Click this icon to delete a row, which is already added.
<b>Score From</b>	Specify the minimum range of score for the decision.
<b>Score To</b>	Specify the maximum range of score for the decision.
<b>Decision</b>	<p>Specify the decision of an application from the drop-down list. The values are configurable based on the look up values maintained</p> <p>The available options are:</p> <ul style="list-style-type: none"> <li>• <b>Approved</b></li> <li>• <b>Manual</b></li> <li>• <b>Rejected</b></li> </ul>
<b>Rule</b>	<p>Displays the rules based on which decision is to be made.</p> <p>This field is enabled if <b>Link a Rule?</b> option is updated as <b>Yes</b>.</p>


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 displays.

**Figure 3-47 Create Decision Grade Matrix - Grade Matrix**

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

**Table 3-45 Create Decision Grade Matrix - Grade Matrix - Field Description**

Field	Description
<b>Add Column</b>	Click <b>Add Column</b> , for addition of features for which decision has to be maintained.
<b>Link a Rule?</b>	Select the appropriate radio button to link a rule to the features. The options are: <ul style="list-style-type: none"> <li><b>Yes</b> - If this option is selected, the system displays the list of rules. Based on the rule mapped, the decision is provided.</li> <li><b>No</b> - If this option is selected, the system displays the list of decision lookup values.</li> </ul>
	Click this icon to delete a column, which is already added.
<b>+ icon</b>	Click this icon to add a new row.
<b>- icon</b>	Click this icon to delete a row, which is already added.
<b>Score From</b>	Specify the minimum range of score for the grade.
<b>Score To</b>	Specify the maximum range of score for the grade.
<b>Grade</b>	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: <ul style="list-style-type: none"> <li><b>A</b></li> <li><b>B</b></li> <li><b>C</b></li> </ul>

**Table 3-45 (Cont.) Create Decision Grade Matrix - Grade Matrix - Field Description**

Field	Description
<b>Value</b>	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.
<b>Rule</b>	Displays the rules based on which decision is to be made. This field is enabled if <b>Link a Rule?</b> option is updated as <b>Yes</b> .

- 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.

### 3.11.2 View Decision Grade Matrix

This topic describes the systematic instructions to view the decision grade matrix.

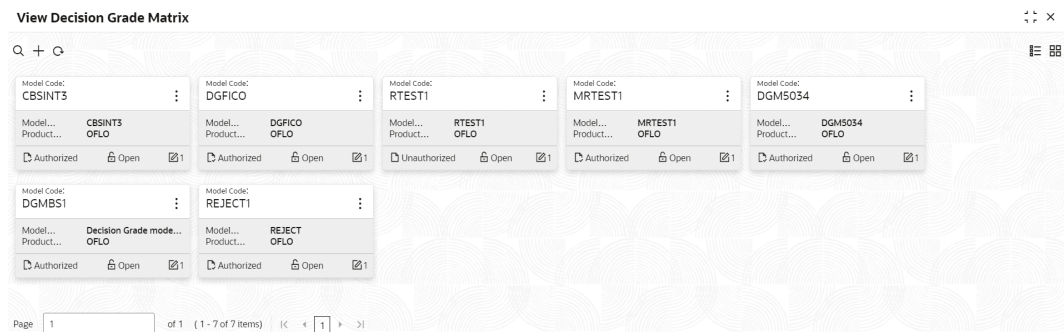
The user can create the decision grade matrix using the [Create Decision Grade Matrix](#) screen. The status of the uploaded model is displayed as **Unauthorized** and **Open**. Once the checker authorizes the matrix, the status is updated to **Authorized** and **Open**.

Specify **User ID** and **Password**, and login to **Home** screen.

- On **Homescreen**, click **Core Maintenance**, under **Core Maintenance**, click **Credit Decision**.
- Under **Credit Decision**, click **Maintenance**, under **Maintenance**, click **Decision Grade Matrix**, under **Decision Garde Matrix**, click **View Decision Grade Matrix**.

The **View Decision Grade Matrix** screen displays.

**Figure 3-48 View Decision Grade Matrix**



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

**Table 3-46 View Decision Grade Matrix – Field Description**

Field	Description
<b>Model Code</b>	Displays the model code.
<b>Model Description</b>	Displays the model description.



**Table 3-46 (Cont.) View Decision Grade Matrix – Field Description**

Field	Description
<b>Product Processor</b>	Displays the product processor for which the model is created.
<b>Record Status</b>	Displays the status of the record.
<b>Modification Number</b>	Displays the number of modification performed on the record.

3. On **View Decision Grade Matrix** screen, click



icon.

The **View Decision Grade Matrix - Search** screen displays.

**Figure 3-49 View Decision Grade Matrix - Search**

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

Table 3-47 View Decision Grade Matrix - Search – Field Description

Field	Description
<b>Model Code</b>	Specify the model code.
<b>Model Description</b>	Specify the model description.
<b>Authorization Status</b>	Select the authorization status from the drop-down list. The available options are: <ul style="list-style-type: none"><li>• <b>Authorized</b></li><li>• <b>Rejected</b></li><li>• <b>Unauthorized</b></li></ul>
<b>Record Status</b>	Select the record status from the drop-down list. The available options are: <ul style="list-style-type: none"><li>• <b>Open</b></li><li>• <b>Closed</b></li></ul>


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 displays.

Figure 3-50 Decision Grade Maintenance - Modify

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

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

Table 3-48 Decision Grade Maintenance - Modify - Field Description

Field	Description
<b>Model Code</b>	Displays the model code for the created decision grade matrix.
<b>Model Description</b>	The user can modify the model description for the created decision grade matrix.
<b>Effective Date</b>	The user can modify effective date for the decision grade matrix.
<b>Expiry Date</b>	The user can modify date of the created decision grade matrix.
<b>Product Processor</b>	Displays the product processor for the decision grade matrix.
<b>Priority</b>	The user can modify the priority of the created decision grade matrix.

Table 3-49 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 3-50 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 3-51 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: <ul style="list-style-type: none"> <li><b>Yes</b> - If this option is selected, the system displays the list of rules. Based on the rule mapped, the decision is provided.</li> <li><b>No</b> - If this option is selected, the system displays the list of decision lookup values.</li> </ul>
+ 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.

**Table 3-51 (Cont.) Decision Matrix - Field Description**

Field	Description
<b>Decision</b>	Specify the decision of an application. The values configurable based on the lookup values maintained.  The available options are: <ul style="list-style-type: none"> <li>• <b>Approved</b></li> <li>• <b>Manual</b></li> <li>• <b>Rejected</b></li> </ul>
<b>Rule</b>	Displays the rules based on which decision is to be made. This field is enabled if <b>Link a Rule?</b> option is updated as <b>Yes</b> .

**Table 3-52 Grade Matrix - Field Description**

Field	Description
<b>Add Column</b>	Click this button to add features for which grade has to be maintained.
<b>+ icon</b>	Click this icon to add new row.
<b>- icon</b>	Click this icon delete a row, which is already added.
<b>Score From</b>	Specify the minimum range of score for the grade.
<b>Score To</b>	Specify the maximum range of score for the grade.
<b>Grade</b>	Specify the grade of an application based on the score scored. The values configurable based on the lookup values maintained.  The available options are: <ul style="list-style-type: none"> <li>• <b>A</b></li> <li>• <b>B</b></li> <li>• <b>C</b></li> </ul>

6. Click **Save** to update the modified fields.
7. Click **View** to view the decision grade matrix.

The **Decision Grade Maintenance – View** screen displays.

**Figure 3-51 Decision Grade Maintenance – View**

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


**Table 3-53 Decision Grade Maintenance - View - Field Description**

Field	Description
<b>Model Code</b>	Displays the model code for the created decision grade matrix.
<b>Model Description</b>	Displays the model description for the created decision grade matrix.
<b>Effective Date</b>	Displays the effective date for the decision grade matrix.
<b>Expiry Date</b>	Displays the expiry date of the created decision grade matrix.
<b>Product Processor</b>	Displays the product processor for the decision grade matrix.
<b>Priority</b>	Displays the priority of the created decision grade matrix.

**Table 3-54 Selection Criteria - Field Description**

Field	Description
<b>Use Existing Rule</b>	Indicates if the existing rule is linked.
<b>Rule Code</b>	Displays the rule code for the created decision grade matrix.

**Table 3-54 (Cont.) Selection Criteria - Field Description**

Field	Description
	Click this icon to get the information about the rule.
<b>Rule Name</b>	Displays the rule name of the rule code for the created decision grade matrix.
<b>Create New Rule</b>	Displays the rule code for the created decision grade matrix.
<b>Code</b>	Specify the new rule code for decision grade matrix.
<b>Description</b>	Specify the rule description for the decision grade matrix.

**Table 3-55 Expression Builder - Field Description**

Field	Description
<b>+ icon</b>	Click this icon to add new expression.
<b>Fact / Rules</b>	Displays the fact or rule for the created decision grade matrix.
<b>Operator</b>	Displays the comparison operator for the created decision grade matrix.
<b>Data Type</b>	Displays the data type for the fact or rule for the created decision grade matrix.
<b>Output</b>	Displays the output for the created decision grade matrix.
<b>Expression</b>	Displays the expression updated in the expression builder for the created decision grade matrix.

**Table 3-56 Decision Matrix - Field Description**

Field	Description
<b>Add Column</b>	Click this button to add features for which decision has to be maintained.
<b>+ icon</b>	Click this icon to add new row.
<b>- icon</b>	Click this icon to delete a row, which is already added.
<b>Score From</b>	Displays the minimum range of score for the decision.
<b>Score To</b>	Displays the maximum range of score for the decision.
<b>Decision</b>	Displays the decision of an application. The values configurable based on the look up values maintained. The available options are: <ul style="list-style-type: none"> <li>• <b>Approved</b></li> <li>• <b>Manual</b></li> <li>• <b>Rejected</b></li> </ul>
<b>Rule</b>	Displays the rules based on which decision is to be made. This field is enabled if <b>Link a Rule?</b> option is updated as <b>Yes</b> .

**Table 3-57 Grade Matrix - Field Description**

Field	Description
<b>Add Column</b>	Click this button to add features for which grade has to be maintained.
<b>+ icon</b>	Click this icon to add new row.
<b>- icon</b>	Click this icon to delete a row, which is already added.
<b>Score From</b>	Displays the minimum range of score for the grade.
<b>Score To</b>	Displays the maximum range of score for the grade.
<b>Grade</b>	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: <ul style="list-style-type: none"> <li>• <b>A</b></li> <li>• <b>B</b></li> <li>• <b>C</b></li> </ul>
<b>Rule</b>	Displays the rules based on which grade is to be made. This field is enabled if <b>Link a Rule?</b> option is updated as <b>Yes</b> .

## 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.

Specify **User ID** and **Password**, and login to **Home** screen.


1. On **Homescreen**, click **Core Maintenance**, under **Core Maintenance**, click **Credit Decision**.
2. Under **Credit Decision**, click **Maintenance**, under **Maintenance**, click **Pricing Model**, under **Pricing Model**, click **Create Pricing Model**.

The **Create Pricing Model** screen displays.



**Figure 3-52 Create Pricing Model**

3. On **Create Pricing Model** screen, specify the fields.

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

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

**Table 3-58 Create Pricing Model - Field Description**

Field	Description
<b>Pricing Code</b>	Specify the unique pricing code.
<b>Pricing Description</b>	Specify a short description for the pricing.
<b>Effective Date</b>	Specify the effective date.
<b>Expiry Date</b>	Specify the expiry date.
<b>Product Processor</b>	Specify the product processor for which the pricing is being created.
<b>Priority</b>	Specify the priority of the pricing.

4. Click the **Selection Criteria** to define pricing model.  
The **Create Pricing Model - Selection Criteria** screen displays.

**Figure 3-53 Create Pricing Model – Selection Criteria**

The screenshot displays the 'Create Pricing Model' interface. At the top, there are two tabs: 'Selection Criteria' (selected) and 'Price Definition'. Below the tabs are two radio buttons: 'Use Existing Rule' and 'Create New Rule' (selected). The main content area is divided into two sections:

- Basic Details:** Contains several input fields:
  - Pricing Code (Required)
  - Effective Date (September 30, 2020)
  - Product Processor (Select)
  - Filter Value
  - Pricing Description (Required)
  - Expiry Date
  - Priority (Required)
- Create Rule:** Contains a 'New' button and a 'Rules' section. The 'Rules' section is expanded to show:
  - Basic Info:** Fields for Code (Required), Description, Tag, Rule Version, and a search box for 'Select Existing rule'.
  - Section1:** An 'Expression Builder' with an '+ Add Expression' button, an 'Output' section with '+ -' icons and 'No items to display.', and an 'Else' section with '+ -' icons and 'No items to display.'.
  - Expression:** A list showing 'IF', 'Output: Section1', and 'Else'.

At the bottom right of the 'Create Rule' section, there are 'Cancel' and 'Save' buttons.

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

**Table 3-59 Create Pricing Model – Selection Criteria - Field Description**


Field	Description
<b>Use Existing Rule</b>	By default, this option is enabled. Indicates if the existing rule is linked.
<b>Rule Code</b>	Select the rule code from the drop-down list.
	Click this icon to get the information about the rule.
<b>Rule Name</b>	Displays the rule name of the rule code.

Table 3-59 (Cont.) Create Pricing Model – Selection Criteria - Field Description

Field	Description
<b>Create New Rule</b>	Select this option to create new rule.
<b>Code</b>	Specify the rule code.
<b>Description</b>	Specify the rule description.
<b>+ icon</b>	Click this icon to add new expression.
<b>Fact / Rules</b>	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.
<b>Operator</b>	Select the comparison operator from the drop-down list. The available options are: <ul style="list-style-type: none"> <li>• &lt;</li> <li>• &gt;</li> <li>• +</li> <li>• =</li> <li>• %</li> <li>• !=</li> <li>• -</li> <li>• &gt;=</li> <li>• &lt;=</li> <li>• *</li> <li>• /</li> <li>• <b>Contains</b></li> <li>• <b>In</b></li> <li>• <b>Matches</b></li> <li>• <b>NotMatches</b></li> <li>• <b>NotContains</b></li> <li>• <b>Notin</b></li> </ul>
<b>Data Type</b>	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: <ul style="list-style-type: none"> <li>• <b>Text</b></li> <li>• <b>Number</b></li> <li>• <b>Boolean</b></li> <li>• <b>Date</b></li> <li>• <b>Fact</b></li> <li>• <b>Rules</b></li> </ul> The below option appears if the <b>Data Type</b> is selected as <b>Boolean</b> . <ul style="list-style-type: none"> <li>• <b>True</b></li> <li>• <b>False</b></li> </ul>

Table 3-59 (Cont.) Create Pricing Model – Selection Criteria - Field Description

Field	Description
<b>Output</b>	<p>Select the output from the drop-down list.</p> <p>Once the user select the data type, one more field opens adjacent to the output, update the same based on the selected output option.</p> <p>The available options are:</p> <ul style="list-style-type: none"> <li>• <b>Text</b></li> <li>• <b>Number</b></li> <li>• <b>Boolean</b></li> <li>• <b>Date</b></li> <li>• <b>Fact</b></li> <li>• <b>Rules</b></li> </ul> <p>The below option appears if the <b>Data Type</b> is selected as <b>Boolean</b>.</p> <ul style="list-style-type: none"> <li>• <b>True</b></li> <li>• <b>False</b></li> </ul>
<b>Expression</b>	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 displays.

Figure 3-54 Create Pricing Model – Price Definition (Flat)

The screenshot shows the 'Create Pricing Model' application window with the 'Price Definition' tab selected. The 'Basic Details' section contains the following fields: Pricing Code (Required), Effective Date (September 30, 2020), Product Processor (Select, Required), Filter Value, Pricing Description (Required), Expiry Date (Required), and Priority (Required). The 'Price Definition' section includes Minimum Rate (Required), Maximum Rate (Required), Rate Type (Flat selected, Tiered), Link a Rule? (Yes/No), and Rate % (Required). The window has 'Cancel' and 'Save' buttons at the bottom right.

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

Table 3-60 Create Pricing Model – Price Definition (Flat) - Field Description

Field	Description
<b>Minimum Rate</b>	Specify the minimum rate applicable for the defined pricing code.
<b>Maximum Rate</b>	Specify the maximum rate applicable for the defined pricing code.
<b>Rate Type</b>	Select the rate type from the drop-down list as <b>Flat</b> .

**Table 3-60 (Cont.) Create Pricing Model – Price Definition (Flat) - Field Description**

Field	Description
<b>Link a Rule?</b>	Select the option whether to link a rule to derive the price. The options are: <ul style="list-style-type: none"> <li>• <b>Yes</b></li> <li>• <b>No</b></li> </ul>
<b>Rate %</b>	Specify the interest rate application for the defined pricing. This field displays once you select the <b>Rate Type</b> option as <b>Flat</b> and <b>Link a Rule?</b> option as <b>No</b> .
<b>Rule</b>	Select the rule for the defined pricing from the drop-down list. This field appears once you select the <b>Rate Type</b> option as <b>Flat</b> and <b>Link a Rule?</b> option as <b>Yes</b> .

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 displays.

**Figure 3-55 Add Features**

**Add Features**

Select relevant features as per order in which they will get displayed in the table

Select Feature Name from the list

Link a Rule?

Yes No

Cancel Save

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.

**Figure 3-56 Create Pricing Model – Price Definition (Tiered)**

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

**Table 3-61 Create Pricing Model – Price Definition (Tiered) - Field Description**

Field	Description
<b>Minimum Rate</b>	Specify the minimum rate applicable for the defined pricing code.
<b>Maximum Rate</b>	Specify the maximum rate applicable for the defined pricing code.
<b>Rate Type</b>	Select the rate type from the drop-down list as <b>Tiered</b> .
<b>&lt;Numeric Feature&gt; From</b>	Specify the minimum numeric value of feature to which the interest rate is applicable.
<b>&lt;Numeric Feature&gt; To</b>	Specify the maximum numeric value of feature to which the interest rate is applicable.
<b>&lt;Character Feature&gt; Value</b>	Specify the alphabetic value for which the interest rate is applicable.
<b>Rate %</b>	Specify the interest rate applicable for the defined tier. This field appears once you select the <b>Rate Type</b> option as <b>Tiered</b> and <b>Link a Rule?</b> option as <b>No</b> .

**Table 3-61 (Cont.) Create Pricing Model – Price Definition (Tiered) - Field Description**

Field	Description
<b>Rule</b>	Select the rule for the defined tier from the drop-down list. This field appears once you select the <b>Rate Type</b> option as <b>Tiered</b> and <b>Link a Rule?</b> option as <b>Yes</b> .

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

The **Pricing Model** is successfully created and can be viewed using [View Pricing Model](#) screen.

### 3.12.2 View Pricing Model

This topic describes the systematic instructions to view the list of pricing model.

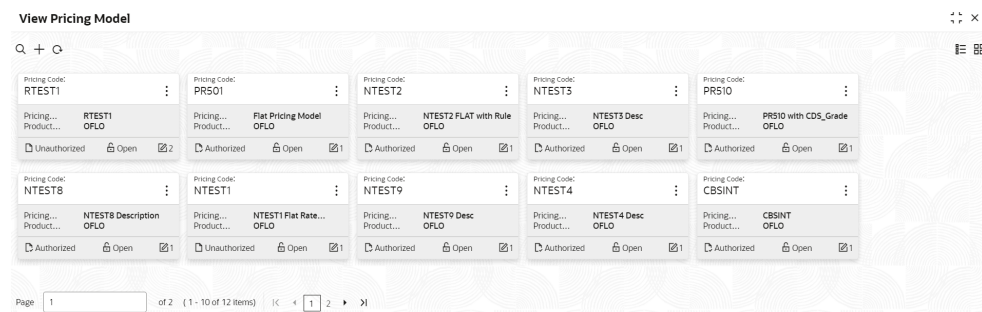
The user can create the pricing model using the [Create Pricing Model](#) screen. The status of the uploaded model is displayed as **Unauthorized** and **Open**. Once the checker authorizes the model, the status is updated to **Authorized** and **Open**.

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **Homescreen**, click **Core Maintenance**, under **Core Maintenance**, click **Credit Decision**.
2. Under **Credit Decision**, click **Maintenance**, under **Maintenance**, click **.Pricing**, under **Pricing**, click **View Pricing Model**.

The **View Pricing Model** screen displays.

**Figure 3-57 View Pricing Model**



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

**Table 3-62 View Pricing Model – Field Description**

Field	Description
<b>Pricing Code</b>	Displays the pricing code.
<b>Pricing Description</b>	Displays the description of the pricing model.

Table 3-62 (Cont.) View Pricing Model – Field Description

Field	Description
<b>Authorization Status</b>	Displays the authorization status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Displays the status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>
<b>Modification Number</b>	Displays the number of modifications performed on the record.

3. On **View Pricing Model** screen, click



icon.

The **View Pricing Model - Search** screen displays.

Figure 3-58 View Pricing Model - Search

## Search Filter ✕

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Pricing Code

Pricing Description

Authorization Status

Record Status



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

**Table 3-63 View Pricing Model - Search – Field Description**

Field	Description
<b>Pricing Code</b>	Specify the pricing code.
<b>Pricing Description</b>	Specify the description of the pricing model.
<b>Authorization Status</b>	Select the authorization status from the drop-down list. The available options are: <ul style="list-style-type: none"><li>• <b>Authorized</b></li><li>• <b>Rejected</b></li><li>• <b>Unauthorized</b></li></ul>
<b>Record Status</b>	Select the record status from the drop-down list. The available options are: <ul style="list-style-type: none"><li>• <b>Open</b></li><li>• <b>Closed</b></li></ul>

4. On **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 displays.

**Figure 3-59 Pricing Model Maintenance - Modify**

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

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

**Table 3-64 Pricing Model Maintenance - Modify - Field Description**

Field	Description
<b>Pricing Code</b>	Displays the pricing code for the created quantitative pricing model.
<b>Pricing Description</b>	Specify the pricing description for the created pricing model.
<b>Effective Date</b>	Specify the effective date for the created pricing model.
<b>Expiry Date</b>	Specify the expiry date for the created pricing model.
<b>Product Processor</b>	Displays the product processor for the created pricing model.
<b>Priority</b>	Specify the priority of the created pricing model.
<b>Use Existing Rule</b>	Specify the existing rule if linked.
<b>Rule Code</b>	Specify the rule code for the created pricing model.

**Table 3-64 (Cont.) Pricing Model Maintenance - Modify - Field Description**









Field	Description
	Click this icon to get the information about the rule.
<b>Rule Name</b>	Displays the rule name.
<b>Create New Rule</b>	Specify the new rule linked to the pricing model.
<b>Code</b>	Specify the new rule code for the created pricing model.
<b>Description</b>	Specify the rule description for the created pricing model.
<b>+ icon</b>	Click this icon can add new expression.
<b>Fact / Rules</b>	Displays the fact or rule of the created pricing model.
<b>Operator</b>	Displays the comparison operator of the created pricing model.
<b>Data Type</b>	Displays the data type for the fact or rule for the created pricing model.
<b>Output</b>	Displays the output for the created pricing model.
<b>Expression</b>	Displays the expression updated in the expression builder for the created pricing model.
<b>Pricing Definition</b>	The below listed fields appear in <b>Pricing Definition</b> tab.
<b>Minimum Rate</b>	Specify the minimum rate applicable for the defined pricing model.
<b>Maximum Rate</b>	Specify the maximum rate applicable for the defined pricing model.
<b>Rate Type</b>	Select the range type for the created pricing model from the drop-down list. The available options are: <ul style="list-style-type: none"> <li>• <b>Flat</b></li> <li>• <b>Tiered</b></li> </ul>
<b>Rate%</b>	Specify the interest rate application for the defined pricing. <div style="border: 1px solid #ccc; background-color: #e6f2ff; padding: 10px; margin-top: 10px;"> <p> <b>Note:</b></p> <p>This field appears once the user select the <b>Rate Type</b> option as <b>Flat</b> and <b>Link a Rule?</b> option as <b>Yes</b>.</p> </div>
<b>Rule</b>	Select the rule for the defined pricing. <div style="border: 1px solid #ccc; background-color: #e6f2ff; padding: 10px; margin-top: 10px;"> <p> <b>Note:</b></p> <p>This field appears once the user select the <b>Rate Type</b> option as <b>Flat</b> and <b>Link a Rule?</b> option as <b>Yes</b>.</p> </div>

Table 3-64 (Cont.) Pricing Model Maintenance - Modify - Field Description

Field	Description
<Numeric Feature> From	Specify the minimum numeric value of feature to which the interest rate is applicable.   <b>Note:</b> This field displays if the <b>Rate Type</b> is selected as <b>Tiered</b> .
<Numeric Feature> To	Specify the maximum numeric value of feature to which the interest rate is applicable.   <b>Note:</b> This field displays if the <b>Rate Type</b> is selected as <b>Tiered</b> .
<Character Feature> Value	Specify the alphabetic value for which the interest rate is applicable.   <b>Note:</b> This field displays if the <b>Rate Type</b> is selected as <b>Tiered</b> .
Rate%	Specify the interest rate applicable for the defined tier.   <b>Note:</b> This field appears once you select the <b>Rate Type</b> option as <b>Tiered</b> and <b>Link a Rule?</b> option as <b>No</b> .
Rule	Select the rule for the defined tier.   <b>Note:</b> This field appears once the user select the <b>Rate Type</b> option as <b>Tiered</b> and <b>Link a Rule?</b> option as <b>Yes</b> .

6. Click **Save** to update the modified fields.
7. Click **View** to view the created quantitative scoring model.

The **Pricing Model Maintenance – View** screen displays.

**Figure 3-60 Pricing Model Maintenance - View**

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

**Table 3-65 Pricing Model Maintenance - View - Field Description**


Field	Description
<b>Pricing Code</b>	Displays the pricing code for the created quantitative pricing model.
<b>Pricing Description</b>	Displays the pricing description for the created pricing model.
<b>Effective Date</b>	Displays effective date for the created pricing model.
<b>Expiry Date</b>	Displays date for the created pricing model.
<b>Product Processor</b>	Displays the product processor for the created pricing model.
<b>Priority</b>	Displays the priority of the created pricing model.
<b>Use Existing Rule</b>	Displays the existing rule if linked.
<b>Rule Code</b>	Displays the rule code for the created pricing model.
	Click this icon to get the information about the rule.
<b>Rule Name</b>	Displays the rule name.
<b>Create New Rule</b>	Displays the new rule linked to the pricing model.

Table 3-65 (Cont.) Pricing Model Maintenance - View - Field Description








Field	Description
<b>Code</b>	Specify the new rule code for the created pricing model.
<b>Description</b>	Specify the rule description for the created pricing model.
<b>+ icon</b>	This icon can add new expression.
<b>Fact / Rules</b>	Displays the fact or rule of the created pricing model.
<b>Operator</b>	Displays the comparison operator of the created pricing model.
<b>Data Type</b>	Displays the data type for the fact or rule for the created pricing model.
<b>Output</b>	Displays the output for the created pricing model.
<b>Expression</b>	Displays the expression updated in the expression builder for the created pricing model.
<b>Pricing Definition</b>	The below fields appears in the <b>Pricing Definition</b> tab.
<b>Minimum Rate</b>	Displays the minimum rate applicable for the defined pricing model.
<b>Maximum Rate</b>	Displays the maximum rate applicable for the defined pricing model.
<b>Rate Type</b>	Displays the range type for the created pricing model from the drop-down list. The available options are: <ul style="list-style-type: none"> <li>• <b>Flat</b></li> <li>• <b>Tiered</b></li> </ul>
<b>Rate%</b>	Displays the interest rate application for the defined pricing. <div style="border: 1px solid #0070c0; padding: 5px; margin-top: 10px;"> <p> <b>Note:</b></p> <p>This field appears once the user select the <b>Rate Type</b> as <b>Flat</b> and <b>Link a Rule?</b> option as <b>Yes</b>.</p> </div>
<b>Rule</b>	Displays the rule for the defined pricing. <div style="border: 1px solid #0070c0; padding: 5px; margin-top: 10px;"> <p> <b>Note:</b></p> <p>This field appears once you select the <b>Rate Type</b> option as <b>Flat</b> and <b>Link a Rule?</b> option as <b>Yes</b>.</p> </div>
<b>&lt;Numeric Feature&gt; From</b>	Displays the minimum numeric value of feature to which the interest rate is applicable. <div style="border: 1px solid #0070c0; padding: 5px; margin-top: 10px;"> <p> <b>Note:</b></p> <p>This field displays if the <b>Rate Type</b> is selected as <b>Tiered</b>.</p> </div>

Table 3-65 (Cont.) Pricing Model Maintenance - View - Field Description

Field	Description
<Numeric Feature> To	<p>Displays the maximum numeric value of feature to which the interest rate is applicable.</p> <p> <b>Note:</b> This field displays if the <b>Rate Type</b> is selected as <b>Tiered</b>.</p>
<Character Feature> Value	<p>Displays the alphabetic value for which the interest rate is applicable.</p> <p> <b>Note:</b> This field displays if the <b>Rate Type</b> is selected as <b>Tiered</b>.</p>
Rate%	<p>Displays the interest rate applicable for the defined tier.</p> <p> <b>Note:</b> This field appears once you select the <b>Rate Type</b> option as <b>Tiered</b> and <b>Link a Rule?</b> option as <b>No</b>.</p>
Rule	<p>Displays the rule for the defined tier.</p> <p> <b>Note:</b> This field appears once you select the <b>Rate Type</b> option as <b>Tiered</b> and <b>Link a Rule?</b> option as <b>Yes</b>.</p>

## 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.

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **Homescreen**, click **Core Maintenance**, under **Core Maintenance**, click **Credit Decision**.
2. Under **Credit Decision**, click **Maintenance**, under **Maintenance**, click **Validation Model**, under **Validation Model**, click **Create Validation Model**.

The **Create Validation Model** screen displays.

**Figure 3-61 Create Validation Model**

3. On **Create Validation Model** screen, specify the fields.

#### Note:

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

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

**Table 3-66 Create Validation Model - Field Description**

Field	Description
<b>Validation Model Code</b>	Specify the unique Validation model code.




**Table 3-66 (Cont.) Create Validation Model - Field Description**

Field	Description
<b>Validation Model Description</b>	Specify a short description for the Validation model.
<b>Effective Date</b>	Specify the effective date.
<b>Expiry Date</b>	Specify the expiry date.
<b>Product Processor</b>	Specify the product processor for which the Validation model is being created.
<b>Priority</b>	Specify the priority of the pricing.

- Click the **Selection Criteria** to define selection criteria rules.  
The **Create Validation Model - Selection Criteria** screen displays.

**Figure 3-62 Create Validation Model - Selection Criteria**

Table 3-67 Create Validation Model - Selection Criteria - Field Description

Field	Description
<b>Use Existing Rule</b>	By default, this option is enabled. Indicates if the existing rule is linked.
<b>Rule Code</b>	Select the rule code from the drop down list.
	Click this icon to get the information about the rule.
<b>Rule Name</b>	Displays the rule name of the rule code.
<b>Create New Rule</b>	Select this option to create new rule.
<b>Code</b>	Specify the rule code.
<b>Description</b>	Specify the rule description.
<b>+ icon</b>	Click this icon to add new expression.
<b>Fact / Rules</b>	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.
<b>Operator</b>	Select the comparison operator from the drop-down list. The available options are: <ul style="list-style-type: none"> <li>• &lt;</li> <li>• &gt;</li> <li>• +</li> <li>• =</li> <li>• %</li> <li>• !=</li> <li>• -</li> <li>• &gt;=</li> <li>• &lt;=</li> <li>• *</li> <li>• /</li> <li>• <b>Contains</b></li> <li>• <b>In</b></li> <li>• <b>Like</b></li> <li>• <b>Matches</b></li> <li>• <b>NotMatches</b></li> <li>• <b>NotContains</b></li> <li>• <b>Notin</b></li> </ul>

**Table 3-67 (Cont.) Create Validation Model - Selection Criteria - Field Description**

Field	Description
<b>Data Type</b>	<p>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.</p> <p>The available options are:</p> <ul style="list-style-type: none"> <li>• <b>Text</b></li> <li>• <b>Number</b></li> <li>• <b>Boolean</b></li> <li>• <b>Date</b></li> <li>• <b>Fact</b></li> <li>• <b>Rules</b></li> </ul> <p>The below option displays if the <b>Data Type</b> is selected as <b>Boolean</b>.</p> <ul style="list-style-type: none"> <li>• <b>True</b></li> <li>• <b>False</b></li> </ul>
<b>Output</b>	<p>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.</p> <p>The available options are:</p> <ul style="list-style-type: none"> <li>• <b>Text</b></li> <li>• <b>Number</b></li> <li>• <b>Boolean</b></li> <li>• <b>Date</b></li> <li>• <b>Fact</b></li> <li>• <b>Rules</b></li> </ul> <p>The below option appears if the <b>Data Type</b> is selected as <b>Boolean</b>.</p> <ul style="list-style-type: none"> <li>• <b>True</b></li> <li>• <b>False</b></li> </ul>
<b>Expression</b>	Displays the expression updated in the expression builder.


5. Click the **Validation Model** to define the pricing.

The **Create Validation Model – Validation Model** screen displays.

**Figure 3-63 Create Validation Model – Validation Model**

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

**Table 3-68 Create Validation Model – Validation Model - Field Description**

Field	Description
<b>+ icon</b>	Click this icon to add a new row.
<b>- icon</b>	Click this icon to delete a row, which is already added.
<b>Rule ID</b>	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.
<b>Sequence</b>	Specify the sequence of execution of rules.
<b>Reason</b>	Select the reason from the drop down list.
<b>Comments</b>	Specify the comments.

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

The **Validation Model** is successfully created and can be viewed using the [View Validation Model](#) screen.

### 3.13.2 View Validation Model

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

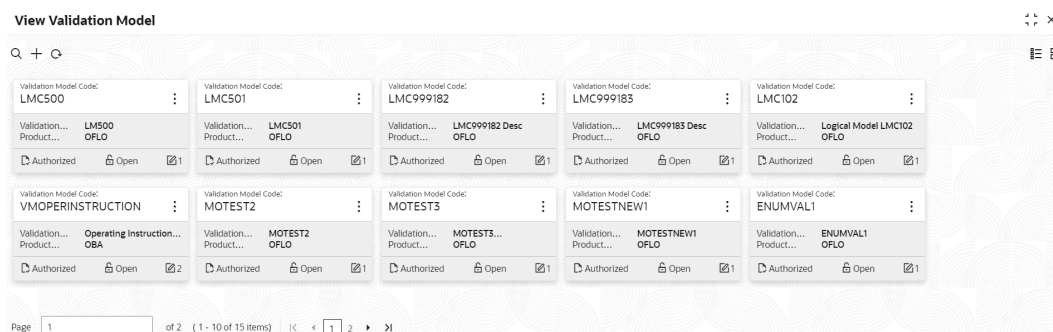
The user can configure the validation model using the [Create Validation Model](#) screen. The status of the created validation model is displayed as **Unauthorized** and **Open**. Once the checker authorizes the model, the status is updated to **Authorized** and **Open**.

Specify **User ID** and **Password**, and login to **Home** screen.

- On **Homescreen**, click **Core Maintenance**, under **Core Maintenance**, click **Credit Decision**.
- Under **Credit Decision**, click **Maintenance**, under **Maintenance**, click **Validation Model**, under **Validation Model**, click **View Validation Model**.

The **View Validation Model** screen displays.

**Figure 3-64 View Validation Model**



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

**Table 3-69 View Validation Model – Field Description**

Field	Description
<b>Validation Model Code</b>	Displays the validation model code.
<b>Validation Model Description</b>	Displays the description of the validation model.
<b>Product Processor Code</b>	Displays the product processor code.
<b>Authorization Status</b>	Select the authorization status from the drop-down list. The available options are: <ul style="list-style-type: none"><li>• <b>Authorized</b></li><li>• <b>Rejected</b></li><li>• <b>Unauthorized</b></li></ul>
<b>Record Status</b>	Select the record status from the drop-down list. The available options are: <ul style="list-style-type: none"><li>• <b>Open</b></li><li>• <b>Closed</b></li></ul>

3. On **View Validation Model** screen, click



icon.

The **View Validation Model - Search** screen displays.

Figure 3-65 View Validation Model - Search

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

Table 3-70 View Validation Model - Search – Field Description


Field	Description
<b>Validation Model Code</b>	Specify the validation model code.
<b>Validation Model Description</b>	Specify the description of the validation model.
<b>Authorization Status</b>	Select the authorization status from the drop-down list. The available options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Select the record status from the drop-down list. The available options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>

4. On **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 displays.

**Figure 3-66 Validation Model Maintenance - Modify**



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

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

**Table 3-71 Validation Model Maintenance - Modify - Field Description**

Field	Description
<b>Validation Model Code</b>	Displays the created validation model code.
<b>Validation Model Description</b>	The user can modify the description for the created validation model.

**Table 3-71 (Cont.) Validation Model Maintenance - Modify - Field Description**

Field	Description
<b>Effective Date</b>	The user can modify effective date for the created validation model.
<b>Expiry Date</b>	The user can modify expiry date for the created validation model.
<b>Product Processor</b>	Displays the product processor for the created validation model.
<b>Priority</b>	The user can modify the priority of the created validation model.
<b>Use Existing Rule</b>	The user can modify the existing rule if linked.
<b>Rule Code</b>	The user can modify the rule code for the created validation model.
	Click this icon to get the information about the rule.
<b>Rule Name</b>	Displays the rule name.
<b>Create New Rule</b>	The user can modify the new rule linked to the validation model.
<b>Code</b>	Specify the new rule code for the created validation model.
<b>Description</b>	Specify the rule description for the created validation model.
<b>+ icon</b>	This icon can add new expression.
<b>Fact / Rules</b>	Displays the fact or rule of the created validation model.
<b>Operator</b>	Displays the comparison operator of the created validation model.
<b>Data Type</b>	Displays the data type for the fact or rule for the created validation model.
<b>Output</b>	Displays the output for the created validation model.
<b>Expression</b>	Displays the expression updated in the expression builder for the created validation model.
<b>Rule ID</b>	The user can modify the rule ID of the created validation model.
	Click this icon to get the information about the rule.
<b>Sequence</b>	Displays the sequence of the created validation model.
<b>Reason</b>	The user can modify the reason of the created validation model.
<b>Comments</b>	The user can modify the comments of the created validation model.

6. Click **Save** to update the modified fields.
7. Click **View** to view the created validation model.

The **Validation Model Maintenance – View** screen displays.





Figure 3-67 Validation Model Maintenance - View

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

Table 3-72 Validation Model Maintenance - View - Field Description

Field	Description
<b>Validation Model Code</b>	Displays the created validation model code.
<b>Validation Model Description</b>	Displays the description for the created validation model.
<b>Effective Date</b>	Displays the effective date for the created validation model.
<b>Expiry Date</b>	Displays the expiry date for the created validation model.
<b>Product Processor</b>	Displays the product processor for the created validation model.
<b>Priority</b>	Displays the priority of the created validation model.
<b>Use Existing Rule</b>	Displays the existing rule if linked.
<b>Rule Code</b>	Displays the rule code for the created validation model.

Table 3-72 (Cont.) Validation Model Maintenance - View - Field Description

Field	Description
	Click this icon to get the information about the rule.
<b>Rule Name</b>	Displays the rule name.
<b>Create New Rule</b>	Displays the new rule linked to the validation model.
<b>Code</b>	Displays the new rule code for the created validation model.
<b>Description</b>	Displays the rule description for the created validation model.
<b>+ icon</b>	This icon can add new expression.
<b>Fact / Rules</b>	Displays the fact or rule of the created validation model.
<b>Operator</b>	Displays the comparison operator of the created validation model.
<b>Data Type</b>	Displays the data type for the fact or rule for the created validation model.
<b>Output</b>	Displays the output for the created validation model.
<b>Expression</b>	Displays the expression updated in the expression builder for the created validation model.
<b>Rule ID</b>	Displays the rule ID of the created validation model.
	Click this icon to get the information about the rule.
<b>Sequence</b>	Displays the sequence of the created validation model.
<b>Reason</b>	Displays the reason of the created validation model.
<b>Comments</b>	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.


Specify **User ID** and **Password**, and login to **Home** screen.

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 **Qualitative Scoring Model**.

The **Create Qualitative Scoring Model** screen displays.

**Figure 3-68 Create Qualitative Scoring Model**

3. On **Create Qualitative Scoring Model** screen, specify the fields.

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

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

**Table 3-73 Create Qualitative Scoring Model - Field Description**

Field	Description
<b>Scoring Model</b>	Select the scoring model from the drop-down list. The available options are: <ul style="list-style-type: none"> <li>• <b>Application Scoring Model</b></li> <li>• <b>Applicant Scoring Model</b></li> </ul>
<b>Qualitative Scoring Model Code</b>	Specify the unique scoring model code.
<b>Qualitative Scoring Model Description</b>	Specify a short description for the scoring model.

**Table 3-73 (Cont.) Create Qualitative Scoring Model - Field Description**


Field	Description
<b>Effective Date</b>	Specify the effective date.
<b>Expiry Date</b>	Specify the expiry date.
<b>Product Processor</b>	Specify the product processor for which the model is being created.
<b>Priority</b>	Specify the priority of the model.

- Click the **Selection Criteria** to define qualitative scoring model.  
The **Create Qualitative Scoring Model - Selection Criteria** screen displays.

**Figure 3-69 Create Qualitative Scoring Model - Selection Criteria**

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

**Table 3-74 Create Qualitative Scoring Model - Selection Criteria - Field Description**

Field	Description
<b>Use Existing Rule</b>	By default, this option is enabled. Indicates if the existing rule is linked.
<b>Rule Code</b>	Select the rule code from the drop down list.
	Click this icon to get the information about the rule.
<b>Rule Name</b>	Displays the rule name of the rule code.
<b>Create New Rule</b>	Select this option to create new rule.
<b>Code</b>	Specify the rule code.
<b>Description</b>	Specify the rule description.
<b>+ icon</b>	Click this icon to add new expression.
<b>Fact / Rules</b>	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.
<b>Operator</b>	Select the comparison operator from the drop-down list. The available options are: <ul style="list-style-type: none"> <li>• &lt;</li> <li>• &gt;</li> <li>• +</li> <li>• =</li> <li>• %</li> <li>• !=</li> <li>• -</li> <li>• &gt;=</li> <li>• &lt;=</li> <li>• *</li> <li>• /</li> <li>• <b>Contains</b></li> <li>• <b>In</b></li> <li>• <b>Matches</b></li> <li>• <b>NotMatches</b></li> <li>• <b>NotContains</b></li> <li>• <b>Notin</b></li> </ul>

**Table 3-74 (Cont.) Create Qualitative Scoring Model - Selection Criteria - Field Description**

Field	Description
<b>Data Type</b>	<p>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.</p> <p>The available options are:</p> <ul style="list-style-type: none"> <li>• <b>Text</b></li> <li>• <b>Number</b></li> <li>• <b>Boolean</b></li> <li>• <b>Date</b></li> <li>• <b>Fact</b></li> <li>• <b>Rules</b></li> </ul> <p>The below option appears if the <b>Data Type</b> is selected as <b>Boolean</b>.</p> <ul style="list-style-type: none"> <li>• <b>True</b></li> <li>• <b>False</b></li> </ul>
<b>Output</b>	<p>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.</p> <p>The available options are:</p> <ul style="list-style-type: none"> <li>• <b>Text</b></li> <li>• <b>Number</b></li> <li>• <b>Boolean</b></li> <li>• <b>Date</b></li> <li>• <b>Fact</b></li> <li>• <b>Rules</b></li> </ul> <p>The below option appears if the <b>Data Type</b> is selected as <b>Boolean</b>.</p> <ul style="list-style-type: none"> <li>• <b>True</b></li> <li>• <b>False</b></li> </ul>
<b>Expression</b>	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 displays.

**Figure 3-70 Create Qualitative Scoring Model - Scoring Rule**

The screenshot shows the 'Create Qualitative Scoring Model' application window. The 'Scoring Rule' tab is active. The 'Basic Details' section contains the following fields:

- Scoring Model:** Application Scoring Model (dropdown)
- Qualitative Scoring Model Code:** (text input, required)
- Effective Date:** September 30, 2020 (calendar icon, required)
- Product Processor:** Select (dropdown, required)
- Qualitative Scoring Model Description:** (text input, required)
- Expiry Date:** (calendar icon, required)
- Priority:** (text input, required)


The 'Score' section contains the following fields:

- Rule Code:** Select (dropdown, required)
- Rule Name:** (text input)

At the bottom right of the window are 'Cancel' and 'Save' buttons.

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

**Table 3-75 Create Qualitative Scoring Model - Scoring Rule - Field Description**

Field	Description
<b>Rule Code</b>	Select the rule code from the drop-down list.
	Click this icon to get the information about the rule.
<b>Rule Name</b>	Displays the rule name of the rule code.

- 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 displays.

**Figure 3-71 Create Qualitative Scoring Model - Questionnaire**

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

**Table 3-76 Create Qualitative Scoring Model - Questionnaire - Field Description**

Field	Description
<b>Questionnaire Code</b>	Select the questionnaire code from the drop-down list. It will list down all the questionnaire created as a part of create questionnaire.
<b>Questionnaire Name</b>	Displays the questionnaire name of the selected questionnaire code.

**Table 3-76 (Cont.) Create Qualitative Scoring Model - Questionnaire - Field Description**

Field	Description
<b>Question ID</b>	Displays the question ID in the questionnaire.
<b>Question</b>	Displays the question description linked to the question ID.
<b>Define Range/ Value</b>	Click the <b>Define</b> link to define the score for the expected response.
<b>Enable</b>	By default, this option is enabled. Indicates if the question ID is enabled or not.

- Click the **Define** link to define a range or absolute values for questions. The **Create Qualitative Scoring Model - Define Link** screen displays.

**Figure 3-72 Create Qualitative Scoring Model - Define Link**

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



**Table 3-77 Create Qualitative Scoring Model - Define Link – Numeric Feature - Field Description**

Field	Description
<b>Value</b>	Displays the options available for a questionnaire.
<b>Score</b>	Specify the score to be assigned to each value.
<b>Category</b>	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: <ul style="list-style-type: none"> <li>• <b>Strong</b></li> <li>• <b>Medium</b></li> <li>• <b>Weak</b></li> </ul>

8. Click **Done** to save the data and close the range panel.
9. Click **Save** to save the details.

The **Qualitative Scoring Model** is successfully created and can be viewed using the [View Qualitative Scoring Model](#) screen.

### 3.14.2 View Qualitative Scoring Model

This topic describes the systematic instructions to view the list of configured qualitative scoring model.

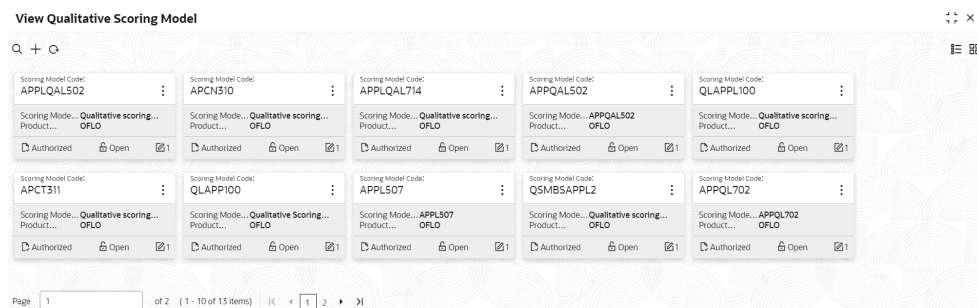
The user can configure the qualitative scoring model using the **Create Qualitative Scoring Model** screen. The status of the uploaded model is displayed as **Unauthorized** and **Open**. Once the checker authorizes the model, the status is updated to **Authorized** and **Open**.

Specify **User ID** and **Password**, and login to **Home** screen.

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 3-73 View Qualitative Scoring Model**



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

Table 3-78 View Qualitative Scoring Model – Field Description

Field	Description
<b>Scoring Model Code</b>	Displays the scoring model code.
<b>Scoring Model Description</b>	Displays the description of the scoring model.
<b>Product Processor Code</b>	Displays the product processor code
<b>Authorization Status</b>	Displays the authorization status of the record. The options are: <ul style="list-style-type: none"><li>• <b>Authorized</b></li><li>• <b>Rejected</b></li><li>• <b>Unauthorized</b></li></ul>
<b>Record Status</b>	Displays the status of the record. The options are: <ul style="list-style-type: none"><li>• <b>Open</b></li><li>• <b>Closed</b></li></ul>
<b>Modification Number</b>	Displays the number of modification performed on the record.

3. On **View Qualitative Scoring Model** screen, click



icon.

The **View Qualitative Scoring Model - Search** screen displays.

Figure 3-74 View Qualitative Scoring Model - Search

## Search Filter ✕

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Scoring Model Code

Scoring Model Description

Authorization Status

Record Status

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

Table 3-79 View Qualitative Scoring Model - Search – Field Description


Field	Description
<b>Scoring Model Code</b>	Specify the scoring model code.
<b>Scoring Model Description</b>	Specify the description of the scoring model.
<b>Authorization Status</b>	Select the authorization status from the drop-down list. The available options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Select the record status from the drop-down list. The available options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>

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 3-75 Qualitative Scoring Model Maintenance - Modify**


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

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

**Table 3-80 Qualitative Scoring Model Maintenance - Modify - Field Description**

Field	Description
<b>Scoring Model</b>	Displays the scoring model for the created qualitative scoring model.

**Table 3-80 (Cont.) Qualitative Scoring Model Maintenance - Modify - Field Description**

Field	Description
<b>Qualitative Scoring Model Code</b>	Displays the qualitative scoring model code for the created qualitative scoring model.
<b>Qualitative Scoring Model Description</b>	The user can modify the qualitative scoring model description for the created qualitative scoring model.
<b>Effective Date</b>	Displays the effective date of the created qualitative scoring model. User can modify the same before authorization.
<b>Expiry Date</b>	Displays the expiry date of the created qualitative scoring model. User can modify the same before authorization.
<b>Product Processor</b>	Displays the product processor for the created qualitative scoring model.
<b>Priority</b>	The user can modify the priority of the created qualitative scoring model.
<b>Use Existing Rule</b>	User can modify the existing rule if linked.
<b>Rule Code</b>	Displays the rule code for the created qualitative scoring model.
	Click this icon to get the information about the rule.
<b>Rule Name</b>	Displays the rule name of the rule code for the created qualitative scoring model.
<b>Code</b>	Displays the rule code.
<b>Description</b>	Displays the rule description.
<b>+ icon</b>	Click this icon to add new expression.
<b>Fact / Rules</b>	Displays the fact or rule of the created qualitative scoring model.
<b>Operator</b>	Displays the comparison operator of the created qualitative scoring model.
<b>Data Type</b>	Displays the data type for the fact or rule for the created qualitative scoring model.
<b>Output</b>	Displays the output for the created qualitative scoring model.
<b>Expression</b>	Displays the expression updated in the expression builder for the created qualitative scoring model.
<b>Rule Code</b>	User can modify the rule code for the created qualitative scoring model.
<b>Rule Name</b>	Displays the name for the created qualitative scoring model.
<b>Questionnaire</b>	This tab is applicable for <b>Applicant Scoring Model</b> .
<b>Questionnaire Code</b>	User can modify the questionnaire code for the created qualitative scoring model.
<b>Questionnaire Name</b>	Displays the questionnaire name for the created qualitative scoring model.
<b>Question ID</b>	Displays the question ID for the created qualitative scoring model.
<b>Question</b>	Displays the question for the created qualitative scoring model.
<b>Define Range/Value</b>	User can modify the defined range or value.
<b>Value</b>	Displays the defined value for the created qualitative scoring model.
<b>Score</b>	User can modify the score for the created qualitative scoring model.

**Table 3-80 (Cont.) Qualitative Scoring Model Maintenance - Modify - Field Description**

Field	Description
<b>Category</b>	User can modify the category for the created qualitative scoring model.
<b>Enable</b>	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 3-76 Qualitative Scoring Model Maintenance – View**

The screenshot displays the 'Qualitative Scoring Model Maintenance - View' interface. At the top, there's a title bar with a close button. Below it, the 'Basic Details' section shows the following information:

Scoring Model	Qualitative Scoring Model Description
Application Scoring Model	Qualitative scoring model APPLQAL502
Qualitative Scoring Model Code	APPLQAL502
Effective Date	September 30, 2020
Product Processor	DFLO
Expiry Date	October 31, 2025
Priority	10

Below this, there are tabs for 'Selection Criteria' and 'Scoring Rule'. The 'Scoring Rule' tab is active, showing 'Use Existing Rule' selected and 'Create New Rule' as an option. The 'Rules' section displays:

Rule Code	APPL502	Rule Name	APPL502
-----------	---------	-----------	---------

An 'Edit' button is visible above the 'Rules' section. The 'Rules' section is expanded to show 'Basic Info' with the following fields:

- Code: APPL502
- Description: APPL502
- Tag: (dropdown menu)
- Rule Version: 1
- Select Existing rule: (search field)

Below 'Basic Info' is a 'Section1' section with an 'Else' block. The 'Expression' section shows the following logic:

```


IF ( ProductCode == HMLNS1 )
Output
Section1 True
Else

```

An 'Audit' button is located at the bottom left of the screen.

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

**Table 3-81 Qualitative Scoring Model Maintenance - View - Field Description**

Field	Description
<b>Scoring Model</b>	Displays the scoring model for the created qualitative scoring model.
<b>Qualitative Scoring Model Code</b>	Displays the qualitative scoring model code for the created qualitative scoring model.
<b>Qualitative Scoring Model Description</b>	Displays the qualitative scoring model description for the created qualitative scoring model.
<b>Effective Date</b>	Displays the effective date of the created qualitative scoring model. User can modify the same before authorization.
<b>Expiry Date</b>	Displays the expiry date of the created qualitative scoring model. User can modify the same before authorization.
<b>Product Processor</b>	Displays the product processor for the created qualitative scoring model.
<b>Priority</b>	The user can modify the priority of the created qualitative scoring model.
<b>Use Existing Rule</b>	Displays the existing rule if linked.
<b>Rule Code</b>	Displays the rule code for the created qualitative scoring model.
	Click this icon to get the information about the rule.
<b>Rule Name</b>	Displays the rule name of the rule code for the created qualitative scoring model.
<b>Code</b>	Displays the rule code.
<b>Description</b>	Displays the rule description.
<b>+ icon</b>	Click this icon to add new expression.
<b>Fact / Rules</b>	Displays the fact or rule of the created qualitative scoring model.
<b>Operator</b>	Displays the comparison operator of the created qualitative scoring model.
<b>Data Type</b>	Displays the data type for the fact or rule for the created qualitative scoring model.
<b>Output</b>	Displays the output for the created qualitative scoring model.
<b>Expression</b>	Displays the expression updated in the expression builder for the created qualitative scoring model.
<b>Rule Code</b>	Displays the rule code for the created qualitative scoring model.
<b>Rule Name</b>	Displays the name for the created qualitative scoring model.
<b>Questionnaire</b>	This tab is applicable for <b>Applicant Scoring Model</b> .
<b>Questionnaire Code</b>	Displays the questionnaire code for the created qualitative scoring model.
<b>Questionnaire Name</b>	Displays the questionnaire name for the created qualitative scoring model.

**Table 3-81 (Cont.) Qualitative Scoring Model Maintenance - View - Field Description**

Field	Description
<b>Question ID</b>	Displays the question ID for the created qualitative scoring model.
<b>Question</b>	Displays the question for the created qualitative scoring model.
<b>Define Range/Value</b>	Displays the defined range or value.
<b>Value</b>	Displays the defined value for the created qualitative scoring model.
<b>Score</b>	Displays the score for the created qualitative scoring model.
<b>Category</b>	Displays the category for the created qualitative scoring model.
<b>Enable</b>	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.

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **Homescreen**, click **Core Maintenance**, under **Core Maintenance**, click **Credit Decision**.



- Under **Credit Decision**, click **Maintenance**, under **Maintenance**, click **Questionnaire**, under **Questionnaire**, click **Create Questionnaire**.  
The **Create Questionnaire** screen displays.

**Figure 3-77 Create Questionnaire**

- On **Create Questionnaire** screen, specify the fields.

 **Note:**






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

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

**Table 3-82 Create Questionnaire - Field Description**

Field	Description
<b>Questionnaire Code</b>	Specify the questionnaire code.
<b>Questionnaire Description</b>	Specify a short description for the questionnaire.
<b>Product Processor</b>	Specify the product processor for which the questionnaire is being created.
<b>Category</b>	Specify the category of the questionnaire.
<b>Create</b>	Click <b>Create</b> to configure the questions.
<b>Question Code</b>	Specify the unique question code.
<b>Question Description</b>	Specify the description for the question.
<b>Select-Type</b>	Select the type of response option from the drop-down list. The available options are: <ul style="list-style-type: none"> <li>• <b>Single Select</b></li> <li>• <b>Multi Select</b></li> <li>• <b>Input</b></li> <li>• <b>Date</b></li> </ul>

Table 3-82 (Cont.) Create Questionnaire - Field Description

Field	Description
<b>Select Sub-Type</b>	Select the sub-type from the drop-down list. The available options are: <ul style="list-style-type: none"> <li>• <b>Yes/No</b></li> <li>• <b>Check box</b></li> <li>• <b>Rapid Button</b></li> <li>• <b>Drop down</b></li> </ul>
<b>Short Name</b>	Specify the short name of the question. This will be displayed in the Execution Summary.
<b>Answer Code</b>	Displays the answer code.
<b>Answer Option</b>	Specify all the expected response for the question configured.
<b>Add</b>	Click <b>Add</b> to add the expected response to the question.
<b>Update</b>	Click <b>Update</b> to edit the response.
<b>Remove</b>	Click remove to remove the response.
<b>Required</b>	By default, this option is enabled. Indicates whether the question is mandatory or optional.
<b>Done</b>	Click <b>Done</b> to save the data.
<b>Preview</b>	Click <b>Preview</b> 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.
<b>Add Question</b>	By Clicking <b>Add Question</b> , the user can add another question.

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

The **Questionnaire** is successfully created and can be viewed using [View Questionnaire](#) 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**.

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **Homescreen**, click **Core Maintenance**, under **Core Maintenance**, click **Credit Decision**.
2. Under **Credit Decision**, click **Maintenance**, under **Maintenance**, click **Questionnaire**, under **Questionnaire**, click **View Questionnaire**.

The **View Questionnaire** screen displays.

**Figure 3-78 View Questionnaire**

The screenshot shows a web application interface titled "View Questionnaire". It displays a table with 15 records. The table has columns for Questionnaire Code, Description, Product, and Record Status. The records are arranged in two rows of five. The first row shows records with codes like TEST3, QCode20230105170184, and QuestionnaireSet5. The second row shows records with codes like QNR20221205151288, QNR20221205151288, and QNR20221205151288. The Record Status column shows values like "Authorized", "Open", "Closed", and "Unauthorized".

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

**Table 3-83 View Questionnaire – Field Description**

Field	Description
<b>Questionnaire Code</b>	Displays the questionnaire code.
<b>Questionnaire Description</b>	Displays the description of the questionnaire.
<b>Product Processor Code</b>	Displays the product processor code for which the questionnaire is created.
<b>Authorization Status</b>	Displays the authorization status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Displays the status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>

**Table 3-83 (Cont.) View Questionnaire – Field Description**

Field	Description
<b>Modification Number</b>	Displays the number of modification performed on the record.

- On **View Questionnaire** screen, click



icon.

The **View Questionnaire - Search** screen displays.

**Figure 3-79 View Questionnaire - Search**

**Search Filter** [X]

Questionnaire Code

Description

Authorization Status

Record Status

**Search**   **Reset**

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

**Table 3-84 View Questionnaire - Search – Field Description**

Field	Description
<b>Questionnaire Code</b>	Specify the questionnaire code.

**Table 3-84 (Cont.) View Questionnaire - Search – Field Description**

Field	Description
<b>Questionnaire Description</b>	Specify the questionnaire description.
<b>Authorization Status</b>	Select the authorization status from the drop-down list. The available options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Select the record status from the drop-down list. The available options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>

4. On **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.




**Figure 3-80 Questionnaire Maintenance - Modify**

**Note:**

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

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

Table 3-85 Questionnaire Maintenance - Modify - Field Description

Field	Description
<b>Questionnaire Code</b>	Displays the questionnaire code.
<b>Questionnaire Description</b>	The user can modify the questionnaire description.
<b>Product Processor</b>	Displays the product processor for the created questionnaire.
<b>Category</b>	The user can modify the category of the created questionnaire.
<b>Preview</b>	Click <b>Preview</b> 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.
<b>Question Code</b>	Displays the question code for the created questionnaire.
<b>Question Description</b>	The user can modify the question code for the created questionnaire.
<b>Select-Type</b>	Displays the type of questionnaire.
<b>Short Name</b>	User can modify the short name of the created questionnaire.
<b>Answer Code</b>	Displays the answer code.
<b>Answer Option</b>	User can modify all the expected response for the question configured.
<b>Required</b>	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 3-81 Questionnaire Maintenance – View**

The screenshot displays the 'Questionnaire Maintenance - View' interface. At the top, there is a 'Basic Details' section with the following information:

- Questionnaire Code: TEST3
- Product Processor: OFLO
- Questionnaire Description: TEST3
- Category: A

Below the basic details, there is a list of questions. Each question row includes a question code, a question description, a select type, a short name, an answer code, an answer option, and a required status. A 'Preview' button is located in the top right corner of the question list area.

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

**Table 3-86 Questionnaire Maintenance - View - Field Description**

Field	Description
<b>Questionnaire Code</b>	Displays the questionnaire code.
<b>Questionnaire Description</b>	Displays the questionnaire description.
<b>Product Processor</b>	Displays the product processor for the created questionnaire.
<b>Category</b>	Displays the category of the created questionnaire.
<b>Preview</b>	Click <b>Preview</b> to display the questions configured for the questionnaire along with the response choice.
<b>Question Code</b>	Displays the question code for the created questionnaire.
<b>Question Description</b>	Displays the question code for the created questionnaire.
<b>Select Type</b>	Displays the type of questionnaire.
<b>Short Name</b>	Displays the short name of the created questionnaire.
<b>Answer Code</b>	Displays the answer code.
<b>Answer Option</b>	Displays all the expected response for the question configured.
<b>Required</b>	Displays if the question is mandatory or optional.

## 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.

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **Homescreen**, click **Core Maintenance**, under **Core Maintenance**, click **Credit Decision**.
2. Under **Credit Decision**, click **Maintenance**, under **Maintenance**, click **Counter**, under **Counter**, click **Create Counter**.

The **Create Counter** screen displays.

**Figure 3-82 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.

**Table 3-87 Create Counter - Field Description**

Field	Description
<b>Counter Code</b>	Specify the unique counter code.
<b>Counter Description</b>	Specify the description for the counter.
<b>Product Processor</b>	Select the product processor from the drop-down list for which code is being created



Table 3-87 (Cont.) Create Counter - Field Description

Field	Description
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: <ul style="list-style-type: none"> <li>• <b>PartyID</b></li> <li>• <b>AccountID</b></li> <li>• <b>CollateralID</b></li> </ul>
	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: <ul style="list-style-type: none"> <li>• <b>Increase</b></li> <li>• <b>Decrease</b></li> </ul>
Period Basis	Select from the drop-down list The available options are: <ul style="list-style-type: none"> <li>• <b>Calendar</b></li> <li>• <b>Anniversary</b></li> </ul>
Frequency	Select the value from the drop-down list. The available options are: <ul style="list-style-type: none"> <li>• <b>Daily</b></li> <li>• <b>Weekly</b></li> <li>• <b>Monthly</b></li> <li>• <b>Quarterly</b></li> <li>• <b>Half Yearly</b></li> <li>• <b>Yearly</b></li> </ul>
	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.

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

The **Create Counter** is successfully created and can be viewed using the [View Counter](#) screen.

## 3.16.2 View Counter

This topic describes the systematic instructions to view the counter.

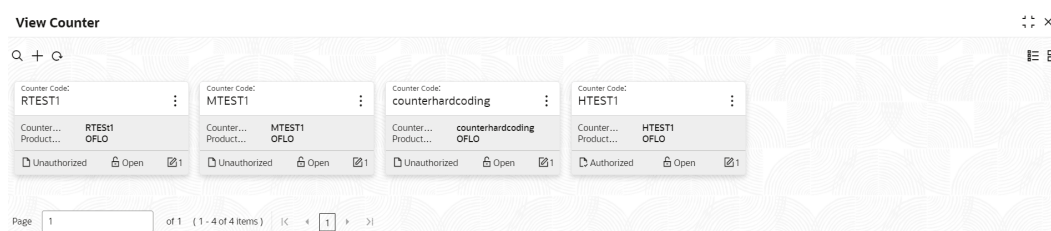
The user can configure the lookup using the [Create Counter](#) screen. The status of the created lookup is displayed as **Unauthorized** and **Open**. Once the checker authorizes the lookup, the status is updated to **Authorized** and **Open**.

Specify **User ID** and **Password**, and login to **Home** screen.

- On **Homescreen**, click **Core Maintenance**, under **Core Maintenance**, click **Credit Decision**.
- Under **Credit Decision**, click **Maintenance**, under **Maintenance**, click **Counter**, under **Counter**, click **View Counter**.

The **View Counter** screen displays.


**Figure 3-83 View Counter**



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

**Table 3-88 View Counter**

Field	Description
<b>Counter Code</b>	Displays the counter code.
<b>Counter Description</b>	Displays the description of the counter code.
<b>Product Processor</b>	Displays the product processor of the counter.
<b>Status</b>	Displays the status of the record.
<b>Modification Number</b>	Displays the number of modifications performed on the record.

- On **View Lookup** screen, click  icon.

The **View Counter - Search** screen displays.

Figure 3-84 View Counter - Search

**Search Filter** ✕

Counter Code

Counter Description

Authorization Status

Record Status

**Search** **Reset**


- On **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 3-89 View Counter – Search – Field Description

Field	Description
<b>Counter Code</b>	Specify the counter code.
<b>Counter Description</b>	Specify the counter description.
<b>Authorization Status</b>	Select the authorization status from the drop-down list. The available options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Select the record status from the drop-down list. The available options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>

- Click **Search** to display the required lookup.

6. On **View Counter** screen, click  icon to **Unlock, Delete, Authorize, or View** the created counter.
7. Click **Unlock** to modify the following fields.  
The **Counter Maintenance - Modify** screen displays.





**Figure 3-85** Lookup Maintenance - Modify

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

**Table 3-90** Counter Maintenance - Modify - Field Description

Field	Description
<b>Counter Code</b>	Displays the created counter code.
<b>Counter Description</b>	Displays the Counter Description. User can modify the same.
<b>Product Processor</b>	Displays the product processor of the created Counter code.
<b>Effective Date</b>	Displays the effective date of the created counter. User can modify the same before authorization if it is future dated.
<b>Expiry Date</b>	Displays the expiry date of the created counter. User can modify the same.
<b>Entity ID</b>	Displays the Entity IDs selected for created counter. User can modify the same.
<b>3</b>	User can modify the same

Table 3-90 (Cont.) Counter Maintenance - Modify - Field Description

Field	Description
	Click to get the information about the rule.
<b>Fact ID</b>	Displays the Fact IDs selected for created counter. User can modify the same.
<b>Frequency Description</b>	Displays the frequency description for the created counter. User can modify the same.
<b>Operation</b>	Displays the frequency for the created counter. User can modify the same.
<b>Period Basis</b>	Displays the period basis selected.
<b>Frequency</b>	Displays the frequency for the created counter. User can modify the same.
	Displays the number of frequencies selected.
	Click to get the information about the rule.
<b>Rule ID</b>	Displays the Rule ID for selected for the created Counter.
	Click to get the information about the rule.

8. Click **Save** to update the modified fields.
9. Click **View** to view the created counter.

The **Counter Maintenance - View** screen displays.

**Figure 3-86 Counter Maintenance - View**

**Counter Maintenance** ⌵ x

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**Basic Details**

Counter Code counterhardcoding	Counter Description counterhardcoding
Product Processor OFLO	Event ID DD_Branch_Cash-Withdrawal
Effective Date September 30, 2020	Expiry Date April 27, 2023

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**Fact Mapping**

Entity ID	Fact ID	Frequency Description	Operation	Period Basis	Frequency	Counter Enable	Rule ID
<input type="checkbox"/> AccountId, CollateralId <input type="text" value="2"/>	ttt	yyyyyy	Increase	Calendar	Quarterly, Half Yearly <input type="text" value="2"/>	<input type="checkbox"/>	Age_AggrRule <input type="checkbox"/>

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

**Table 3-91 Counter Maintenance - View - Field Description**






Field	Description
<b>Counter Code</b>	Displays the created counter code.
<b>Counter Description</b>	Displays the created counter description.
<b>Product Processor</b>	Displays the product processor of the created counter.
<b>Event ID</b>	Displays the ID for the created counter.
<b>Effective Date</b>	Displays the effective date for the created counter.
<b>Expiry Date</b>	Displays the expiry date for the created counter.
<b>Entity ID</b>	Displays the entity IDs for the created counter.
	Displays the number of the IDs selected.
	Click to get the information about the rule.
<b>Fact ID</b>	Displays the fact IDs for the created counter.
<b>Frequency Description</b>	Displays the frequency description of the created counter.
<b>Operation</b>	Displays the operation for the created counter.
<b>Period Basis</b>	Displays the period basis.
<b>Frequency</b>	Displays the frequencies selected for the created counter.

Table 3-91 (Cont.) Counter Maintenance - View - Field Description

Field	Description
	Displays the number for frequencies selected.
	Click to get the information about the rule.
<b>Rule ID</b>	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.

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.

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **Homescreen**, click **Core Maintenance**, under **Core Maintenance**, click **Credit Decision**.
2. Under **Credit Decision**, click **Maintenance**, under **Maintenance**, click **Charge Coded**, under **Charge Code**, click **Create Charge Code**.

The **Create Charge Code** screen displays.

Figure 3-87 Create Charge Code

- On **Create Charge Code** screen, specify the fields.

 **Note:**

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

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

Table 3-92 Create Charge Code

Field	Description
<b>Advance Charging</b>	Click the toggle status to enable the parameter. Indicates the definition is for advance or simple. By default, the status will be off.
<b>Charge Code</b>	Specify the unique code for the charge.
<b>Charge Description</b>	Specify a short description for the charge code.
<b>Product processor Code</b>	Select the product processor from the drop-down list for which the charge is being created.
<b>Product Processor Description</b>	Displays the description of the product processor code defined.
<b>Effective Date</b>	Specify the effective date.
<b>Expiry Date</b>	Specify the expiry date.
<b>Charging Currency</b>	Select the currency from the drop-down list.
<b>Rate Code</b>	Click on search and select from the list.
<b>Rate Type</b>	Select the rate type from the drop-down list. The available options are: <ul style="list-style-type: none"> <li>• <b>Buy</b></li> <li>• <b>Sell</b></li> <li>• <b>Mid</b></li> </ul>



Table 3-92 (Cont.) Create Charge Code

Field	Description
Per Annum Basis (Days)	Select the days from the drop-down list. The available options are: <ul style="list-style-type: none"> <li>• 360</li> <li>• 365</li> <li>• 366</li> </ul>
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.
Charge Type	Select the type from the drop-down list. The available options are: <ul style="list-style-type: none"> <li>• Fixed Amount</li> <li>• Fixed Percentage</li> <li>• Tiered</li> </ul>
Charge Amount	Specify the amount for the charge type. This field is visible if the <b>Charge Type</b> is selected as <b>Fixed Amount</b> .
Percentage (%)	Specify the percentage for the charge type. This field is visible if the <b>Charge Type</b> is selected as <b>Fixed Percentage</b> .
Minimum Amount	Specify the minimum amount to be charged. This field will not be visible if the <b>Charge Type</b> is selected as <b>Fixed Amount</b> .
Maximum Amount	Specify the maximum amount to be charged. This field will not be visible if the <b>Charge Type</b> is selected as <b>Fixed Amount</b> .
Tiered Charge Type	Select the tiered charge type from the drop-down list. The available options are: <ul style="list-style-type: none"> <li>• Amount</li> <li>• Percentage</li> <li>• Amount or Percentage</li> </ul> This field is visible if the <b>Charge Type</b> is selected as <b>Tiered</b> . The below option appears if the <b>Advance Charging</b> is enabled. <ul style="list-style-type: none"> <li>• Rule</li> <li>• Amount or Rule</li> <li>• Percentage or Rule</li> </ul>
Tier Type	Select from tier type the drop-down list. The available options are: <ul style="list-style-type: none"> <li>• Cumulative</li> <li>• Slab</li> </ul> This field is visible if the <b>Charge Type</b> is selected as <b>Tiered</b> .
Charge Per Count	Click on toggle status to enable the parameter. This field is visible if the <b>Charge Type</b> is selected as <b>Tiered</b> and <b>Tier Charge Type</b> as <b>Amount, Amount or Rule, and Rule</b> .

Table 3-92 (Cont.) Create Charge Code

Field	Description
<b>Tier Criteria</b>	Select the tier criteria from the drop-down list. The available options are: <ul style="list-style-type: none"> <li>• <b>Amount</b></li> <li>• <b>Period</b></li> <li>• <b>Amount or Period</b></li> </ul> The system will not allow use to select the above options if the <b>Tier Type</b> is selected as <b>Slab</b> .
<b>+ button</b>	Click to add a new row.
<b>- button</b>	Click to delete the row.
<b>Amount / Period / Amount or Period - From</b>	Specify the start value of the count range. This field is visible only if the <b>Charge Type</b> is selected as <b>Tiered</b> .
<b>Amount / Period / Amount or Period - To</b>	Specify the final value of the count range. This field is visible only if the <b>Charge Type</b> is selected as <b>Tiered</b> .
<b>Amount</b>	Specify the amount. This field is visible only if the <b>Charge Type</b> is selected as <b>Tiered</b> and <b>Tiered Charge Type</b> as <b>Amount</b> .
<b>Percentage</b>	Specify the charge percentage. This field is visible only if the <b>Charge Type</b> is selected as <b>Tiered</b> and <b>Tiered Charge Type</b> as <b>Percentage</b> .
<b>Output Option</b>	Select the option from which the output must be displayed. This field is visible only if the <b>Charge Type</b> is selected as <b>Tiered</b> and <b>Tiered Charge Type</b> as <b>Amount or Percentage</b> .
<b>Output</b>	Specify the output. This field is visible only if the <b>Charge Type</b> is selected as <b>Tiered</b> and <b>Tiered Charge Type</b> as <b>Amount or Percentage</b> .
<b>Basis of</b>	Select from the drop-down list. This field is visible only if <b>Charge Type</b> is selected as <b>Tiered</b> and <b>Advance Charging</b> is enabled.
<b>Rule</b>	Toggle to enable if the rule is applicable. This field is visible only if the <b>Advance Charging</b> and <b>Rule</b> is enabled and <b>Charge Type</b> is selected as <b>Fixed Amount</b> or <b>Fixed Percentage</b> .
<b>Rule ID</b>	Select the rule from the drop-down list. This field is visible if the <b>Advance Charging</b> and <b>Rule</b> is enabled.

Toggle the **Advance Charging** to link the list of features. This Feature is visible if the **Charge Type** is selected as **Tiered**.

4. Click + **Add/Edit column** to select and link the facts.

The **+ Add/Edit column** pop-up screen displays.

**Figure 3-88 Add Columns**

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

5. Select the facts names from the list. ( 'n' number of facts can be selected)
6. Click **Save** to link the features for defining the tiered charge type.

The **Create Charge Code - Tiered** screen displays.

**Figure 3-89 Create Charge Code - Tiered**

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

**Table 3-93 Create Charge Code - Tiered**

Field	Description
<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.

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

The **Create Charge Code** is successfully created and can be viewed using the screen.

## 3.17.2 View Charge Code

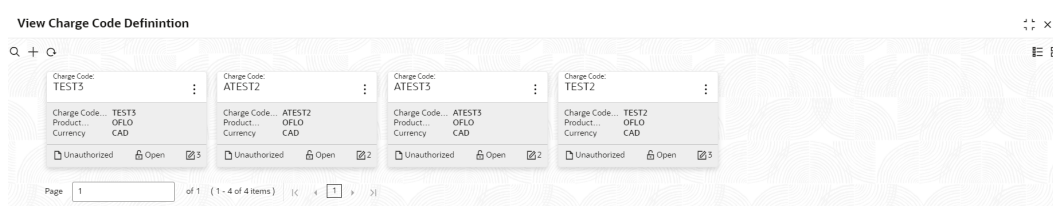
This topic describes the systematic instructions to view the charge code for Decision Service.

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**.

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **Homescreen**, click **Core Maintenance**, under **Core Maintenance**, click **Credit Decision**.
2. Under **Credit Decision**, click **Maintenance**, under **Maintenance**, click **Charge Code**, under **Charge Code**, click **View Charge Code**.

The **View Charge Code** screen displays.

**Figure 3-90 View Charge Code**


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

**Table 3-94 View Charge Code**

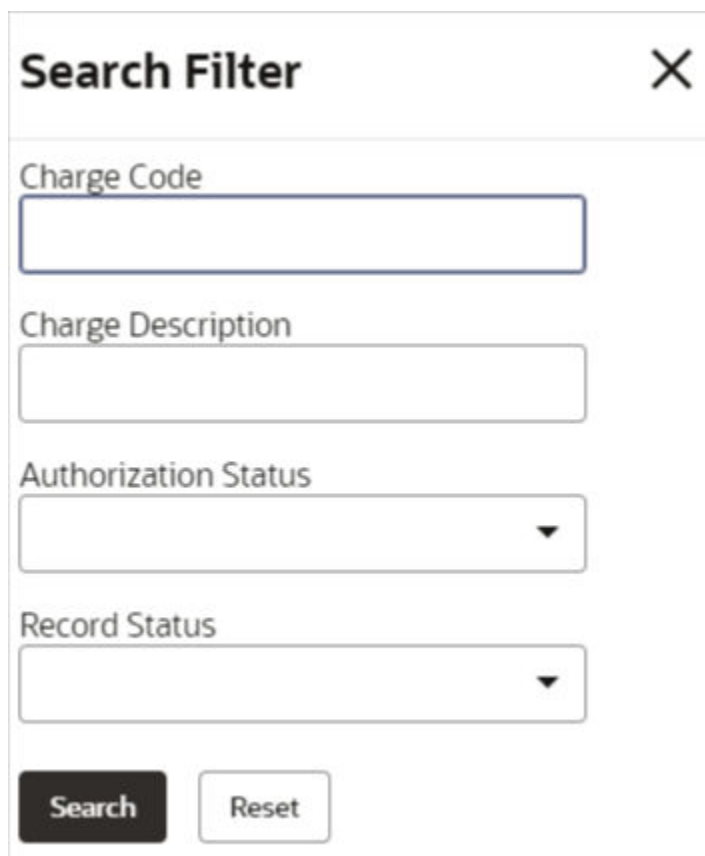
Field	Description
<b>Charge Code</b>	Displays the charge code.
<b>Charge Code Description</b>	Displays the description of the charge code.
<b>Product Processor Code</b>	Displays the product processor of the charge code.
<b>Charging Currency</b>	Displays the currency of the charge code.
<b>Status</b>	Displays the status of the record.

**Table 3-94 (Cont.) View Charge Code**

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

- On **View Charge Code** screen, click  icon.  
The **View Charge Code - Search** screen displays.

**Figure 3-91 View Charge Code - Search**



**Search Filter** ✕

Charge Code

Charge Description

Authorization Status

Record Status

**Search**

- On **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 3-95 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.

**Table 3-95 (Cont.) View Charge Code – Search – Field Description**

Field	Description
<b>Authorization Status</b>	Select the authorization status of the parameters. The available options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Select the record status of the parameters. The available options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>

5. Click **Search** to display the required lookup.



6. On **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 displays.

**Figure 3-92 Charge Code Maintenance - Modify**

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

Table 3-96 Charge Code Maintenance - Modify - Field Description


Field	Description
<b>Charge Code</b>	Displays the created charge code.
<b>Charge Description</b>	Displays the description for the created charge code. User can modify the same.
<b>Product Processor Code</b>	Displays the product processor of the created charge code.
<b>Product Processor Description</b>	Displays the product processor of the created charge code.
<b>Effective Date</b>	Displays the effective date for the created charge code. User can modify the same if the date is future dated.
<b>Expiry Date</b>	Displays the expiry date for the created charge code. User can modify the same.
<b>Charging Currency</b>	Displays the type of the currency. User can modify the same.
<b>Rate Code</b>	Displays the rate code for the created charge code. User can modify the same.
<b>Rate Type</b>	Displays the rate type for the created charge code. User can modify the same.
<b>Per Annum Basis (Days)</b>	Displays the numbers of the days for the created code. User can modify the same.
<b>Charge in Txn Currency</b>	Displays the toggle status for the created charge code. User can modify the same.
<b>Charge Type</b>	Displays the type for the created charge code. User can modify the same.
<b>Charge Amount</b>	Displays the amount for the created charge code. User can modify the same. This field is displayed if the <b>Charge Type</b> is selected as <b>Fixed Amount</b> .
<b>Percentage (%)</b>	Displays the percentage for the created charge code. User can modify the same. This field is displayed if the <b>Charge Type</b> is selected as <b>Fixed Percentage</b> .
<b>Minimum Amount</b>	Displays the minimum amount. User can modify the same. This field will be displayed if the <b>Charge Type</b> is selected as <b>Fixed Percentage</b> or <b>Tiered</b> and <b>Tier Charge Type</b> as <b>Percentage/Amount or Percentage</b> .

Table 3-96 (Cont.) Charge Code Maintenance - Modify - Field Description

Field	Description
Maximum Amount	Displays the maximum amount. User can modify the same.  This field will be displayed if the <b>Charge Type</b> is selected as <b>Fixed Percentage or Tiered</b> and <b>Tier Charge Type</b> as <b>Percentage/Amount or Percentage</b> .
Tiered Charge Type	Displays the charge type for the created charge code. User can modify the same.  This field is displayed if the <b>Charge Type</b> is selected as <b>Tiered</b> .
Tier Type	Displays the tier type for the created charge code. User can modify the same.  This field is displayed if the <b>Charge Type</b> is selected as <b>Tiered</b> .
Change Per Count	Displays the toggle status for the created charge code. User can modify the same.  This field is displayed if the <b>Charge Type</b> is selected as <b>Tiered</b> and <b>Tier Charge Type</b> as <b>Amount, Amount or Rule, or Rule</b> .
Tier Criteria	Displays the tier criteria for the created charge code. User can modify the same.  This field is displayed if the <b>Charge Type</b> is selected as <b>Tiered</b> .
+ 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 <b>Charge Type</b> is selected as <b>Tiered</b> .
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 <b>Charge Type</b> is selected as <b>Tiered</b> .
Amount	Displays the charge amount. User can modify the same.  This field is visible only if the <b>Charge Type</b> is selected as <b>Tiered</b> and <b>Tiered Charge Type</b> as <b>Amount</b> .
Percentage	Displays the charge percentage. User can modify the same.  This field is visible only if the <b>Charge Type</b> is selected as <b>Tiered</b> and <b>Tiered Charge Type</b> as <b>Percentage</b> .



**Table 3-96 (Cont.) Charge Code Maintenance - Modify - Field Description**

Field	Description
<b>Output Option</b>	Displays the output option selected. User can modify the same.  This field is visible only if the <b>Charge Type</b> is selected as <b>Tiered</b> and <b>Tiered Charge Type</b> as <b>Amount or Percentage</b> .
<b>Output</b>	Displays the output. This field is visible only if the <b>Charge Type</b> is selected as <b>Tiered</b> and <b>Tiered Charge Type</b> as <b>Amount or Percentage</b> .
<b>Basis of</b>	Displays the basis of selected from the drop-down list. User can modify the same.  This field is visible only if <b>Charge Type</b> is selected as <b>Tiered</b> and <b>Advance Charging</b> is enabled.
<b>Rule ID</b>	Displays the rule selected.
	Click this icon to get the information about the rule.

8. Click **Save** to update the modified fields.
9. Click **View** to view the created counter.

**The Charge Code Maintenance - View**

**Figure 3-93 Charge Code Maintenance - View**

Charge Code Maintenance ⌵ ×

**Basic Details**

<p>Advance Charging <input type="checkbox"/></p> <p>Charge Code TEST5</p> <p>Product Processor Code OPLD</p> <p>Effective Date Sep 30, 2020</p> <p>Charging Currency CAD</p> <p>Per Annum Basis(Days) Select</p>	<p>Charge Description TEST5</p> <p>Product Processor Description OPLD</p> <p>Expiry Date Jan 25, 2023</p> <p>Rate Code</p> <p>Charge In Tax Currency <input type="checkbox"/></p>
--	---

**Charge Computation Details**

<p>Charge Type Tiered</p> <p>Tier Type Cumulative</p> <p>Minimum Amount</p>	<p>Tiered Charge Type Amount or Percentage</p> <p>Tier Criteria Amount and Period</p> <p>Maximum Amount</p>
---	---

**Add columns to define Charges**

+ Add/Edit Column

	Amount	To	Period	From	To	Output Option	Output
<input type="checkbox"/>	1	10	1	10		Amount Percentage	CAS10.00 1
<input type="checkbox"/>	10	11	10	11		Amount Percentage	1


Audit

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

**Table 3-97 Charge Code Maintenance - View - Field Description**

Field	Description
<b>Charge Code</b>	Displays the created charge code.
<b>Charge Description</b>	Displays the description for the created charge code.
<b>Product Processor Code</b>	Displays the product processor of the created charge code.
<b>Product Processor Description</b>	Displays the product processor of the created charge code.
<b>Effective Date</b>	Displays the effective date for the created charge code.
<b>Expiry Date</b>	Displays the expiry date for the created charge code.
<b>Charging Currency</b>	Displays the type of the currency.
<b>Rate Code</b>	Displays the rate code for the created charge code.
<b>Rate Type</b>	Displays the rate type for the created charge code.
<b>Per Annum Basis (Days)</b>	Displays the numbers of the days for the created code.
<b>Charge in Txn Currency</b>	Displays the toggle status for the created charge code.
<b>Charge Type</b>	Displays the type for the created charge code.
<b>Charge Amount</b>	Displays the amount for the created charge code. This field is displayed if the <b>Charge Type</b> is selected as <b>Fixed Amount</b> .
<b>Percentage (%)</b>	Displays the percentage for the created charge code. This field is displayed if the <b>Charge Type</b> is selected as <b>Fixed Percentage</b> .
<b>Minimum Amount</b>	Displays the minimum amount. This field will be displayed if the <b>Charge Type</b> is selected as <b>Fixed Percentage</b> or <b>Tiered</b> and <b>Tier Charge Type</b> as <b>Percentage/Amount</b> or <b>Percentage</b> .
<b>Maximum Amount</b>	Displays the maximum amount. This field will be displayed if the <b>Charge Type</b> is selected as <b>Fixed Percentage</b> or <b>Tiered</b> and <b>Tier Charge Type</b> as <b>Percentage/Amount</b> or <b>Percentage</b> .
<b>Tiered Charge Type</b>	Displays the charge type for the created charge code. This field is displayed if the <b>Charge Type</b> is selected as <b>Tiered</b> .

Table 3-97 (Cont.) Charge Code Maintenance - View - Field Description

Field	Description
<b>Tier Type</b>	Displays the tier type for the created charge code. This field is displayed if the <b>Charge Type</b> is selected as <b>Tiered</b> .
<b>Change Per Count</b>	Displays the toggle status for the created charge code. This field is displayed if the <b>Charge Type</b> is selected as <b>Tiered</b> and <b>Tier Charge Type</b> as <b>Amount, Amount or Rule, or Rule</b>
<b>Tier Criteria</b>	Displays the tier criteria for the created charge code. This field is displayed if the <b>Charge Type</b> is selected as <b>Tiered</b> .
<b>Amount / Period / Amount or Period - From</b>	Displays the start value of the count range. This field is visible only if the <b>Charge Type</b> is selected as <b>Tiered</b> .
<b>Amount / Period / Amount or Period - To</b>	Displays the final value of the count range. This field is visible only if the <b>Charge Type</b> is selected as <b>Tiered</b> .
<b>Amount</b>	Displays the charge amount. This field is visible only if the <b>Charge Type</b> is selected as <b>Tiered</b> and <b>Tiered Charge Type</b> as <b>Amount</b> .
<b>Percentage</b>	Displays the charge percentage. This field is visible only if the <b>Charge Type</b> is selected as <b>Tiered</b> and <b>Tiered Charge Type</b> as <b>Percentage</b> .
<b>Output Option</b>	Displays the output option selected. This field is visible only if the <b>Charge Type</b> is selected as <b>Tiered</b> and <b>Tiered Charge Type</b> as <b>Amount or Percentage</b> .
<b>Output</b>	Displays the output. This field is visible only if the <b>Charge Type</b> is selected as <b>Tiered</b> and <b>Tiered Charge Type</b> as <b>Amount or Percentage</b> .
<b>Basis of</b>	Displays the basis of selected from the drop-down list. This field is visible only if <b>Charge Type</b> is selected as <b>Tiered</b> and <b>Advance Charging</b> is enabled.
<b>Rule ID</b>	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.

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **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 displays.

**Figure 3-94 View Execution Summary**

Product Processor	Request Type	Contract ID	Request Reference Number	Internal Reference Number	Execution Date	Mode	Status
▶ OFLD	Borrowing Capacity	777	BaCDKwTTPWaoDQwWTFHaaOSVnYTFBaaOSvOTFnaCDKwTTPB...	03b699-5342-4c04-9d55-d07057a0889e	Sep 30, 2020	Online	<span style="color: red;">Failure</span>
▶ OFLD	Borrowing Capacity	777	SdLYVSTHFTSLyVSTFJULyVSTFNySLyVSTFwSLyVSTFwSLyV...	548042e-ee6-4f63-0144-23bcca78b89	Sep 30, 2020	Online	<span style="color: red;">Failure</span>
▶ OMC		123	UyngBTHngBTHngBTHngBTHngBTHngBTHngBTHngBTHngB...	40020A-2016-4772-0563-aec95cb84e	Sep 30, 2020	Online	<span style="color: red;">Failure</span>
▶ OMC		123	nyymdBTgnyymdBThgloymdBThgloymdBThgloymdBThglo...	87a0726a-56f7-4232-996f-4c4f7976a4e4	Sep 30, 2020	Online	<span style="color: red;">Failure</span>
▶ OFLD	Pricing	123	yfZGcWhgBtXGcWhgBtXGcWhgBtXGcWhgBtXGcWhgBtXG...	0642476b-4696-4999-84f7-c12b265a068	Sep 30, 2020	Online	<span style="color: red;">Failure</span>

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



**Table 3-98 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.

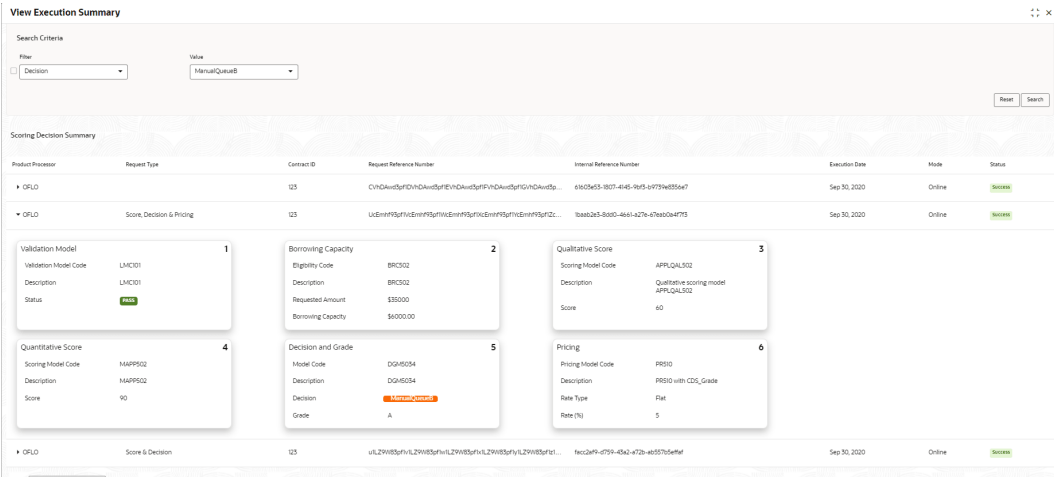


**Table 3-99 Scoring Decision Summary - Field Description**

Field	Description
<b>Product Processor</b>	View the name of the product processor that sent the request.
<b>Request Type</b>	View the request type sent by product processor.
<b>Contract ID</b>	View the contract ID sent by the product processor.
<b>Reference Number</b>	View the request reference number sent by product processor.
<b>Internal Reference Number</b>	View the internal reference number of the application.
<b>Execution Date</b>	View the execution date of the processing application.
<b>Mode</b>	View the mode of execution of the application.
<b>Status</b>	View the status of the processed application.

- 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 mouseover, the color of the widget changes to indicate that the widget is selectable.
- 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 3-96 View Execution Summary**



The screenshot displays the 'View Execution Summary' interface. At the top, there is a search criteria section with a filter dropdown set to 'Decision' and a value dropdown set to 'ManualQueueB'. Below this is a table titled 'Scoring Decision Summary' with columns for Product Processor, Request Type, Contract ID, Request Reference Number, Internal Reference Number, Execution Date, Mode, and Status. The table shows two records, with the second record expanded to show a detailed view of six widgets:

- Validation Model (1):** Validation Model Code: LMC101, Description: LMC101, Status: Success
- Borrowing Capacity (2):** Eligibility Code: BRC502, Description: BRC502, Requested Amount: \$35000, Borrowing Capacity: \$40000.00
- Qualitative Score (3):** Scoring Model Code: APPL\_QAL502, Description: Qualitative scoring model APPL\_QAL502, Score: e0
- Quantitative Score (4):** Scoring Model Code: MAAP502, Description: MAAP502, Score: 90
- Decision and Grade (5):** Model Code: DQ45054, Description: DQ45054, Decision: ManualQueueB, Grade: A
- Pricing (6):** Pricing Model Code: PR502, Description: PR502 with CDC\_Grade, Rate Type: Flat, Rate (%): 5

At the bottom, there is a pagination bar showing 'Page 1 of 1 (1 - 3 of 3 items)'.

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

Table 3-100 View Execution Summary - Field Description

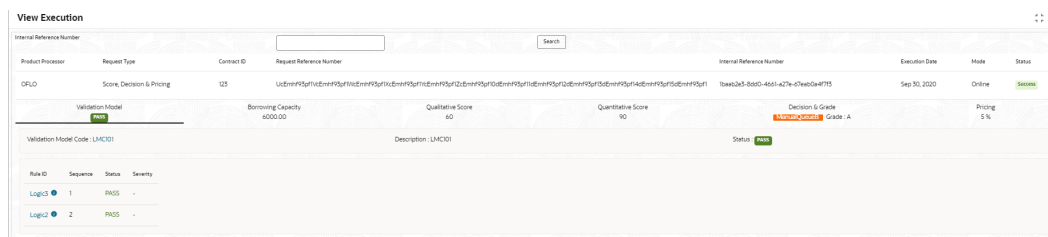
Field	Description
<b>Validation Model Widget</b>	Displays the status of the validation model processed.
<b>Validation Model Code</b>	Displays the validation model code, resolved for credit decision.
<b>Description</b>	Displays the validation model description, resolved for the credit decision.
<b>Status</b>	Displays the status of the validation model processed. <ul style="list-style-type: none"> <li>For status <b>Pass</b>, the color is shown as <b>Green</b>.</li> <li>For status <b>Fail</b>, the color is shown as <b>Red</b>.</li> </ul>
<b>Borrowing Capacity Widget</b>	Displays the maximum lendable amount that can be given for an application.
<b>Eligibility Code</b>	Displays the eligibility model code, resolved for calculating the borrowing capacity.
<b>Description</b>	Displays the eligibility model description, resolved for calculating the borrowing capacity.
<b>Requested Amount</b>	Displays the requested amount for the lending application.
<b>Borrowing Capacity</b>	Displays the maximum lendable amount that can be given for the application.
<b>Qualitative Score Widget</b>	Displays the qualitative credit score, post credit decision of the application.
<b>Scoring Model Code</b>	Displays the scoring model code, resolved for credit decision. <ul style="list-style-type: none"> <li>When <b>Is Application Decision Required</b> is <b>Yes</b>, the application level decision scoring code is displayed.</li> <li>When <b>Is Application Decision Required</b> is <b>No</b>, the applicant level decision scoring code is displayed.</li> <li>When <b>Is Application Decision Required</b> is <b>No</b>, and <b>Is Primary Applicant</b> is <b>No</b>, the application level decision scoring code is displayed.</li> </ul>
<b>Description</b>	Displays the scoring model description, resolved for credit decision.
<b>Score</b>	Displays the qualitative credit score post credit decision of the application. <ul style="list-style-type: none"> <li>When <b>Is Application Decision Required</b> is <b>Yes</b>, 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.</li> <li>When <b>Is Application Decision Required</b> is <b>No</b>, the score is displayed by resolving the applicant level scoring model.</li> <li>When <b>Is Application Decision Required</b> is <b>No</b>, and <b>Is Primary Applicant</b> is <b>No</b>, 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.</li> </ul>
<b>Quantitative Score Widget</b>	Displays the quantitative credit score post credit decision of the application.

**Table 3-100 (Cont.) View Execution Summary - Field Description**

Field	Description
<b>Scoring Model Code</b>	Displays the scoring model code, resolved for credit decision. <ul style="list-style-type: none"> <li>When <b>Is Application Decision Required</b> is <b>Yes</b>, the application level decision scoring code is displayed.</li> <li>When <b>Is Application Decision Required</b> is <b>No</b>, the applicant level decision scoring code is displayed.</li> <li>When <b>Is Application Decision Required</b> is <b>No</b>, and <b>Is Primary Applicant</b> is <b>No</b>, the multi applicant level scoring code is displayed.</li> </ul>
<b>Description</b>	Displays the scoring model description, resolved for credit decision.
<b>Score</b>	Displays the quantitative credit score, post credit decision of the application. <ul style="list-style-type: none"> <li>When <b>Is Application Decision Required</b> is <b>Yes</b>, 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.</li> <li>When <b>Is Application Decision Required</b> is <b>No</b>, the score is displayed by resolving the applicant level scoring model.</li> <li>When <b>Is Application Decision Required</b> is <b>No</b>, and <b>Is Primary Applicant</b> is <b>No</b>, the score is displayed by resolving the multi applicant level scoring model.</li> </ul>
<b>Decision and Grade Widget</b>	Displays the credit decision and scoring grade, taken for the application.
<b>Model Code</b>	Displays the model code, resolved for credit decision and grade.
<b>Description</b>	Displays the model description, resolved for credit decision and grade.
<b>Decision</b>	Displays the credit decision, taken for the application.
<b>Grade</b>	Displays the scoring grade, post credit decision of the application.
<b>Pricing Widget</b>	Displays the rate applicable post credit decision.
<b>Pricing Model Code</b>	Displays the pricing model code, resolved for credit decision.
<b>Description</b>	Displays the pricing model description, resolved for credit decision.
<b>Rate Type</b>	Displays the rate type applicable post credit decision.
<b>Rate %</b>	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 3-97 Validation Model Widget**



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

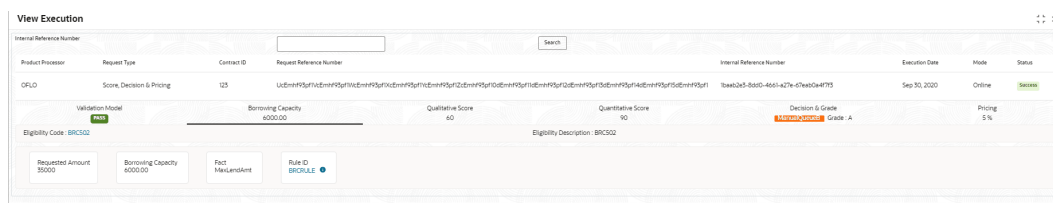


Table 3-101 Validation Model Widget - Field Description

Field	Description
<b>Product Processor</b>	Displays the name of the product processor that sent the request. This field will be shown on click of each widget.
<b>Request Type</b>	Displays the request type sent by the product processor. This field will be shown on click of each widget.
<b>Contract ID</b>	Displays the contract ID sent by the product processor. This field will be shown on click of each widget.
<b>Request Reference Number</b>	Displays the request reference number sent by product processor. This field will be shown on click of each widget.
<b>Internal Reference Number</b>	Displays the internal reference number of the application. This field will be shown on click of each widget.
<b>Execution Date</b>	Displays the execution date of the processing application. This field will be shown on click of each widget.
<b>Mode</b>	Displays the mode of execution of the application. This field will be shown on click of each widget.
<b>&lt;Validation Model Code&gt;</b>	Displays the validation model code that is resolved for credit decision. Click the hyper link to view the rule executed to resolve the model.
<b>Show Rule Log</b>	Click to see the rule log.
	Click to expand the rule.
<b>Expression</b>	Displays the expression of the rule.
<b>Input</b>	Displays the input of the rule.
<b>Value</b>	Displays the value of the rule.
<b>Description</b>	Displays the description of the validation model.
<b>Status</b>	Displays the status of validation model.
<b>Rule ID</b>	Displays the rule ID executed for validation model processing. Click the hyperlink to view the rule executed.
<b>Show Rule Log</b>	Click to see the rule log.
	Click to expand the rule.
<b>Expression</b>	Displays the expression of the rule.
<b>Input</b>	Displays the input of the rule.
<b>Value</b>	Displays the value of the rule.
<b>Sequence</b>	Displays the sequence in which the rules are executed for validation model processing.
<b>Status</b>	Displays the status of the rule execution. In case the status is failed, the reason for failure is displayed as <b>Reason &lt;&gt;</b> . The options are: <ul style="list-style-type: none"> <li>• <b>Pass</b></li> <li>• <b>Not Executed</b> - This status is displayed against a rule if the <b>Stop on Failure</b> is set as <b>ON</b> and previous rule sequence has failed.</li> </ul>

The following fields are displayed once the user click the **Borrowing Capacity** widget.

**Figure 3-98 Borrowing Capacity Widget**



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

**Table 3-102 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.

Figure 3-99 Qualitative Score Widget – Bar Graph View

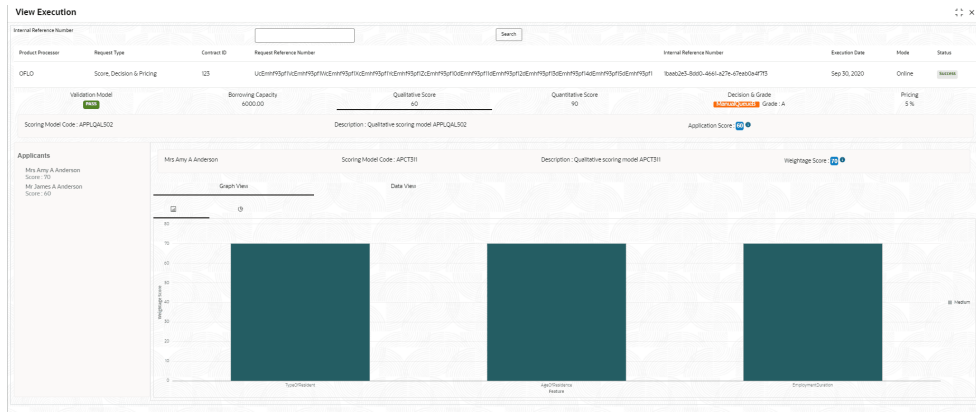


Figure 3-100 Qualitative Score Widget – Pie Graph View

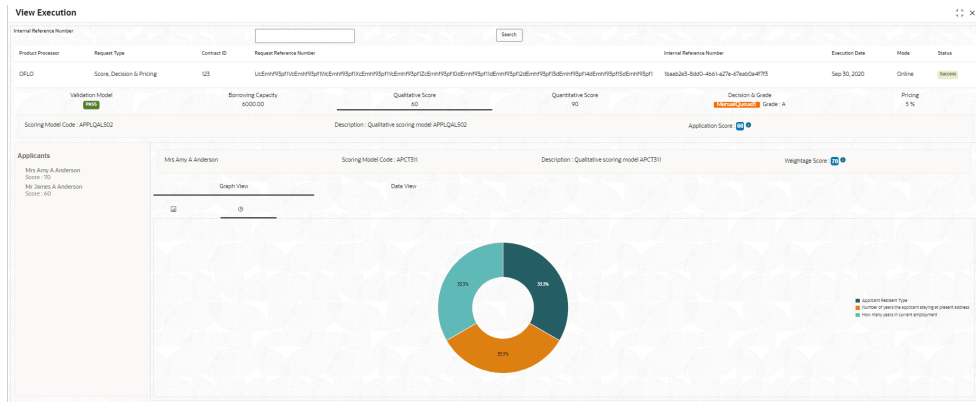




Figure 3-101 Qualitative Score Widget – Data View

Question Code	Question	Value	Score
TypeOfResidence	Applicant Resident Type	Rented	70
AgeOfResidence	Number of years the applicant staying at present address	Less than 2 year	70
EmploymentDuration	How many years in current employment	Less than 2 year	70

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

Table 3-103 Qualitative Score Widget - Field Description

Field	Description
<Scoring Model Code>	<p>Displays the scoring model code resolved for credit decision.</p> <ul style="list-style-type: none"> <li>When <b>Is Application Decision Required</b> is <b>Yes</b>, the application level decision scoring code is displayed.</li> <li>When <b>Is Application Decision Required</b> is <b>No</b>, the applicant level decision scoring code is displayed.</li> <li>When <b>Is Application Decision Required</b> is <b>No</b> and <b>Is Primary Applicant</b> is <b>No</b>, the application level scoring code is displayed.</li> </ul>
Description	Displays the scoring model description resolved for credit decision.
Weightage Score/ Application Score	<p>Displays the qualitative credit score post credit decision of the application.</p> <ul style="list-style-type: none"> <li>When <b>Is Application Decision Required</b> is <b>Yes</b>, the field name is displayed as <b>Application Score</b>. 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.</li> <li>When <b>Is Application Decision Required</b> is <b>No</b>, the field name is displayed as <b>Weightage Score</b>. The score is displayed by resolving the applicant level scoring model.</li> <li>When <b>Is Application Decision Required</b> is <b>No</b>, and <b>Is Primary Applicant</b> is <b>No</b>, the field name is displayed as <b>Application Score</b>. 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.</li> </ul>
	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>	<p>Displays the weighted credit score post credit decision of the application.</p> <p>The score is calculated for each applicant by resolving the applicant level scoring model.</p>
<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.
	Hover this icon to get the information about the formula for calculation of score.

**Table 3-103 (Cont.) Qualitative Score Widget - Field Description**

Field	Description
<b>Graph View</b>	<p>Two graphical views are available.</p> <ul style="list-style-type: none"> <li><b>Bar Graphs</b> The details are shown as a graphical representation as bar charts. <ul style="list-style-type: none"> <li>List of question ID on the <b>X-axis</b></li> <li>Score on the <b>Y-axis</b>.</li> </ul> </li> </ul> <p>Based on the evaluation of the category, the questions are shown in a particular color based on the maintenance done in the lookups screen.</p> <ul style="list-style-type: none"> <li><b>Pie Charts</b> The details are shown as a graphical representation as pie charts. The calculation logic for the question is <math>(\text{Score of the question} / \text{Weightage score of the applicant}) * 100</math>. The pie is shown from a pool of colors available/defined in the code.</li> </ul>
<b>Data View</b>	The scoring details are shown as mentioned below in data view.
<b>Question Code</b>	Displays the question code resolved for the applicant in the scoring model.
<b>Question</b>	Displays the question description resolved for the applicant in the scoring model.
<b>Value</b>	Displays the response received for the question in the payload.
<b>Score</b>	<p>Displays the score calculated for the question based on the range and the response.</p> <p>In case any question was optional for which the response was not received, <b>NA</b> will be displayed.</p>

The following fields are displayed once you click the **Quantitative Score** widget.

**Figure 3-102 Quantitative Score Widget – Bar Graph View**

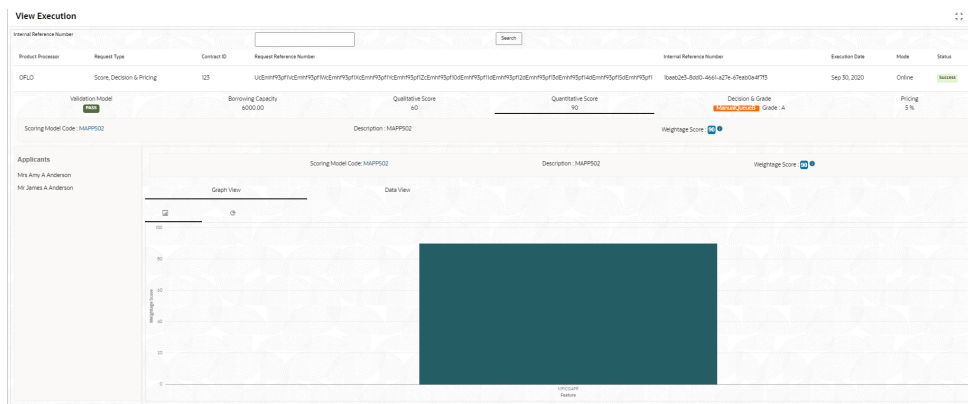


Figure 3-103 Quantitative Score Widget – Pie Graph View

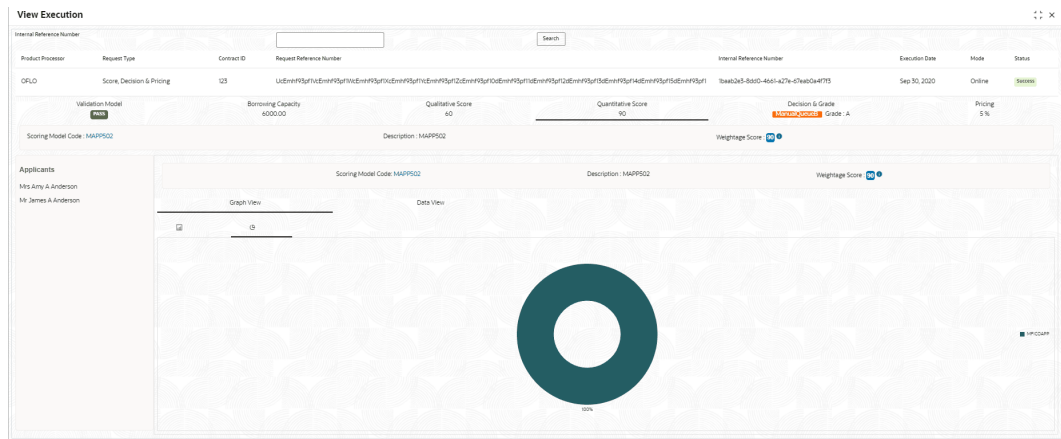
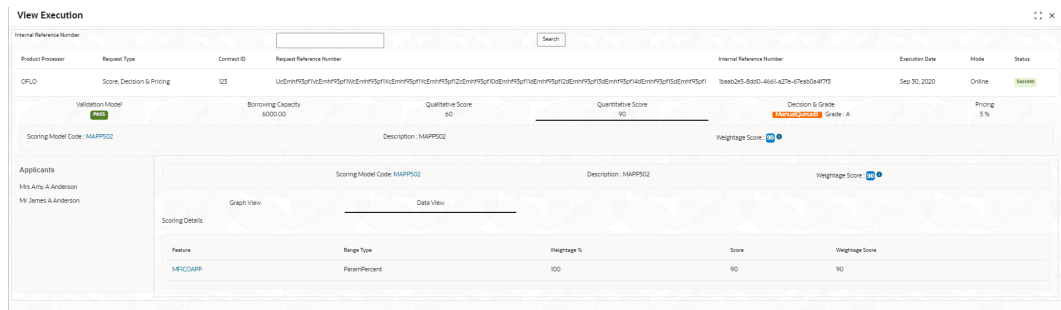


Figure 3-104 Quantitative Score Widget – Data View



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

Table 3-104 Quantitative Score Widget - Field Description






Field	Description
<Scoring Model Code>	<p>Displays the scoring model code resolved for credit decision.</p> <ul style="list-style-type: none"> <li>When <b>Is Application Decision Required</b> is <b>Yes</b>, the applicationlevel decision scoring code is displayed.</li> <li>When <b>Is Application Decision Required</b> is <b>No</b>, the applicant level decision scoring code is displayed.</li> <li>When <b>Is Application Decision Required</b> is <b>No</b> and <b>Is Primary Applicant</b> is <b>No</b>, the multi applicant level scoring code is displayed.</li> </ul> <p>Click the hyperlink to view the rule executed to resolve the quantitative score.</p>
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.

Table 3-104 (Cont.) Quantitative Score Widget - Field Description

Field	Description
<b>Description</b>	Displays the scoring model description resolved for credit decision.
<b>Weightage Score</b>	<p>Displays the weightage score post credit decision of the application.</p> <ul style="list-style-type: none"> <li>When <b>Is Application Decision Required</b> is <b>Yes</b>, 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.</li> <li>When <b>Is Application Decision Required</b> is <b>No</b>, the score is displayed by resolving the applicant level scoring model.</li> <li>When <b>Is Application Decision Required</b> is <b>No</b> and <b>Is Primary Applicant</b> is <b>No</b>, the score is displayed by resolving multi applicant level scoring model.</li> </ul> <p>In case of <b>Is Application Decision Required</b> is <b>Yes</b>, the system displays the hyperlink on the weightage score value. It shows the aggregate rule details.</p>
<b>&lt;Applicant Name&gt;</b>	Displays the applicant names present in the application.
<b>&lt;Score&gt;</b>	<p>Displays the weighted credit score post credit decision of the application.</p> <p>The score is calculated for each applicant by resolving the applicant level scoring model.</p> <p>In case of multi applicant scenario, weightage score per applicant is not shown.</p>
<b>&lt;Applicant Name&gt;</b>	Displays the applicant names present in the application.
<b>Scoring Model Code</b>	<p>Displays the applicant level scoring model code resolved for credit decision.</p> <p>Applicant level scoring model is applicable for the below case.</p> <ul style="list-style-type: none"> <li>If <b>Is Application Decision required</b> is <b>Yes</b></li> <li>If <b>Is Application Decision Required</b> is <b>No</b>, and <b>Is Primary Applicant</b> is <b>Yes</b></li> </ul> <p>Multi applicant level scoring model is applicable in the below case.</p> <p>If <b>Is Application Decision Required</b> is <b>No</b>, and <b>Is Primary Applicant</b> is <b>No</b>.</p> <p>Click the hyperlink to view the rule executed to resolve the quantitative score.</p>
<b>Show Rule Log</b>	Click to see the rule log.
	Click to expand the rule.
<b>Expression</b>	Displays the expression of the rule.
<b>Input</b>	Displays the input of the rule.
<b>Value</b>	Displays the value of the rule.
<b>Description</b>	Displays the applicant scoring model description.
<b>Weightage Score</b>	<p>Displays the weighted credit score post credit decision of the application.</p> <p>The weightage score is calculated for each applicant by resolving the applicant scoring model.</p> <p>In case of multi applicant scoring model, for both the applicant the same score is shown since the score is not calculated per applicant.</p>

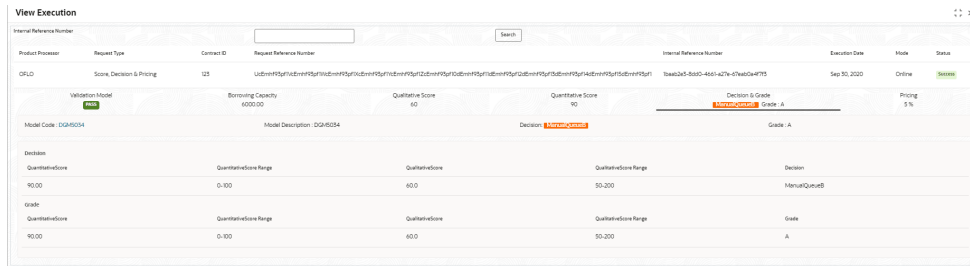
**Table 3-104 (Cont.) Quantitative Score Widget - Field Description**

Field	Description
	Hover this icon to get the information about the formula for calculation of score.
<b>Graph View</b>	<p>Two graphical views are available.</p> <ul style="list-style-type: none"> <li>• <b>Bar Graphs</b> The details are shown as a graphical representation as bar charts. <ul style="list-style-type: none"> <li>• List of features on the <b>X</b>-axis</li> <li>• Weightage Score on the <b>Y</b>-axis.</li> </ul> Based on the evaluation of the category, the feature are shown in a particular color based on the maintenance done in the lookups screen. <div style="border-left: 2px solid #0070C0; padding-left: 10px; margin: 10px 0;"> <p> <b>Note:</b></p> <p>For Multi Applicant scoring model all graphs is shown in the same color, as category evaluation is not applicable.</p> </div> <ul style="list-style-type: none"> <li>• <b>Pie Charts</b> 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.</li> </ul> </li></ul>
<b>Data View</b>	The scoring details are shown as mentioned below in data view.
<b>Feature</b>	Displays the features resolved for the applicant in the scoring model. Click the hyperlink to view the rule executed to resolve the quantitative score.
<b>Show Rule Log</b>	Click to see the rule log.
	Click to expand the rule.
<b>Expression</b>	Displays the expression of the rule.
<b>Input</b>	Displays the input of the rule.
<b>Value</b>	Displays the value of the rule.
<b>Value</b>	Displays the value of the feature.
<b>Range Type</b>	Displays the range type for the feature.
<b>Range</b>	Displays the range resolved for the feature value for score resolution.
<b>Weightage %</b>	Displays the weightage defined for the feature in the scoring model.
<b>Score</b>	Displays the score calculated for the feature based on the range and feature value.
<b>Weightage Score</b>	Displays the weighed credit score post credit decision of the application.

The following fields are displayed once you click the **Decision and Grade** widget.






**Figure 3-105 Decision and Grade Widget**




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

**Table 3-105 Decision and Grade Widget - Field Description**

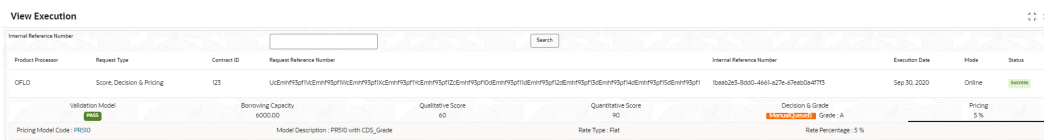
Field	Description
<Model Code>	Displays the model code resolved for credit decision and grade.
Show Rule Log	Click to see the rule log.
	Click to expand the rule.
Expression	Displays the expression of the rule.
Input	Displays the input of the rule.
Value	Displays the value of the rule.
Model Description	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.

**Table 3-105 (Cont.) Decision and Grade Widget - Field Description**

Field	Description
<b>Input</b>	Displays the input of the rule.
<b>Value</b>	Displays the value of the rule.
<b>Qualitative Score</b>	Displays the qualitative score calculated for the application. If the feature is rule based, system displays the hyperlink.
<b>Show Rule Log</b>	Click to see the rule log.
	Click to expand the rule.
<b>Expression</b>	Displays the expression of the rule.
<b>Input</b>	Displays the input of the rule.
<b>Value</b>	Displays the value of the rule.
<b>Qualitative Score Range</b>	Displays the range resolved for the qualitative score value for score resolution.
<b>Quantitative Score</b>	Displays the quantitative score calculated for the application.
<b>Quantitative Score Range</b>	Displays the range resolved for the quantitative score value for score resolution.
<b>Grade</b>	Displays the scoring grade taken for the application.


The following fields are displayed once you click the **Pricing** widget.

**Figure 3-106 Pricing Widget**



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

**Table 3-106 Pricing Widget - Field Description**

Field	Description
<b>&lt;Pricing Model Code&gt;</b>	Displays the pricing model code resolved for credit decision. Click the hyperlink to view the rule executed to resolve the pricing model.
<b>Show Rule Log</b>	Click to see the rule log.
	Click to expand the rule.
<b>Expression</b>	Displays the expression of the rule.
<b>Input</b>	Displays the input of the rule.
<b>Value</b>	Displays the value of the rule.
<b>Model Description</b>	View the pricing model description resolved for credit decision.
<b>Rate Type</b>	View the rate type applicable post credit decision.
<b>Rate Percentage</b>	View the rate applicable post credit decision.

**Table 3-106 (Cont.) Pricing Widget - Field Description**

Field	Description
<b>Loan Amount</b>	View the eligible loan amount for the application.
<b>Loan Tenure</b>	View the loan tenure for the application.
<b>Loan Amount Range</b>	View the range resolved for the loan amount value.
<b>Loan Tenure Range</b>	View the range resolved for the loan tenure value.
<b>Rate %</b>	View the rate applicable post credit decision.

## 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.

#### 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.

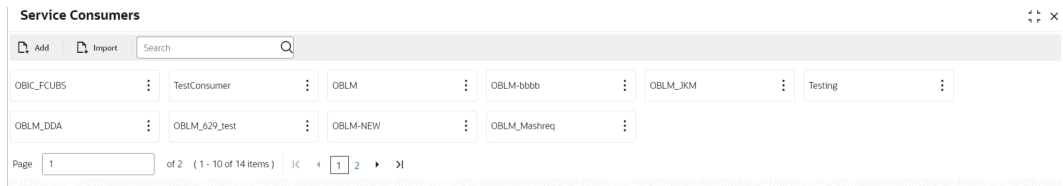
The **Service Consumer** comprises the source and destination integration details.

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Routing Hub**.
2. Under **Routing Hub**, click **Service Consumers**.

The **Service Consumers** screen displays.

**Figure 3-107 Service Consumers**

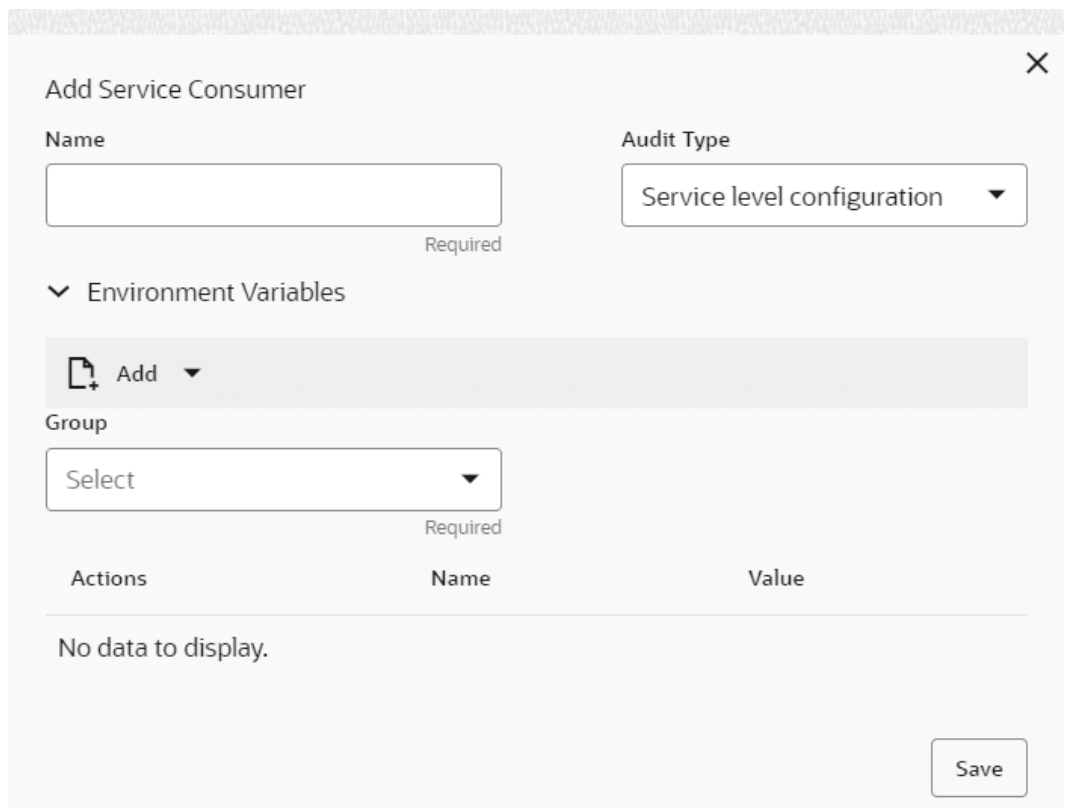


**Add Service Consumer**

3. Click **Add**.

The **Add Service Consumer** screen displays.

**Figure 3-108 Add Service Consumer**




4. Specify the fields on **Add Service Consumer** screen.

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

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

**Table 3-107 Add Service Consumer - Field Description**

Field	Description
<b>Name</b>	Specify the name of the service consumer.  <div style="border: 1px solid #ccc; background-color: #e6f2ff; padding: 10px;"> <p> <b>Note:</b></p> <ul style="list-style-type: none"> <li>• Enter 0 to maximum of 255 characters.</li> <li>• No numeric value at beginning and no space allowed.</li> </ul> </div>
<b>Add</b>	To add, refer to step 5. Select the group from the drop-down list. The available options are: <ul style="list-style-type: none"> <li>• <b>Group</b></li> <li>• <b>Variable</b></li> </ul>
<b>Group</b>	Select the group from the drop-down list.
<b>Action</b>	Displays the action. The user can edit or delete the header.
<b>Name</b>	Displays the name of the header.
<b>Value</b>	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 displays.

**Figure 3-109 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 3-108 Add Environment Group - Field Description**

Field	Description
<b>Name</b>	Specify the name of the environment group.  <div data-bbox="803 651 933 693" data-label="Section-Header"> <p> <b>Note:</b></p> </div> <ul style="list-style-type: none"> <li>• Enter 0 to maximum of 255 characters.</li> <li>• No numeric value at beginning and no space allowed.</li> </ul>

- c. Click **Add** on **Add Service Consumer** screen and select **Variable** from drop-down list to add the variable.

The **Add Environment Variable** screen displays.

**Figure 3-110 Add Environment Variable**




- d. Specify the fields on **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.

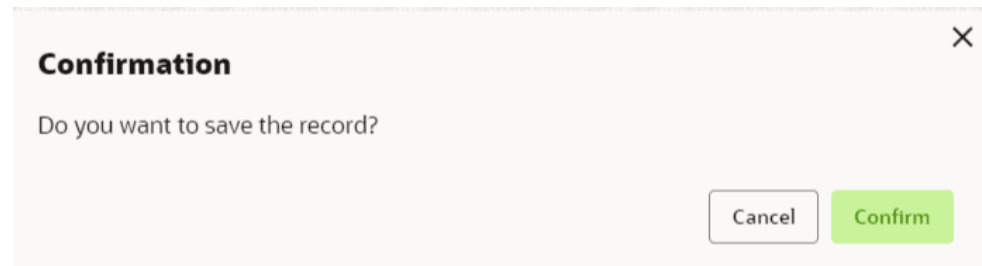
**Table 3-109 Add Environment Variable - Field Description**

Field	Description
<b>Name</b>	Specify the name of the environment variable.  <div style="border: 1px solid #ccc; background-color: #e6f2ff; padding: 10px;"> <p> <b>Note:</b></p> <ul style="list-style-type: none"> <li>• Enter 0 to maximum of 255 characters.</li> <li>• No numeric value at beginning and no space allowed.</li> </ul> </div>
<b>Value</b>	Specify the value of the environment variable. The value can either be hardcoded or Velocity mapping.

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

The **Confirmation** screen displays.

**Figure 3-111 Confirmation - Add Service Consumers**



7. Click **Confirm** to save the record.

**Import Service Consumer**

8. Click **Import**.

The **Import Service Consumer** screen displays.

**Figure 3-112 Import Service Consumer**

The screenshot shows a dialog box titled "Import Service Consumer" with a close button (X) in the top right corner. The dialog contains the following elements:

- File:** A text input field followed by "Select" and "Extract" buttons.
- Name:** A text input field with the label "Required" below it.
- Overwrite extended templates:** Radio buttons for "Yes" and "No", with "No" selected.
- Service Providers:** A section header with a dropdown arrow, followed by a table with one column header "Name" and a checkbox. Below the table, it says "No data to display."
- Import:** A button at the bottom right of the dialog.

- Specify the fields on **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 3-110 Import Service Consumer - Field Description**

Field	Description
<b>File</b>	Select the file using <b>Select</b> .  <b>Note:</b> Allows only to select one file and accepts only JSON file.
<b>Extract</b>	Extracts the consumer name and service provider list from JSON file and displays it in the respective elements.

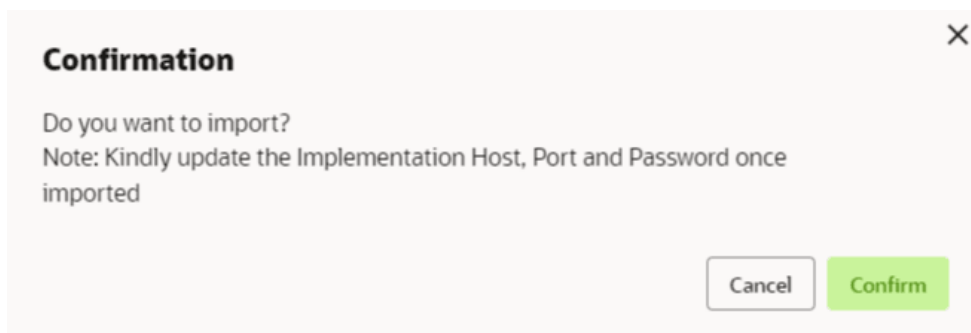


**Table 3-110 (Cont.) Import Service Consumer - Field Description**


Field	Description
<b>Name</b>	Specify the name of the service provider.  <div style="border-left: 2px solid #0070C0; border-right: 2px solid #0070C0; border-bottom: 2px solid #0070C0; padding: 5px; background-color: #E6F2FF;"> <p> <b>Note:</b></p> <ul style="list-style-type: none"> <li>• Enter 0 to maximum of 255 characters.</li> <li>• No numeric value at beginning and no space allowed.</li> </ul> </div>
<b>Name</b>	Displays the list of service providers names that are present in JSON file.

10. Click **Import** to import the selected file.  
The **Confirmation** screen displays.

**Figure 3-113 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 3 dots button (operation menu) and click **View**.  
The **View Service Consumer** screen displays.

**Figure 3-114 View Service Consumer**

View Service Consumer

Name: OBLM\_Mashreq

Audit Type: Select

Environment Variables: ▼

Group: Select

Actions	Name	Value
No data to display.		

The user can click edit button to edit the **Service Consumer**.

**Edit Service Consumer**

- Click 3 dots button (operation menu) and click **Edit**.

The **Edit Service Consumer** screen displays.

**Figure 3-115 Edit Service Consumer**

Edit Service Consumer

Name: OBLM\_Mashreq

Audit Type: Select (Required)

Environment Variables: ▼ Add

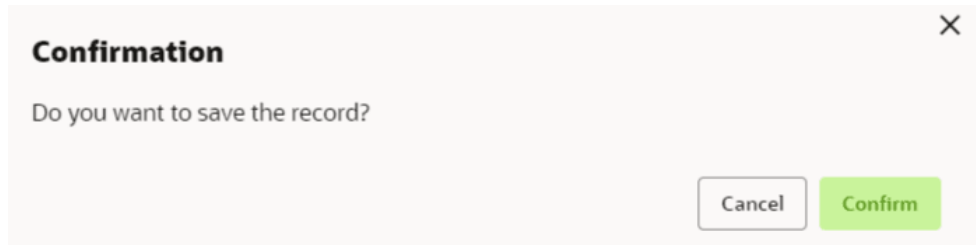
Group: Select (Required)

Actions	Name	Value
No data to display.		

Save

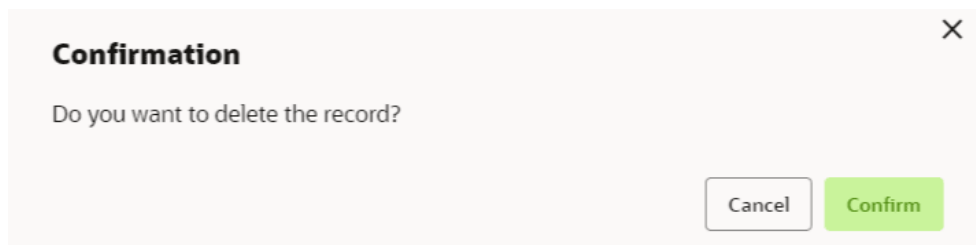
14. Click **Save** once the edit is done.  
The **Confirmation** screen displays.

**Figure 3-116 Confirmation - Edit Service Consumer**



15. Click **Confirm** to save the record.
- Delete Service Consumer**
16. Click 3 dots button (operation menu) and click **Delete**.  
The **Confirmation** screen displays.

**Figure 3-117 Confirmation - Delete Service Consumer**



17. Click **Confirm** to delete the record.
- Export Service Consumer in JSON**
18. Click 3 dots button (operation menu) and click **Export**. Select **JSON**.  
The **Export Service Consumer** screen displays.

**Figure 3-118 Export Service Consumer - JSON**

Export Service Consumer

Name  
OBLM\_Mashreq

Service Providers

Name

FCUBS-IFService 14.5

FCUBS-CoreService 14.5

OBLM\_Mashreq-Service 14.4

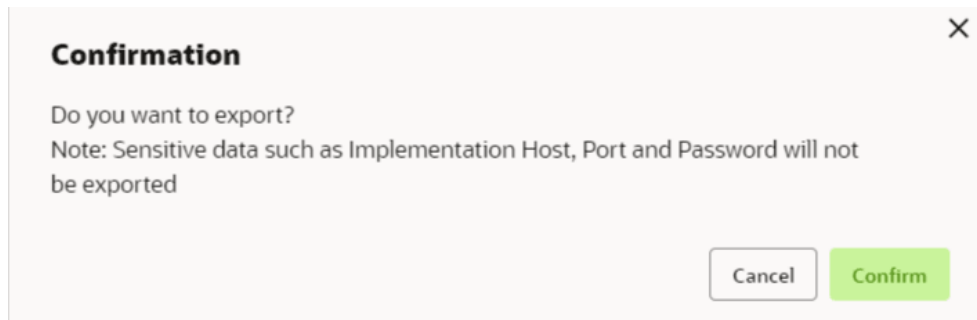
Export

**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 appears.

**Figure 3-119 Confirmation - Export Service Consumer in JSON**



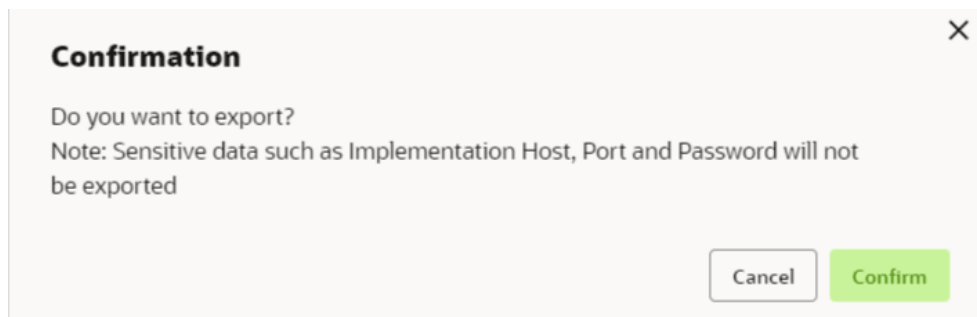
20. Click **Confirm** to export in JSON.

#### **Export Service Consumer in SQL**

21. Click **Export** and select **SQL**.

The **Confirmation** screen appears.

**Figure 3-120 Confirmation**



#### **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.

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **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 displays.

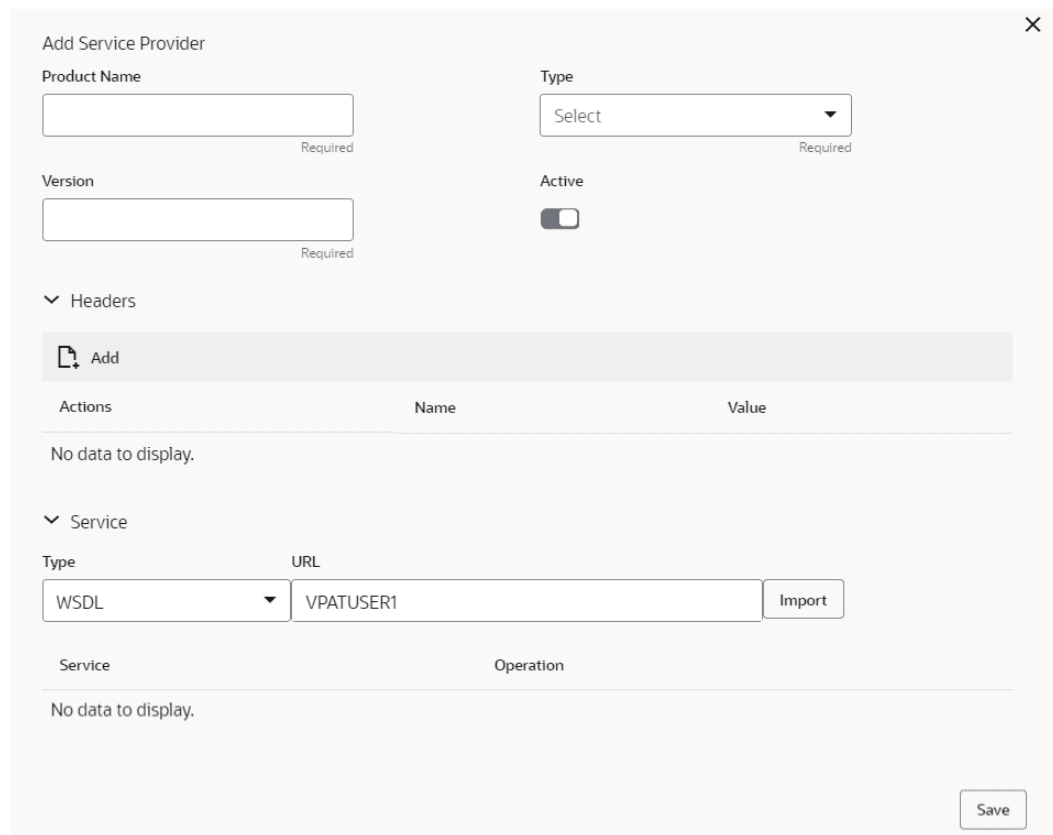
**Figure 3-121 Service Providers**



**To Add Service Provider**

4. Click **Add**.  
The **Add Service Provider** screen displays.

**Figure 3-122 Add Service Provider**





5. Specify the fields on **Add Service Provider** screen.

 **Note:**

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

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

**Table 3-111 Add Service Provider - Field Description**

Field	Description
<b>Product Name</b>	Specify the product name of the service provider.   <b>Note:</b> <ul style="list-style-type: none"> <li>• Enter 0 to maximum of 255 characters.</li> <li>• No numeric value at beginning and no space allowed.</li> </ul>
<b>Type</b>	Select the type of service provider from drop-down list The available options are: <ul style="list-style-type: none"> <li>• <b>INTERNAL</b></li> <li>• <b>EXTERNAL</b></li> </ul>
<b>Version</b>	Specify the provider version.   <b>Note:</b> <ul style="list-style-type: none"> <li>• Enter 0 to maximum of 255 characters.</li> <li>• Only numeric or decimal values are allowed.</li> </ul>
<b>Active</b>	Predefined values are Active / Inactive If provider is marked as inactive, then all related routes will be stopped.
<b>Add</b>	To add, refer to step 4.
<b>Actions</b>	Displays the action. The user can edit or delete the header.
<b>Name</b>	Displays the name of the header.
<b>Value</b>	Displays the value of the header.
<b>Type</b>	Select the type of service from drop-down list. The available options are: <ul style="list-style-type: none"> <li>• <b>WSDL</b></li> <li>• <b>SWAGGER</b></li> </ul>
<b>URL</b>	Specify the service URL of the file location.
<b>Import</b>	Click <b>Import</b> to extract the service information from URL.
<b>Service</b>	Displays the extracted service from the selected URL.
<b>Operation</b>	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 displays.

**Figure 3-123 Add Header**

- b. Specify the fields on **Add Header** screen and click **OK**.

 **Note:**

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

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

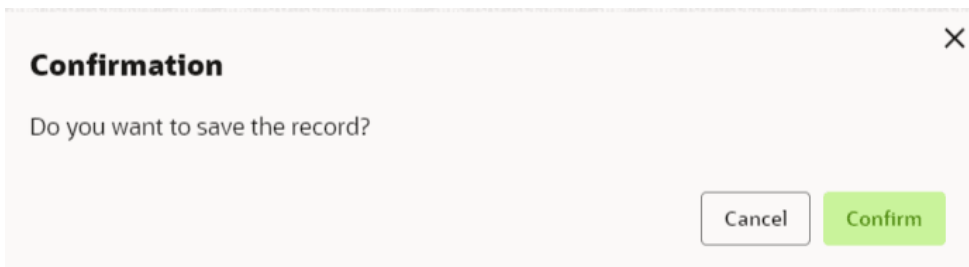
**Table 3-112 Add Header - Field Description**

Field	Description
<b>Name</b>	Specify the name of the header.
<b>Value</b>	Specify the value of the header.

7. Click **Save** to save the details.  
The **Confirmation** screen displays.

**Figure 3-124 Confirmation**





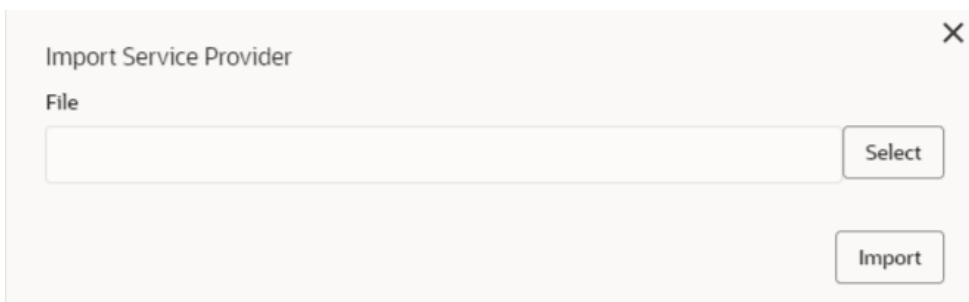
8. Click **Confirm** to save the record.


**Import Service Provider**

9. Click **Import**.

The **Import Service Provider** screen displays.


**Figure 3-125 Import Service Provider**



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

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

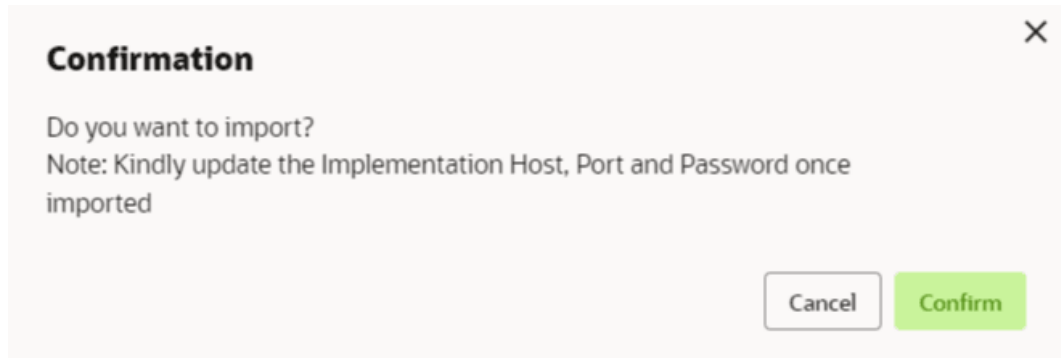
**Table 3-113 Import Service Provider - Field Description**

Field	Description
<b>File</b>	<p>Select the file using <b>Select</b> button.</p> <p> <b>Note:</b> Allows only to select one file and accepts only JSON file.</p>

10. Click **Import** to import the selected file.

The **Confirmation** screen displays.

**Figure 3-126 Confirmation - Import**



 **Note:**

Below data needs to be changed after importing provider configuration file:

- Implementation Host and Port
- Implementation Authentication Password

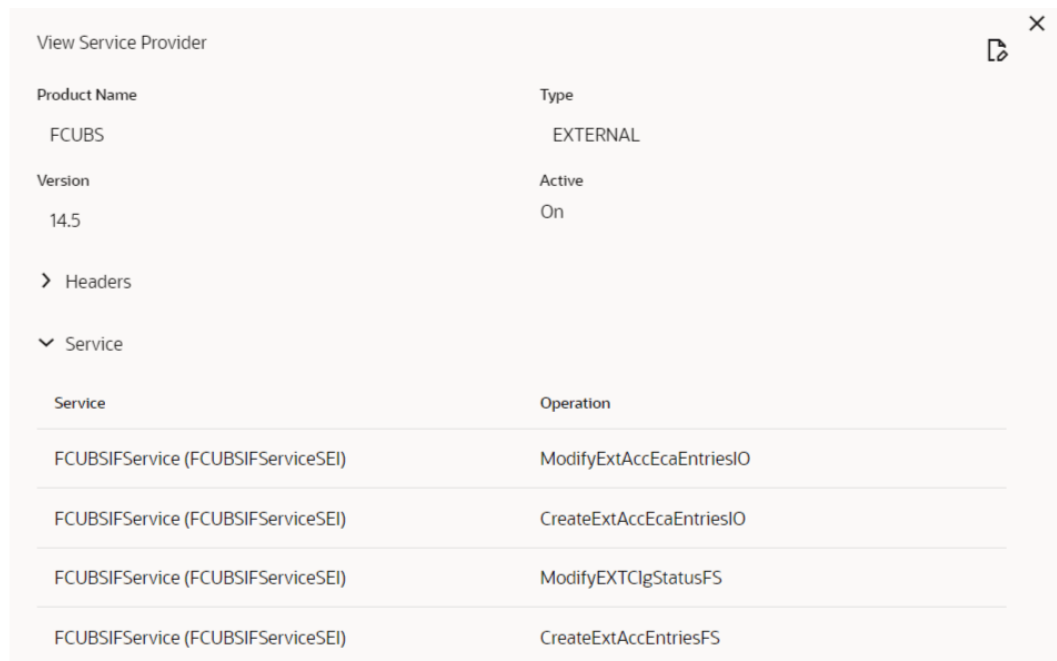
11. Click **Confirm** to import the record.

**View Service Provider**

12. Click 3 dots button (operation menu) and click **View**.

The **View Service Provider** screen displays.

**Figure 3-127 View Service Provider**



The user can click edit button to edit the **Service Provider**.

### Edit Service Provider

13. Click 3 dots button (operation menu) and click **Edit**.

The **Edit Service Provider** screen displays.

**Figure 3-128 Edit Service Provider**

Product Name: FCUBS

Version: 14.5

Type: EXTERNAL

Active:

Headers

Actions: No data to display.

Service

Service	Operation
FCUBSIFService (FCUBSIFServiceSEI)	ModifyExtAccEcaEntriesIO
FCUBSIFService (FCUBSIFServiceSEI)	CreateExtAccEcaEntriesIO
FCUBSIFService (FCUBSIFServiceSEI)	ModifyEXTClgStatusFS
FCUBSIFService (FCUBSIFServiceSEI)	CreateExtAccEntriesFS

Save

14. Click **Save** once the edit is done.

The **Confirmation** screen displays.

**Figure 3-129 Confirmation - Edit Service Provider**

**Confirmation**

Do you want to save the record?

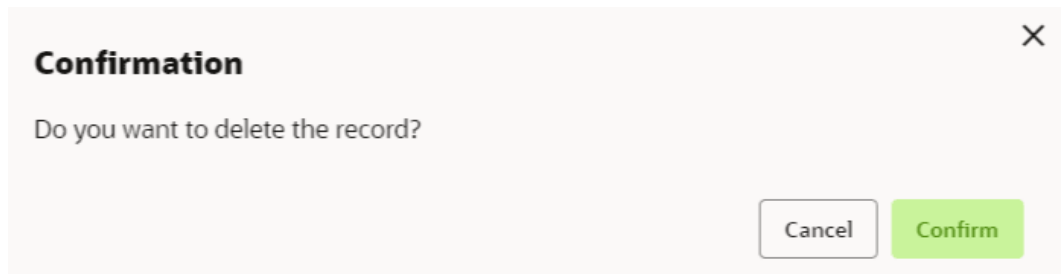
Cancel Confirm

15. Click **Confirm** to save the record.

#### Delete Service Provider

16. Click 3 dots button (operation menu) and click **Delete**.  
The **Confirmation** screen displays.

**Figure 3-130 Confirmation - Delete Service Provider**

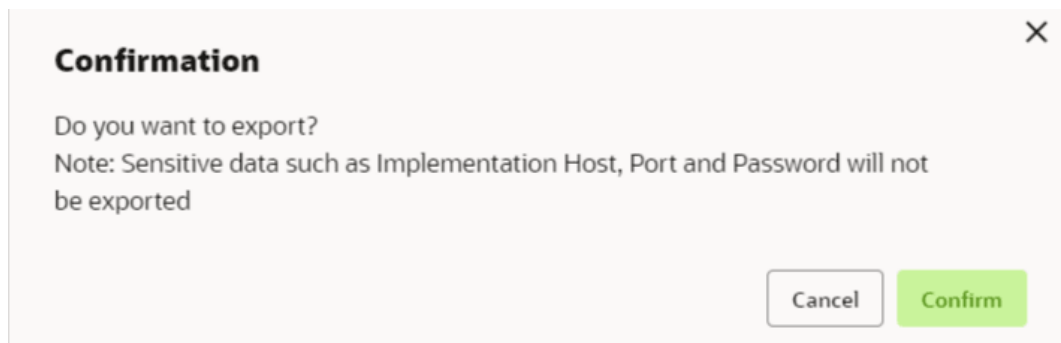


17. Click **Confirm** to delete the record.

#### Export Service Provider

18. Click 3 dots button (operation menu) and click **Export**.  
The **Confirmation** screen displays.

**Figure 3-131 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.

## 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 3-132 Fetch Credit Decision – Header**

The screenshot displays the 'View Transformation' configuration interface. The main configuration details are as follows:

- Name:** FCUBS-CREATEEXTACCEAENTRIES
- Active:** On
- Product Processor:** FCUBS-IFService 14.4
- Implementation:** FCUBS-IFService\_Default
- Service:** FCUBSIFService (FCUBSIFServiceSE)
- Operation:** CreateExtAccEcaEntriesFS
- Headers:** No data to display.
- Request Transformation:**
  - Template Type:** VELOCITY
  - Template:**

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:fcub="http://fcubs.ofss.com/service/FCUBSCoreService"><soapenv:Header/><soapenv:Body>
<CREATEEXTACCEAENTRIES_FSFS_REQ xmlns="http://fcubs.ofss.com/service/FCUBSIFService">
<FCUBS_HEADER>
<SOURCE>EXTSYS</SOURCE>
</CREATEEXTACCEAENTRIES_FSFS_REQ>
</soapenv:Body>
</soapenv:Envelope>
```
  - Extended Template:** (Empty)

**Figure 3-133 Fetch Credit Decision – Transformation**

✕
📄

**View Transformation**

<b>Name</b>	<b>Active</b>
TRANSFORMATION1	On

▼ Product Processor

<b>Product Processor</b>	<b>Implementation</b>
EXPERIAN 14.4	EXPERIAN_Default

Service

CreditReports - /v2/credit-report

▼ Service

<b>Service</b>	<b>Operation</b>
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

<b>Body Type</b>	<b>Template Type</b>
RAW	VELOCITY

Template

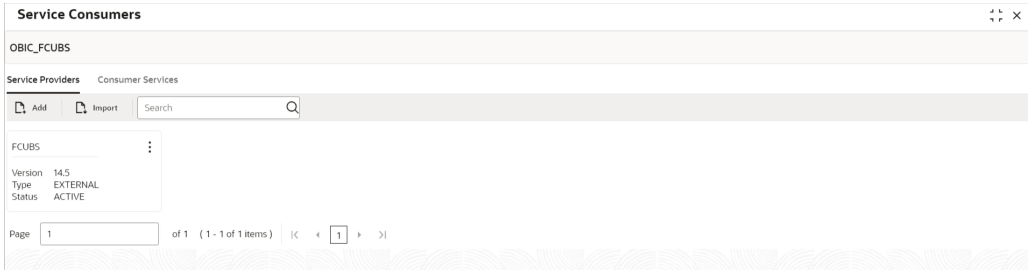
```

{
  #set($body = $snapshot.get(0).body)
  "consumerPii": {
    "primaryApplicant": {
      "name": {

```

Extended Template

Figure 3-134 Consumer Services



# 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 annotated 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:

- [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

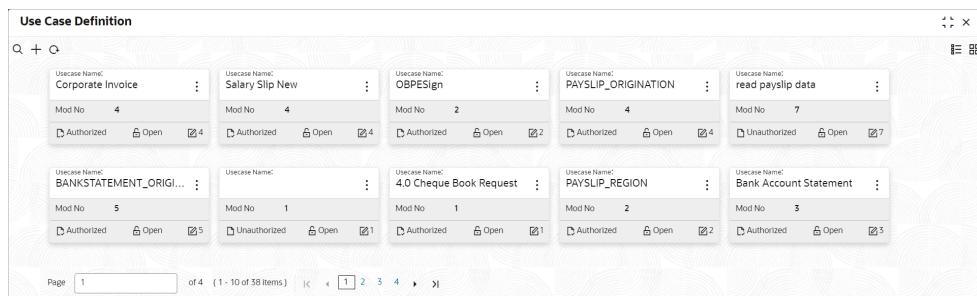
This topic describes the systematic instructions to view the list of defined use cases.

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **Home** screen, click **Machine Learning**. Under **Machine Learning**, click **NLP Toolkit**.
2. Under **NLP Toolkit**, click **Use Case Definition**.

The **Use Case Definition** screen displays.

**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
<b>Usecase Name</b>	Displays the name of the use case.
<b>Mod No</b>	Displays the modification number.
<b>Authorization Status</b>	Displays the authorization status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Displays the status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>
<b>Modification Number</b>	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.

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **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 displays.

**Figure 4-2 Tag Maintenance**

4. specify the fields on **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
<b>Use Case Name</b>	Specify unique use case name. It gets populated on <b>Save</b> , from the last folder name from the Training Corpus Path (DOC).
<b>Description</b>	Specify use case description.
<b>Mod No</b>	Displays modification number.
<b>Straight Through Processing</b>	Select one the options. <ul style="list-style-type: none"> <li>• <b>Yes</b> = Unattended</li> <li>• <b>No</b> = Attended</li> </ul>
<b>Use Case Tags/ Entities</b>	Specifies the use case tags entities.
<b>Tag Display Sequence</b>	Displays the sequence of tags.
<b>Tag Screen Display</b>	Displays the business name of the tag.

Table 4-2 (Cont.) Tag Maintenance – Field Description

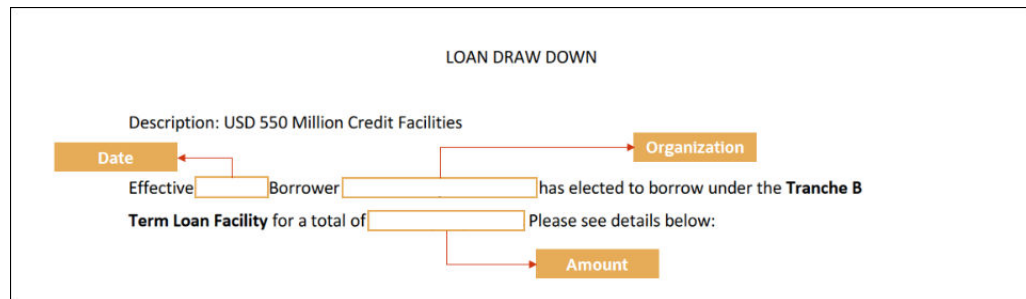
Field	Description
Tag Name	Displays the technical name of the tag.
Annotation Tag	Used to identify tags to be used in training.
Default Value	Default value for tags not used for training.

## 4.1.2 Annotator

This topic describes the information about the annotator.

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.

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **Home** screen, click **Machine Learning**. Under **Machine Learning**, click **NLP Toolkit**.
2. Under **NLP Toolkit**, click **Annotator**.

The **Annotator** screen displays.

Figure 4-4 Annotator

3. Specify the fields on **Annotator** screen.

 **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
<b>Action Type</b>	Select the action type. The available options are: <ul style="list-style-type: none"> <li>• <b>Create New Annotated File</b></li> <li>• <b>Edit Created Annotated File</b></li> </ul>
<b>Source File Definition</b>	Select the source document from local windows explorer based on the <b>Action Type</b> selected.
<b>Document Type</b>	Displays the list of all the use cases defined under use case definition.
<b>Get Labels</b>	Displays the maintained Tags/entities for the selected <b>Document Type</b> .
<b>Create Annotated File</b>	Once annotations of all the Tags are completed, this performs two outcomes as below, <ul style="list-style-type: none"> <li>• Create annotated text file in the defined NER train path as maintained under use case definition.</li> <li>• Create text file in the defined DOC train path as maintained under use case definition.</li> </ul>

**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.

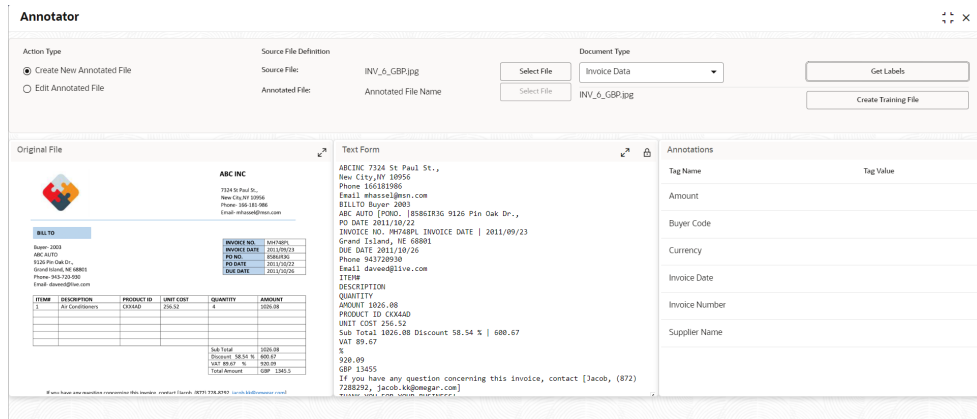
- Navigate and select the source document to be annotated.

The **Original File** section displays the source document and the **Text Form** section displays the text version of the document.

- Click **Get Labels**.

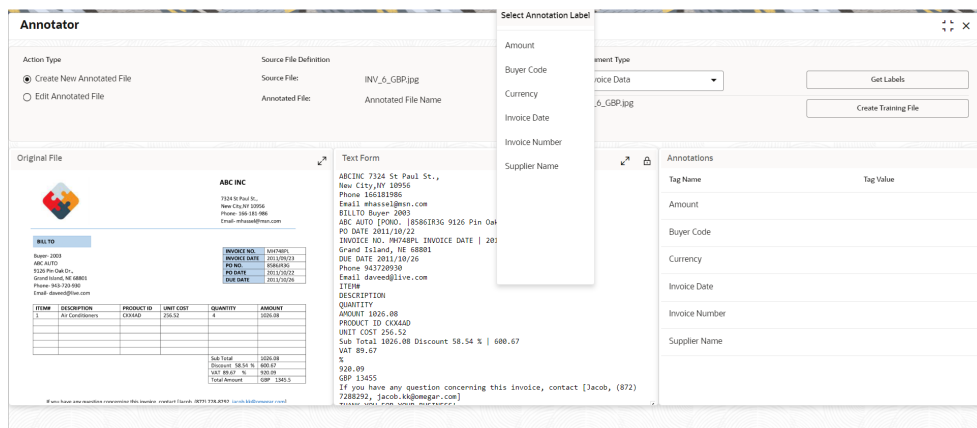
The **Annotations** section displays all the maintained tags for the selected Document Type.

**Figure 4-5 Annotator - List of Tags**



- Identify and select the information within the **Text Form** section.
- Right-click to display the list of tags.

**Figure 4-6 Annotator - Select Annotation Label**



- Select the relevant tag.

The **Annotations** section displays the information under Tag Name and Tag Value fields.

Figure 4-7 Annotator - Annotations

The screenshot shows the Annotator application interface. At the top, there are controls for Action Type (Create New Annotated File, Edit Annotated File), Source File Definition (Source File: INV\_6\_GBP.jpg, Annotated File: Annotated File Name), and Document Type (Invoice Data). Below this, the Original File and Text Form sections display the content of the source document. The Original File section shows a logo and contact information for ABC INC. The Text Form section shows the invoice details, including invoice number, date, and amount. On the right, the Annotations section lists various tags and their values.

ITEM	DESCRIPTION	PRODUCT ID	UNIT COST	QUANTITY	AMOUNT
1	As Conditions	CRMAAD	256.52	4	1026.08

Tag Name	Tag Value
Amount	1026.08
Buyer Code	2005
Currency	GBP
Invoice Date	2011/09/23
Invoice Number	MH748PL
Supplier Name	ABCINC

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.

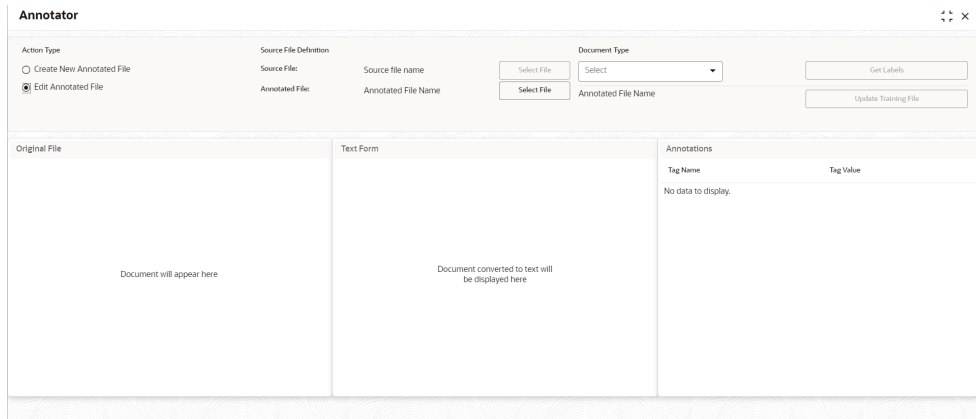
#### 4.1.2.1.1 Edit Annotated File

This topic describes the systematic instructions to Edit the annotations on a source document for a use case.

1. On **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**.

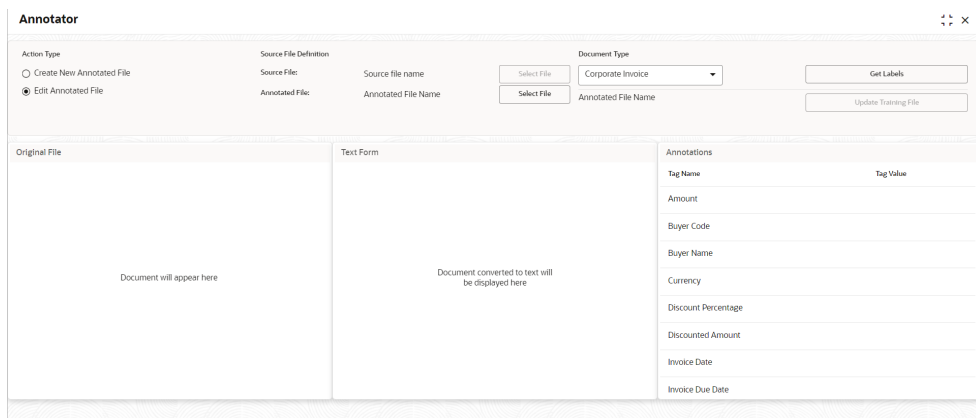
The **Edit Annotated File** screen displays.

**Figure 4-8 Edit Annotated File**



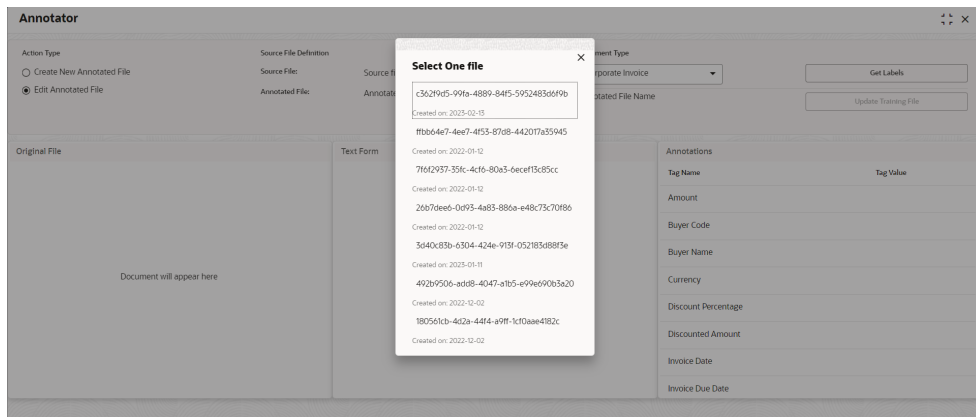
4. Select the **Document Type** from drop-down list and Click **Get Lables**. The **Annotations** screen displays.

**Figure 4-9 Edit Annotated File - Annotations**



5. Click **Select File** button next to **Source File** field. The popup screen displays.

**Figure 4-10 Edit Annotated File - Select File Popup**



- 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.

**Figure 4-11 Edit Annotated File - Text Form**

Tag Name	Tag Value
Amount	15455
Buyer Code	2005
Buyer Name	ABCINC
Currency	GBP
Discount Percentage	
Discounted Amount	
Invoice Date	2011/09/23
Invoice Due Date	2011/10/26

- Identify and select the information within the **Text Form** section to edit the original value.
- Right-click to display the list of tags.

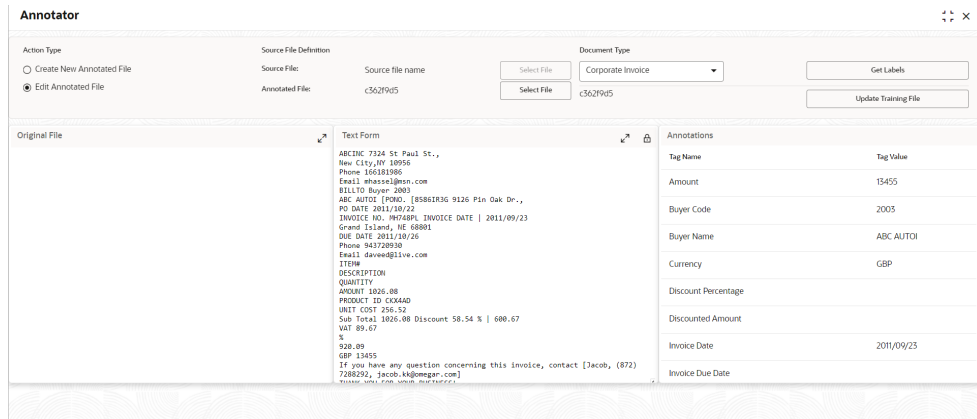
**Figure 4-12 Edit Annotated File - Select Annotation Label**

Tag Name	Tag Value
Amount	15455
Buyer Code	2005
Buyer Name	ABC AUTOI
Currency	GBP
Discount Percentage	
Discounted Amount	
Invoice Date	2011/09/23
Invoice Due Date	

- Select the relevant tag.
- The **Annotations** section displays the information under Tag Name and Tag Value fields.



**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 annotated 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.

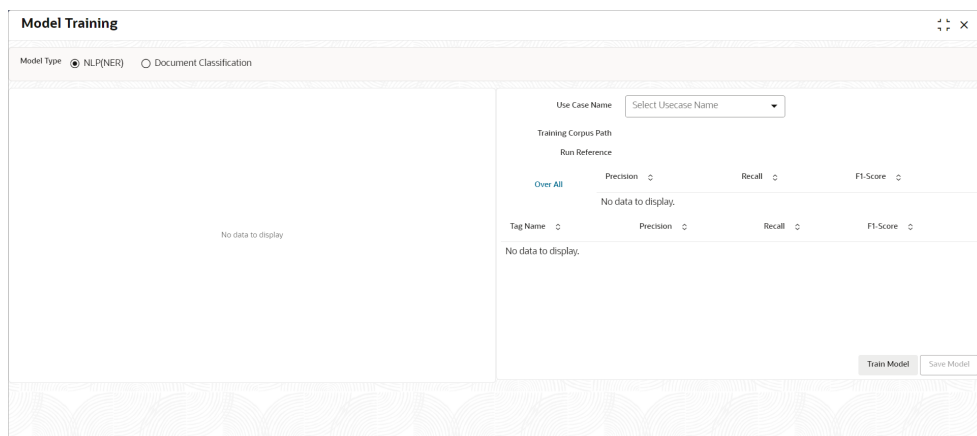
Each defined use case have its own training corpus available in the path set up in the use case definition.

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **Home** screen, click **Machine Learning**. Under **Machine Learning**, click **NLP Toolkit**.
2. Under **NLP Toolkit**, click **Model Training**.

The **Model Training** screen displays.

**Figure 4-14 Model Training**



**For Training NER Models:**

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.

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **Home** screen, click **Machine Learning**. Under **Machine Learning**, click **NLP Toolkit**.
2. Under **NLP Toolkit**, click **Model Management**.

The **Model Management** screen displays.

**Figure 4-15 Model Management**

Run Reference	Training Date	Precision	Recall	F1 score	Active	
R9KcLunXCN	27/01/2021	1	0.962	0.98	<input checked="" type="checkbox"/>	Tag Parameters
wgdIOYvMJW	16/02/2021	1	0.962	0.98	<input type="checkbox"/>	Tag Parameters
594bFrYDx6	16/02/2021	1	0.962	0.98	<input type="checkbox"/>	Tag Parameters
vPvF3zIPp	27/01/2021	1	0.889	0.941	<input type="checkbox"/>	Tag Parameters

Page 1 of 1 (1-4 of 4 items) |< < 1 > >|

Audit

- Specify the fields on **Model Management** screen.

 **Note:**

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

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

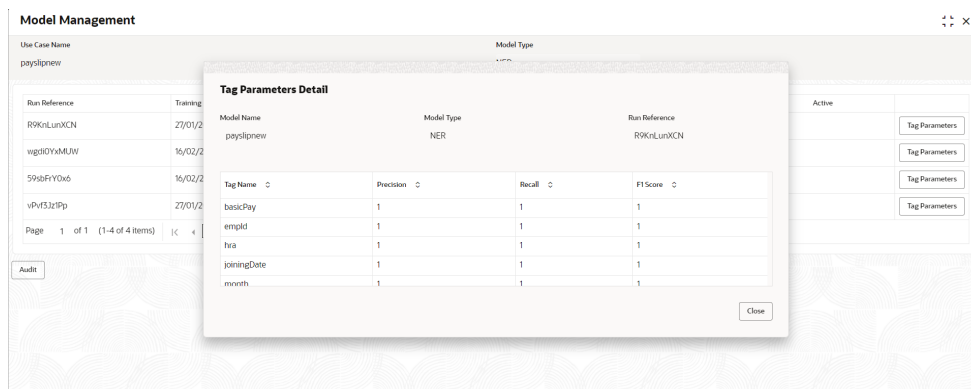
**Table 4-4 Model Management – Field Description**

Field	Description
<b>Use Case Name</b>	Displays the name of the Use Case.
<b>Model Type</b>	Displays the NER or Classification type of Model.
<b>Run Reference</b>	Displays unique model version identifier.
<b>Precision</b>	Specify the value between 0 to 1. Closer to 1 is better.
<b>Recall</b>	Specify the value between 0 to 1. Closer to 1 is better.
<b>F1 Score</b>	Specify the value between 0 to 1. Closer to 1 is better.
<b>Active</b>	Displays the status of model run reference.

- Click **Tag Parameters** to view the individual tag parameters for each model run reference.

The **Tag Parameters Details** screen displays.

**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.

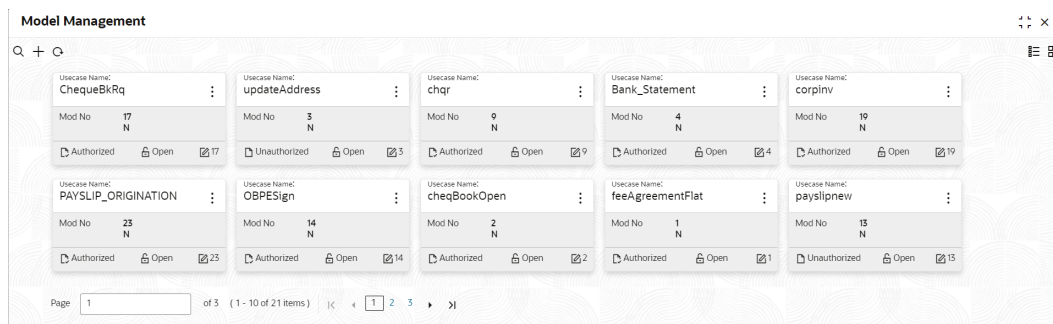
#### 4.1.4.2 View Model Management

This topic describes the systematic instructions to view the list of use case models.

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **Home** screen, click **Machine Learning**. Under **Machine Learning**, click **NLP Toolkit**.
  2. Under **NLP Toolkit**, click **Model Management**.
- The **Model Management** screen displays.

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
<b>Use Case Name</b>	Displays the name of the Use Case.
<b>Mod No</b>	Displays the number of modifications.
<b>Authorization Status</b>	Displays the authorization status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Displays the status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>
<b>Modification Number</b>	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. On **Home** screen, click **Machine Learning**. Under **Machine Learning**, click **NLP Toolkit**.
2. Under **NLP Toolkit**, Click **Model Import Export**.

The **Model Import Export** screen displays.

**Figure 4-18 Model Import Export**

The screenshot shows a web interface titled 'Model Import Export'. At the top, there are two tabs: 'Import Model' and 'Export Model'. The 'Export Model' tab is active. Below the tabs, the section is titled 'Export NLP Model'. It contains two dropdown menus: 'Usecase Name' with the value 'Usecase Name' and 'Run Reference' with the value 'Run Reference'. At the bottom of this section is a button labeled 'Export Model'.

**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 displays.

**Figure 4-19 Export Model**

The screenshot shows the same 'Model Import Export' interface. In the 'Export NLP Model' section, the 'Usecase Name' dropdown is now set to 'Invoice Data' and the 'Run Reference' dropdown is set to 'myaFXEiv84'. Below these dropdowns, the 'Model Import Code' is displayed as '7f5ed1f5daf5991d861222ad815947707c640745'. The 'Export Model' button remains at the bottom.

4. Specify the required details in the **Export Model** screen.

**Table 4-6 Export Model - Field Description**

Field	Description
<b>Usecase</b>	Select the required usecase from the dropdown list.
<b>Run Reference</b>	Select the run reference from the dropdown 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 displays.

**Figure 4-20 Import Model**

The screenshot shows a web interface titled "Model Import Export" with two tabs: "Import Model" (selected) and "Export Model". The main heading is "Import NLP Model". On the left, there is a "Drag and Drop" area with the text "Select a file or drop one here." Below it, a "Selected File" field is empty. Underneath is a "Model Import Code" input field, which is also empty. At the bottom left of this section is an "Import Model" button. On the right side, there is a "Usecase Name" field, which is empty. Below it is a "Run Reference" section containing a table with three columns: "Precision", "Recall", and "F1 Score". The table has two rows, both of which are empty and contain the text "No data to display."

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.

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **Home** screen, click **Machine Learning**. Under **Machine Learning**, click **Operation**.
2. Under **Operation**, click **Document Upload**.  
The **Document Upload** screen displays.

**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.

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **Home** screen, click **Machine Learning**. Under **Machine Learning**, click **Operation**.
2. Under **Operation**, click **Transaction Log**.

The **Transaction Log** screen displays.

**Figure 4-22 Transaction Log**

Document Id	Tag Value(s)	Document Type	Model Reference	Processing Date	Status	Failure Reason	Training Required
2902		BANK STATEMENT-Bank Account Statement		20/04/2023			
2885		BANK STATEMENT-Bank Account Statement		28/03/2023			
2884		Invoicedata-Invoice Data		27/03/2023			
2885				27/03/2023	ERROR	Unable to complete File Processing	Y
2882				27/03/2023	ERROR	Unable to complete File Processing	Y
2862		PAYSLIP_REGION-PAYSLIP_REGION	PLZfalkwv	13/03/2023	PROCESSED		N

3. Specify the fields on **Transaction Log** screen.

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

**Table 4-7 Transaction Log – Field Description**

Field	Description
<b>Document Type</b>	Select the document type from drop-down list.
<b>Status</b>	Select the type of status from drop-down list.
<b>Document ID</b>	Displays the Document Management System Unique Identifier.
<b>Document Type</b>	Displays the document type - Use Case Definition.
<b>Model Ref</b>	Displays the Unique Model Version Identifier.
<b>Processing Date</b>	Displays the document processed date.
<b>Status</b>	Displays the status of the transaction.
<b>Failure Reason</b>	Displays the reason for failed status.
<b>Train. Req'd</b>	Displays train required status.
<b>Tag Values</b>	Displays the tag values for the processed transactions and allow the correction for transactions with errors.

- To check the execution flow, click on **Document ID** to view details and flow. The **Process Log** screen displays.

**Figure 4-23 Process Log**

The screenshot shows the 'Process Log' interface. At the top, there is a flow diagram with five steps: File Processing (green checkmark), Request Classification (blue info icon), Data Extraction (green checkmark), Attachment Processing (blue info icon), and Business Processing (blue info icon). Below the flow diagram is a table with columns for Status, Start Time, and End Time. The table contains two rows of data. At the bottom, there is a pagination control showing 'Page 1 of 1 (1-2 of 2 items)' and navigation buttons.

Status	Start Time	End Time
SUCCESS	Mar 13, 2023 10:36:08 AM	Mar 13, 2023 10:36:10 AM
SUCCESS	Mar 13, 2023 10:35:56 AM	Mar 13, 2023 10:36:08 AM

- 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.

- To check the error status, select **Error** in **Status** drop-down list. All the failed transactions displays.



Figure 4-25 Error Status

Document Id	Tag Value(s)	Document Type	Model Reference	Processing Date	Status	Failure Reason	Training Required
2885	++			27/05/2023	ERROR	Unable to complete File Processing	Y
2882	++			27/05/2023	ERROR	Unable to complete File Processing	Y
2785	++	PAYSLIP_REGION-PAYSLIP_REGION		10/11/2022	ERROR	Unable to complete File Processing	Y
2665	++	invoicedata-Invoice Data		24/08/2022	ERROR	Unable to complete File Processing	Y
2645	++	BANK STATEMENT-Bank Account Statement		18/08/2022	ERROR	Unable to complete File Processing	Y
2351	++			27/04/2022	ERROR	Unable to complete File Processing	Y

- 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 displays.

Figure 4-26 Annotator

**Annotator**

Action Type  
 Create New Annotated File  
 Edit Annotated File

Source File Definition  
 Source File:  Source file name   
 Annotated File:  Annotated File Name

Document Type:

Original File: Document will appear here

Text Form: Document converted to text will be displayed here

Annotations  
 Tag Name: Tag Value  
 No data to display.

## 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.

- [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

**Table 4-8 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_performances": null
  }
}
```

```

    }
  }

```

### 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
        flscore:
          type: number
        model_fold_performances:
          type: array
          items:
            $ref: "#/definitions/ModelFoldPerfromancesDTO"
        tag_performances:
          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

**Table 4-9 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

- 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_performances": [
      {
        "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:
type: number
f1score:
type: number
model_fold_performances:
type: array
items:
$ref: "#/definitions/ModelFoldPerfromancesDTO"
tag_performances:
type: array
items:
$ref: "#/definitions/MItbTagPerformancesDTO"
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

### 4.3.3 Classification Processing Service

This topic describes about the payload details for the document classification model processing service.

#### Input Payload

**Table 4-10 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

**Table 4-11 Input Payload**

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:  
 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

Update the highlighted column in the table CMC\_TM\_ML\_SERVICE\_DEFN with the new service API.

**Table 4-12 Existing Use Case**

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



Insert a new record into the table CMC\_TM\_ML\_SERVICE\_DEFN.

**Table 4-13 New 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	<ul style="list-style-type: none"> <li>'Training' - Use this value for model Training Service.</li> <li>'Processing' - Use this value for model execution Service.</li> <li>'Business' - Use this value for business Service.</li> </ul>
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 4-14 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.

Table 4-14 (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.adapter.GenericAdaptor for all the business service calls Use oracle.fsgbu.cmc.nlp.pipeline.services.adapter.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 appld, 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.

# 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.
- [Time Series Forecast](#)  
This topic describes the information about the time series forecast.
- [Model Monitoring and Auto Training](#)  
This topic describes about the Model Monitoring and Auto Training.

### 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.

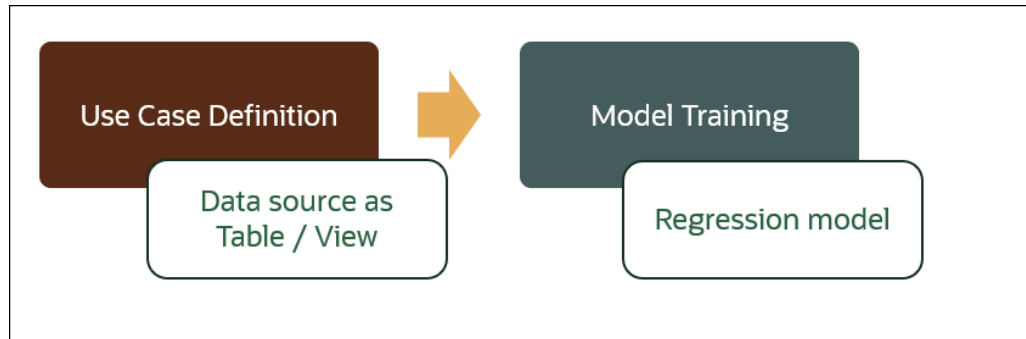
#### **Model Definition**

One-time setup of use case definition captures the data source, target columns, and type of use case.

#### **Model Training**

Model training is use case specific and has the intelligence to evaluate multiple algorithms and discover the best fit algorithm to the data pattern.

The onset of these two stages assumes that you have already decided on the business use case that you would want to on-board.

**Figure 5-1 Model Training**

## 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.
- [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.

### 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.

**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

Table 5-1 (Cont.) Case ID Details

CASE ID	CCY	BALANCE
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 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 5-2 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.

## 5.2.4 Regression Algorithms Supported

This topic describes the information about the regression algorithms supported in the framework.

The following algorithm are available as part of the framework.

**Table 5-3 List of Algorithm**

S.No	ALGORITHM	REMARKS
1	GENERALIZED 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.

## 5.2.5 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 5-4 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.

## 5.2.6 Classification Algorithms Supported

This topic describes the information about the Classification Algorithms Supported.

The following algorithms are available as part of the framework.

**Table 5-5 List of Algorithms**

Serial Number	ALGORITHM	REMARKS
1	DECISION TREE	-
2	NAÏVE BAYES	-
3	RANDOM FOREST	-
4	GENERALIZED 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.

## 5.3 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 5-6 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

Table 5-6 (Cont.) Example - Customer details

CUSTOMER ID	BRANCH	MARITAL STATUS	INCOME	SAVING	LUXURY SPEND
12348	GRF	N	16567	20	2500

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.

Specify **User ID** and **Password**, and login to **Home** screen.



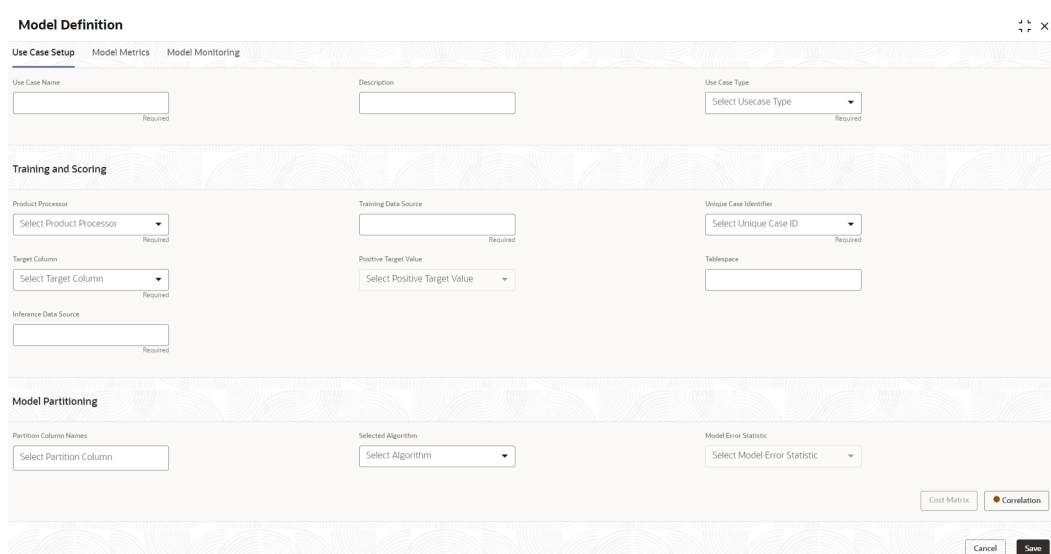
1. On **Home** screen, click **Machine Learning**. Under **Machine Learning**, click **Model Definition**.

2. On **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 displays.


**Figure 5-2 Model Definition**



The screenshot shows the 'Model Definition' interface with the following sections and fields:

- Use Case Setup:** Includes 'Use Case Name' (Required), 'Description', and 'Use Case Type' (Required dropdown).
- Training and Scoring:** Includes 'Product Processor' (Required dropdown), 'Training Data Source' (Required), 'Unique Case Identifier' (Required dropdown), 'Target Column' (Required dropdown), 'Positive Target Value' (Required dropdown), 'Inference Data Source' (Required), and 'Tablespace'.
- Model Partitioning:** Includes 'Partition Column Names' (Required), 'Selected Algorithm' (Required dropdown), and 'Model Error Statistic' (Required dropdown).
- At the bottom right, there are radio buttons for 'Cost Matrix' and 'Correlation', and 'Cancel' and 'Save' buttons.

3. Specify the fields on **Model Definition** screen.




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

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

**Table 5-7 Model Definition – Field Description**

Field	Description
<b>Use Case Name</b>	Specify the name of the Use Case.
<b>Description</b>	Specify the description of the Use Case.
<b>Use Case Type</b>	Select the type of Use Case. Refer Frameworks Supported for details.
<b>Product Processor</b>	Select the product to which the use case belongs.
<b>Training Data Source</b>	Specify the Table or View name used as data source to train the model.

**Table 5-7 (Cont.) Model Definition – Field Description**

Field	Description
<b>Unique Identifier</b>	Select the column name to uniquely identify a record.   <b>Note:</b> Column name is a function of table/view design.
<b>Target Column</b>	Select the value of the column which is predicted by training the model.   <b>Note:</b> Column name is a function of table/view design.
<b>Positive Target Value</b>	If Use Case Type selected is CLASSIFICATION, then this field is enabled else disabled for REGRESSION. It will display distinct values from the target column
<b>Tablespace</b>	Specify the valid tablespace and all model related data will be persisted in this table space.
<b>Inference Data Source</b>	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.
<b>Partition Column Names</b>	Specify the column names to slice data. Refer Partitioned Model for details.
<b>Selected Algorithm</b>	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.
<b>Model Error Statistics</b>	Select the model error statistics. By Default, the value is selected as RMSE for REGRESSION. The user can also select MAE.   <b>Note:</b> It will be disabled for CLASSIFICATION

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 5-8 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 5-9 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.

- Click **Cost Matrix** button to launch the screen.

The **Cost Matrix** screen displays.

**Figure 5-3 Cost Matrix**

**Cost Matrix**

Cost value is used to penalize misclassification or incorrect prediction

Actual Value	Predicted Value	Cost
0	0	0
0	1	0
1	0	0
1	1	0

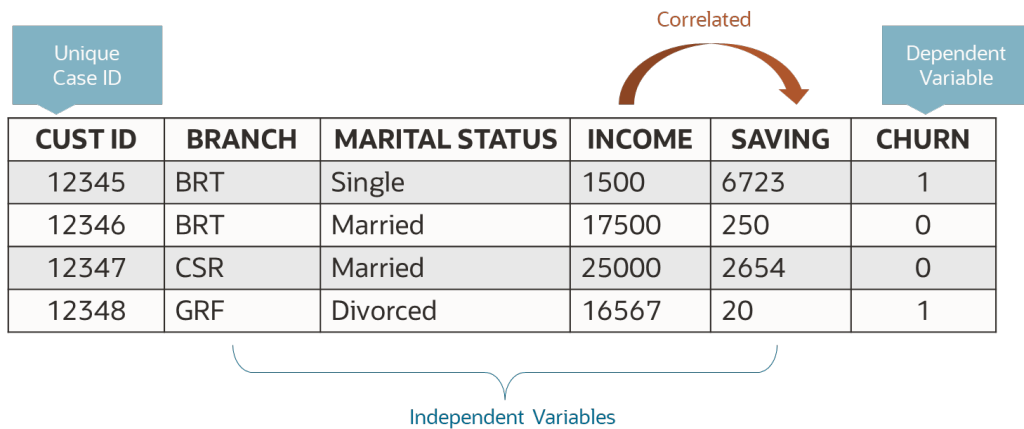
Cancel Save

- On **Cost Value** screen, specify the relevant penalty cost.
- 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 5-4 Correlation**



Multicollinearity may not affect the accuracy of the model as much, but we might lose reliability in model interpretation.

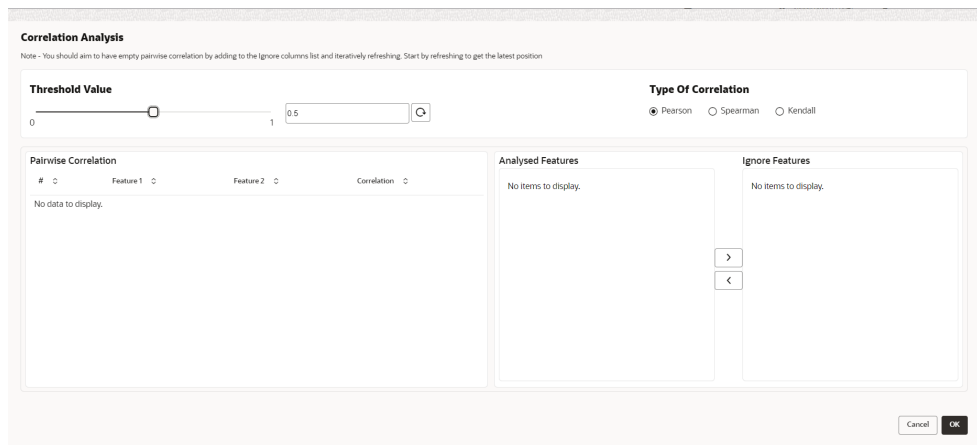
Irrespective of CLASSIFICATION or REGRESSION, all use cases must be evaluated for Correlation.

This button will display Orange mark if evaluation is pending.

- Click **Correlation** button to launch the screen.

The **Correlation Analysis** screen displays.

**Figure 5-5 Correlation Analysis**




- Select the required fields on **Correlation Analysis** screen.

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

**Table 5-10 Correlation Analysis – Field Description**

Field	Description
<b>Threshold Value</b>	Select the threshold value. The Value can be set between 0.1 to 0.9.  <b>Note:</b> By default, the value is set as 0.5.
<b>Type of Correlation</b>	Select the type of correlation. By default, the option is selected as Pearson. The formula used for calculation is different for each type
<b>Pairwise Correlation</b>	Displays the output of the Correlation Validation.
<b>Analyzed Features</b>	Displays the distinct analysed Features from Pairwise Correlation.
<b>Ignore Features</b>	User defined list created from Analysed Features.

10. Click  to initiate the evaluation process.

The **Correlation Analysis - Pairwise Correlation** screen displays.

**Figure 5-6 Correlation Analysis - Pairwise Correlation**

**Correlation Analysis**  
Note - You should aim to have empty pairwise correlation by adding to the Ignore columns list and iteratively refreshing. Start by refreshing to get the latest position

**Threshold Value** 0  1

**Type Of Correlation**  
 Pearson  Spearman  Kendall


#	Feature 1	Feature 2	Correlation
1	AGE	YRS_RESIDENCE	0.73923
2	AGE	HOME_THEATER_PACKAGE	0.85873
3	AGE	Y_BOX_GAMES	-0.80318
4	YRS_RESIDENCE	HOME_THEATER_PACKAGE	0.68454
5	YRS_RESIDENCE	Y_BOX_GAMES	-0.64459
6	BULK_PACK_DISKETTES	FLAT_PANEL_MONITOR	0.88307
7	HOME_THEATER_PACKAGE	Y_BOX_GAMES	-0.77005

**Analysed Features**  
 AGE  
HOME\_THEATER\_PACKAGE  
Y\_BOX\_GAMES  
YRS\_RESIDENCE  
FLAT\_PANEL\_MONITOR  
BULK\_PACK\_DISKETTES

**Ignore Features**  
No items to display.

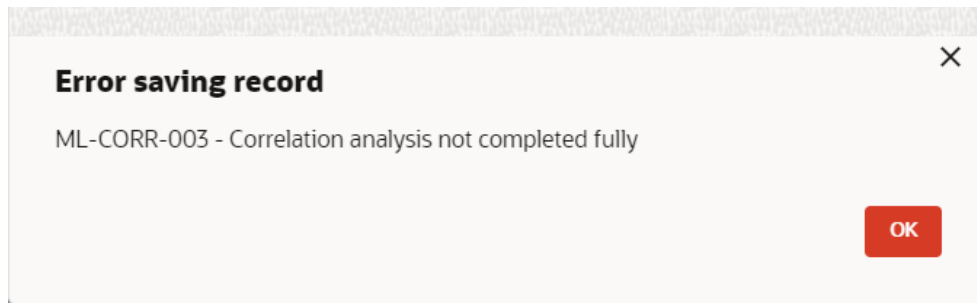
Cancel OK

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 5-7 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.

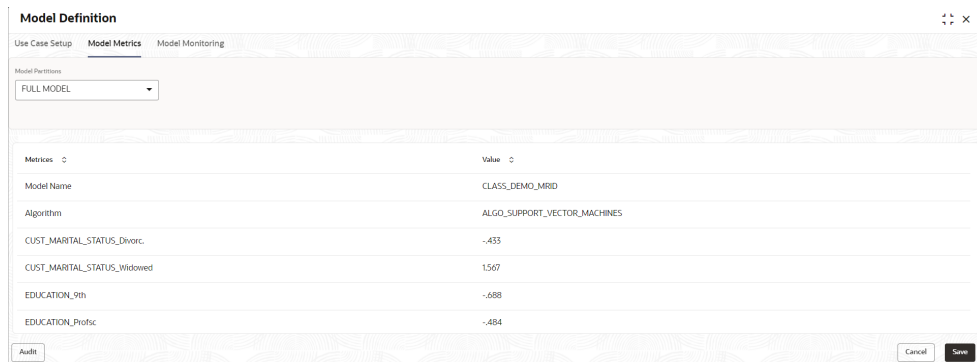
### Model Metrics

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 Metrics** screen only after training the model successfully. Refer to **Model Training and Scoring** section for training the model.

18. Click **Model Metrics** to view the Model Metrics details.

The **Model Metrics** screen displays.

**Figure 5-8 Model Metrics**



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

**Table 5-11 Model Metrics – Field Description**

Field	Description
<b>Model Partitions</b>	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.

**Table 5-11 (Cont.) Model Metrics – Field Description**

Field	Description
<b>Metrics</b>	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)
<b>Value</b>	Displays the value of the attribute.

### 5.4.1.2 View Model Definition

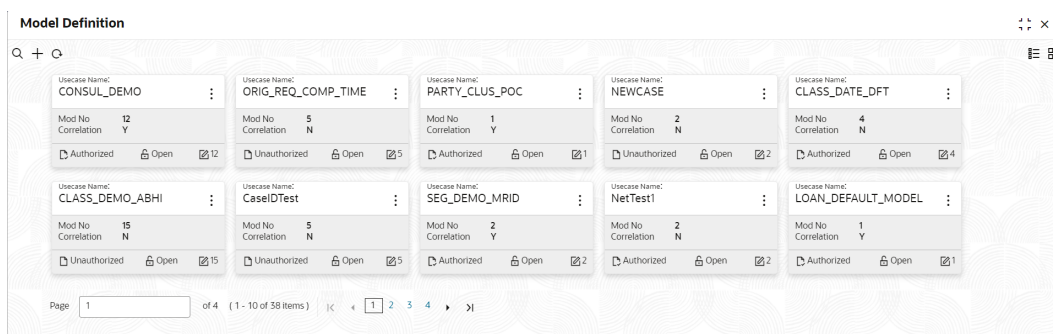
This topic describes the systematic instructions to view the list of defined use cases.

Specify **User ID** and **Password**, and login to **Home** screen.

- On **Home** screen, click **Machine Learning**. Under **Machine Learning**, click **Model Definition**.

The **Model Definition** screen displays.

**Figure 5-9 Model Definition**



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

**Table 5-12 Model Definition – Field Description**

Field	Description
<b>Usecase Name</b>	Displays the name of the use case.
<b>Mod No</b>	Displays the modification number.
<b>Correlation</b>	Displays the default orange colour for New records. On correlation validation in Model definition screen, it will change to green colour.

**Table 5-12 (Cont.) Model Definition – Field Description**

Field	Description
<b>Authorization Status</b>	Displays the authorization status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Authorized</b></li> <li>• <b>Rejected</b></li> <li>• <b>Unauthorized</b></li> </ul>
<b>Record Status</b>	Displays the status of the record. The options are: <ul style="list-style-type: none"> <li>• <b>Open</b></li> <li>• <b>Closed</b></li> </ul>
<b>Modification Number</b>	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.

Specify **User ID** and **Password**, and login to **Home** screen.

1. On **Home** screen, click **Machine Learning**. Under **Machine Learning**, click **Model Training and Scoring**.

The **Model Training and Scoring** screen displays.

**Figure 5-10 Model Training and Scoring**

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

**Table 5-13 Model Training and Scoring – Field Description**

Field	Description
<b>Use Case Name</b>	Select the Use Case name from the drop-down list.



**Table 5-13 (Cont.) Model Training and Scoring – Field Description**

Field	Description
<b>Description</b>	Displays the description of the use case.
<b>Use Case Type</b>	Displays the type of use case.
<b>Training Data Source</b>	Displays the training data source.
<b>Unique Case Identifier</b>	Displays the unique case identifier.
<b>Target Column</b>	Displays the target column of the model.
<b>Partition Column(s)</b>	Displays the partition column of the model.
<b>Model Name</b>	Displays the name of the model.
<b>Inference Data Source</b>	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.

## 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.

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 5-14 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

Table 5-14 (Cont.) Use Case Modifications

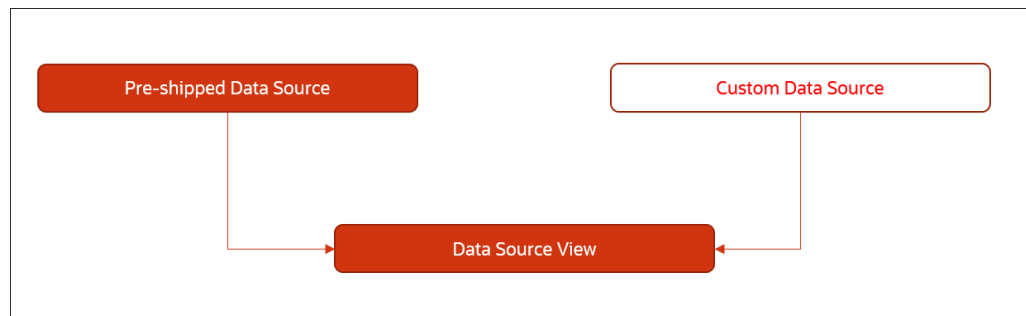
Use Case Modification	Model Re-training Required	Correlation Analysis Required
Partition Column Name list altered (added / removed)	Yes	Yes

## 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 5-11 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.

## 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 Metrics** 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 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.



### 5.9.1 Forecast REST Service

This topic describes the information about the forecast REST service.


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 5-15 Forecast REST Service – Field Description**

Field	Description
<b>Use Case Name</b>	Specify the Unique Use Case Name.
<b>Data Source</b>	Specify the Table or View name used as data source to train the model.
<b>Target Column</b>	Specify the model will train and forecast future values of this column.  <div style="border-left: 2px solid #0070C0; padding-left: 10px; margin-left: 20px;"> <p> <b>Note:</b> Column name is a function of table/view design.</p> </div>
<b>Unique Identifier</b>	Specify the column name to uniquely identify a sequence.  <div style="border-left: 2px solid #0070C0; padding-left: 10px; margin-left: 20px;"> <p> <b>Note:</b> Column name is a function of table/view design. It must be Date or a sequence.</p> </div>

**Table 5-15 (Cont.) Forecast REST Service – Field Description**

Field	Description
<b>Model Partitioning</b>	Specify the column names to slice data. Refer Partitioned Model for details.  <div style="border-left: 2px solid #0070C0; padding-left: 10px; margin-left: 20px;"> <p> <b>Note:</b> Column name is a function of table/view design.</p> </div>
<b>Partitioned Value</b>	Specify the actual Value of the Model Partition
<b>Forecast Window</b>	Specify the number of forecasts required as an outcome.
<b>Tablespace</b>	Specify the valid table space and all model related data will be persisted in this table space.

## 5.10 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. On **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 displays.


**Figure 5-12 Model Monitoring**

- This screen allows you to setup Model monitoring for the use case. For more information on fields, refer to the field description table.

**Table 5-16 Model Monitoring – Field Description**

Field	Description
<b>Run Case</b>	<p>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</p> <p> <b>Note:</b> This field is mandatory.</p>
<b>Run Frequency (Month)</b>	<p>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</p> <p> <b>Note:</b> This field is mandatory.</p>

**Table 5-16 (Cont.) Model Monitoring – Field Description**

Field	Description
<b>Historic Window (Days)</b>	<p>Historic window in days determine how far back should we consider, to define the window of data evaluation.</p> <p>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.</p> <div style="border: 1px solid #0070C0; padding: 5px; margin-top: 10px;"> <p> <b>Note:</b> This field is mandatory.</p> </div>
<b>Date Column</b>	<p>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.</p>

- The following fields are populated for reference once the model monitoring routine is executed on the scheduled date.

**Table 5-17 Model Evaluation - Field Description**

Field	Description
<b>Drift Reference</b>	Displays the Unique Drift Reference ID, populated by the model monitoring routine initial run
<b>Scheduled Date</b>	Displays the scheduled date after the initial run of the model monitoring routine.
<b>Drift</b>	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.
<b>Re-Training Required</b>	Model monitoring routine determines the re-training requirement and populates Y or N values.
<b>Re-Trained</b>	Model monitoring routine populates the status of re-training with Y or N values.
<b>Running Model</b>	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.

- 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 displays.

**Figure 5-13 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


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

**Table 5-18 Drift Details - Field Description**

Field	Description
<b>Attribute Name</b>	Displays the attributes used in the model
<b>Data type</b>	Displays the data type of the attribute.
<b>Statistical Test</b>	Displays the statistical tests results. The available options are: <ul style="list-style-type: none"> <li><b>F1</b> - concept drift</li> <li><b>KS-TEST</b> - Numerical feature attributes</li> <li><b>CHI-SQR</b> - categorical feature attributes</li> </ul>
<b>Test Value</b>	Displays the numerical statistical test result
<b>P Value</b>	The P Value determines the statistical significance. Will be null for F1 statistical test.
<b>Drift Detected</b>	Indicates whether drift has been detected with a Y or N.
<b>Drift Type</b>	Displays either concept or covariate (data) drift type.

- Select the relevant **Drift Reference** record.

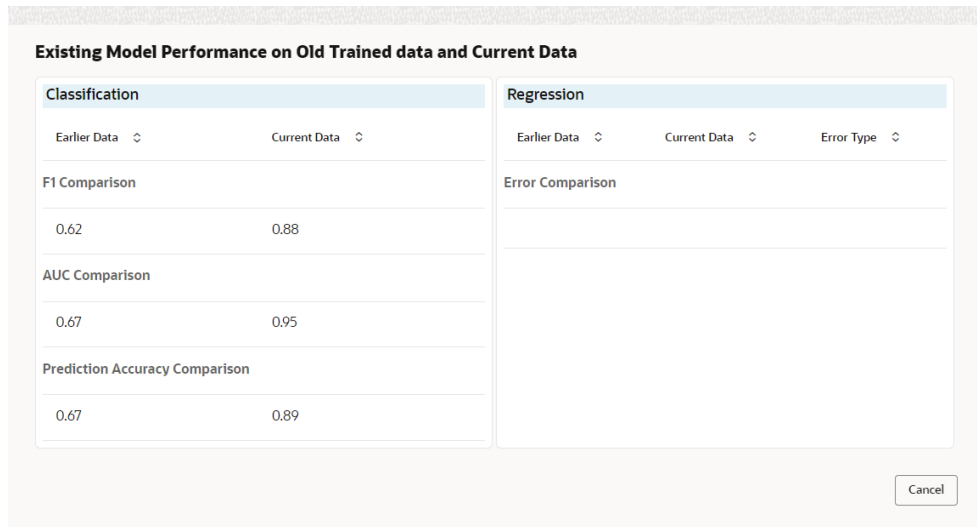


Click  from Drift header to view the comparative Model Performance Screen to understand how the decision of drift is arrived at.

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 5-14 Existing Model Performance on Old Trained data and Current Data**



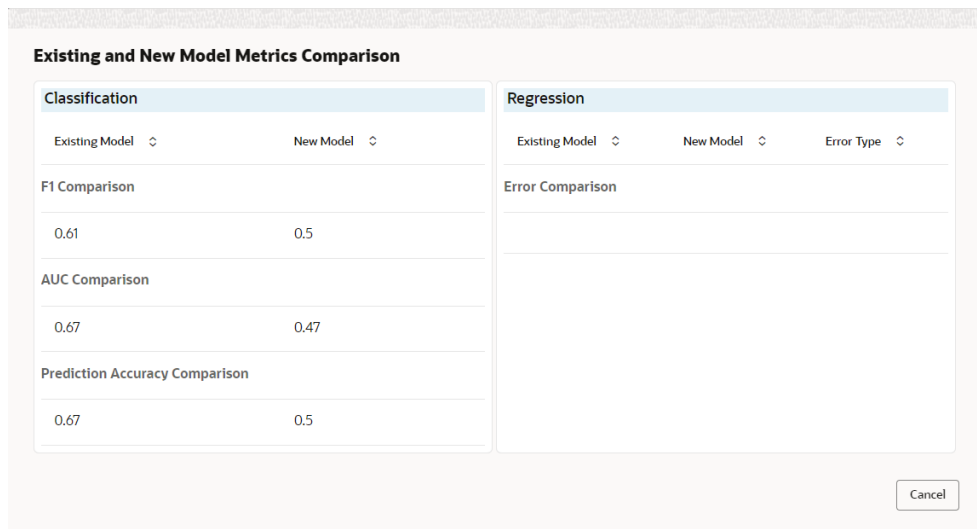
9. Select relevant **Drift Reference** record.



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 5-15 Existing and New Model Metrics Comparison**





# 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**



**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.

**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

**Table 6-3 (Cont.) Branch Core Parameters File Upload – Master Records**

Sequence	Attribute Name	Type	Size	Description
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
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.



**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 GI	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

**Table 6-6 (Cont.) Currency Definition File Upload – Master Records**

Sequence	Field name	Type	Size	Description
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
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
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

**Table 6-8 (Cont.) BIC Directory File Upload – Master Records**

Sequence	Field Name	Type	Size	Description
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

## 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



**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

**Table 6-12 (Cont.) Currency Holiday File Upload - Child Records**

Sequence	Field Name	Type	Size	Description
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.

**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 customer's whereabouts are unknown
9	Rmld	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

**Table 6-13 (Cont.) External Customer File Upload - Master Records**

Sequence	Field Name	Type	Size	Description
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



**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
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 'M'
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 'C'
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
6	Mid Rate*	Number	25	Mid rate applicable for the current pair
7	Buy Spread*	Number	40	Buy spread applicable for the currency

**Table 6-16 (Cont.) Exchange Rate File Upload - Child Records**

Sequence	Field Name	Type	Size	Description
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

**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

**Table 6-18 (Cont.) Interest Rate File Upload – Child Records 1**

Sequence	Field name	Type	Size	Description
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
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



# 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.

Specify **User ID** and **Password**, and login to **Home** screen.

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 displays.

**Figure 7-1 Create Fact**

- Specify the fields on **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
<b>Code</b>	Specify the alphanumeric code without space for the fact.
<b>Description</b>	Specify the description of the fact.
<b>Product Processor</b>	Click <b>Search</b> and select the product processor from the list.
<b>Tag</b>	Specify the tag for fact.
<b>Type</b>	Select the type of the fact from the dropdown list. The available options are: <ul style="list-style-type: none"> <li>• <b>Number</b></li> <li>• <b>Text</b></li> <li>• <b>Boolean</b></li> <li>• <b>Date</b></li> <li>• <b>Array</b></li> <li>• <b>ENUM</b></li> </ul>

- Click **Save** to save the details of fact.

**Bulk Upload**

- Click **Bulk Upload** to create a multiple fact.

The **Bulk Upload** screen displays.

**Figure 7-2 Bulk Upload**

- Click **Download Template** to download the sample file. Specify all the Facts details to be created in the sample file and save the file.

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 displays.

11. Specify the fields on **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.

Specify **User ID** and **Password**, and login to **Home** screen.

1. From **Home** screen, click **Fact**.
2. Under **Fact**, click **View Fact**.

The **View Fact** screen displays.

**Figure 7-3 View Fact**

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

**Table 7-2 View Fact – Field Description**

Field	Description
<b>Product Processor</b>	Displays the product processor.
<b>Fact ID</b>	Displays the Fact ID.
<b>Fact Name</b>	Displays the name of the fact.
<b>Description</b>	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 displays.

**Figure 7-4 fact Creation**

6. Specify the fields on **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
<b>Code</b>	Specify the alphanumeric code without space for the fact.
<b>Description</b>	Specify the description of the fact.
<b>Product Processor</b>	Select the product processor.
<b>Tag</b>	Specify the tag values.
<b>Type</b>	Select the type of the fact from the dropdown list. The available options are: <ul style="list-style-type: none"> <li>• <b>Number</b></li> <li>• <b>Text</b></li> <li>• <b>Boolean</b></li> <li>• <b>Date</b></li> <li>• <b>Array</b></li> <li>• <b>ENUM</b></li> </ul>

## 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.
- [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.

Specify **User ID** and **Password**, and login to **Home** screen.

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Rule**.
2. Under **Rule**, click **Create Rule**.  
The **Create Rule** screen displays.

**Figure 7-5 Create Rule**

The screenshot shows the 'Create Rule' interface. At the top, there is a 'New' button and an 'Add Section' button. Below this is the 'Rules' section, which is expanded to show 'Basic Info'. This section contains several input fields: 'Code', 'Description', 'Product Processor', 'Tag', 'Select Existing rule', and 'Rule Version'. The 'Code', 'Description', 'Product Processor', and 'Rule Version' fields are marked as 'Required'. Below 'Basic Info' is a section labeled 'Section1', which contains an 'Else' section with a table. The table has a plus icon and a minus icon, and the text 'No items to display.' Below this is the 'Expression' section, which contains an 'IF' section and an 'Output' section. The 'Output' section shows a table with columns 'Section1' and 'Else'. At the bottom left of the form is a 'Save' button.

3. 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 7-4 Create Rule – Field Description

Field	Description
<b>Code</b>	Specify the alphanumeric code without space for the rule.
<b>Description</b>	Specify the description of the rule.
<b>Product Processor</b>	Click <b>Search</b> and select the product processor.
<b>Tag</b>	Select the tag from the drop-down list.
<b>Select Existing Rule</b>	Click <b>Search</b> and select the existing rule.
<b>Add Section</b>	Click <b>Add Section</b> to create the multiple rule condition.
<b>Expression Builder</b>	Select the expressions to build the rule.
<b>Add Expression</b>	Click <b>Add Expression</b> to create the expression for the rule.
<b>+ Icon</b>	Click <b>+</b> icon to add new expression.
<b>Fact / Rules</b>	Select the fact or rule from the drop-down list.
<b>Operator</b>	Select the comparison operator from the drop-down list.
<b>Data Type</b>	<p>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.</p> <p>The available options are:</p> <ul style="list-style-type: none"> <li>• <b>Text</b></li> <li>• <b>Number</b></li> <li>• <b>Boolean</b></li> <li>• <b>Date</b></li> <li>• <b>Fact</b></li> </ul> <p>The below option appears if the Data Type is selected as Boolean.</p> <ul style="list-style-type: none"> <li>• <b>True</b></li> <li>• <b>False</b></li> </ul>
<b>Output</b>	<p>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.</p> <p>The available options are:</p> <ul style="list-style-type: none"> <li>• <b>Text</b></li> <li>• <b>Number</b></li> <li>• <b>Boolean</b></li> <li>• <b>Date</b></li> <li>• <b>Fact</b></li> </ul>
<b>Expression</b>	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 )

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.

Specify **User ID** and **Password**, and login to **Home** screen.

1. From **Home** screen, click **Rule**.
2. Under **Rule**, click **View Rule**.

The **View Rule** screen displays.



Figure 7-7 View Rule

**View Rule**

Product Processor: PLATORULE   Tag:

Filter:   (Right Click on Row to open Details...)

Rule Id	Rule Name	Description	Product Processor	Version
747	multiOutputEdit	multiOutputEdit21	PLATORULE	4
723	ELPLVL	ELPLVL	PLATORULE	4
743	multiOutputEdit	multiOutputEdit21	PLATORULE	3
721	ELPLVL	ELPLVL	PLATORULE	3
705	ELPLVL	ELPLVL	PLATORULE	2
751	multiOutputEdit	multiOutputEdit	PLATORULE	2
701	ELPLVL	ELPLVL	PLATORULE	1
727	multiOutputEdit	multiOutputEdit	PLATORULE	1

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

Table 7-5 View Rule – Field Description

Field	Description
<b>Product Processor</b>	Displays the product processor.
<b>Rule ID</b>	Displays the Rule ID.
<b>Rule Name</b>	Displays the name of the rule.
<b>Description</b>	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.

**Figure 7-8 Rule Creation**

The screenshot shows the 'Rule Creation' interface with the following sections:

- Basic Info:** Code (multiOutputEdit), Description (multiOutputEdit21), Product Processor (PLATORULE), Tag (dropdown), and Rule Version (4).
- Section1 Expression Builder:** Facts, OBP2N, =, NUMBER, 23.
- Section1 Output:** TEXT, section3, Enter Description.
- Section2 Expression Builder:** Facts, OBP2N, =, NUMBER, 321.
- Section2 Output:** TEXT, section3, testingedit.
- Else:** No items to display.
- Expression:** IF ( OBP2Number == 23 ) elseif ( OBP2Number == 321 )  
Output  
Section1 section3  
Section2 section3  
Else

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
<b>Code</b>	Specify the alphanumeric code without space for the rule.
<b>Description</b>	Specify the description of the rule.

Table 7-6 (Cont.) Create Rule – Field Description

Field	Description
<b>Product Processor</b>	Click <b>Search</b> and select the product processor.
<b>Tag</b>	Select the tag from the drop-down list.
<b>Select Existing Rule</b>	Click <b>Search</b> and select the existing rule.
<b>Add Section</b>	Click <b>Add Section</b> to create the multiple rule condition.
<b>Expression Builder</b>	Select the expressions to build the rule.
<b>Add Expression</b>	Click <b>Add Expression</b> to create the expression for the rule.
+ Icon	Click + icon to add new expression.
<b>Fact / Rules</b>	Select the fact or rule from the drop-down list.
<b>Operator</b>	Select the comparison operator from the drop-down list.
<b>Data Type</b>	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: <ul style="list-style-type: none"> <li>• <b>Text</b></li> <li>• <b>Number</b></li> <li>• <b>Boolean</b></li> <li>• <b>Date</b></li> <li>• <b>Fact</b></li> </ul> The below option appears if the Data Type is selected as Boolean. <ul style="list-style-type: none"> <li>• <b>True</b></li> <li>• <b>False</b></li> </ul>
<b>Output</b>	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: <ul style="list-style-type: none"> <li>• <b>Text</b></li> <li>• <b>Number</b></li> <li>• <b>Boolean</b></li> <li>• <b>Date</b></li> <li>• <b>Fact</b></li> </ul>
<b>Expression</b>	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}`**

**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.

## 7.2.4.1 Create Rule Group

This topic describes the systematic instructions to configure rule group.

Specify **User ID** and **Password**, and login to **Home** screen.

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

The **Create Rule Group** screen displays.

**Figure 7-9 Create Rule Group**


3. Specify the fields on **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
<b>Group Name</b>	Specify the unique group name for the selected rules.
<b>Product Processor</b>	Click <b>Search</b> and select the product processor.
<b>Tag</b>	Specify the tag for rule group.
<b>Evaluate Group</b>	Select the toggle to evaluate the expression in sequence.  <div style="border: 1px solid #ccc; padding: 5px; background-color: #e6f2ff;"> <p> <b>Note:</b></p> <p>NOTE: If the toggle is disabled, the evaluation of the expression stops when the condition of expression is evaluated to <b>True</b>.</p> </div>
<b>+ Icon</b>	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.

Specify **User ID** and **Password**, and login to **Home** screen.

1. From **Home** screen, click **Rule**.
2. Under **Rule**, click **View Rule Group**.

The **View Rule Group** screen displays.

**Figure 7-10 View Rule Group**

The screenshot shows the 'View Rulegroup' interface. At the top, there's a search bar for 'Product Processor' containing 'OBCR' and a 'Tag' dropdown. Below this is a filter section with a text input 'Type to filter' and a 'Refresh' button. The main area is a table with the following data:

Group Id	Group Name	Description	Product Processor
1101	TestingEnv		OBCR

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

**Table 7-8 View Rule Group – Field Description**

Field	Description
<b>Product Processor</b>	Click <b>Search</b> and select the product processor.
<b>Tag</b>	Specify the tag for rule group.
<b>Group ID</b>	Displays the Group ID.
<b>Group Name</b>	Displays the name of the group.
<b>Description</b>	Displays the description of the group.
<b>Product Processor</b>	Displays the product processor.

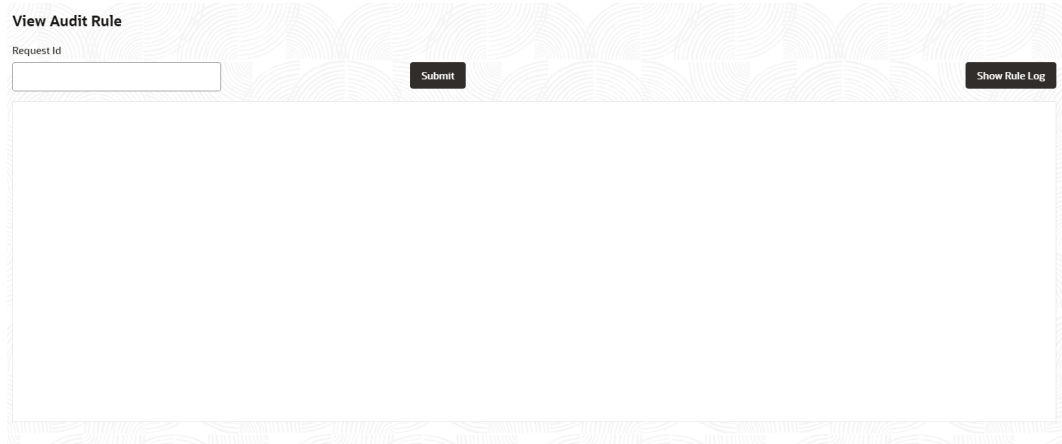
## 7.2.5 View Audit Rule

This topic describes the View Audit Rule.

Specify **User ID** and **Password**, and login to **Home** screen.

1. From **Home** screen, click **Rule**. Under **Rule**, click **View Audit Rule**. The **View Audit Rule** screen displays.

**Figure 7-11 View Audit Rule**



2. Specify the fields on **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
<b>Request ID</b>	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.

# 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.



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.
- **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:

- [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.

### 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-----"
  ]
}
```



**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

## 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:

#### **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 HILLS 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:

- 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."
      },
      "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).
- 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.
- 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:

- 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.

**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"
          }
        ]
      }
    }
  ]
}
```

```

    }
  }
]
}

```

## 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-----"
    }
  ]
}

```

**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"  
    }  
]  
}  
]  
}
```

### 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-----"
      }
    ]
  ],
  "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"
      }
    ]
  }
}

```

## 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:

**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.

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.

# A

## Error Codes and Messages

**Table A-1 Error Codes and Messages**

<b>Error Codes</b>	<b>Messages</b>
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 ICFipDate.

**Table A-1 (Cont.) Error Codes and Messages**

<b>Error Codes</b>	<b>Messages</b>
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.

**Table A-1 (Cont.) Error Codes and Messages**

<b>Error Codes</b>	<b>Messages</b>
CMC-CCY-008	Mandatory field Country is not entered.
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.

**Table A-1 (Cont.) Error Codes and Messages**

<b>Error Codes</b>	<b>Messages</b>
CMC-CCY-049	SaleSpread is invalid.
CMC-CCY-050	Atleast one Currency Rate Should be Maintained.
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.



**Table A-1 (Cont.) Error Codes and Messages**

<b>Error Codes</b>	<b>Messages</b>
CMC-EOD-006	Retried EOD successfully.
CMC-EOD-007	Failed to retry EOD.
CMC-EOD-008	Pending maintenances exist. Failed to start EOD.
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-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

**Table A-1 (Cont.) Error Codes and Messages**

<b>Error Codes</b>	<b>Messages</b>
CMC-LOV-002	Invalid Currency.
CMC-LOV-003	Cannot Close the record for which rates are maintained.
CMC-LOV-004	Invalid Language Code.
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-OB RH-001	Record already exists.
CMC-OB RH-002	Record saved successfully.
CMC-OB RH-003	Record does not exist.
CMC-OB RH-004	Invalid Payload.
CMC-OB RH-005	Record deleted successfully.
CMC-OB RH-006	Record modified successfully.
CMC-OB RH-007	Data fetched successfully.
CMC-OB RH-008	Data exported successfully.
CMC-OB RH-009	Failed to get data.
CMC-OB RH-010	Cannot start disabled route.
CMC-OB RH-011	Data imported successfully.
CMC-OB RH-012	Failed to import.
CMC-OB RH-013	Failed to parse [\$1].
CMC-OB RH-014	Data extracted successfully.
CMC-OB RH-015	Route state cannot be changed to Start as Consumer Service / Provider is inactive.
CMC-OB RH-016	Modified/Deleted attribute is already in use by route.
CMC-OB RH-017	Something went wrong!

**Table A-1 (Cont.) Error Codes and Messages**

<b>Error Codes</b>	<b>Messages</b>
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].
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.

**Table A-1 (Cont.) Error Codes and Messages**

<b>Error Codes</b>	<b>Messages</b>
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.
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.

**Table A-1 (Cont.) Error Codes and Messages**

<b>Error Codes</b>	<b>Messages</b>
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.
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.

**Table A-1 (Cont.) Error Codes and Messages**

<b>Error Codes</b>	<b>Messages</b>
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).
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.
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.

Table A-1 (Cont.) Error Codes and Messages

Error Codes	Messages
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_N OT_FOUND	Bureau Details are not provided
CBS_BR_DTLS_N OT_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.
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

**Table A-1 (Cont.) Error Codes and Messages**

<b>Error Codes</b>	<b>Messages</b>
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
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



**Table A-1 (Cont.) Error Codes and Messages**

<b>Error Codes</b>	<b>Messages</b>
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
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

**Table A-1 (Cont.) Error Codes and Messages**

<b>Error Codes</b>	<b>Messages</b>
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, negative
CDS-QUR-017	Answer Option Sequence Number cannot be null, empty or zero, negative
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
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

**Table A-1 (Cont.) Error Codes and Messages**

<b>Error Codes</b>	<b>Messages</b>
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

# B

## Functional Activity Codes

**Table B-1 List of Functional Activity Codes**

Screen Name	Functional Activity Codes	Action	Description
External Chart Account	CMC_FA_EXT_CHART_AC C_NEW	CREATE	Create External Chart Account
External Chart Account	CMC_FA_EXT_CHART_AC C_AMEND	UNLOCK	Modify External Chart Account
External Chart Account	CMC_FA_EXT_CHART_AC C_AUTHORIZE	AUTHORIZE	Authorize External Chart Account
External Chart Account	CMC_FA_EXT_CHART_AC C_CLOSE	CLOSE	Close External Chart Account
External Chart Account	CMC_FA_EXT_CHART_AC C_DELETE	DELETE	Delete External Chart Account
External Chart Account	CMC_FA_EXT_CHART_AC C_VIEW	VIEW	View External Chart Account
External Chart Account	CMC_FA_EXT_CHART_AC C_REOPEN	REOPEN	Reopen External Chart Account
MIS Class	CMC_FA_MIS_CLASS_NEW	CREATE	Create MIS Class
MIS Class	CMC_FA_MIS_CLASS_AME ND	UNLOCK	Modify MIS Class
MIS Class	CMC_FA_MIS_CLASS_AUT HORIZE	AUTHORIZE	Authorize MIS Class
MIS Class	CMC_FA_MIS_CLASS_CLO SE	CLOSE	Close MIS Class
MIS Class	CMC_FA_MIS_CLASS_DEL ETE	DELETE	Delete MIS Class
MIS Class	CMC_FA_MIS_CLASS_REO PEN	REOPEN	Reopen MIS Class
MIS Class	CMC_FA_MIS_CLASS_VIE W	VIEW	View MIS Class
MIS Group	CMC_FA_MIS_GROUP_NE W	CREATE	Create MIS Group
MIS Group	CMC_FA_MIS_GROUP_AM END	UNLOCK	Modify MIS Group
MIS Group	CMC_FA_MIS_GROUP_AUT HORIZE	AUTHORIZE	Authorize MIS Group
MIS Group	CMC_FA_MIS_GROUP_DEL ETE	DELETE	Delete MIS Group

Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
MIS Group	CMC_FA_MIS_GROUP_CLOSE	CLOSE	Close MIS Group
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

Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
Resource Class	CMC_FA_RESOURCE_CLASSES_DELETE	DELETE	Delete Resource Class
Resource Class	CMC_FA_RESOURCE_CLASSES_REOPEN	REOPEN	Reopen Resource Class
Resource Class	CMC_FA_RESOURCE_CLASSES_NEW	NEW	Create new Resource Class
Resource Class	CMC_FA_RESOURCE_CLASSES_VIEW	VIEW	View Resource Class
Resource Class	CMC_FA_RESOURCE_CLASSES_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_AUTHORIZE_QUERY	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

Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
<b>Borrowing Capacity</b>	CMC_OBCDS_FA_BWC_VIEW	VIEW	View Borrowing Capacity
<b>Borrowing Capacity</b>	CMC_OBCDS_FA_BWC_VIEWALL	VIEW ALL	View all Borrowing Capacity
<b>Borrowing Capacity</b>	CMC_OBCDS_FA_BWC_VIEWCHANGES	VIEWCHANGES	Viewchanges Borrowing Capacity
<b>Counter</b>	CMC_OBCDS_FA_COUNTERCONFIG_AMEND	UNLOCK	Unlock Counter
<b>Counter</b>	CMC_OBCDS_FA_COUNTERCONFIG_AUTHORIZE	AUTHORIZE	Authorize Counter
<b>Counter</b>	CMC_OBCDS_FA_COUNTERCONFIG_AUTHQUERY	AUTHQUERY	Authorize query Counter
<b>Counter</b>	CMC_OBCDS_FA_COUNTERCONFIG_CLOSE	CLOSE	Close Counter
<b>Counter</b>	CMC_OBCDS_FA_COUNTERCONFIG_DELETE	DELETE	Delete Counter
<b>Counter</b>	CMC_OBCDS_FA_COUNTERCONFIG_HISTORY	HISTORY	History Counter
<b>Counter</b>	CMC_OBCDS_FA_COUNTERCONFIG_NEW	CREATE	Create Counter
<b>Counter</b>	CMC_OBCDS_FA_COUNTERCONFIG_REJECT	REJECT	Reject Counter
<b>Counter</b>	CMC_OBCDS_FA_COUNTERCONFIG_REOPEN	REOPEN	Reopen Counter
<b>Counter</b>	CMC_OBCDS_FA_COUNTERCONFIG_VALIDATE_LOV	VALIDATE LOV	Validate Lov Counter
<b>Counter</b>	CMC_OBCDS_FA_COUNTERCONFIG_VIEW	VIEW	View Counter
<b>Counter</b>	CMC_OBCDS_FA_COUNTERCONFIG_VIEWALL	VIEW ALL	View All Counter
<b>Counter</b>	CMC_OBCDS_FA_COUNTERCONFIG_VIEWCHANGES	VIEWCHANGES	Viewchanges Counter
<b>Product Processor</b>	CMC_OBCDS_FA_PPR_ACTIONS	ACTION	Action Product Processor
<b>Product Processor</b>	CMC_OBCDS_FA_PPR_AMEND	UNLOCK	Unlock Product Processor
<b>Product Processor</b>	CMC_OBCDS_FA_PPR_AUTHORIZE	AUTHORIZE	Authorize Product Processor
<b>Product Processor</b>	CMC_OBCDS_FA_PPR_AUTHQUERY	AUTHQUERY	Authorize query Product Processor
<b>Product Processor</b>	CMC_OBCDS_FA_PPR_CLOSE	CLOSE	Close Product Processor
<b>Product Processor</b>	CMC_OBCDS_FA_PPR_DELETE	DELETE	Delete Product Processor
<b>Product Processor</b>	CMC_OBCDS_FA_PPR_HISTORY	HISTORY	History Product Processor

Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
Product Processor	CMC_OBCDS_FA_PPR_NEW	CREATE	Create Product Processor
Product Processor	CMC_OBCDS_FA_PPR_REOPEN	REOPEN	Reopen Product Processor
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



Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
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
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	VIEWCHANGES	Viewchanges Charge Code
Charge Code	CMC_OBCDS_FA_GET_CHARGES	GET CHARGES	Get Charges Charge Code
Scoring Feature	CMC_OBCDS_FA_QFT_ACTIONS	ACTION	Action Scoring Feature
Scoring Feature	CMC_OBCDS_FA_QFT_AMEND	UNLOCK	Unlock Scoring Feature
Scoring Feature	CMC_OBCDS_FA_QFT_AUTHORIZE	AUTHORIZE	Authorize Scoring Feature
Scoring Feature	CMC_OBCDS_FA_QFT_AUTHQUERY	AUTHQUERY	Authorize Query Scoring Feature
Scoring Feature	CMC_OBCDS_FA_QFT_CLOSE	CLOSE	Close Scoring Feature
Scoring Feature	CMC_OBCDS_FA_QFT_DELETE	DELETE	Delete Scoring Feature
Scoring Feature	CMC_OBCDS_FA_QFT_HISTORY	HISTORY	History Scoring Feature
Scoring Feature	CMC_OBCDS_FA_QFT_NEW	CREATE	Create Scoring Feature
Scoring Feature	CMC_OBCDS_FA_QFT_REOPEN	REOPEN	Reopen Scoring Feature
Scoring Feature	CMC_OBCDS_FA_QFT_VALIDATE_LOV	VALIDATE LOV	Validate Scoring Feature LOV
Scoring Feature	CMC_OBCDS_FA_QFT_VIEW	VIEW	View Scoring Feature
Scoring Feature	CMC_OBCDS_FA_QFT_VIEWALL	VIEWALL	Viewall Scoring Feature

Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
Scoring Feature	CMC_OBCDS_FA_QFT_VIEWCHANGES	VIEWCHANGES	Viewchanges Scoring Feature
Qualitative Scoring Model	CMC_OBCDS_FA_QUAL_ACTIONS	ACTION	Action on Qualitative Scoring Model
Qualitative Scoring Model	CMC_OBCDS_FA_QUAL_AMEND	UNLOCK	Unlock Qualitative Scoring Model
Qualitative Scoring Model	CMC_OBCDS_FA_QUAL_AUTHORIZE	AUTHORIZE	Authorize Qualitative ScoringModel
Qualitative Scoring Model	CMC_OBCDS_FA_QUAL_AUTHQUERY	AUTHQUERY	Authorize query Qualitative ScoringModel
Qualitative Scoring Model	CMC_OBCDS_FA_QUAL_CLOSE	CLOSE	Close Qualitative ScoringModel
Qualitative Scoring Model	CMC_OBCDS_FA_QUAL_DELETE	DELETE	Delete Qualitative ScoringModel
Qualitative Scoring Model	CMC_OBCDS_FA_QUAL_HISTORY	HISTORY	History Qualitative ScoringModel
Qualitative Scoring Model	CMC_OBCDS_FA_QUAL_NEW	NEW	Create Qualitative ScoringModel
Qualitative Scoring Model	CMC_OBCDS_FA_QUAL_REOPEN	REOPEN	Reopen Qualitative ScoringModel
Qualitative Scoring Model	CMC_OBCDS_FA_QUAL_VALIDATE_LOV	VALIDATE LOV	Validate Qualitative ScoringModel LOV
Qualitative Scoring Model	CMC_OBCDS_FA_QUAL_VIEW	VIEW	View Qualitative ScoringModel
Qualitative Scoring Model	CMC_OBCDS_FA_QUAL_VIEWALL	VIEWALL	View all Qualitative ScoringModel
Qualitative Scoring Model	CMC_OBCDS_FA_QUAL_VIEWCHANGES	VIEW	View Qualitative ScoringModel
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

Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
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
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_QUESTIONS_ACTIONS	ACTION	Action Questionnaire
Questionnaire	CMC_OBCDS_FA_QUESTIONS_UNLOCK	UNLOCK	Unlock Questionnaire
Questionnaire	CMC_OBCDS_FA_QUESTIONS_AUTHORIZE	AUTHORIZE	Authorize Questionnaire
Questionnaire	CMC_OBCDS_FA_QUESTIONS_AUTHQUERY	AUTHQUERY	Authquery Questionnaire
Questionnaire	CMC_OBCDS_FA_QUESTIONS_CLOSE	CLOSE	Close Questionnaire
Questionnaire	CMC_OBCDS_FA_QUESTIONS_DELETE	DELETE	Delete Questionnaire
Questionnaire	CMC_OBCDS_FA_QUESTIONS_DISPLAY	DISPLAY	Display Question Display
Questionnaire	CMC_OBCDS_FA_QUESTIONS_DISPLAY_DUMMY	DISPLAY	Display Question Display
Questionnaire	CMC_OBCDS_FA_QUESTIONS_HISTORY	HISTORY	History Questionnaire
Questionnaire	CMC_OBCDS_FA_QUESTIONS_NEW	CREATE	Create Questionnaire
Questionnaire	CMC_OBCDS_FA_QUESTIONS_REOPEN	REOPEN	Reopen Questionnaire
Questionnaire	CMC_OBCDS_FA_QUESTIONS_VALIDATEQUSCODE	VALIDATE	Validate Questionnaire
Questionnaire	CMC_OBCDS_FA_QUESTIONS_VALIDATE_LOV	VALIDATE LOV	Validate Questionnaire LOV

Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
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
Questionnaire	CMC_OBCDS_FA_FETCH_QUESTION_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

Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
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
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 ScoringModel
Quantitative Scoring Model	CMC_OBCDS_FA_DML_AUTHQUERY	AUTHQUERY	Authorize query Qualitative ScoringModel

Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
Quantitative Scoring Model	CMC_OBCDS_FA_DML_CLOSE	CLOSE	Close Qualitative ScoringModel
Quantitative Scoring Model	CMC_OBCDS_FA_DML_DELETE	DELETE	Delete Qualitative ScoringModel
Quantitative Scoring Model	CMC_OBCDS_FA_DML_HISTORY	HISTORY	History Qualitative ScoringModel
Quantitative Scoring Model	CMC_OBCDS_FA_DML_NEW	CREATE	CreateQualitative ScoringModel
Quantitative Scoring Model	CMC_OBCDS_FA_DML_REOPEN	REOPEN	Reopen Qualitative ScoringModel
Quantitative Scoring Model	CMC_OBCDS_FA_DML_VALIDATE_LOV	VALIDATE LOV	Validate Qualitative ScoringModel LOV
Quantitative Scoring Model	CMC_OBCDS_FA_DML_VIEW	VIEW	View Qualitative ScoringModel
Quantitative Scoring Model	CMC_OBCDS_FA_DML_VIEWALL	VIEW ALL	View All Qualitative ScoringModel
Quantitative Scoring Model	CMC_OBCDS_FA_DML_VIEWCHANGES	VIEWCHANGES	Viewchanges Qualitative ScoringModel
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

Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
Validation Model	CMC_OBCDS_FA_LML_VIE WALL	VIEW ALL	View all Validation Model
Validation Model	CMC_OBCDS_FA_LML_VIE WCHANGES	VIEWCHANGES	Viewchanges Validation Model
Lookup	CMC_OBCDS_FA_LOOKUP S_ACTIONS	ACTION	Action Lookup
Lookup	CMC_OBCDS_FA_LOOKUP S_AMEND	UNLOCK	Unlock Lookup
Lookup	CMC_OBCDS_FA_LOOKUP S_AUTHORIZE	AUTHORIZE	Authorize Lookup
Lookup	CMC_OBCDS_FA_LOOKUP S_AUTHQUERY	AUTHQUERY	Authorize query Lookup
Lookup	CMC_OBCDS_FA_LOOKUP S_CLOSE	CLOSE	Close Lookup
Lookup	CMC_OBCDS_FA_LOOKUP S_CODE_VIEW	CODE VIEW	Code View Lookup
Lookup	CMC_OBCDS_FA_LOOKUP S_DELETE	DELETE	Delete Lookup
Lookup	CMC_OBCDS_FA_LOOKUP S_HISTORY	HISTORY	History Lookup
Lookup	CMC_OBCDS_FA_LOOKUP S_NEW	CREATE	Create Lookup
Lookup	CMC_OBCDS_FA_LOOKUP S_REOPEN	REOPEN	Reopen Lookup
Lookup	CMC_OBCDS_FA_LOOKUP S_VALIDATE_LOV	VALIDATE LOV	Validate Lov Lookup
Lookup	CMC_OBCDS_FA_LOOKUP S_VIEW	VIEW	View Lookup
Lookup	CMC_OBCDS_FA_LOOKUP S_VIEWALL	VIEW ALL	View All Lookup
Lookup	CMC_OBCDS_FA_LOOKUP S_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

Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
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
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 Details 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



Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
cmc-charges-calculation-services (API)	CMC_FA_PRC_SRC_SYS_GET_UNAUTH	GETUNAUTH RESOURCE	Retrieves the Unauthorized Resource by Given Resource ID
cmc-charges-calculation-services (API)	CMC_FA_PRC_SRC_SYS_UNLOCK	REMOVE RESOURCE LOCK	Removes the Advisory Lock on the Resource
cmc-charges-calculation-services (API)	CMC_FA_PRC_SRC_SYS_SUBMIT	SUBMIT RESOURCE	Submit for the Resource
cmc-charges-calculation-services (API)	CMC_FA_PRC_SRC_SYS_ISVALID	VALIDATE RESOURCE	Validates the Resource by Resource ID
Price Rule	CMC_FA_CHARGERULE_AUTHORIZE_RESOURCE	AUTHORIZE RESOURCE	Authorize the Price Rule with given Resource ID
Price Rule	CMC_FA_CHARGERULE_CLOSE	CLOSE RESOURCE	Closes the Price Rule with given Resource ID
Price Rule	CMC_FA_CHARGERULE_CREATE_RESOURCE	CREATE RESOURCE	Creates New Price Rule
Price Rule	CMC_FA_CHARGERULE_DELETE_RESOURCE	DELETE RESOURCE	Deletes the Price Rule Record for Given Resource ID
Price Rule	CMC_FA_CHARGERULE_GET_BY_RESOURCEID	GET BY RESOURCEID	Provides Price Rule for given Resource ID
Price Rule	CMC_FA_CHARGERULE_ACTION	GET PERMITTED ACTIONS	Provides all Applicable Actions for Price Rule of given Resource ID
Price Rule	CMC_FA_CHARGERULE_RESOURCE_AGGREGATE	GET RESOURCE AGGREGATE	Get Aggregate Details of the Price Rule
Price Rule	CMC_FA_CHARGERULE_RESOURCE_HISTORY	GET RESOURCE HISTORY	Retrieves the History for Price Rule with given Resource ID
Price Rule	CMC_FA_CHARGERULE_SUMMARY	GET SUMMARY	Get all Price Rules Details
Price Rule	CMC_FA_CHARGERULE_UNAUTH_RESOURCE	GET UNAUTH RESOURCE	Retrieves the Unauthorized Price Rule for given Resource ID
Price Rule	CMC_FA_CHARGERULE_AUTHORIZE_RESOURCE	REJECT RESOURCE	Rejects the Resource by given Resource ID
Price Rule	CMC_FA_CHARGERULE_REMOVE_RESOURCE_LOCK	REMOVE RESOURCE LOCK	Unlocks the Price Rule with given Resource ID
Price Rule	CMC_FA_CHARGERULE_REOPEN_RESOURCE	REOPEN RESOURCE	Reopens the Price Rule with given Resource ID

Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
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	GETEVENTADVICETYPE SUMMARY	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
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

Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
<b>cmc-transactioncontroller-services (API)</b>	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
<b>cmc-transactioncontroller-services (API)</b>	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
<b>cmc-transactioncontroller-services (API)</b>	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
<b>cmc-transactioncontroller-services (API)</b>	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
<b>cmc-transactioncontroller-services (API)</b>	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
<b>cmc-transactioncontroller-services (API)</b>	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
<b>Priority Code - Priority Code Maintenance</b>	CMC_MENU_FA_PRIORITY_CODE_MAINT_AMND	UNLOCK	Modify Priority Code Maintenance
<b>Priority Code - Priority Code Maintenance</b>	CMC_MENU_FA_PRIORITY_CODE_MAINT_AUTHORIZE	AUTHORIZE	Authorize Priority Code Maintenance
<b>Priority Code - Priority Code Maintenance</b>	CMC_MENU_FA_PRIORITY_CODE_MAINT_CLOSE	CLOSE	Close Priority Code Maintenance
<b>Priority Code - Priority Code Maintenance</b>	CMC_MENU_FA_PRIORITY_CODE_MAINT_REOPEN	REOPEN	Reopen Priority Code Maintenance
<b>Priority Code - Priority Code Maintenance</b>	CMC_MENU_FA_PRIORITY_CODE_MAINT_VIEW	VIEW	View Priority Code Maintenance

Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
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
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

Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
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 Modify 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

Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
Currency Definition	CMC_FA_CURRENCY_DEF N_AMEND	UNLOCK	Modify Currency Definition
Currency Definition	CMC_FA_CURRENCY_DEF N_AUTHORIZE	AUTHORIZE	Authorize Currency Definition
Currency Definition	CMC_FA_CURRENCY_DEF N_CLOSE	CLOSE	Close Currency Definition
Currency Definition	CMC_FA_CURRENCY_DEF N_DELETE	DELETE	Delete Currency Definition
Currency Definition	CMC_FA_CURRENCY_DEF N_NEW	CREATE	Create Currency Definition
Currency Definition	CMC_FA_CURRENCY_DEF N_REOPEN	REOPEN	Reopen Currency Definition
Currency Definition	CMC_FA_CURRENCY_DEF N_VIEW	VIEW	View Currency Definition
Currency Definition	CMC_FA_CURRENCY_DEF N_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
Currency Pair Definition	CMC_FA_CURRENCY_PAIR _DEFN_VIEW	VIEW	View Currency Pair Definition
Currency Exchange Rate	CMC_FA_CURRENCY_RAT E_MASTER_AMEND	UNLOCK	Modify Currency Exchange Rate
Currency Exchange Rate	CMC_FA_CURRENCY_RAT E_MASTER_AUTHORIZE	AUTHORIZE	Authorize Currency Exchange Rate
Currency Exchange Rate	CMC_FA_CURRENCY_RAT E_MASTER_CLOSE	CLOSE	Close Currency Exchange Rate
Currency Exchange Rate	CMC_FA_CURRENCY_RAT E_MASTER_DELETE	DELETE	Delete Currency Exchange Rate

Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
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
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

Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
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	RESOURCE_AGGREGATE	Retrieve Aggregate Data for External Deposit Account
External Deposit Account	CMC_FA_EXTERNALDEPOSIT_PERMITTED_ACTIONS	PERMITTED_ACTIONS	External Deposit Account Entity Actions
External Deposit Account	CMC_FA_EXTERNALDEPOSIT_REMOVE_RESOURCE_LOCK	REMOVE_RESOURCE_LOCK	Remove Lock of Resource for an External Deposit Account
External Deposit Account	CMC_FA_EXTERNALDEPOSIT_GET_RESOURCE_HISTORY	GETRESOURCEHIST	Get Resource History for an External Deposit Account
External Deposit Account	CMC_FA_EXTERNALDEPOSIT_GET_UNAUTHORIZED_RESOURCES	GETUNAUTHORIZED_RESOURCES	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
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



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_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_VIRTUAL_ACCOUNT_STRUCTURED_ADDRESS_NEW	CREATE	Create structured address for an external virtual account
External Virtual Account Structured Address (API)	CMC_FA_EXT_VIRTUAL_ACCOUNT_STRUCTURED_ADDRESS_AMEND	MODIFY	Modify Structured Address of External Virtual Account
External Virtual Account Structured Address (API)	CMC_FA_EXT_VIRTUAL_ACCOUNT_STRUCTURED_ADDRESS_VIEWALL	GET ALL	Summary View
External Virtual Account Structured Address (API)	CMC_FA_EXT_VIRTUAL_ACCOUNT_STRUCTURED_ADDRESS_VIEW	GET BY NATURAL KEY	Specific Virtual Account's Structured Address View
External Virtual Account Structured Address (API)	CMC_FA_EXT_VIRTUAL_ACCOUNT_STRUCTURED_ADDRESS_CLOSE	CLOSE	Closing Structured Address of a Specific Virtual Account
External Virtual Account Structured Address (API)	CMC_FA_EXT_VIRTUAL_ACCOUNT_STRUCTURED_ADDRESS_REOPEN	REOPEN	Reopen Structured Address of Virtual Account
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

Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
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
External System Services (ECA System APIs)	CMC_FA_ECA_SYSTEM_LOV	LOV	ECA System LOV

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_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
External System Services (Upload Source Preference APIs)	CMC_FA_UPLOAD_SOURCE_PREF_AMEND	AMEND	Amend Upload Source Preference

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_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
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

Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
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_GETDSLBYDOM	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
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

Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
<b>BIC Directory</b>	CMC_FA_BIC_DIRECTORY_AUTHORIZE	REJECT	BIC Directory Rejection API
<b>Checklist</b>	CFPM_FA_CHECKLIST_CREATE	CREATE	Checklist Create
<b>Checklist</b>	CFPM_FA_CHECKLIST_DELETE	DELETE	Checklist Submit
<b>Checklist</b>	CFPM_FA_CHECKLIST_FINAL_GET	FETCH	Checklist Latest Get
<b>Checklist</b>	CFPM_FA_CHECKLIST_ID_GET	FETCH	Checklist Get By ID
<b>Checklist</b>	CFPM_FA_CHECKLIST_SUBMIT	SUBMIT	Checklist Submit
<b>Checklist</b>	CFPM_FA_CHECKLIST_UPDATE	UPDATE	Checklist Update
<b>Checklist</b>	CMC_FA_CHECKLIST_GET_BY_ID	FETCH	Fetch Checklist Details by ID
<b>Checklist</b>	CMC_FA_CHECKLIST_GET_FINAL	FETCH	Fetch submitted Checklist Details by ID
<b>Process Code</b>	TFPM_FA_CMC_PRCODE_MA_AUTHORIZE	AUTHORIZE	Authorize Process Code
<b>Process Code</b>	TFPM_FA_CMC_PRCODE_MA_CLOSE	CLOSE	Close Process Code
<b>Process Code</b>	TFPM_FA_CMC_PRCODE_MA_CREATE	CREATE	Create Process Code
<b>Process Code</b>	TFPM_FA_CMC_PRCODE_MA_DELETE	DELETE	Delete Process Code
<b>Process Code</b>	TFPM_FA_CMC_PRCODE_MA_LOV	VALIDATION	Validate Process Code
<b>Process Code</b>	TFPM_FA_CMC_PRCODE_MA_MODIFY	UPDATE	Update Process Code
<b>Process Code</b>	TFPM_FA_CMC_PRCODE_MA_REOPEN	REOPEN	Reopen Process Code
<b>Process Code</b>	TFPM_FA_CMC_PRCODE_MA_VIEW	FETCH	View Process Code
<b>Process Code</b>	CMC_FA_PROCESSCODE_PHASES	FETCH	Fetch Process Code
<b>Process Code</b>	TFPM_FA_CMC_PRCODE_MA_AUTHORIZE	REJECT	Rejection API
<b>cmc-ml-indb-services</b>	CMC_FA_ML_TS_USECASE_MODIFY	UNLOCK	Modifies Specific Usecase Setting
<b>cmc-ml-indb-services</b>	CMC_FA_ML_TS_USECASE_GETBYID	VIEW	Fetches Specific Usecase Setting
<b>cmc-ml-indb-services</b>	CMC_FA_ML_TS_USECASE_GETALL	GETSUMMARY	Fetches All Usecase Settings

Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
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_UNAUTHORIZED	GETUNAUTHORIZED	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_HISTORY	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_DATA_COLUMNS	GETDATA COLUMNS	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 Obama Products
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
cmc-ml-indb-services	CMC_FA_ML_CORRELATION	CORRELATION	Perform Correlation
cmc-ml-indb-services	CMC_FA_ML_POSITIVE_TARGET	GETPOSITIVE TARGET	Get Positive Target Value
cmc-ml-indb-services	CMC_FA_ML_COST_MATRIX	GETCOSTMATRIX	Fetch Cost Matrix

Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
cmc-ml-indb-services	CMC_FA_ML_SAVE_COST_MATRIX	SAVECOSTMATRIX	Save Cost Matrix
cmc-ml-indb-services	CMC_FA_ML_TS_USECASE_MONITORING	GETMODEL MONITORING	Model Monitoring
cmc-ml-indb-services	CMC_FA_ML_TS_USECASE_MONITORING_DETAILS	GETMODEL MONITORINGDETAILS	Model Monitoring Details
cmc-ml-indb-services	CMC_FA_ML_TS_USECASE_SAVE_AUTOMOD	GETAUTOM ODDetails	Save Model Monitoring Automod
cmc-ml-indb-services	CMC_FA_ML_TS_USECASE_GET_AUTOMOD	SAVEAUTOM ODS	Get Model Monitoring Automod
cmc-ml-indb-services	CMC_FA_ML_TS_USECASE_TRAIN_INF_CHECK	TRAININF CHECK	Check Train And Inference Data Source
cmc-fc-ai-ml-services	CMC_FA_POLLER_FLAG	SETPOLLER FLAG	Sets the poller 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



Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
<b>cmc-nlp-maintenance-services</b>	CMC_NLP_FA_MOD_MNG MNT_TAGPARAMS	TAGPARAMS	Model Management Tag Parameters
<b>cmc-nlp-maintenance-services</b>	CMC_NLP_FA_ANNOTATOR _ERROR_DATA	FETCHERRO RDATA	Annotator service to return Doc id and file name for Error status
<b>cmc-nlp-maintenance-services</b>	CMC_NLP_FA_ANNOTATOR _CLASS_FILE	UPLOADCLA SSFILE	Annotator service to save classification file
<b>cmc-nlp-maintenance-services</b>	CMC_NLP_FA_ANNOTATOR _ANNOTATED_FILE	UPLOADANN OTATEDFILE	Annotator service to save annotated file
<b>cmc-nlp-maintenance-services</b>	CMC_NLP_FA_MOD_MNG MNT_PUT	MODIFYREC ORD	Model_Management Modifying
<b>cmc-nlp-maintenance-services</b>	CMC_NLP_FA_ONL_PRC S NG_PROCESS	PROCESSFI LE	Online Processing Process File
<b>cmc-nlp-maintenance-services</b>	CMC_NLP_FA_ONL_PRC S NG_TRAIN	TRAINMODE L	Online Processing Model Train
<b>cmc-nlp-maintenance-services</b>	CMC_NLP_FA_ONL_PRC S NG_SAVE	SAVEMODEL	Online Processing Model Save
<b>cmc-nlp-maintenance-services</b>	CMC_NLP_FA_ONL_PRC S NG_SERV	PROCESSFI LE	Online Processing Process File
<b>cmc-nlp-maintenance-services</b>	CMC_NLP_FA_TAG_CREATI ON_GET	GETALL	Tag Creation Get all
<b>cmc-nlp-maintenance-services</b>	CMC_NLP_FA_TAG_CREATI ON_GETBY_ID	GETBYID	Tag Creation Getting By ID
<b>cmc-nlp-maintenance-services</b>	CMC_NLP_FA_TAG_CREATI ON_POST	SAVERECOR D	Tag Creation Saving
<b>cmc-nlp-maintenance-services</b>	CMC_NLP_FA_TAG_CREATI ON_PUT	MODIFYREC ORD	Tag Creation Modifying
<b>cmc-nlp-maintenance-services</b>	CMC_NLP_FA_TAG_CREATI ON_AUTHORIZE	AUTHORIZE	Tag Creation Authorize
<b>cmc-nlp-maintenance-services</b>	CMC_NLP_FA_TAG_CREATI ON_AUTHQUERY	AUTHQUERY	Tag Creation Auth
<b>cmc-nlp-maintenance-services</b>	CMC_NLP_FA_TAG_CREATI ON_CLOSE	CLOSEREC ORD	Tag Creation Close
<b>cmc-nlp-maintenance-services</b>	CMC_NLP_FA_TAG_CREATI ON_DELETE	DELETE	Tag Creation Delete

Table B-1 (Cont.) List of Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
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
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_MODMNGMENT_GET_RUNREF	GETRUNREFS	Get Run Reference By Usecase
cmc-nlp-maintenance-services	CMC_NLP_FA_MODMNGMENT_EXPORT_MODEL	EXPORTMODEL	Export NLP Models
cmc-nlp-maintenance-services	CMC_NLP_FA_MODMNGMENT_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

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