

Oracle Banking Common Core User Guide

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Oracle Banking Common Core User Guide

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1 Preface

1.1 Introduction

This user guide is designed to help you quickly get acquainted with the many functions routinely executed every day.

1.2 Audience

This user manual 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.

1.3 Document Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

1.4 Acronyms and Abbreviations

Following are some of the acronyms and abbreviations you are likely to find in this user manual:

Abbreviation	Description
System	Core Maintenance Module
NLP	Natural Language Processing

1.5 List of Topics

This user manual is organized as follow:

Topics	Description
Multi Entity Maintenance	This topic describes about Multi Entity Maintenance module.
Core Maintenance	This topic describes about Core Maintenance module.
NLP Framework	This topic describes about NLP Framework.
Error Codes and Messages	This topic describes list of error codes and messages.
List of Glossary	This topic has alphabetical list of Core Maintenance processes with page references for quick navigation.

1.6 Related Documents

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

- Oracle Banking Security Management System User Guide
- Getting Started User Guide

1.7 Symbols

This user manual may refer to the following symbols:

→	Represents Results
---	--------------------

2 Multi Entity Maintenance

This section of the user guide is designed to help multi entity admins to create new entities, users and entity admins.

Prerequisites: Multi entity admin user creation scripts should be run and multi entity admin user should be created in the LDAP. Please refer *Plato Infrastructure Services Installation Guide* for more details.

2.1 Entities

Multi entity admins can configure new entities.

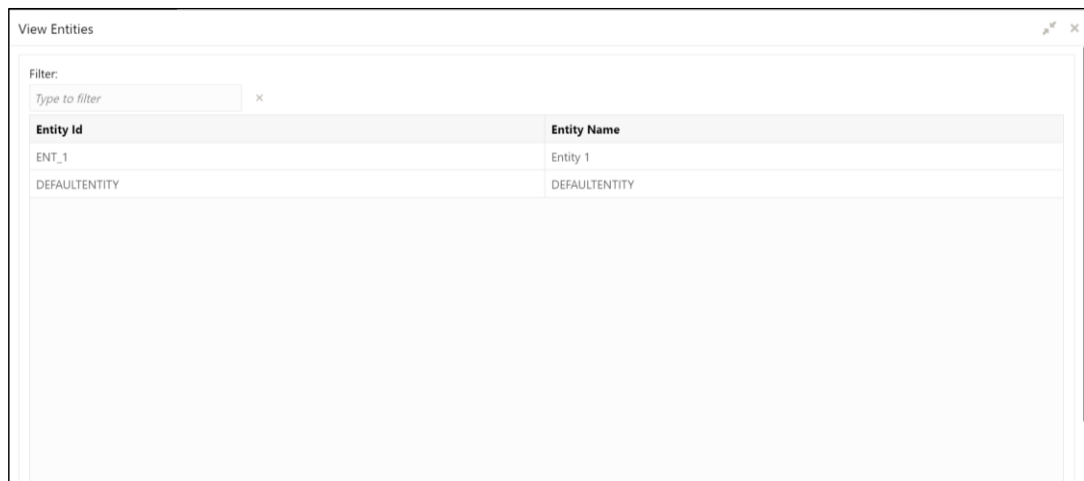
2.1.1 View Entities

The summary screen provides a list of all entities.

1. From **Home** screen, click **Entities**. Under **Entities**, click **View Entities**.

→ The **View Entities** screen is displayed.

Figure 1: View Entities



2. Provide the details in the relevant data fields. Mandatory data fields are indicated accordingly. For more information on menus, refer to [Table 1: View Entities – Field Description](#).

Table 1: View Entities – Field Description

Field	Description
Entity Id	Displays the entity Id of the entity.
Entity Name	Displays the name of the entity.

2.1.2 Create Entity

The maintenance screen allows multi entity admins to configure a new entity.

1. From **Home** screen, click **Entities**. Under **Entities**, click **Create Entity**.

→ The **Create Entity** screen is displayed.

Figure 2: Create Entity

2. Provide the details in the relevant data fields. Mandatory data fields are indicated accordingly. For more information on menus, refer to [Table 2: Create Entity – Field Description](#).

Table 2: Create Entity – Field Description

Field	Description
Entity Id	Specify the entity Id for the entity. This field is mandatory.
Entity Name	Specify the name of the entity. This field is mandatory.
HO Branch Code	Specify the head office branch code of the entity. This field is mandatory.
HO Branch Name	Specify the head office branch name of the entity. This field is mandatory.
HO Branch Address	Specify the head office branch address of the entity. This field is mandatory.
Host Code	Specify the host code. This field is mandatory.
Country	Select the head office branch country code. This field is mandatory.

Field	Description
Current HO Branch Posting Date	Select the head office branch current posting date. This field is mandatory.
Previous HO Branch Posting Date	Select the head office branch previous posting date. This field is mandatory.
Next HO Branch Posting Date	Select the head office branch next posting date. This field is mandatory.
Bank Name	Specify the bank name. This field is mandatory.
Bank Code	Specify the bank code. This field is mandatory.
Application JNDI Mapping By default, application Ids that require a JNDI appear. You can click + to add multiple application jndi mappings and click - to remove an application jndi mapping.	
Application Id	Click Search and select the required application Ids from the list.
JNDI	Specify the JNDI for the application Id.

- Click **Save**. You can view the confirmation entity details in the [View Entities](#).

2.2 Users

Multi entity admins can create entity admins and users.

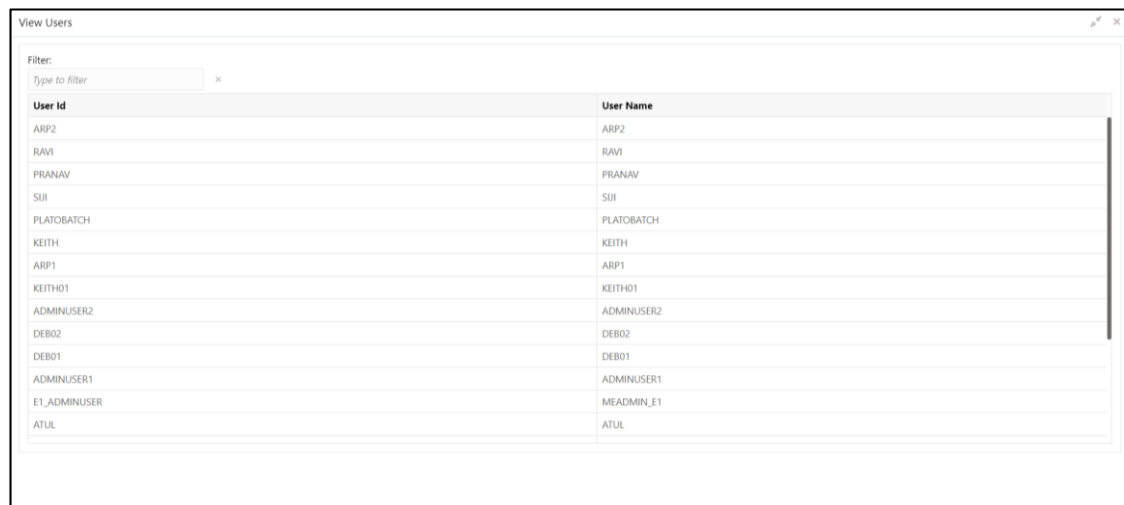
2.2.1 View Users

The summary screen provides a list of configured users.

1. From **Home** screen, click **Users**. Under **Users**, click **View Users**.

→ The **View Users** screen is displayed.

Figure 3: View Users



User Id	User Name
ARP2	ARP2
RAV1	RAV1
PRANAV	PRANAV
SUII	SUII
PLATOBATCH	PLATOBATCH
KEITH	KEITH
ARP1	ARP1
KEITH01	KEITH01
ADMINUSER2	ADMINUSER2
DEB02	DEB02
DEB01	DEB01
ADMINUSER1	ADMINUSER1
E1_ADMINUSER	MEADMIN_E1
ATUL	ATUL

2. Provide the details in the relevant data fields. Mandatory data fields are indicated accordingly. For more information on menus, refer to [Table 3: View Users – Field Description](#).

Table 3: View Users – Field Description

Field	Description
User Id	Displays the User Id.
User Name	Displays the User Name.

2.2.2 Create User

The maintenance screen allows multi entity admins to configure a new entity.

1. From **Home** screen, click **Users**. Under **Users**, click **Create User**.

→ The **Create User** screen is displayed.

Figure 4: Create User

2. Provide the details in the relevant data fields. Mandatory data fields are indicated accordingly. For more information on menus, refer to [Table 4: Create User – Field Description](#).

Table 4: Create User – Field Description

Field	Description
User Id	Specify the user Id. This field is mandatory.
User Name	Specify the user name. This field is mandatory.
Locale	Specify the user locale. This field is mandatory.
Email ID	Specify the user email ID. This field is mandatory.
Start Date	Select the user start date. The start date of the user should greater than the Current HO Branch Posting Date. This field is mandatory.
End Date	Select the user end date. This field is mandatory.

Field	Description
Entity Mapping Click + to add a row and provide the required details.	
Entity Id	Click Search and select the entity to which the user belongs.
Home Entity	Select whether the entity is user's home entity. Only one entity can be selected as Home Entity for a user
Entity Admin	Select whether the user is an entity admin of the entity. Marking a user as Entity Admin will give rights to the user to perform the following actions when logged in to that entity. <ul style="list-style-type: none"> • Modify the details of the users in the entity. • Create branches in the entity • Create roles in the entity. • Assign the roles and branches to the users.

3. Click **Save**. You can view the confirmation entity details in the [View Users](#).

3 Core Maintenance

This section is designed to help you quickly get acquainted with the many functions routinely executed everyday.

Prerequisites:

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

This section contains the following topics:

- [3.1 Additional Field Maintenance](#)
- [3.2 Advice](#)
- [3.3 Amount Text Language](#)
- [3.4 BIC Directory](#)
- [3.5 Branch EOD](#)
- [3.6 Country Code](#)
- [3.7 Currency Definition](#)
- [3.8 Currency Exchange Rate](#)
- [3.9 Currency Holiday Master](#)
- [3.10 Currency Pair Definition](#)
- [3.11 Currency Rate Type](#)
- [3.12 Customer Category](#)
- [3.13 ECA System](#)
- [3.14 External Bank Parameters](#)
- [3.15 External Branch Parameters](#)
- [3.16 External Chart Account](#)
- [3.17 External Customer](#)
- [3.18 External Customer Account](#)
- [3.19 External Customer Account Structured Address](#)
- [3.20 External Virtual Account Structured Address](#)
- [3.21 Forget Process](#)
- [3.22 Host Code](#)
- [3.23 Language Code](#)
- [3.24 Local Holiday](#)

- [3.25 Media](#)
- [3.26 Process Code](#)
- [3.27 System Dates](#)
- [3.28 Transaction Code](#)
- [3.29 Upload Source](#)
- [3.30 Upload Source Preference](#)
- [3.31 Pricing Source System](#)

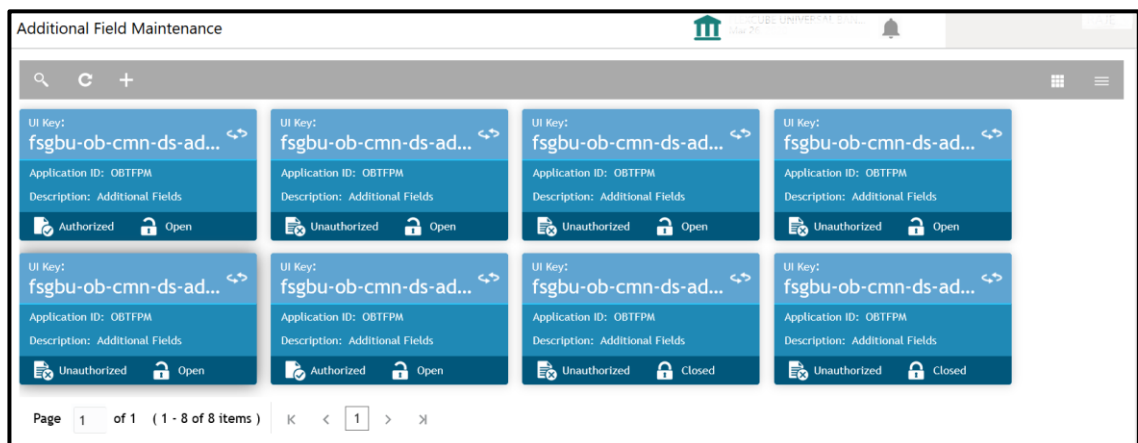
3.1 Additional Field Maintenance

This screen is used to configure and maintain the additional fields for the transaction screens. To process this screen, perform the following steps:

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

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

Figure 5: Additional Field Maintenance Summary



For more information on fields, refer to [Table 5: Additional Field Maintenance Summary – Field Description](#).

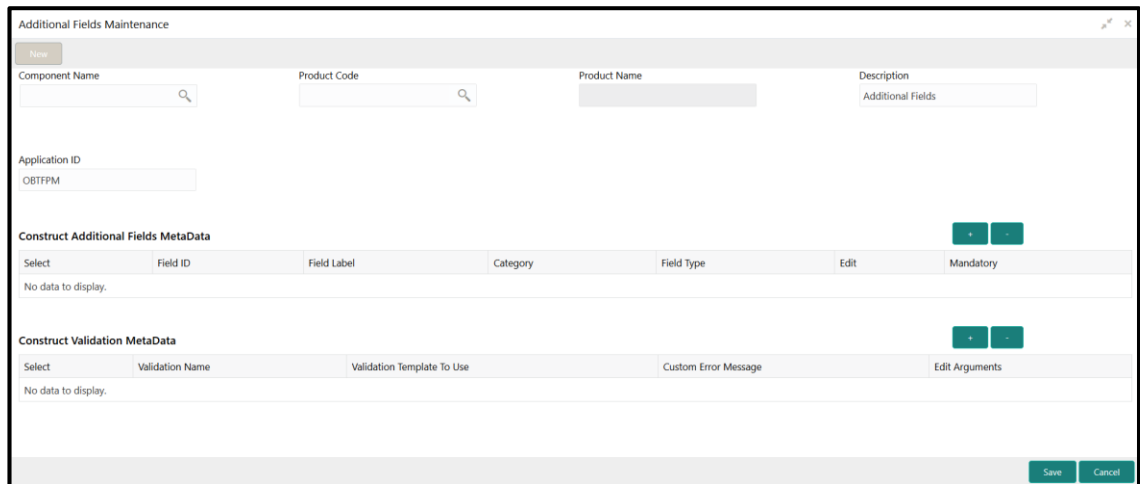
Table 5: Additional Field Maintenance Summary – Field Description

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

2. On **Additional Field Maintenance Summary** screen, click  icon.

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

Figure 6: Additional Fields Maintenance



3. Provide the details in the relevant data fields. Mandatory data fields are indicated accordingly. For more information on menus, refer to [Table 6: Additional Fields Maintenance](#).

Table 6: Additional Fields Maintenance – Field Description

Field	Description
Component Name	Click Search icon and select the component name from the list of
Product Code	Click Search icon and select the product code from the list of
Product Name	Displays the product name for the specified product code.
Description	Displays the description as Additional Fields , and it can be modified.
Application ID	Displays the Application ID.
+ icon	Click this icon to add a new row.
- icon	Click this icon to delete a row, which is already added.
Construct Additional Fields MetaData	Specify the details under this section to configure metadata for each field.
Select	Check this box to select/unselect a row.
Field ID	Specify the field ID.
Field Label	Specify the field label.
Category	Specify the category.

Field	Description
Field Type	Select the field type from the drop-down values.
Edit	Click this icon to edit the fields in the row.
Mandatory	Check this box if the field needs to be configured as mandatory.
Construct Validation MetaData	Specify the details under this section for validations to be applied on configured fields.
Select	Check this box to select/unselect a row.
Validation Name	Specify the validation name.
Validation Template To Use	Select the template to be used for the validation.
Custom Error Message	Specify the error message that needs to be displayed for the
Edit Arguments	Click this icon to edit the fields in the row.

- Click **Save**. You can view the confirmation advice details in the [Additional Field Maintenance Summary](#).

3.2 Advice

You can configure various BIP advices that are available for the process.

This section contains following subsections:

- [3.2.1 Advice Summary](#)
- [3.2.2 Advice Maintenance](#)

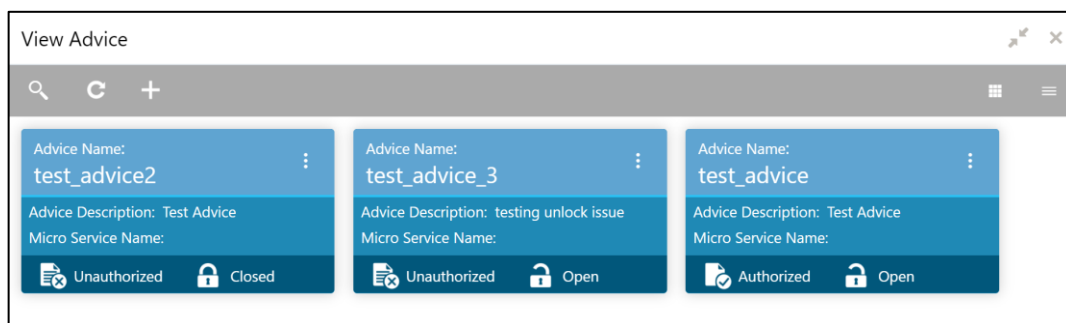
3.2.1 Advice Summary

The summary screen provides a list of configured advice. You can configure an advice for a process using the [Advice Maintenance](#). To process this screen, perform the following steps:

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

→ The **View Advice** screen is displayed.

Figure 7: View Advice



For more information on menus, refer to [Table 7: View Advice – Field Description](#).

Table 7: View Advice – Field Description

Field	Description
Advice Name	Displays the name of the advice.
Advice Description	Displays information about the advice.
Micro Service Name	Displays the name of the micro service.
Status	Displays the status of the record.

3.2.2 Advice Maintenance

The maintenance screen allows you to configure advices. To process this screen, perform the following steps:


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


→ The **Create Advice** screen is displayed.

Figure 8: Create Advice

3. Provide the details in the relevant data fields. Mandatory data fields are indicated accordingly. For more information on menus, refer to [Table 8: Create Advice – Field Description](#).

Table 8: Create Advice – Field Description

Field	Description
Advice Name	Specify the name of the advice.
Advice Description	Specify the information about the advice.
Micro Service Name	Specify the name of the micro service.
Swift Micro Service	Specify the information about the swift micro service.
Micro Service Endpoint	Specify the endpoint micro service.
Application Name	Specify the application name for which advice is generated.
Application Description	Specify the additional information about the application.
	Click + icon to add multiple media details.

Field	Description
	Click - icon to remove media details.
Media	Search and select the required media.
Branch	Search and select the required branch.
Currency	Search and select the required currency.
Report Locale	Specify the locale report details.
Report Absolute Path	Specify the report absolute path.
Format	Select a download file format for an advice from the dropdown list. The formats available are, PDF, PPTX, HTML, XLS, and RTF.
Swift Endpoint	Specify the swift endpoint.

- Click **Save**. You can view the confirmation advice details in the [Advice Summary](#).

3.3 Amount Text Language

You can configure an amount text language.

This section contains following subsections:

- [3.3.1 Amount Text Language Summary](#)
- [3.3.2 Amount Text Language Maintenance](#)

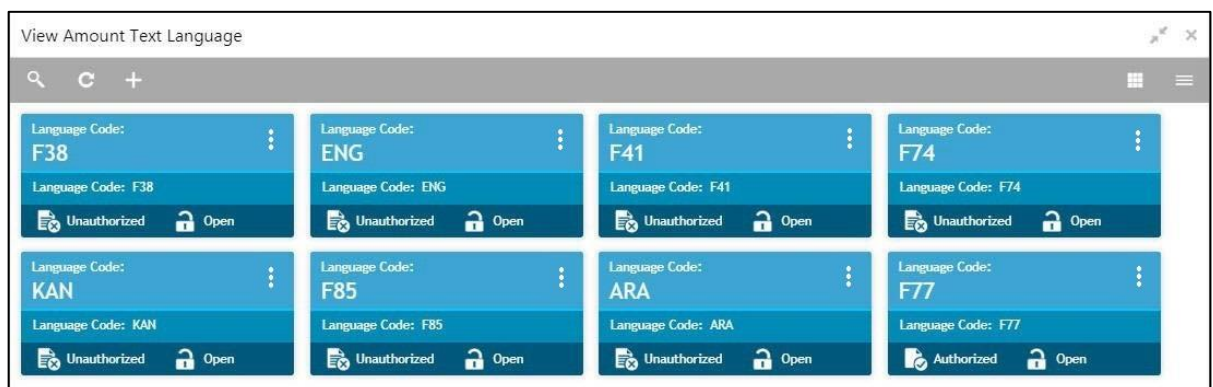
3.3.1 Amount Text Language Summary

The summary screen provides a list of configured amount text language. You can configure an amount text language using the [Amount Text Language Maintenance](#). To process this screen, perform the following steps:

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

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

Figure 9: View Amount Text Language



For more information on menus, refer to [Table 9: View Amount Text Language – Field Description](#).

Table 9: View Amount Text Language – Field Description

Field	Description
Language Code	Displays the language code associated with the amount word.
Status	Displays the status of the record.

3.3.2 Amount Text Language Maintenance

The maintenance screen allows you to configure amount text language. To process this screen, perform the following steps:

1. From **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 is displayed.

Figure 10: Create Amount Text Language

3. Provide the details in the relevant data fields. Mandatory data fields are indicated accordingly. For more information on menus, refer to [Table 10: Create Amount Text Language – Field Description](#).

Table 10: Create Amount Text Language – Field Description

Field	Description
Language Code	Search and select the required language code.
Amount Word Currency List	Specify the amount word currency details.
CCY Symbol	Specify the CCY symbols.

Field	Description
Decimals As Fraction	Select a decimals as fraction value from the drop-down list.
Final Text	Specify the final text for the amount word currency list.
CCY	Search and select the CCY.
Post Decimal	Specify the post decimal details.
Pre Decimal	Specify the pre decimal details.
Text Before	Select an option for the before text.
Text Between	Specify the text that must appear between the amount word currency list.
Amount Word Text List	Specify the amount word text details.
	Click + icon to add the required amount word text list details.
	Click - icon to remove the required amount word text list details.
Amount	Select the amount details.
One Flag	Select an option for the amount word text list.
Text	Specify the text for the amount word.

- Click **Save**. You can view the configured amount text language details in the [Amount Text Language Summary](#).

3.4 BIC Directory

As part of setting up basic information, you must maintain Bank Identifier Codes (BIC). You can configure the BIC directory for a customer.

This section contains following subsections:

- [3.4.1 BIC Directory Summary](#)
- [3.4.2 BIC Directory Maintenance](#)

3.4.1 BIC Directory Summary

The summary screen provides a list of configured BIC directory. You can configure the BIC directory using the [BIC Directory Maintenance](#). To process this screen, perform the following steps:

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

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

Figure 11: View BIC Directory

For more information on menus, refer to [Table 11: View BIC Directory – Field Description](#).

Table 11: View BIC Directory – Field Description

Field	Description
Customer Number	Displays the number of the customer.
Sub-type Code	Displays the sub-type code associated with the customer number.
BIC Code	Displays the defined BIC code for the associated customer
Bank Name	Displays the name of the bank.
Status	Displays the status of the record.

3.4.2 BIC Directory Maintenance

The maintenance screen allows you to configure a BIC directory for a customer. To process this screen, perform the following steps:

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

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

Figure 12: Create BIC Directory

3. Provide the details in the relevant data fields. Mandatory data fields are indicated accordingly. For more information on menus, refer to [Table 12: Create BIC Directory – Field Description](#).

Table 12: Create BIC Directory – Field Description

Field	Description
BIC Code	Specify the unique BIC Code by which the bank is identified by SWIFT.
Bank Name	Specify the name for the bank.
Customer Number	Search and select the required customer number.
Customer Name	Based on the Customer Number selected, the information is auto-populated.
Bank Address 1-3	Based on the Customer Number selected, the information is auto-populated.
SWIFT Key	Specify the swift key details.
Telex Key	Specify the unique telex key for the BIC directory.

Field	Description
SWIFT Key Arrangement	Select the SWIFT key arrangement from the drop-down list.
Relationship	<p>Select one of the following options:</p> <ul style="list-style-type: none"> • No: If selected, indicates that the BIC Entity is not a customer of your bank • Mail: If selected, the BIC entity is not a recognized SWIFT entity but an address internal to your bank. In such cases, all correspondence directed to the particular BIC entity is sent as mail messages. • Keys: If selected, a SWIFT/Telex connectivity exists between your bank and the bank for which you are maintaining details. Subsequently, you must specify the SWIFT/Telex Key in the adjacent field.
Sub-type Code	Search and select the required sub-type code.
BEI Indicator	Based on the Sub-type Code selected, the information is auto-populated.
ADB Member	Select the ADB member from the drop-down list.
Payment Message	Specify the payment message details.
MT103+ Preferred	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.
Blacklisted	By default, this is disabled. If selected, indicates the BIC entity is blacklisted.
CUG Member	By default, this is disabled. If selected, indicates the BIC entity is a closed user group member. Remit Member: By default, this is disabled. If selected, indicates the customer is registered with MT 103 extended remittance information multiple user group.
Update During Upload	By default, this is disabled. If selected, updated the BIC directory during an upload.
Multi-Customer Credit Transfer	Specify the Multi-Customer Credit Transfer details.
Multi-Customer Credit Transfer	By default, this is disabled. If selected, indicates multiple credit transfer feature [MT102 support] exists between the bank and the BIC entity.

Field	Description
Generate 102+	By default, this is disabled. If selected, generates 102+ message.
Maximum Size in Bytes	Specify the maximum size.
Request for Transfer	Specify the Request for Transfer details.
Generate MT101	By default, this is disabled. If selected, indicates MT101 can be sent/received from this BIC. Select to generate MT101 message.
Number of Transactions Per Page	Specify the number of transactions to view per page. If you do not specify a value it is defaulted to 10.
Real Customer Number	Search and select the required real customer number.
Real Customer Name	Based on the Real Customer Number selected, the information is auto- populated.

- Click **Save**. You can view the configure BIC directory in the [BIC Directory Summary](#).

3.5 Branch EOD

You can invoke End of Day (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 (End of Transaction Input) stage.

This section contains following subsections:

- [3.5.1 Branch EOD Summary](#)
- [3.5.2 Branch EOD Maintenance](#)
- [3.5.3 Branch EOD Invoke](#)

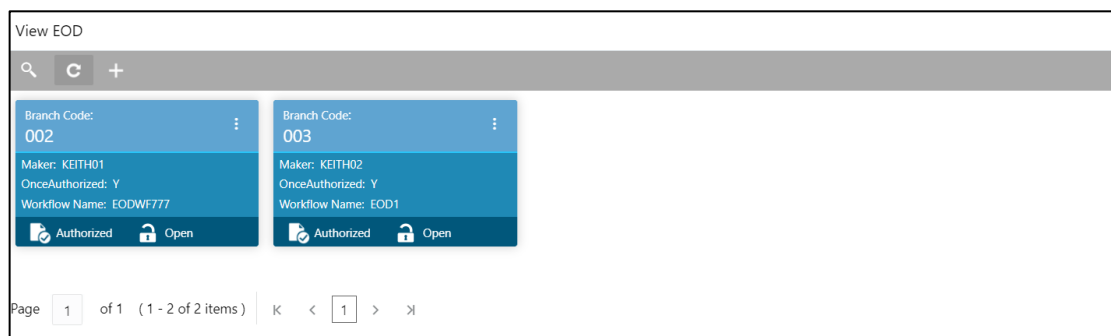
3.5.1 Branch EOD Summary

The summary screen provides list of branch workflow mappings. You can configure branch workflow mapping using the [Branch EOD Maintenance](#). To process this screen, perform the following steps:

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

→ The **View EOD** screen is displayed.

Figure 13: View EOD



For more information on menus, refer to [Table 13: View EOD – Field Description](#)

Table 13: View EOD – Field Description

Table 13: View EOD – Field Description

Field	Description
Branch Code	Displays the branch code details.
Workflow Name	Displays the name of the workflow.

Status	Displays the status of the record.
---------------	------------------------------------

3.5.2 Branch EOD Maintenance

The maintenance screen allows you to create/configure the EOD workflow with a Branch. To process this screen, perform the following steps:

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

→ The **Configure EOD** screen is displayed.

Figure 14: Configure EOD

3. Provide the details in the relevant data fields. Mandatory data fields are indicated accordingly. For more information on menus, refer to [Table 14: Configure EOD – Field Description](#).

Table 14: Configure EOD – Field Description

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

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

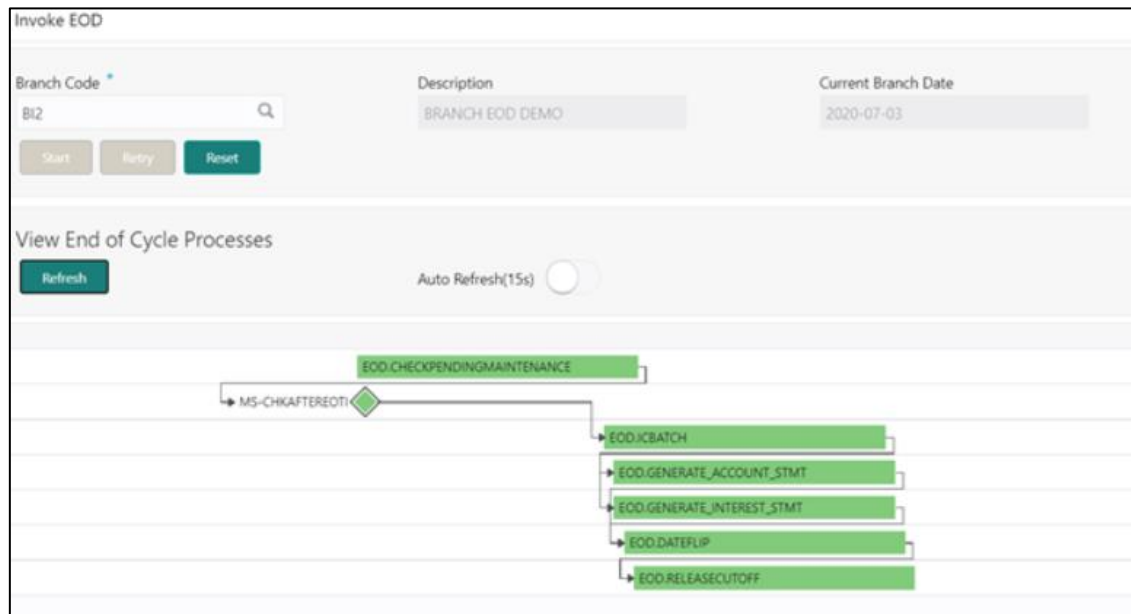
3.5.3 Branch EOD Invoke

The action screen allows you to invoke the branch EOD process as per branch and workflow mapping configured using [Branch EOD Maintenance](#). To process this screen, perform the following steps:

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

→ The **Invoke EOD** screen is displayed.

Figure 15: Invoke EOD



3. Provide the details in the relevant data fields. Mandatory data fields are indicated accordingly. For more information on menus, refer to [Table 15: Invoke EOD – Field Description](#).

Table 15: Invoke EOD – Field Description

Field	Description
Branch Code	Specify the branch code that is associated with the logged in user. This field is mandatory.
Description	Displays the description of the branch.
Current Branch Date	Displays the current branch date.

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 workflow from the failed task.

NOTE: **Retry** button will be enabled 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.

Table 16: EOD Task – Status Description

Status	Description
Green	Task is completed
Yellow	Task is in progress
Red	Task failed due to some error.
Grey	Task is scheduled but not executed
Diamond Shape	Task has reached a milestone stage where execution will be paused. Right-click on milestone stage and select “Proceed” to resume batch execution.

For more information on EOD stages, please refer to EOD Configurations Guide of the respective products.

3.6 Country Code

You can configure a country code.

This section contains following subsections:

- [3.6.1 Country Code Summary](#)
- [3.6.2 Country Code Maintenance](#)

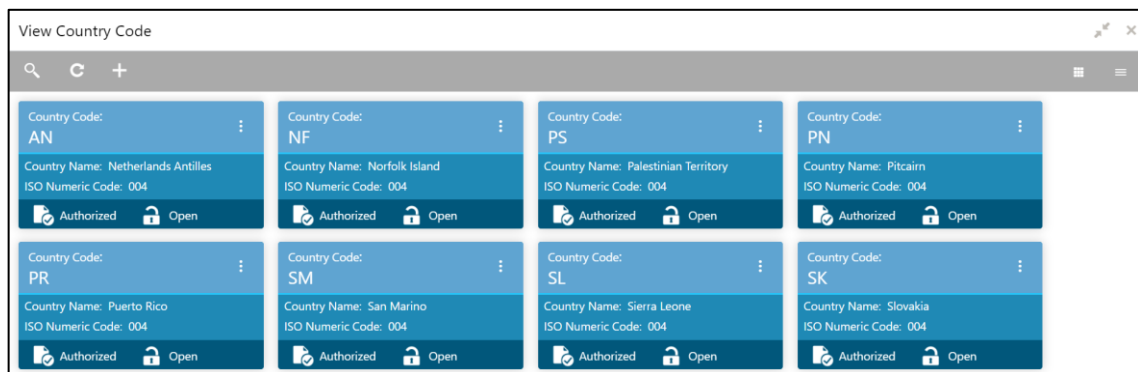
3.6.1 Country Code Summary

The summary screen provides a list of configured country code. You can configure a country code using the [Country Code Maintenance](#). To process this screen, perform the following steps:

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

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

Figure 16: View Country Code



For more information on menus, refer to [Table 17: View Country Code – Field Description](#).

Table 17: View Country Code – Field Description

Field	Description
Country Code	Displays the country code details.
Country Name	Displays the name of the country.
ISO Numeric Code	Displays the ISO numeric code details of the country code.
Status	Displays the status of the record.

3.6.2 Country Code Maintenance

The maintenance screen allows you to configure a country code. To process this screen, perform the following steps:

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

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

Figure 17: Create Country Code

3. Provide the details in the relevant data fields. Mandatory data fields are indicated accordingly. For more information on menus, refer to [Table 11: Create Country Code – Field Description](#).

Table 18: Create Country Code – Field Description

Field	Description
Country Code	Specify the country code.
Country Name	Specify the name of the country.
Alternate Country Code	Specify the alternate country code.
Region Code	Specify the region code.
ISO Country Code	Specify the ISO country code.
ISO Code	Specify the ISO code.
Limit Currency	Specify the limit currency.
Overall Limit	Specify the overall limit.

Field	Description
Blacklist	By default, this is disabled. If selected, indicates the country is blacklisted.
EU Member	By default, this is disabled. If selected, indicates the country is recognized by Swift as a part of the Intra European countries.
Generate 205	By default, this is disabled. If selected, indicates the cover message 205COV or 205 need to be generated for transactions involving this country. If you do not select this option, RTGS, 202 or 202COV message is generated.
IBAN Check Required	By default, this is disabled. If selected, indicates check required for an IBAN is mandatory.
BIC Clearing Code	By default, this is disabled. If selected, indicates the National ID in the BIC plus file is the clearing code. During upload of clearing codes from BIC plus file, the records belong to countries against which this box is selected.
Intra European	By default, this is disabled. If selected, indicates the country is an intra European country.

- Click **Save**. You can view the configured country code details in the [Country Code Summary](#).

3.7 Currency Definition

You can define the attributes of the currencies in which the bank can deal. For each currency, you can define attributes such as, the SWIFT code for the currency, the country 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 are available to the branches based on the currencies defined for the country linked to the branch.

This section contains following subsections:

- [3.7.1 Currency Definition Summary](#)
- [3.7.2 Currency Definition Maintenance](#)

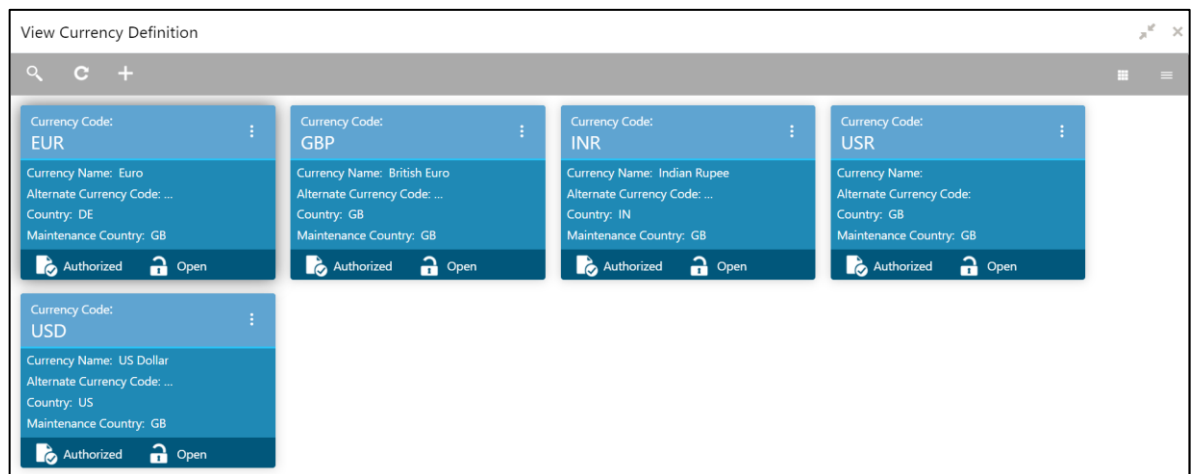
3.7.1 Currency Definition Summary

The summary screen provides a list of defined currency. You can define a currency using the Currency Definition Maintenance. To process this screen, perform the following steps:

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

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

Figure 18: View Currency Definition



For more information on menus, refer to [Table 19: View Currency Definition – Field Description](#).

Table 19: View Currency Definition – Field Description

Field	Description
Currency Code	Displays the code of the currency.
Currency Name	Displays the name of the currency.

Field	Description
Alternate Currency Code	Displays the code of the alternate currency.
Country	Displays the country associated with the currency.
Maintenance Country	Displays the maintenance country.
Status	Displays the status of the record.

3.7.2 Currency Definition Maintenance

The maintenance screen allows you to define currency. To process this screen, perform the following steps:

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

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

Figure 19: Create Currency Definition

The screenshot shows the 'Create Currency Definition' screen with the following sections and fields:

- Top Section:** Currency Code * (text), Maintenance Country * (search), Currency Name (text), Alternate Currency Code (text), Currency Type (text), ISO Numerical Currency Code (text).
- Second Section:** Currency Country * (search), Currency Decimals * (dropdown), Currency Interest Method * (text), Currency Spot Days * (dropdown), Foreign Exchange Netting Days (dropdown), Settlement Message Days * (dropdown), Position GL (search), Position Equivalent GL (search), Currency Tolerance Limit (text), Index Base Currency (search), Commodity Code (radio).
- Cut Off Time:** Cut Off Days (dropdown), Cut Off Hour * (dropdown), Cut Off Min * (dropdown), CLS Currency (radio).
- Generate 103+:** (radio), Index Flag (radio), Euro Conversion Required (radio), New Cover Message Format Required (radio).
- Validate Tag-50F:** (radio).
- Rounding:** Currency Round Rule * (text), Currency Round Unit (dropdown).
- Currency Format Mask:** Currency Format Mask (radio), XXXXXXXXXX, XXXXXXXXXX.
- Euro Type:** Currency Euro Type (radio), EURO Currency, In Currency, Out Currency, EURO Closed.
- Auto Exchange Rate:** Credit Auto Exchange Rate Limit (text), Debit Auto Exchange Rate Limit (text).
- Currency Country Mapping:** Table with columns: Country code, Country Name, Currency Code. No data to display.
- Page:** Page 1 (0 of 0 items).
- Buttons:** Save, Cancel.



3. Provide the details in the relevant data fields. Mandatory data fields are indicated accordingly. For more information on menus, refer to [Table 20: Create Currency Definition – Field Description](#).

Table 20: Create Currency Definition – Field Description

Field	Description
Currency Code	Specify the currency code.
Maintenance Country	Search and select the required maintenance country.

Field	Description
Currency Name	Specify the name of the currency.
Alternate Currency Code	Specify the code of the alternate currency.
Currency Type	Specify the currency type.
ISO Numerical Currency Code	Specify the International Standardization Organization numerical currency code.
Currency Country	Search and select the required currency country.
Currency Decimals	Select the currency decimals.
Currency Interest Method	Select the currency interest method from the drop-down list.
Currency Spot Days	Select the number of spot working days applicable for the currency.
Foreign Exchange Netting Days	Select the number of days for the foreign exchange netting.
Settlement Message Days	Select the settlement message days.
Position GL	Search and select the required position GL.
Position Equivalent GL	Search and select the required position equivalent GL.
Currency Tolerance Limit	Specify the currency tolerance limit.
Index Base Currency	Search and select the required index base currency.
Commodity Code	By default, this is disabled. If selected, enables a commodity code.
Cut Off Time	Specify the cut off time details.
Cut Off Days	Select the cut off days for the payment transaction involving the currency.
Cut Off Hour	Select the hour of the day for the cut off.
Cut Off Min	Select the minute of the hour for the cut off.

Field	Description
CLS Currency	By default, this is disabled. If selected, allow customers of your bank to settle their FX deals via the CLS (Continuous Linked Settlements) Bank, you can identify the currency to be a CLS Currency. FX deals in the CLS currency is only eligible to be routed through the CLS bank.
Generate 103+	By default, this is disabled. If selected, generate outgoing MT 103 messages in the MT 103 + format.
Index Flag	By default, this is disabled. If selected, derives index rate of the currency.
Euro Conversion Required	By default, this is disabled. If selected, indicates the Euro conversion is required.
New Cover Message Format Required	By default, this is disabled. If selected, indicates a new cover message format is required.
Validate Tag-50F	By default, this is disabled. If selected, indicates validations must be performed for the 50F details captured for the ordering customer during contract input.
Rounding	Specify the Rounding details of currency.
Currency Round Rule	Select the currency round rule from the dropdown list.
Currency Round Unit	Select the currency round unit.
Currency Format Mask	Specify the currency format mask details.
Currency Format Mask	Select one of the currency format.
Euro Type	Specify the Euro Type details.
Currency Euro Type	Select one of the currency Euro type.
Auto Exchange Rate	Specify the Auto exchange rate details.
Credit Auto Exchange Rate Limit	Specify the credit automatic exchange rate limit.
Debit Auto Exchange Rate Limit	Specify the debit automatic exchange rate limit.

Field	Description
Currency Country Mapping	Specify the currency country mapping details.
	Click + icon to add the required currency country mapping details.
	Click - icon to remove the required currency country mapping details.
Country Code	Search and select the required country code.
Country Name	Specify the name of the country.
Currency Code	Search and select the required currency code.

Cut Off Time

Refers to the time by which all transactions involving a currency should be generated. For a currency, you 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.

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 1200 hrs, if the payment is received on 1st June 2018, it must be received before 1200 hrs.

4. Click **Save**. You can view the defined currency in the [Currency Definition Summary](#).

3.8 Currency Exchange Rate

You can maintain exchange rates for a currency pair, the rates at which you 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. You can define a rate type which you would like to associate with a transaction type example: CASH, TRAVCHKS, and so on.

You 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 section contains following subsections:

- [3.8.1 Currency Exchange Rate Summary](#)
- [3.8.2 Currency Exchange Rate Maintenance](#)

3.8.1 Currency Exchange Rate Summary

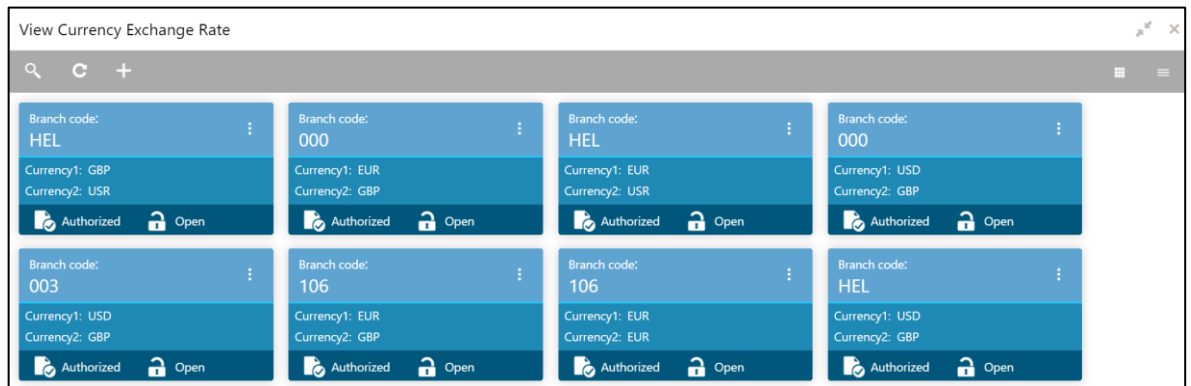
The summary screen provides a list of configured currency exchange rates. You can configure a currency exchange rate using the [Currency Exchange Rate Maintenance](#). To process this screen, perform the following steps:

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

2. Under **Currency Exchange Rate**, click **View Currency Exchange Rate**.

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

Figure 20: View Currency Exchange Rate



For more information on menus, refer to [Table 21: View Currency Exchange Rate – Field Description](#).

Table 21: View Currency Exchange Rate – Field Description

Field	Description
Branch Code	Displays the code of the branch.
Currency 1-2	Displays the currency associated with the branch code
Status	Displays the status of the record.

3.8.2 Currency Exchange Rate Maintenance

The maintenance screen allows you to configure a currency exchange rate. To process this screen, perform the following steps:



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

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

Figure 21: Create Currency Exchange Rate

3. Provide the details in the relevant data fields. Mandatory data fields are indicated accordingly. For more information on menus, refer to [Table 22: Create Currency Exchange Rate – Field Description](#).

Table 22: Create Currency Exchange Rate – Field Description

Field	Description
Branch Code	Search and select the required branch code.
Currency 1	Search and select the required currency.
Currency 2	Search and select the required currency.
Currency Rule	Specify the currency rule details.
	Click + icon to add the required details.
	Click - icon to remove the required details.
Rate Type	Select a rate type from the drop-down list.

Field	Description
Buy Rate	<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>1. Percentage</p> <p>If Spread Definition is selected as Percentage, then the buy rate is calculated as below:</p> <p>Buy Rate = Mid Rate-Buy Spread%</p> <p>Buy Spread% = Mid Rate*Buy Spread/100</p> <p>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>2. Points</p> <p>If Spread Definition is selected as Points, then the buy rate is calculated as below:</p> <p>Buy Rate = Mid Rate-Buy Spread</p> <p>For example, if Buy Spread is 5 then Buy Rate is 50-5 = 45.</p>
Buy Spread	Specify the buy spread details.
Mid Rate	Specify the mid-rate details.
Sale Spread	Specify the sale spread details.

Field	Description
Sale Rate	<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>1. Percentage</p> <p>If Spread Definition is selected as Percentage, then the sale rate is calculated as below:</p> <p>Sale Rate = Mid Rate+Sale Spread%</p> <p>Sale Spread% = Mid Rate*Sale Spread/100</p> <p>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>2. Points</p> <p>If Spread Definition is selected as Points, then the sale rate is calculated as below:</p> <p>Sale Rate = Mid Rate+Sale Spread</p> <p>For example, if Sale Spread is 5 then Sale Rate is 50+5 = 55.</p>
Rate Date	Select a rate date from the drop-down calendar.

- Click **Save**. You can view the configured currency exchange rate details in the [Currency Exchange Rate Summary](#).

3.9 Currency Holiday Master

You 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's 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, five years hence, you 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 section contains following subsections:

- [3.9.1 Currency Holiday Master Summary](#)
- [3.9.2 Currency Holiday Master Maintenance](#)

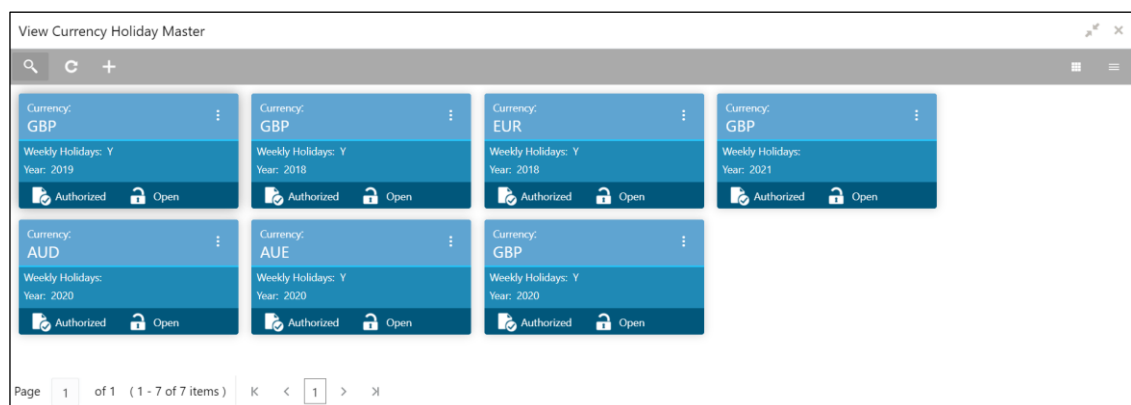
3.9.1 Currency Holiday Master Summary

The summary screen provides a list of configured currency holiday. You can configure a currency holiday using the [Currency Holiday Master Maintenance](#). To process this screen, perform the following steps:

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

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

Figure 22: View Currency Holiday Master



For more information on menus, refer to [Table 23: View Currency Holiday Master – Field Description](#).

Table 23: View Currency Holiday Master – Field Description

Field	Description
Currency	Displays the currency details.
Weekly Holidays	Displays the weekly holidays associated with the currency.
Status	Displays the status of the record.

3.9.2 Currency Holiday Master Maintenance

The maintenance screen allows you to configure a currency holiday. To process this screen, perform the following steps:

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

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

Figure 23: Create Currency Holiday Master

3. Provide the details in the relevant data fields. Mandatory data fields are indicated accordingly. For more information on menus, refer to [Table 24: Create Currency Holiday Master – Field Description](#).

Table 24: Create Currency Holiday Master – Field Description

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

4. Select the dates using the calendar. The selected dates appear in blue highlighted circle.
5. Click **Save**. You can view the configured currency holidays in the Currency Holiday Master Summary.

3.10 Currency Pair Definition

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, is determined through a third currency. The third currency is usually the US dollar, since the US dollar is quoted in all trading centers.

You 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 section contains following subsections:

- [3.10.1 Currency Pair Definition Summary](#)
- [3.10.2 Currency Pair Definition Maintenance](#)

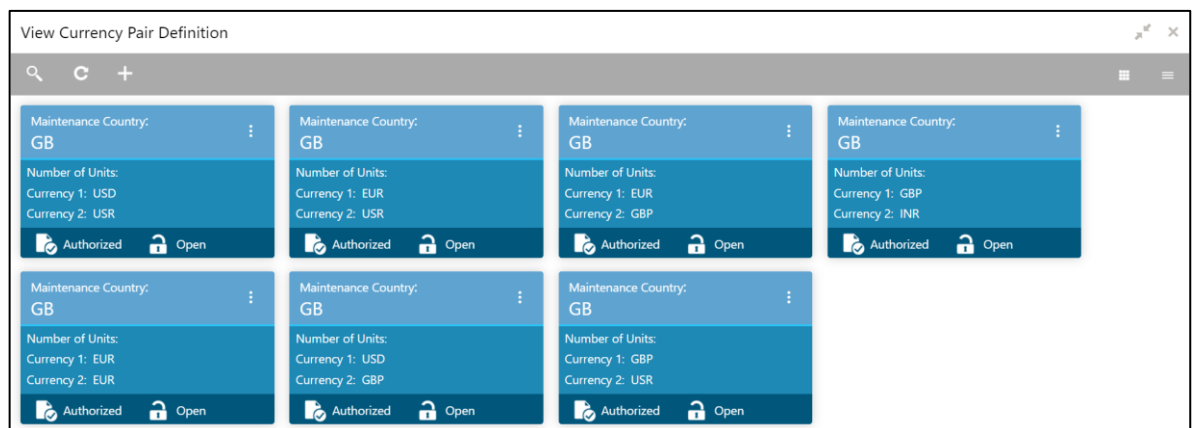
3.10.1 Currency Pair Definition Summary

The summary screen provides a list of define a currency pair. You can define a currency pair using the [Currency Pair Definition Maintenance](#). To process this screen, perform the following steps:

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

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

Figure 24: View Currency Pair Definition



For more information on menus, refer to [Table 25: View Currency Pair Definition – Field Description](#).

Table 25: View Currency Pair Definition – Field Description

Field	Description
Maintenance Country	Displays the maintenance country details.
Number of Units	Displays the number of units.
Currency 1-2	Displays the currency associated with the country.
Status	Displays the status of the record.

3.10.2 Currency Pair Definition Maintenance

The maintenance screen allows you to define currency pair. To process this screen, perform the following steps:

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

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

Figure 25: Create Currency Pair Definition

3. Provide the details in the relevant data fields. Mandatory data fields are indicated accordingly. For more information on menus, refer to [Table 26: Create Currency Pair Definition – Field Description](#).

Table 26: Create Currency Pair Definition – Field Description

Field	Description
Currency 1-2	<p>Search 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 you need to maintain exchange rates.</p> <p>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.</p>
Maintenance Country	Search and select the required maintenance country.

Field	Description
Check through Currency	By default, this is disabled. If selected, indicates a check through currency.
Through Currency	Search and select the required through currency for which the exchange rate between the currencies must be calculated.
Number of Units	Select one of the number of units.
Points Multiplier	Select the points multiplier.
Quotation	<p>Select one of the required quotation:</p> <ul style="list-style-type: none"> Direct method the exchange rate for the currency pair is quoted as follows: Buy rate = mid rate - buy spread Sell rate = mid rate + sell spread Ccy 1 = Rate x Ccy 2 Indirect method the exchange rate for the currency pair is quoted as follows: Buy rate = mid rate + buy spread Sell rate = mid rate - sell spread Ccy 2 = Rate x Ccy 1
Spread Definition	<p>Select one spread definition. The effective spread can be calculated using any of the following two methods:</p> <ul style="list-style-type: none"> Percentage: Spread/100 x mid rate Points: Spread x points multiplier <p>The method of spread definition that you specify applies to two instances:</p> <ul style="list-style-type: none"> While maintaining exchange rates for the currency pair While maintaining customer spread for the currency pair

4. Click **Save**. You can view the defined currency pair details in the [Currency Pair Definition Summary](#).

3.11 Currency Rate Type

You can configure a currency rate type.

This section contains following subsections:

- [3.11.1 Currency Rate Type Summary](#)
- [3.11.2 Currency Rate Type Maintenance](#)

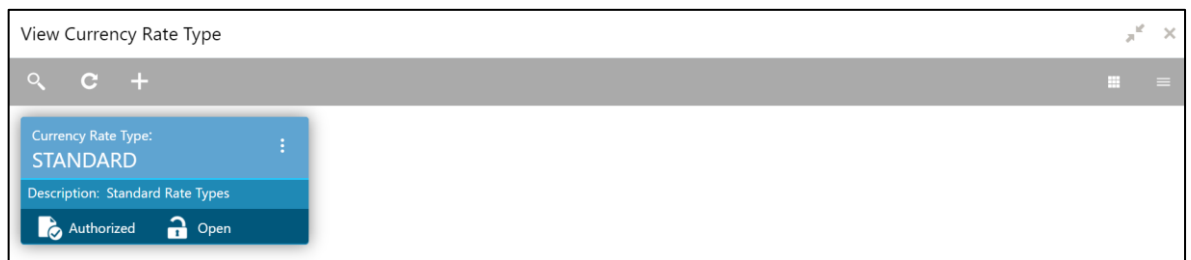
3.11.1 Currency Rate Type Summary

The summary screen provides a list of configured currency rate type. You can configure a currency rate type using the [Currency Rate Type Maintenance](#). To process this screen, perform the following steps:

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

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

Figure 26: View Currency Rate Type



For more information on menus, refer to [Table 27: View Currency Rate Type – Field Description](#).

Table 27: View Currency Rate Type – Field Description

Field	Description
Currency Rate Type	Displays the currency rate type.
Description	Displays additional information about the currency rate type.
Status	Displays the status of the record.

3.11.2 Currency Rate Type Maintenance

The maintenance screen allows you to configure currency rate type. To process this screen, perform the following steps:

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

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

Figure 27: Create Currency Rate Type

3. Provide the details in the relevant data fields. Mandatory data fields are indicated accordingly. For more information on menus, refer to [Table 28: Create Currency Rate Type – Field Description](#).

Table 28: Create Currency Rate Type – Field Description

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

4. Click **Save**. You can view the configured currency rate type details in the [Currency Rate Type Summary](#).

3.12 Customer Category

You can configure a customer category.

This section contains following subsections:

- [3.12.1 Customer Category Summary](#)
- [3.12.2 Customer Category Maintenance](#)

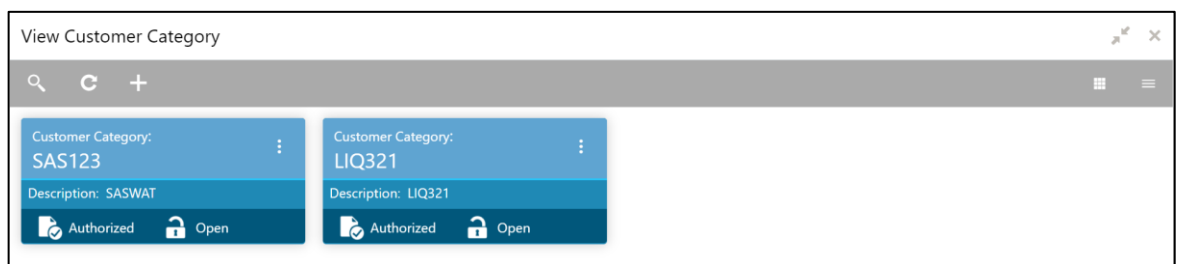
3.12.1 Customer Category Summary

The summary screen provides a list of configured customer category. You can configure a customer category using the [Customer Category Maintenance](#). To process this screen, perform the following steps:

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

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

Figure 28: View Customer Category



For more information on menus, refer to [Table 29: View Customer Category – Field Description](#).

Table 29: View Customer Category – Field Description

Field	Description
Customer Category	Displays the customer category.
Description	Displays additional information about the customer category.
Status	Displays the status of the record.

3.12.2 Customer Category Maintenance

The maintenance screen allows you to configure a customer category. To process this screen, perform the following steps:

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

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

Figure 29: Create Customer Category

3. Provide the details in the relevant data fields. Mandatory data fields are indicated accordingly. For more information on menus, refer to [Table 30: Create Customer Category – Field Description](#).

Table 30: Create Customer Category – Field Description

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

4. Click **Save**. You can view the configured customer category details in the [Customer Category Summary](#).

3.13 ECA System

You can configure the External Credit Approval (ECA) system.

This section contains following subsections:

- [3.13.1 ECA System Summary](#)
- [3.13.2 ECA System Maintenance](#)

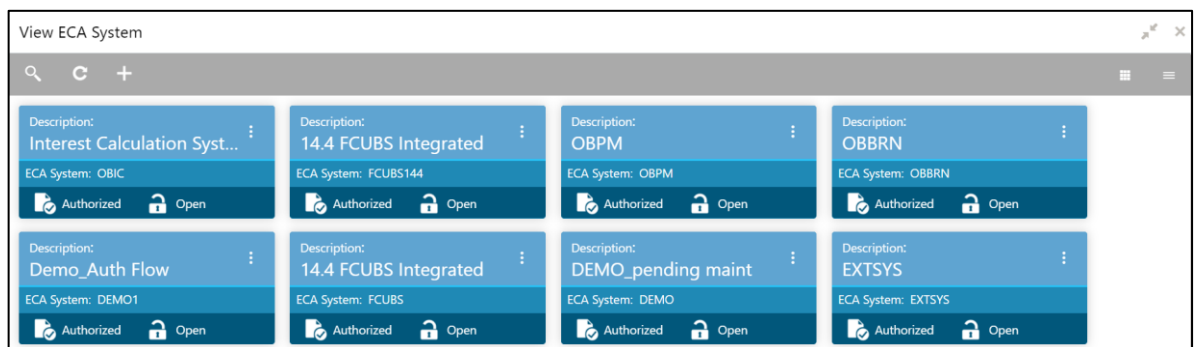
3.13.1 ECA System Summary

The summary screen provides a list of configured ECA system. You can configure the ECA system details using the [ECA System Maintenance](#). To process this screen, perform the following steps:

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

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

Figure 30: View ECA System



For more information on menus, refer to [Table 31: View ECA System – Field Description](#).

Table 31: View ECA System – Field Description

Field	Description
Description	Displays any additional information of the ECA system.
ECA System	Displays the name of the ECA system.
Status	Displays the status of the record.

3.13.2 ECA System Maintenance

The maintenance screen allows you to configure ECA system details. To process this screen, perform the following steps:

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

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

Figure 31: Create ECA System

3. Provide the details in the relevant data fields. Mandatory data fields are indicated accordingly. For more information on menus, refer to [Table 32: Create ECA System – Field Description](#).

Table 32: Create ECA System – Field Description

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

4. Click **Save**. You can view the configure ECA system details in the [ECA System Summary](#).

3.14 External Bank Parameters

You can configure bank level parameters.

This section contains following subsections:

- [3.14.1 External Bank Parameters Summary](#)
- [3.14.2 External Bank Parameters Maintenance](#)

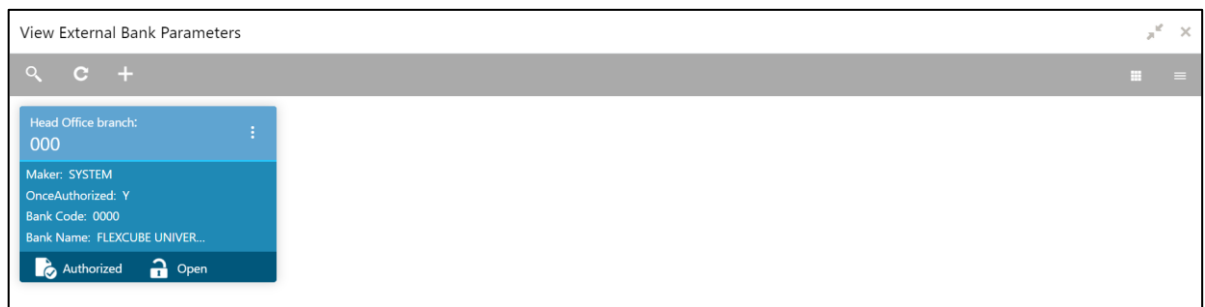
3.14.1 External Bank Parameters Summary

The summary screen provides a list of configured external bank parameters. You can configure the external bank parameters using the [External Bank Parameters Maintenance](#). To process this screen, perform the following steps:

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

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

Figure 32: View External Bank Parameters



For more information on menus, refer to [Table 33: View External Bank Parameters – Field Description](#).

Table 33: View External Bank Parameters – Field Description

Field	Description
Head Office Branch	Displays the head office branch details.
Maker	Displays the name of the user who has configured the bank details.
Once Authorized	Indicates if the record is authorized once or not.
Bank Code	Displays the code of the bank.
Bank Name	Displays the name of the bank.
Status	Displays the status of the record.

3.14.2 External Bank Parameters Maintenance

The maintenance screen allows you to configure external bank parameters. The Bank Code will be auto-created for an entity when the entity is created. Please refer the **View External Bank Parameters** screen for the bank code created. To process this screen, perform the following steps:

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

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

Figure 33: Create External Bank Parameters

3. Provide the details in the relevant data fields. Mandatory data fields are indicated accordingly. For more information on menus, refer to [Table 34: Create External Bank Parameters – Field Description](#).

Table 34: Create External Bank Parameters – Field Description

Field	Description
Bank Code	Specify the code for the bank.
Bank Name	Specify the name of the bank.
Head Office Branch	Search and select the required head office branch.
Branch Description	Based on the Head Office Branch selected, the information is auto-populated.
Number of Days to Forget Customer	Specify the number of days to inactive/forget the customer.

- Click **Save**. You can view the configure core bank parameter details in the [External Bank Parameters Summary](#).

3.15 External Branch Parameters

You can configure branch level parameters.

This section contains following subsections:

- [3.15.1 External Branch Parameters Summary](#)
- [3.15.2 External Branch Parameters Maintenance](#)

3.15.1 External Branch Parameters Summary

The summary screen provides a list of configured external branch parameters. You can configure the external branch parameters using the [External Branch Parameters Maintenance](#). To process this screen, perform the following steps:

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

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

Figure 34: View External Branch Parameters

View External Branch Parameters			
Branch Code: BR6 Branch Name: Canara Bank Local Currency: GBP Source Branch Code: BR6 Authorized Open	Branch Code: BC9 Branch Name: Canara Bank Local Currency: GBP Source Branch Code: BC9 Authorized Open	Branch Code: B11 Branch Name: Canara Bank Local Currency: GBP Source Branch Code: B11 Authorized Open	Branch Code: BR5 Branch Name: Canara Bank Local Currency: GBP Source Branch Code: BR5 Authorized Open
Branch Code: BR7 Branch Name: Canara Bank Local Currency: GBP Source Branch Code: BR7 Authorized Open	Branch Code: GGG Branch Name: Canara Bank Local Currency: EUR Source Branch Code: GGG Authorized Open	Branch Code: BR4 Branch Name: Canara Bank Local Currency: GBP Source Branch Code: BR4 Authorized Open	Branch Code: EOD Branch Name: Canara Bank Local Currency: GBP Source Branch Code: EOD Unauthorized Open

For more information on menus, refer to [Table 35: View External Branch Parameters – Field Description](#).

Table 35: View External Branch Parameters – Field Description

Field	Description
Branch Code	Displays the code of the branch associated with the bank.
Branch Name	Displays the name of the branch associated with the bank.
Local Currency	Displays the local currency details.
Source Branch Code	Displays the code of the source branch.
Status	Displays the status of the record.

NOTE: The Branch Parameters for the Head Office (HO) Branch of the entity will get 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

3.15.2 External Branch Parameters Maintenance

The maintenance screen allows you to configure the branch parameters. To process this screen, perform the following steps:

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



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

Figure 35: Create External Branch Parameters

3. Provide the details in the relevant data fields. Mandatory data fields are indicated accordingly. For more information on menus, refer to [Table 36: Create External Branch Parameters – Field Description](#).

Table 36: Create External Branch Parameters – Field Description

Field	Description
Branch Details	Specify the branch details.
Branch Code	Specify a branch code.
Branch Name	Specify a name for the branch.
Local Currency	Search and select the required local currency.
Source System	Search and select the required source system.
Source Branch Code	Specify a source branch code.
Branch Address	Specify the branch address details.

Field	Description
Address Line 1-3	Specify the address details.
Other Details	Specify the other details.
Host Code	Search and select the required host code.
Country Code	Based on the Host Code selected, the information is auto-populated.
Host Name	Specify the name for the host.
Walk-in Customer	Search and select the required walk-in customer.
Weekly Holiday 1-2	<p>Select a weekly holiday from the dropdown list.</p> <p>Note There are two days of weekly holiday depending on the geographical zone.</p> <ul style="list-style-type: none"> Auto Authorization: By default, it is disabled. If selected, the record is automatically authorized. Report DSN: Specify the details of the report DSN.
Swift Address	Specify the swift address details.
	Click + icon to add the required details.
	Click - icon to remove the required details.
SWIFT Address	Search and select the required SWIFT address.
Default BIC	If selected, indicates the selected SWIFT address as the default BIC.

- Click **Save**. You can view the configure branch parameter details in the [External Branch Parameters Summary](#).

3.16 External Chart Account

You can configure an external chart.

This section contains following subsections:

- [3.16.1 External Chart Account Summary](#)
- [3.16.2 External Chart Account Maintenance](#)

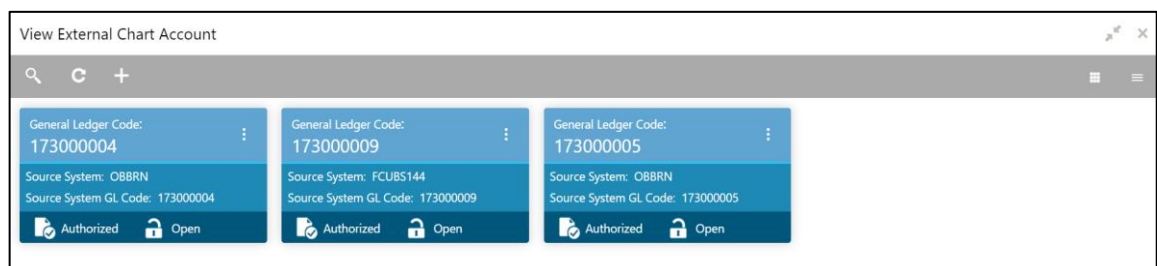
3.16.1 External Chart Account Summary

The summary screen provides a list of configured external chart accounts. You can configure an external chart account using the [External Chart Account Maintenance](#). To process this screen, perform the following steps:

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 is displayed.

Figure 36: View External Chart Account



For more information on menus, refer to [Table 37: View External Chart Account – Field Description](#).

Table 37: View External Chart Account – Field Description

Field	Description
General Ledger Code	Displays the code of the general ledger.
Source System	Displays the source system.
Source System GL Code	Displays the GL code of the source system.
Status	Displays the status of the record.

3.16.2 External Chart Account Maintenance

The maintenance screen allows you to configure external chart accounts. To process this screen, perform the following steps:

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 is displayed.

Figure 37: Create External Chart Account

3. Provide the details in the relevant data fields. Mandatory data fields are indicated accordingly. For more information on menus, refer to [Table 38: Create External Chart Account – Field Description](#).

Table 38: Create External Chart Account – Field Description

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

4. Click **Save**. You can view the configured external chart details in the [External Chart Account Summary](#).

3.17 External Customer

You can configure the external customer details.

This section contains following subsections:

- [3.17.1 External Customer Summary](#)
- [3.17.2 External Customer Maintenance](#)

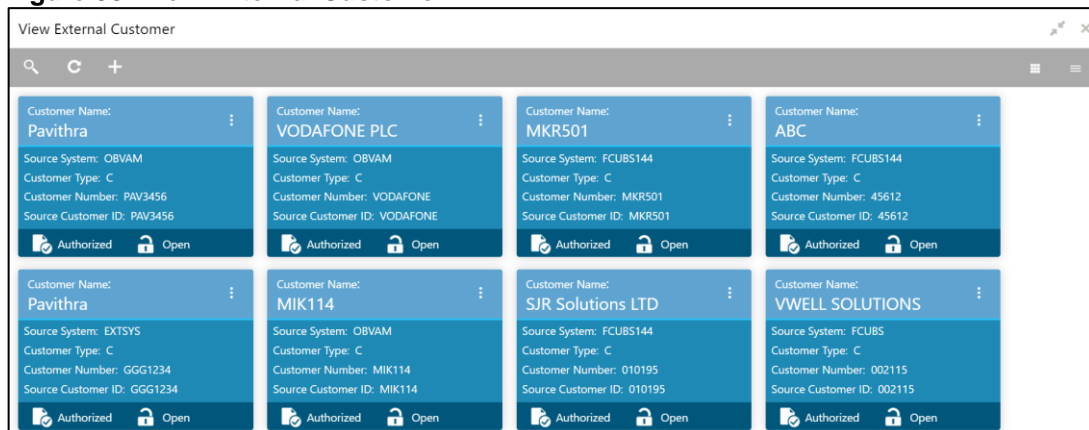
3.17.1 External Customer Summary

The summary screen provides a list of configured external customer details. You can configure the external customers using the [External Customer Maintenance](#). To process this screen, perform the following steps:

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

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

Figure 38: View External Customer



For more information on menus, refer to [Table 39: View External Customer – Field Description](#).

Table 39: View External Customer – Field Description

Field	Description
Customer Name	Displays the name of the customer.
Source System	Displays the source system details.
Customer Type	Displays the type of the customer.
Customer Number	Displays the customer number associated with the customer name.
Source Customer ID	Displays the source of the customer ID associated with the customer name.
Status	Displays the status of the record.

3.17.2 External Customer Maintenance

The maintenance screen allows you to configure the external customer details. To process this screen, perform the following steps:

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

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

Figure 39: Create External Customer

3. Provide the details in the relevant data fields. Mandatory data fields are indicated accordingly. For more information on menus, refer to [Table 33: Create External Customer – Field Description](#).

Table 40: Create External Customer – Field Description

Field	Description
Customer Details	Specify the customer details.
Customer Number	Specify the number for the customer.
Customer Name	Specify the name for the customer.
Short Name	Specify the short name for the customer.

Field	Description
Customer Type	Select one of the options: <ul style="list-style-type: none"> Individual: If selected, the customer is an individual customer. Corporate: If selected, the customer is a corporate customer. Bank: If selected, the customer is a bank employee.
Source Customer ID	Specify the source customer ID.
Source System	Search and select the required source system.
Customer Category	Search and select the required customer category.
Relationship Manager ID	Specify the relationship manager ID.
Address	Specify the address details.
Address Line 1-4	Specify the customer address details.
Country	Search and select the required country.
Other Details	Specify the other details.
Postal Code	Specify the postal code details.
Deceased	By default, this is disabled. If selected, indicates the customer is deceased.
Frozen	By default, this is disabled. If selected, indicates the customer account is frozen.
Whereabouts Unknown	By default, this is disabled. If selected, indicates the customer's whereabouts are unknown.
Sanction Check Required	By default, this is disabled. If selected, indicates the sanction check is required.
Walk-in Customer	By default, this is disabled. If selected, indicates a walk-in customer.
Staff	By default, this is disabled. If selected, indicates a staff customer.

Field	Description
Language	Search and select the required language.
Nationality	Search and select the required nationality.

- Click **Save**. You can view the configured external customer details in the [External Customer Summary](#). In addition, the external customers can be directly replicated from the host system using service API.

3.18 External Customer Account

You can configure the external customer account details.

This section contains following subsections:

- [3.18.1 External Customer Account Summary](#)
- [3.18.2 External Customer Account Maintenance](#)

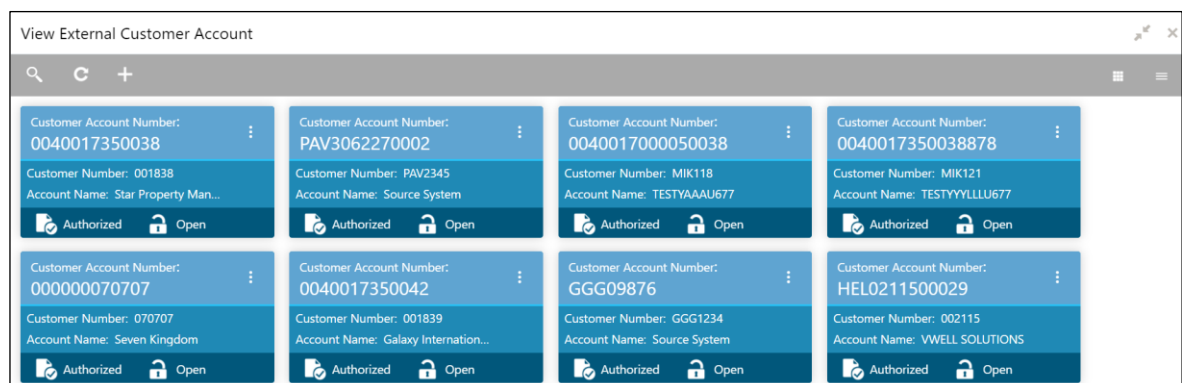
3.18.1 External Customer Account Summary

The summary screen provides a list of configured external customer accounts. You can configure the external customer accounts using the [External Customer Account Maintenance](#). To process this screen, perform the following steps:

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

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

Figure 40: View External Customer Account



Customer Account Number	Customer Number	Account Name	Status
0040017350038	001838	Star Property Man...	Authorized, Open
PAV3062270002	PAV2345	Source System	Authorized, Open
0040017000050038	MIK118	TESTYAAU677	Authorized, Open
0040017350038878	MIK121	TESTYYLLLU677	Authorized, Open
000000070707	070707	Seven Kingdom	Authorized, Open
0040017350042	001839	Galaxy Internation...	Authorized, Open
GGG09876	GGG1234	Source System	Authorized, Open
HEL0211500029	002115	VWELL SOLUTIONS	Authorized, Open

For more information on menus, refer to [Table 41: View External Customer Account – Field Description](#).

Table 41: View External Customer Account – Field Description

Field	Description
Customer Number	Displays the customer number associated with the account name.
Customer Account Number	Displays the customer account number associated with the account name.
Account Name	Displays the name of the account.
Status	Displays the status of the record.

3.18.2 External Customer Account Maintenance

The maintenance screen allows you to configure external customer account details. To process this screen, perform the following steps:

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

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

Figure 41: Create External Customer Account

3. Provide the details in the relevant data fields. Mandatory data fields are indicated accordingly. For more information on menus, refer to [Table 42: Create External Customer Account – Field Description](#).

Table 42: Create External Customer Account – Field Description

Field	Description
Account Details	Specify the account details.
Customer Account Number	Specify the customer account number.
Account Name	Specify the name for an account.
Customer Number	Search and select the required customer number.
Customer Name	Based on the Customer Number selected, the information is auto-populated.
Account Currency	Search and select the required account currency.
Account Class	Select the account class from the drop-down list.
Source Account Branch	Search and select the required source account branch.
Source Customer Account	Based on the Source Account Branch selected, the information is auto- populated.
Account IBAN	Specify the account IBAN details.
Address	Specify the address details.
Address Line 1-4	Specify the address details.
Country	Search and select the required country.
Other Details	Specify the other details.
No Credit	By default, this is disabled. If selected, indicates the account does not have any credit facility.
No Debit	By default, this is disabled. If selected, indicates the account does not have any debit facility.
Blocked	By default, this is disabled. If selected, indicates the account status is blocked.
Frozen	By default, this is disabled. If selected, indicates the account status is frozen.

Field	Description
Dormant	By default, this is disabled. If selected, indicates the account status is dormant.
External Credit Approval Required	By default, this is disabled. If selected, indicates ECA check is required for the external customer account.
External Credit Approval System	Search and select the required external credit approval system.
Host Code	Specify the host code details.
Account Open Date	Select an effective date for the account from the dropdown calendar.

- Click **Save**. You can view the configured external customer account details in the [External Customer Account Summary](#). In addition, the external customer accounts can be directly replicated from the host system using service API.

3.19 External Customer Account Structured Address

You can configure the external customer account structured address details.

This section contains following subsections:

- [3.19.1 View External Customer Account Structured Address](#)
- [3.19.2 Create External Customer Account Structured Address](#)

3.19.1 View External Customer Account Structured Address

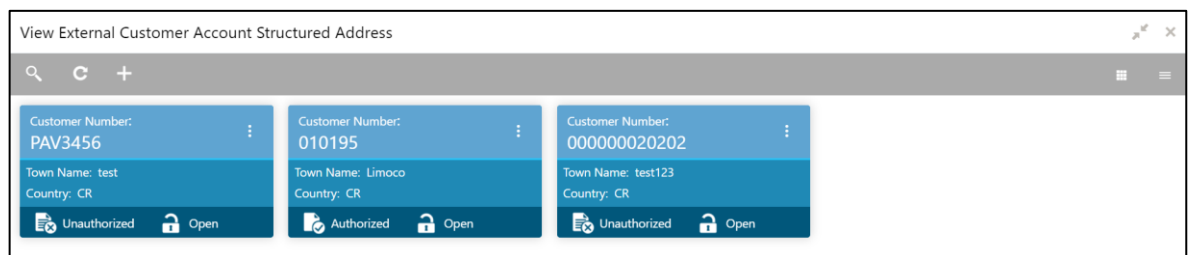
The summary screen provides a list of configured external customer account structured addresses.

You can configure the external customer account structured address using the [Create External Customer Account Structured Address](#). To process this screen, perform the following steps:

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

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

Figure 42: View External Customer Account Structured Address



For more information on menus, refer to [Table 43: View External Customer Account Structured Address – Field Description](#).

Table 43: View External Customer Account Structured Address – Field Description

Field	Description
Customer Number	Displays the customer number.
Town Name	Displays the town name of the customer.
Country	Displays the country of the customer.

3.19.2 Create External Customer Account Structured Address

The maintenance screen allows you to configure external customer account structured address. To process this screen, perform the following steps:

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

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

Figure 43: Create External Customer Account Structured Address

3. Provide the details in the relevant data fields. Mandatory data fields are indicated accordingly. For more information on menus, refer to [Table 44: Create External Customer Account Structured Address – Field Description](#).

Table 44: Create External Customer Account Structured Address – Field Description

Field	Description
Account Details	Specify the account details.
Customer Account	Search and select the required customer account.
Account Name	Specify the name for an account.
Structured Address	Specify the structured address details.
Department	Specify the department.
Sub Department	Search and select the required country.
Street Name	Specify the street name.

Field	Description
Building Number	Specify the building number.
Building Name	Specify the building name.
Floor	Specify the floor.
Post Box	Specify the post box details.
Room	Specify the room number.
Post Code	Specify the post code. This field is mandatory.
Town Name	Specify the town name. This field is mandatory.
Town Location Name	Specify the town location name.
District Name	Specify the district name.
Country Sub Division	Specify the country sub division.
Country	Specify the country name. This field is mandatory.

- Click **Save**. You can view the configured external customer structured address details in [View External Customer Account Structured Address](#).

3.20 External Virtual Account Structured Address

You can view the external virtual account structured address details.

This section contains following subsections:

- [3.20.1 View External Virtual Account Structured Address](#)

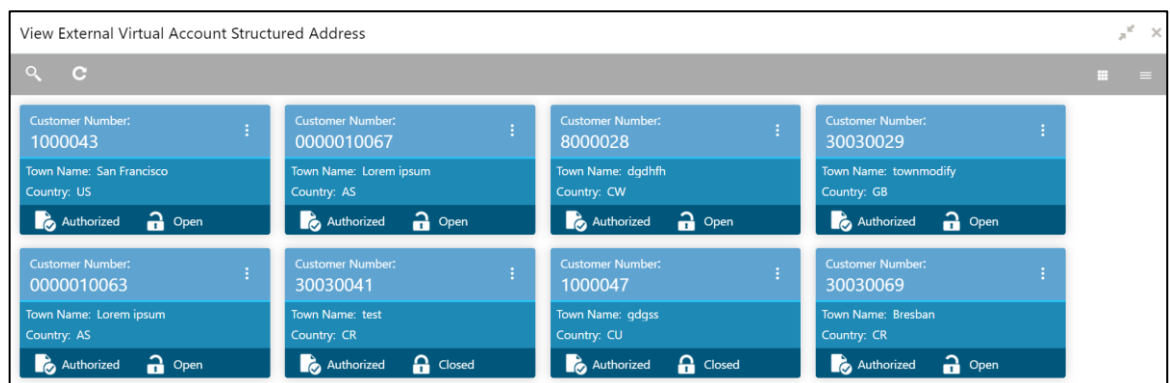
3.20.1 View External Virtual Account Structured Address

The summary screen provides a list of configured virtual account structured addresses. To process this screen, perform the following steps:

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

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

Figure 44: View External Virtual Account Structured Address



For more information on menus, refer to [Table 45: View External Virtual Account Structured Address – Field Description](#).

Table 45: View External Virtual Account Structured Address – Field Description

Field	Description
Customer Number	Displays the customer number.
Town Name	Displays the town name.
Country	Displays the country name.

Click on the specific tile to view the structured address details.

3.21 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 section contains following subsections:

- [3.21.1 Forgotten Customers Summary](#)
- [3.21.2 Forget Customer Maintenance](#)

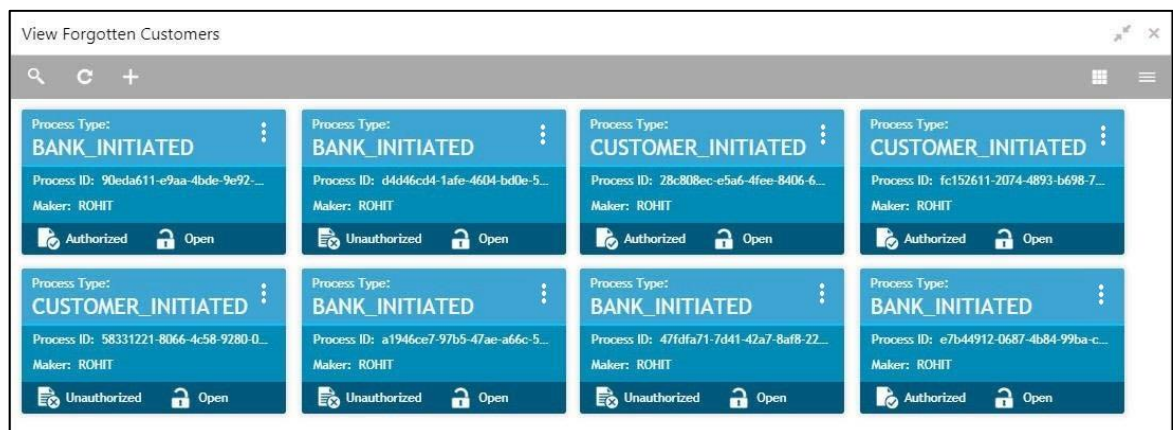
3.21.1 Forgotten Customers Summary

The summary screen provides a list of configured customer to be forgotten. You can configure a customer detail who wants to be forgotten using the [Forget Customer Maintenance](#). To process this screen, perform the following steps:

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

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

Figure 45: View Forgotten Customers



For more information on menus, refer to [Table 46: View Forgotten Customers – Field Description](#).

Table 46: View Forgotten Customers – Field Description

Field	Description
Process Type	Indicates if the process is initiated by the customer/bank
Process ID	Displays the forgotten customer's process ID.
Maker	Displays the name of the user who has configured the forgotten customer details.
Status	Displays the status of the record.

3.21.2 Forget Customer Maintenance

The maintenance screen allows you to configure a customer to be forgotten. To process this screen, perform the following steps:

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

→ The **Forget Customer** screen is displayed.

Figure 46: Forget Customer

3. Provide the details in the relevant data fields. Mandatory data fields are indicated accordingly. For more information on menus, refer to [Table 47: Forget Customer – Field Description](#).

Table 47: Forget Customer – Field Description

Field	Description
Forget Customer Process ID	Specify a forget customer process ID.
Forget Customer Process Type	Select one of the options <ul style="list-style-type: none"> • Customer Initiated: If selected, indicates the customer has initiated the process. • Bank Initiated: If selected, indicates the bank has initiated the process.

4. Click + to add a row and provide the customer/bank details.
5. Click **Save**. You can view the configured forgotten customers in the [Forgotten Customers Summary](#).

3.22 Host Code

You can group branches in the same zone or region under a host for specific processing. You can have multiple hosts depending on processing requirements.

This section contains following subsections:

- [3.22.1 Host Code Summary](#)
- [3.22.2 Host Code Maintenance](#)

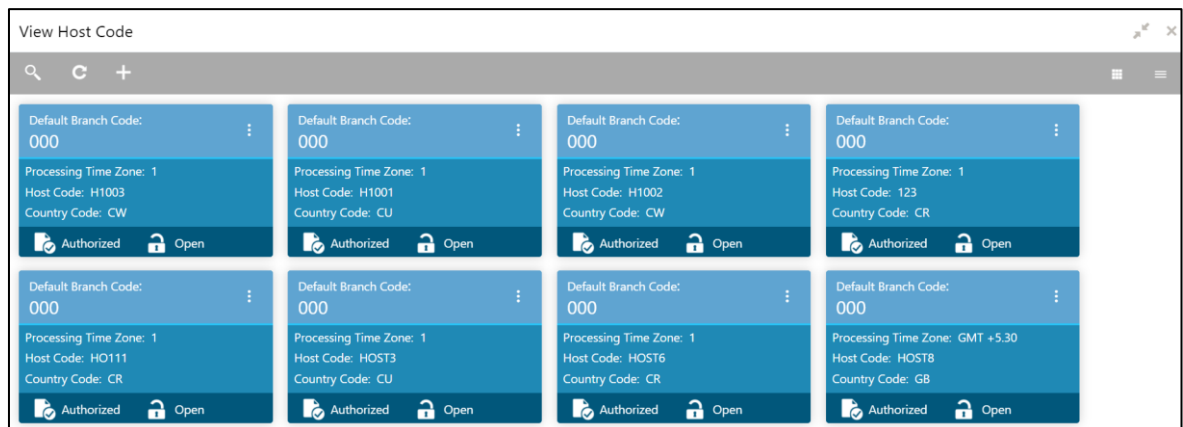
3.22.1 Host Code Summary

The summary screen provides a list of configured host codes. You can configure the host code using the [Host Code Maintenance](#). To process this screen, perform the following steps:

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

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

Figure 47: View Host Code



For more information on menus, refer to [Table 48: View Host Code – Field Description](#).

Table 48: View Host Code – Field Description

Field	Description
Default Branch Code	Displays the default branch code associated with the host code.
Processing Time Zone	Displays the processing time zone.
Host Code	Displays the host code details.
Country Code	Displays the country code details.
Status	Displays the status of the records.

3.22.2 Host Code Maintenance

The maintenance screen allows you to configure host code. To process this screen, perform the following steps:

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

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

Figure 48: Create Host Code

3. Provide the details in the relevant data fields. Mandatory data fields are indicated accordingly. For more information on menus, refer to [Table 49: Create Host Code – Field Description](#).

Table 49: Create Host Code – Field Description

Field	Description
Host Code	Specify the host code details.
Description	Specify the additional information about the host code.
Country Code	Search and select the required country code.
Processing Time Zone	Specify the processing time zone details.
Default Branch Code	Search and select the required default branch code.

4. Click **Save**. You can view the configured host code details in the [Host Code Summary](#).

3.23 Language Code

You can configure a language code.

This section contains following subsections:

- [3.23.1 Language Code Summary](#)
- [3.23.2 Language Code Maintenance](#)

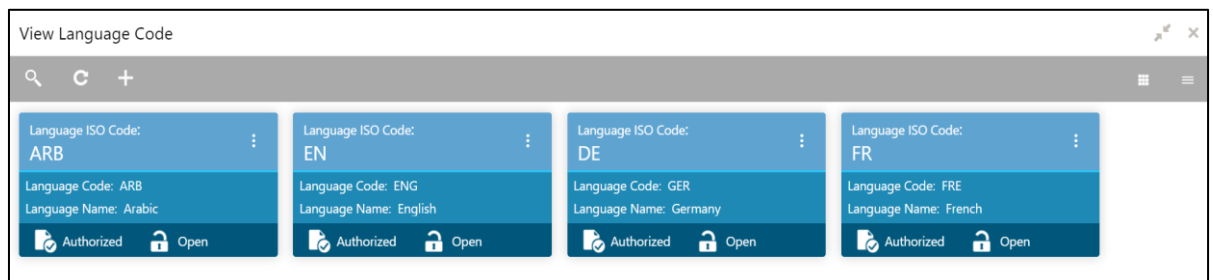
3.23.1 Language Code Summary

The summary screen provides a list of configured language code. You can configure a language code using the [Language Code Maintenance](#). To process this screen, perform the following steps:

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

→ The **View Language Code** screen is displayed.

Figure 49: View Language Code



For more information on menus, refer to [Table 50: View Language Code – Field Description](#).

Table 50: View Language Code – Field Description

Field	Description
Language ISO Code	Displays the default branch code associated with the host code.
Language Code	Displays the processing time zone.
Language Name	Displays the host code details.
Status	Displays the status of the records.

3.23.2 Language Code Maintenance

The maintenance screen allows you to configure a language code. To process this screen, perform the following steps:

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

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

Figure 50: Create Language Code

3. Provide the details in the relevant data fields. Mandatory data fields are indicated accordingly. For more information on menus, refer to [Table 51: Create Language Code – Field Description](#).

Table 51: Create Language Code – Field Description

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

4. Click **Save**. You can view the configured language code details in the [Language Code Summary](#).

3.24 Local Holiday

You can configure a local holiday.

This section contains following subsections:

- [3.24.1 Local Holiday Summary](#)
- [3.24.2 Local Holidays Maintenance](#)

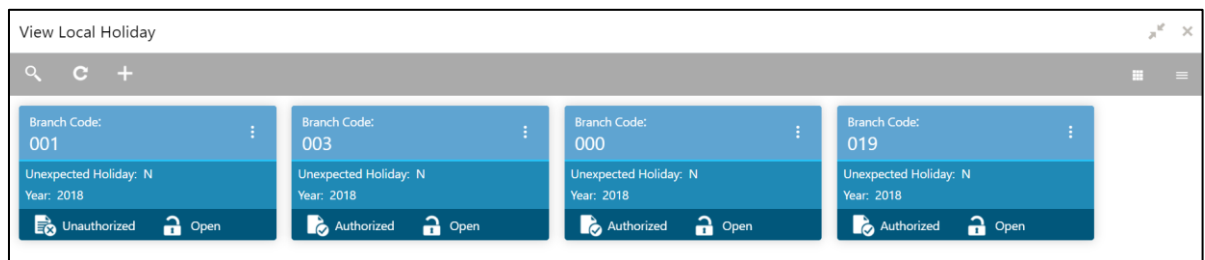
3.24.1 Local Holiday Summary

The summary screen provides a list of configured local holidays. You can configure a local holiday using the [Local Holidays Maintenance](#). To process this screen, perform the following steps:

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

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

Figure 51: View Local Holiday



For more information on menus, refer to Table 52: View Local Holiday – Field Description.

Table 52: View Local Holiday – Field Description

Field	Description
Branch Code	Displays the code of the branch.
Unexpected Holiday	Indicates if the record is an unexpected holiday.
Year	Displays the year of the holiday.
Status	Displays the status of the record.

3.24.2 Local Holidays Maintenance

The maintenance screen allows you to configure local holidays. To process this screen, perform the following steps:

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

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

Figure 52: Create Local Holiday

3. Provide the details in the relevant data fields. Mandatory data fields are indicated accordingly. For more information on menus, refer to [Table 53: Create Local Holiday – Field Description](#).

Table 53: Create Local Holiday – Field Description

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

4. Select the dates using the calendar. The selected dates appear in pink highlighted circle.
5. Click **Save**. You can view the configured local holiday details in the [Local Holiday Summary](#) ~~Local-Holiday-Summary~~.

3.25 Media

You can configure media information.

This section contains following subsections:

- [3.25.1 Media Summary](#)~~Media Summary~~
- [3.25.2 Media Maintenance](#)~~Media Maintenance~~

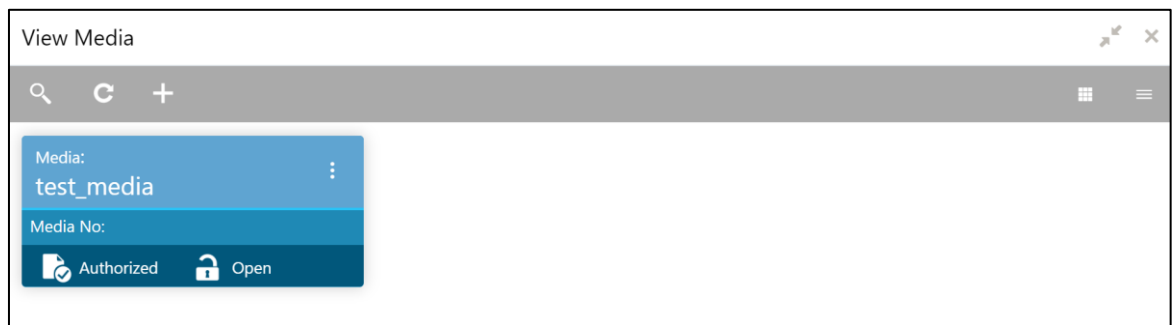
3.25.1 Media Summary

The summary screen provides a list of configured media. You can configure a media using the [Media Maintenance](#)~~Media Maintenance~~. To process this screen, perform the following steps:

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

→ The **View Media** screen is displayed.

Figure 53: View Media



For more information on menus, refer to [Table 54: View Media – Field Description](#).

Table 54: View Media – Field Description

Field	Description
Media	Displays the name of the media.
Media Number	Displays the number of the media.
Status	Displays the status of the record.

3.25.2 Media Maintenance

The maintenance screen allows you to configure media. To process this screen, perform the following steps:

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



→ The **Create Media** screen is displayed.

Figure 54: Create Media

3. Provide the details in the relevant data fields. Mandatory data fields are indicated accordingly. For more information on menus, refer to [Table 55: Create Media – Field Description](#).

Table 55: Create Media – Field Description

Field	Description
Media Code	Specify a unique media code to identify while associating with an advice.
Media Description	Specify additional information about the media.
Media Number	Specify a unique number for the media type.
Message Terminator	Specify the padded characters to mark the end of an incoming messages.
Message Suffix	Specify the padding characters to mark the end of an outgoing messages.
Stop Process	By default, this option is disabled. If selected, halts the processing of incoming and outgoing messages.

Field	Description
Padding Required	By default, this option is disabled. If selected, pads the characters in every outgoing messages.
TW (Test Word) Required Status	By default, this option is disabled. If selected, enables the option for word testing.
Media Priority	Select a media priority from the spin box. When a message is dispatched to the customers, the media type used for sending the messages will be the one that is on high priority.
Number of Character	Select a number the padding characters should be repeated for the advice from the spin box.
Media Details	Specify the media details.
	Click + icon to add the required details.
	Click - icon to remove the required details.
Media Code	Specify the unique media code to identify while associating with an advice.
Compatible Media	By default, this option is disabled. If selected, indicates the media is compatible.

- Click **Save**. You can view the configured media details in the [Media Summary](#).

3.26 Process Code

Process code enables the user to set the process code to the individual stages according to the process.

This section contains following subsections:

- [3.26.1 View Process Code](#)
- [3.26.2 Process Code Maintenance](#)

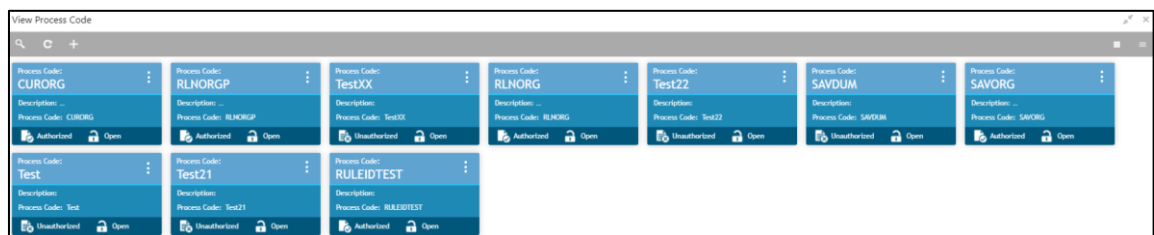
3.26.1 View Process Code

The summary screen provides a list of configured process codes. You can add a process code using the [Process Code Maintenance](#). To process this screen, perform the following steps:

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

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

Figure 55: View Process Code



For more information on menus, refer to [Table 56: View Process Code – Field Description](#).

Table 56: View Process Code – Field Description

Field	Description
Process Code	Displays the process code.
Description	Displays the description of process code.
Status	Displays the status of the record.

3.26.2 Process Code Maintenance

Process Code Maintenance screen allows you to define the stages for a particular process. The process code information that is defined in this screen will be used in further business processing to construct the stages. To process this screen, perform the following steps:

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Process Code**.
→ The **Process Code** screen is displayed.

Figure 56: Process Code

2. Provide the details in the relevant data fields. Mandatory data fields are indicated accordingly. For more information on menus, refer to Table 57: Process Code – Field Description.

Table 57: Process Code – Field Description

Field	Description
Process Code	Specify the code. This field is mandatory process.
Process Name	Specify the process name. This field is mandatory.
Process Version	Specify the process version. This field is mandatory.
Domain	Specify the process domain. This field is mandatory.
Stage ID	Specify the unique stage ID.
Stage Description	Specify the stage description.
Seq Order	Displays the sequential order of the stage in the entire process.

Field	Description
Source Stage	Select it to indicate if the specific stage is the source stage of the process.
Add Row	Click Add Row to add a row and to capture the stage details that needs to be mapped to the process code.
Delete Row	Click Delete Row to delete a row with stage details.
Phase Code	Specify the phase code.
Phase Description	Specify the phase description.
Seq Order	Displays the sequential order of the phase.
Stage ID	Select the stage ID from the drop down list. Available options in the drop-down will be based on Stage ID mentioned at Process Code level.
Add Row	Click Add Row to add a row and to capture the phase details that needs to be mapped to the process code.
Delete Row	Click Delete Row to delete a row with phase details.

- Click **Save**. You can view the configured process codes in the [View Process Code](#).

3.27 System Dates

You can view the system date details.

This section contains following subsections:

- [3.27.1 System Dates Summary](#)

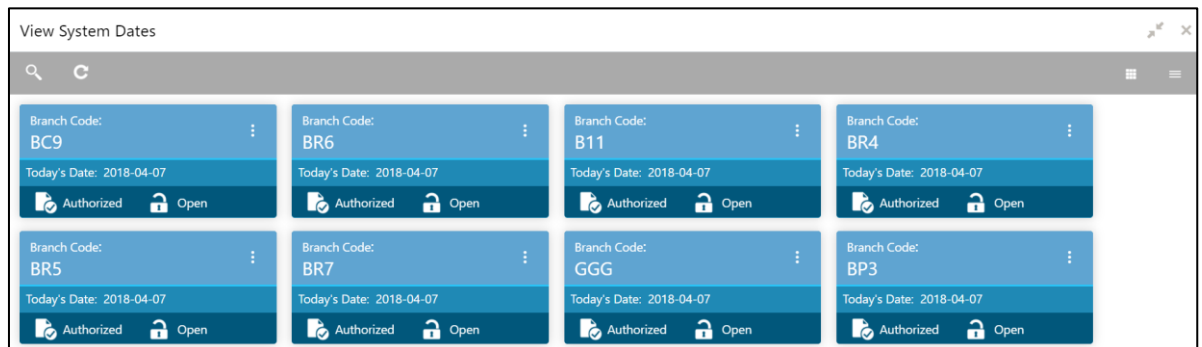
3.27.1 System Dates Summary

The summary screen provides a list of configured system date. To process this screen, perform the following steps:

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

→ The **View System Dates** screen is displayed.

Figure 57: View System Dates



For more information on menus, refer to [Table 58: View System Dates – Field Description](#).

Table 58: View System Dates – Field Description

Field	Description
Branch Code	Displays the code of the branch.
Today's Date	Displays system's current date.
Today's Date in Text	Displays the system's current date in words.
Status	Displays the status of 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

3.28 Transaction Code

You can configure the transaction code.

This section contains following subsections:

- [3.28.1 Transaction Code Summary](#)
- [3.28.2 Transaction Code Maintenance](#)

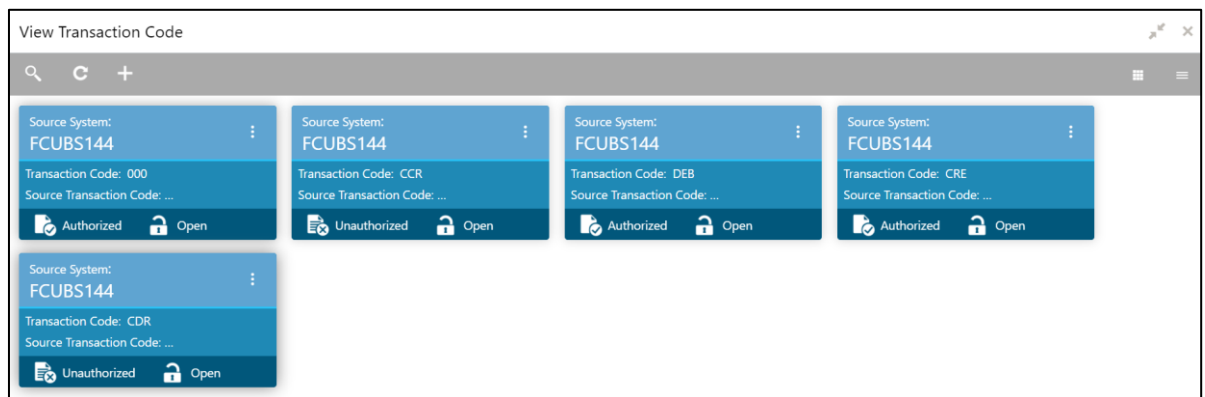
3.28.1 Transaction Code Summary

The summary screen provides a list of configured transaction code. You can configure a transaction code using the [Transaction Code Maintenance](#). To process this screen, perform the following steps:

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

→ The **View Transaction Code** screen is displayed.

Figure 58: View Transaction Code



For more information on menus, refer to [Table 59: View Transaction Code – Field Description](#).

Table 59: View Transaction Code – Field Description

Field	Description
Source System	Displays the source system details.
Transaction Code	Displays the transaction code details.
Source Transaction Code	Displays the source transaction code associated with the transaction code.
Status	Displays the status of the record,

3.28.2 Transaction Code Maintenance

The maintenance screen allows you to configure transaction code details. To process this screen, perform the following steps:

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

→ The **Create Transaction Code** screen is displayed.

Figure 59: Create Transaction Code

3. Provide the details in the relevant data fields. Mandatory data fields are indicated accordingly. For more information on menus, refer to [Table 60: Create Transaction Code – Field Description](#).

Table 60: Create Transaction Code – Field Description

Field	Description
Transaction Code	Specify the transaction code details.
Description	Specify additional information about the transaction code.
Source System	Search and select the required source system.
Source Transaction Code	Specify the source transaction code details.

4. Click **Save**. You can view the configured transaction code details in the [Transaction Code Summary](#).

3.29 Upload Source

You can upload a source code.

This section contains following subsections:

- [3.29.1 Upload Source Summary](#)
- [3.29.2 Upload Source Maintenance](#)

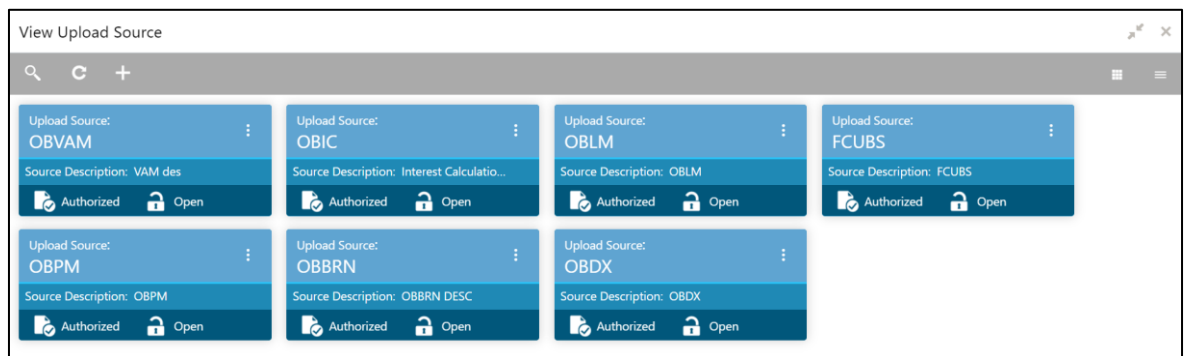
3.29.1 Upload Source Summary

The summary screen provides a list of configured source code. You can upload a source code using the [Upload Source Maintenance](#). To process this screen, perform the following steps:

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

→ The **View Upload Source** screen is displayed.

Figure 60: View Upload Source



For more information on menus, refer to [Table 61: View Upload Source – Field Description](#).

Table 61: View Upload Source – Field Description

Field	Description
Upload Source	Displays the upload source details.
Source Description	Displays information about the source code.
Status	Displays the status of the record.

3.29.2 Upload Source Maintenance

The maintenance screen allows you to upload source. To process this screen, perform the following steps:

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

→ The **Create Upload Source** screen is displayed.

Figure 61: Create Upload Source

3. Provide the details in the relevant data fields. Mandatory data fields are indicated accordingly. For more information on menus, refer to [Table 62: Create Upload Source – Field Description](#).

Table 62: Create Upload Source – Field Description

Field	Description
Source Code	Specify the source code details.
Source Description	Specify additional information of the source code.
Base Data from Flexcube	By default, this is disabled. If selected, indicates the base data is from FLEXCUBE.
System Authorization Required	By default, this is disabled. If selected, indicates the system requires authorization.

4. Click **Save**. You can view the configured upload source details in the [Upload Source Summary](#).

3.30 Upload Source Preference

You can configure upload source preference.

This section contains following subsections:

- [3.30.1 Upload Source Preference Summary](#)
- [3.30.2 Upload Source Preference Maintenance](#)

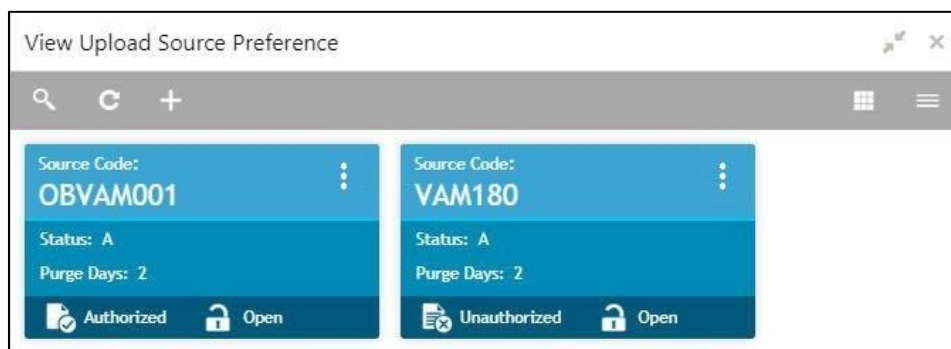
3.30.1 Upload Source Preference Summary

The summary screen provides a list of configured upload source preferences. You can configure an upload source preference using the [Upload Source Preference Maintenance](#). To process this screen, perform the following steps:

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Upload Source Preference**.
2. Under **Upload Source Preference**, click **View Upload Source Preference**.

→ The **View Upload Source Preference** screen is displayed.

Figure 62: View Upload Source Preference



For more information on menus, refer to [Table 63: View Upload Source Preference – Field Description](#).

Table 63: View Upload Source Preference – Field Description

Field	Description
Source Code	Displays the code of the source.
Status	Displays the status of the post upload.
Purge Days	Displays the number of purge days.
Status	Displays the status of the record.

3.30.2 Upload Source Preference Maintenance

The maintenance screen allows you to configure upload source preference. To process this screen, perform the following steps:

1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Upload Source Preference**.
2. Under **Upload Source Preference**, click **Create Upload Source Preference**.

→ The **Create Upload Source Preference** screen is displayed.

Figure 63: Create Upload Source Preference

3. Provide the details in the relevant data fields. Mandatory data fields are indicated accordingly. For more information on menus, refer to [Table 64: Create Upload Source Preference – Field Description](#).

Table 64: Create Upload Source Preference – Field Description

Field	Description
Source Code	Search and select the required source code.
Error Handling	Specify the error handling details.
On Error	Select an error from the drop-down list.
On Override	Select an override from the drop-down list.
On Repairable Exception	Select the repairable exception from the drop-down list.
On Queue Exception	Select the queue exception from the drop-down list.
Post Upload	Specify the post upload details.

Field	Description
Status	Select a status from the dropdown list.
Purge Days	Specify the purging days if you want to maintain any days to be purged while processing interface.
Allow Deferred Processing	By default, this is disabled. If selected, defers process the upload source preference.
Allow EOD with Deferred	By default, this is disabled. If selected, processes the EOD with deferred.
Deletion Allowed	By default, this is disabled. If selected, deletes the upload source preferences.
Reverse Allowed	By default, this is disabled. If selected, reverses the upload source preferences.
Amend Allowed	By default, this is disabled. If selected, amends the upload source preferences.
Proceed with EOD	By default, this is disabled. If selected, proceeds with the EOD.

4. Click **Save**. You can view the configured upload source preference details in the [Upload Source Preference Summary](#).

3.31 Pricing Source System

You can configure the pricing source system.

This section contains following subsections:

- [3.31.1 Pricing Source System Summary](#)
- [3.31.2 Pricing Source System Maintenance](#)

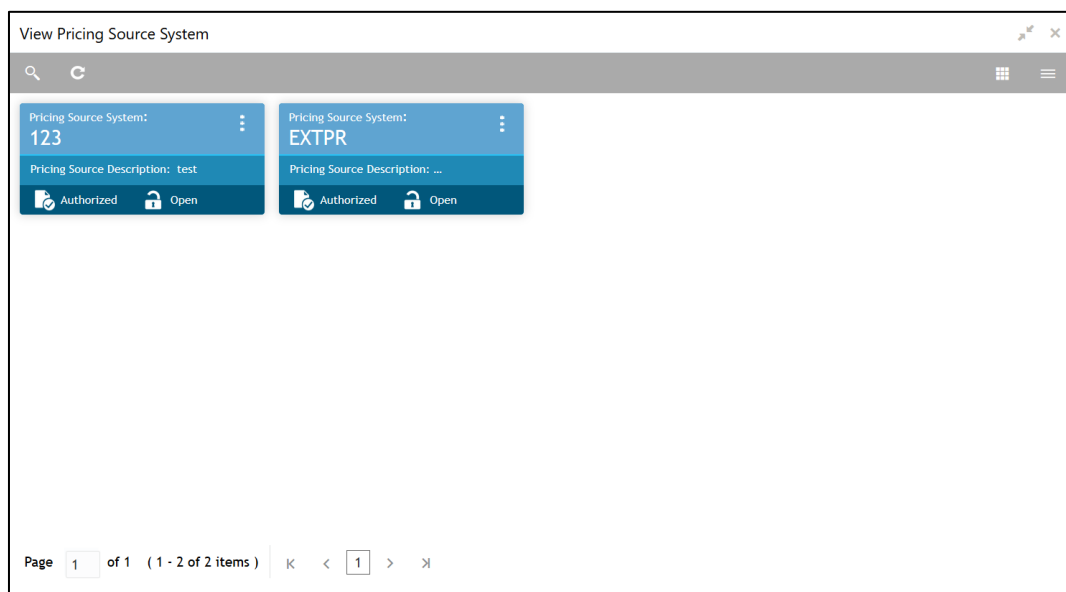
3.31.1 Pricing Source System Summary

The summary screen provides a list of configured Pricing Source system. You can configure the pricing source system details using the [Pricing Source System Maintenance](#). To process this screen, perform the following steps:

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

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

Figure 64: View Pricing Source System



For more information on menus, refer to [Table 65: View Pricing Source System – Field Description](#).

Table 65: View Pricing Source System – Field Description

Field	Description
Pricing Source System	Displays the name of the Pricing Source system.
Pricing Source System Description	Displays any additional information of the Pricing Source system.
Status	Displays the status of the record.

3.31.2 Pricing Source System Maintenance

The maintenance screen allows you to configure Pricing Source System details. To process this screen, perform the following steps:

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

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

Figure 65: Create Pricing Source System

3. Provide the details in the relevant data fields. Mandatory data fields are indicated accordingly. For more information on menus, refer to [Table 66: Create Pricing Source System – Field Description](#).

Table 66: Create Pricing Source System – Field Description

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

4. Click **Save**. You can view the configure Pricing Source system details in the [Pricing Source System Summary](#).

3.32 OBS - OBRH Integration

3.32.1 OBRH Configuration

Need to import existing service consumer and providers in the system. Service Consumer is Oracle product, which invokes OBRH API, OBRH analyses evaluates destination product processor and transform data into format of the same. Service Consumer comprises of the source and destination integration details.

Navigation: **Core Maintenance -> Routing Hub -> Service Consumers**

Figure 66: Service Consumers

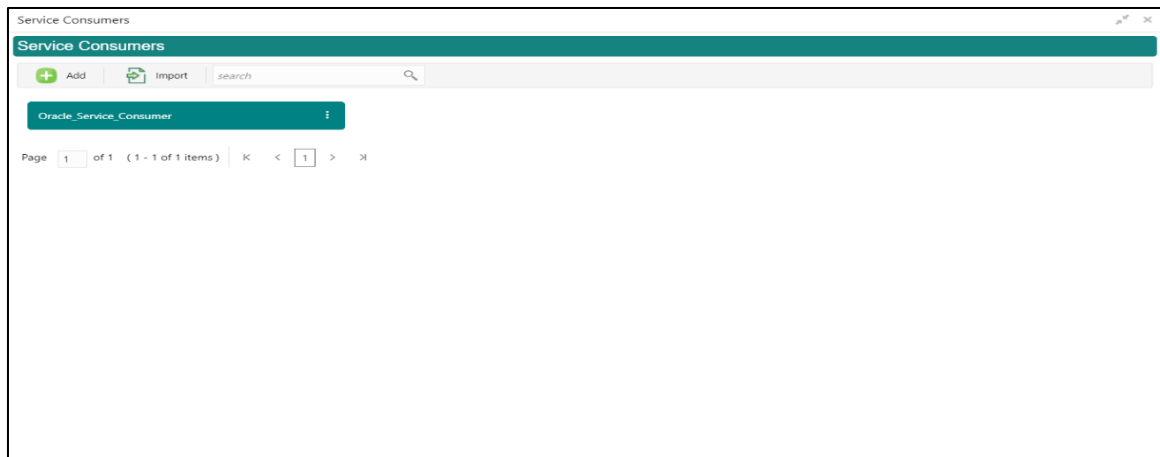


Figure 67: OBRH Configuration

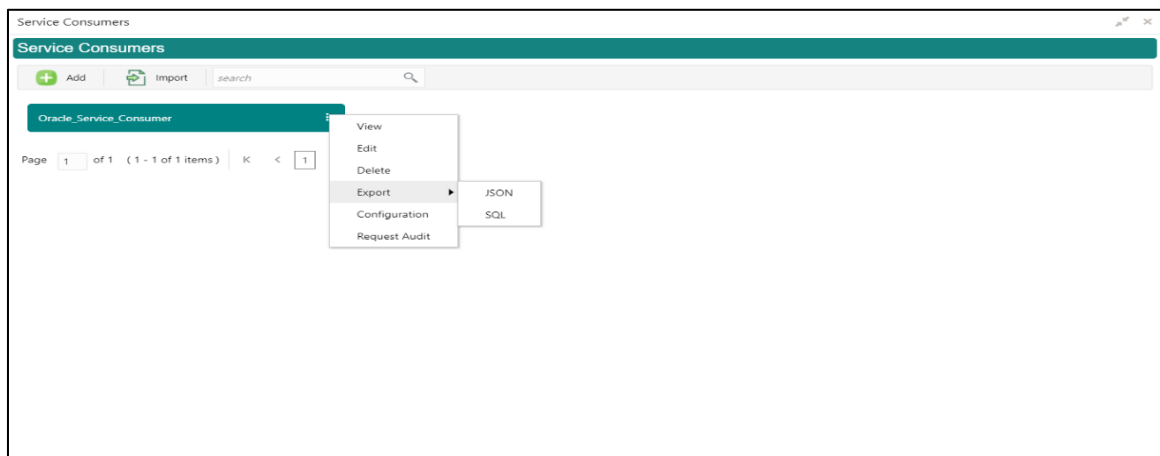


Table 67: OBRH Configuration

Component Name	Component Type	Condition	Comments
Add	Button		Pops up add dialog
Import	Button		Pops up import dialog

Search	Combo Box One		Provides search functionality with case insensitive (Service Consumer Name)
View	menu option	Non-editable	Pops up view dialog
Edit	menu option		Pops up edit dialog
Delete	menu option		
Export	Sub menu item		
JSON	menu option		Exports in JSON
SQL	menu option		Exports in SQL
Configuration	menu option		Pops up configuration dialog
Request Audit	menu option		Pops up request audit log

3.32.1.1 Add

User can create Service Consumer manually.

Navigation: **Service Consumers -> Add**

Figure 68: Add

The screenshot shows the 'Add Service Consumer' dialog box. The 'Name' field is populated with 'Oracle_Service_Consumer'. A tooltip provides validation rules for the name. The 'Environment Variables' section is currently empty, showing an 'Add' button and a 'Group' dropdown. The 'Save' button is at the bottom right of the dialog.

Table 68: Add

Component Name	Component Type	Is Mandatory	Data type	Validation	Comments
Name	Text Box	Yes	Alphanumeric with special characters	<ul style="list-style-type: none"> Name cannot be blank Enter 0 or more characters, up to a maximum of 255 No numeric value at beginning and no space allowed 	Unique Service Consumer name
Environment Variables	Table Content				
Save	Button				Saves the Service Consumer

3.32.1.2 Environment Variables

User is able to define the group of variables which can be accessed throughout the specific consumer's configuration.

Below is the syntax for accessing environment variables:

\$env.Environment_Group_Name.Environment_Variable_Name

eg: \$env.COMMON.BRANCH_CODE

Figure 69: Environment Variables

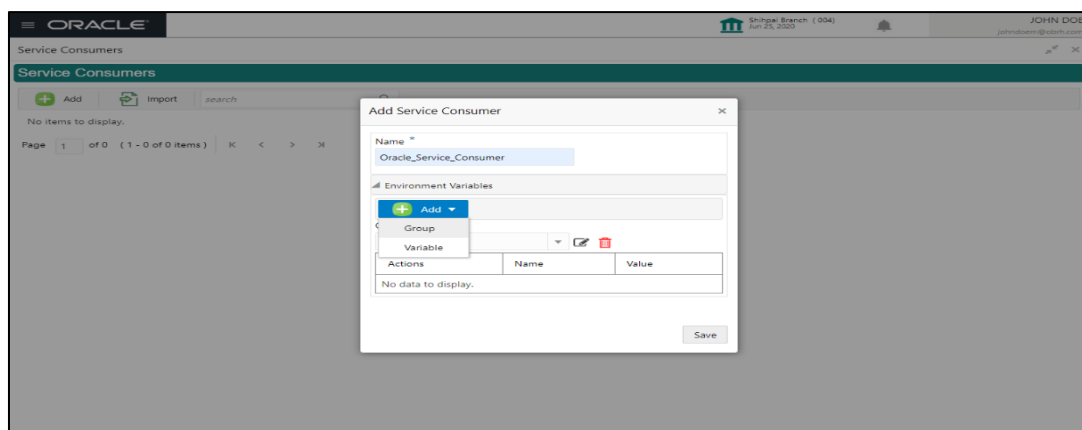


Figure 70: Environment Variables

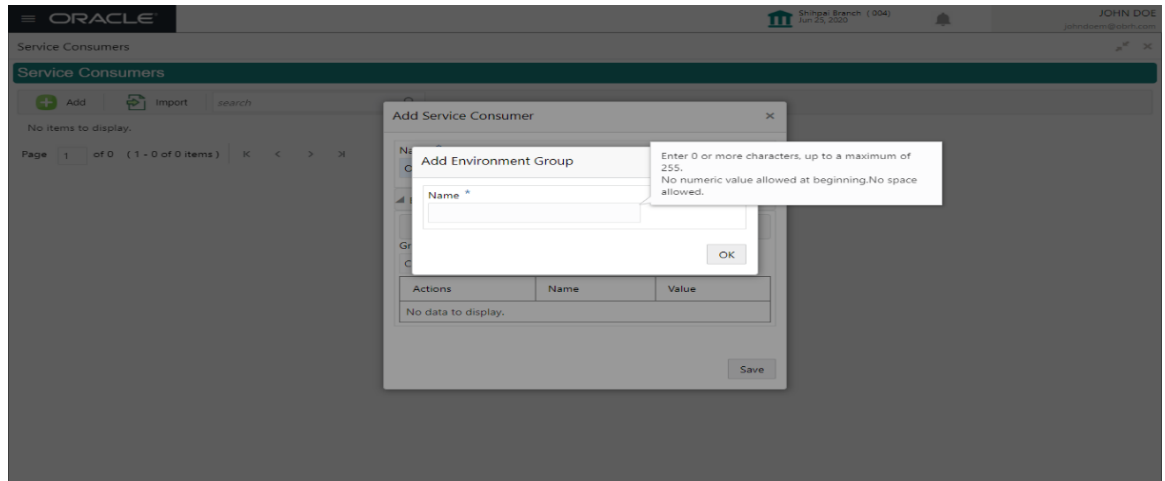


Figure 71: Environment Variables

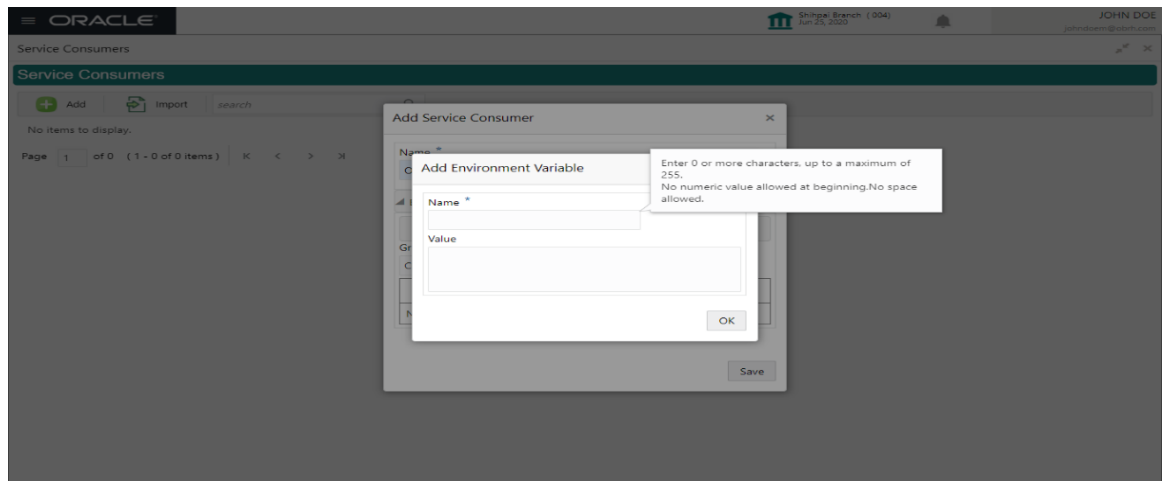


Table 69: Environment Variables

Component Name	Component Type	Is Mandatory	Data type	Validation	Comments
Add	Menu Item				
Group	Menu option				Pops up add group dialog
Variable	Menu option				Pops up add variable dialog
Navigation: Service Consumer -> Environment Variables -> 3 dot icon (operation menu)					
Edit	menu option / icon				Pops up edit dialog

Delete	menu option / icon				Deletes group / variable
Environment Group / Variable					
Name	Text Box	Yes	Alphanumeric with special characters	<ul style="list-style-type: none"> • Name cannot be blank • Enter 0 or more characters, up to a maximum of 255 • No numeric value at beginning and no space allowed 	
Value	Text Area				Value can either be hardcoded or Velocity mapping.
OK	Button				Saves the group / variable and displays it in the list

3.32.1.3 Import

User can create a service consumer by importing the JSON file and manually selecting the service Providers or select all providers that needs to be imported.

Navigation: Service Consumers -> Import

Figure 72: Import

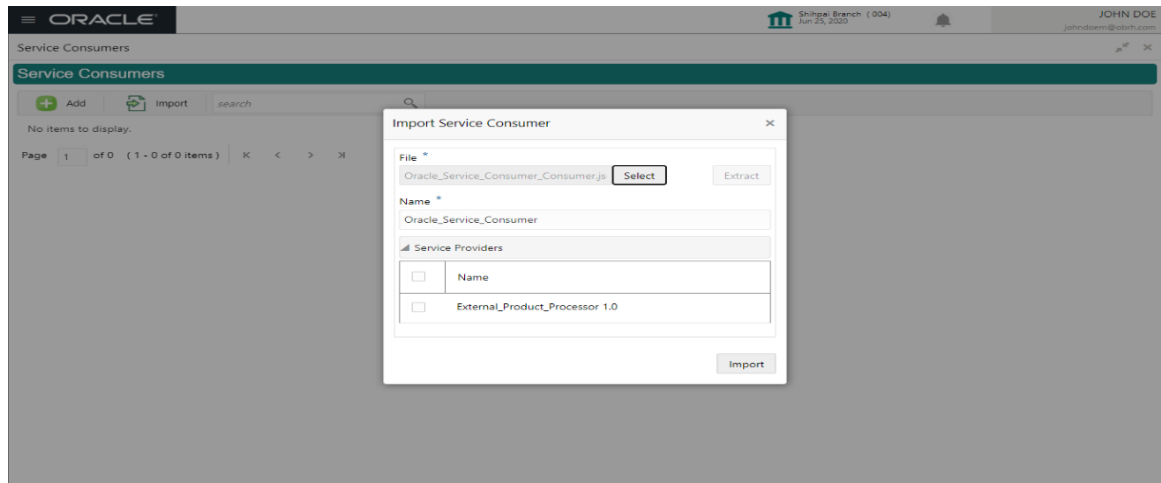


Table 70: Import

Component Name	Component Type	Is Mandatory	Data type	Validation	Condition	Comments
File	File picker	Yes		Allows only to select one file	Accepts only JSON file	Pops up file selection dialog box
Extract	Button	Yes				Extracts Consumer Name and Service Provider list from JSON file and displays it in the respective elements.
Name	Text Box	Yes	Alphanumeric with special characters	<ul style="list-style-type: none"> Name cannot be blank Enter 0 or more characters, up to a maximum of 255 	Editable	Unique

Component Name	Component Type	Is Mandatory	Data type	Validation	Condition	Comments
				<ul style="list-style-type: none"> No numeric value at beginning and no space allowed 		
Service Provider	Collapsible Header & Content					Displays the list of service providers that are present in JSON file
Import	Button					Imports Service Consumer

Note: Below data needs to be changed after importing consumer configuration file:

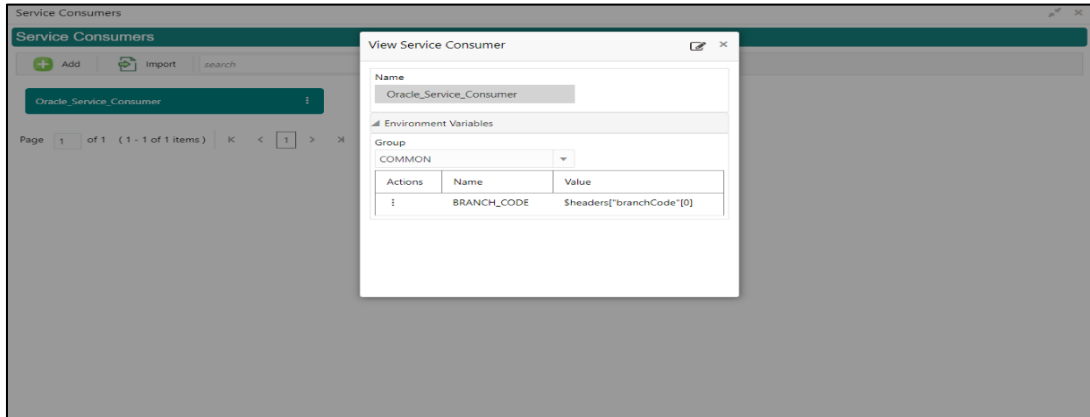
- Implementation Host and Port
- Implementation Authentication Password

3.32.1.4 View

User can view consumer details and can also switch to edit form by clicking on edit icon.

Navigation: **Service Consumers -> Operation Menu (3 dot icon) -> View**

Figure 73: View

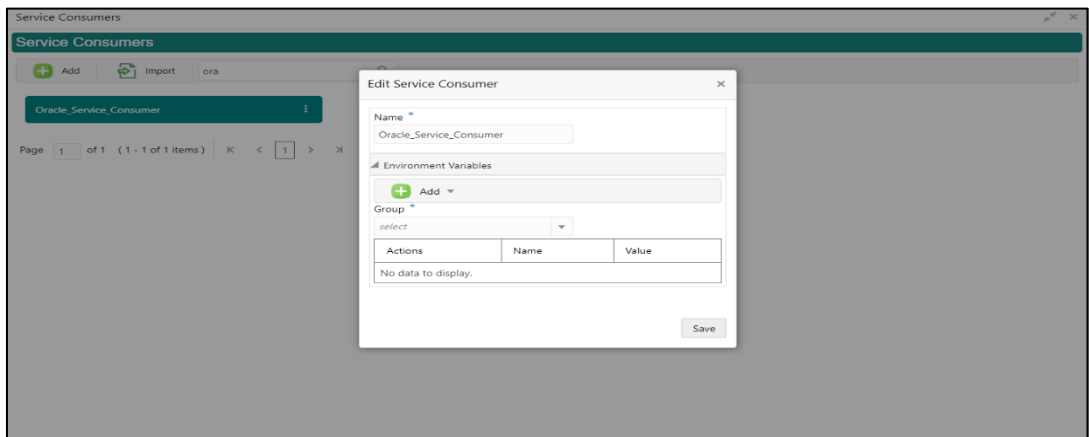


3.32.1.5 Edit

User can modify the consumer details.

Navigation: **Service Consumers -> Operation Menu (3 dot icon) -> Edit**

Figure 74: Edit

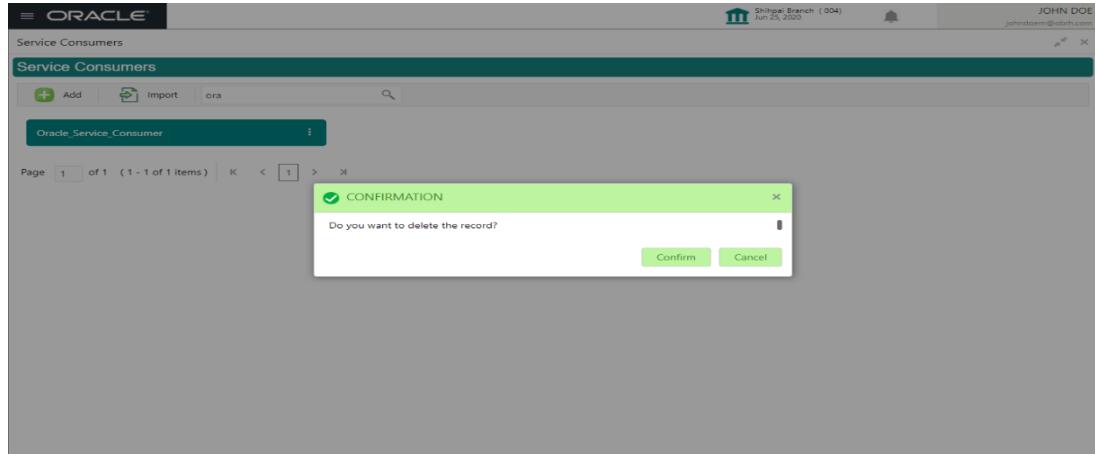


3.32.1.6 Delete

User can delete the consumer.

Navigation: **Service Consumers -> Operation Menu (3 dot icon) -> Delete**

Figure 75: Delete

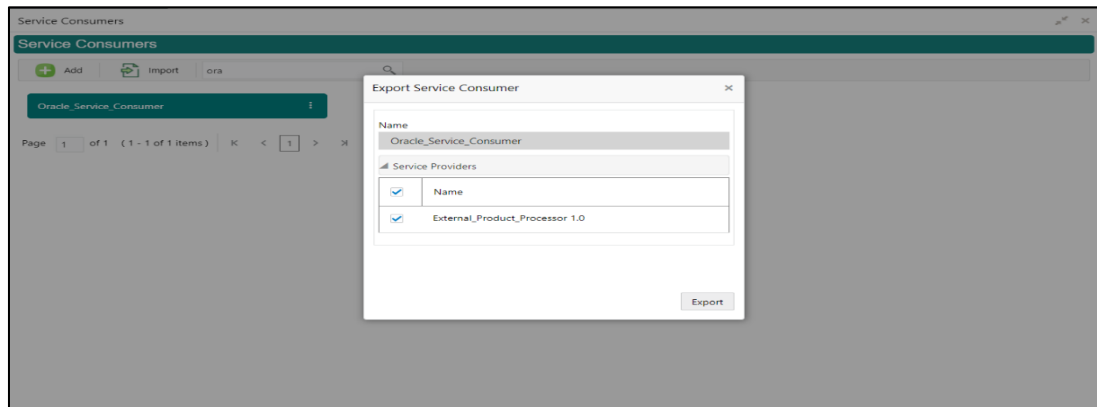


3.32.1.7 JSON Export

User can export the consumer configuration as JSON file.

Navigation: **Service Consumers -> Operation Menu (3 dot icon) -> Export -> JSON**

Figure 76: JSON Export



NOTE: User has an option to select service providers from the list which needs to be exported or can click on "Select All" option for all service providers.

JSON Export feature will export below data:

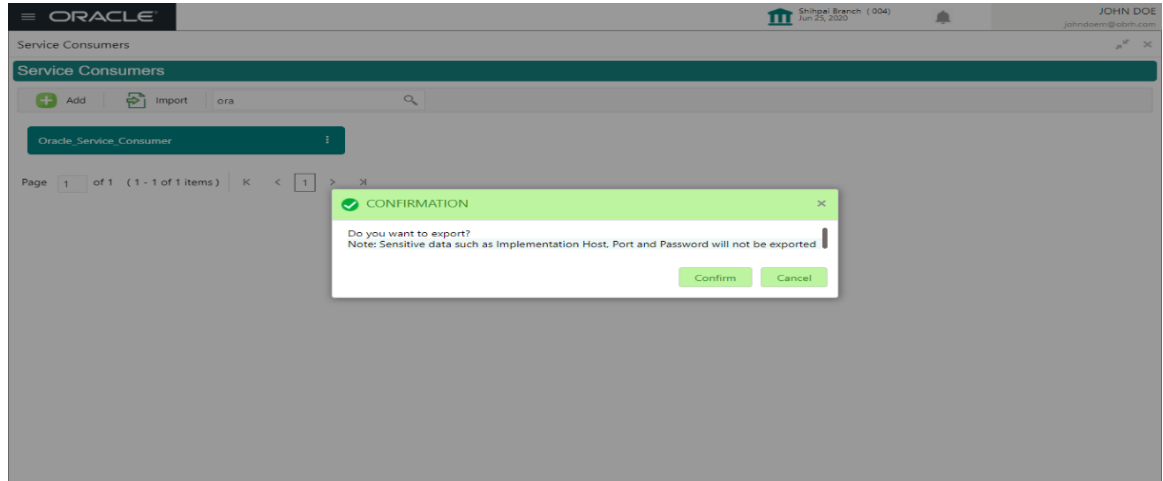
- Selected service consumer
- All consumer services
- Selected service providers with services
- Default implementation of selected service providers with services (without Host, Port and Authentication Password)
- Default transformations
- All default implementation routes

3.32.1.8 SQL Export

User can export the consumer configuration as SQL file.

Navigation: **Service Consumers -> Operation Menu (3 dot icon) -> Export -> SQL**

Figure 77: SQL Export



NOTE: SQL Export feature will export entire configuration without Host, Port and Authentication Password details.

3.32.2 Service Providers

Service Providers are the product processors configure to process request send by OBRH on behalf of service consumers.

Service Provider comprises of destination integration details.

Navigation: **Core Maintenance -> Routing Hub -> Service Consumers -> <Specific Service Consumer> -> Service Providers**

Figure 78: Service Providers

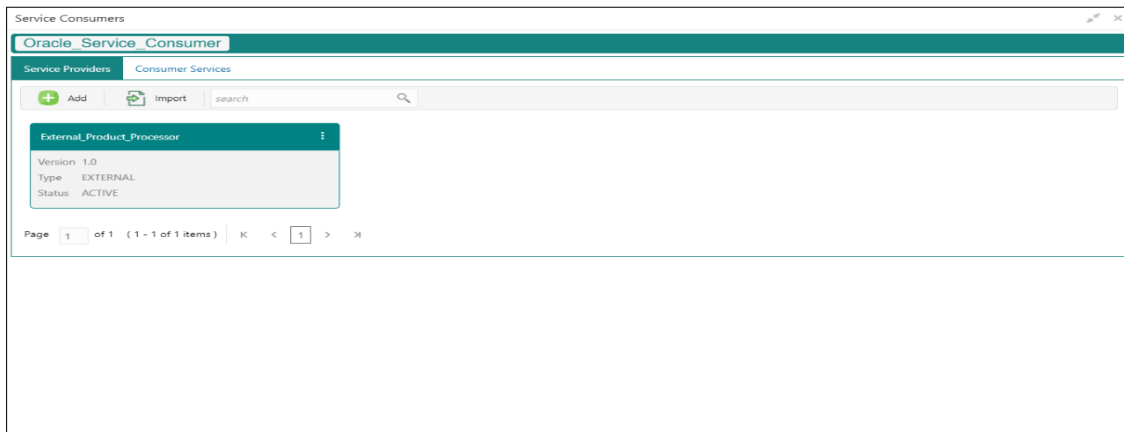


Figure 79: Service Providers

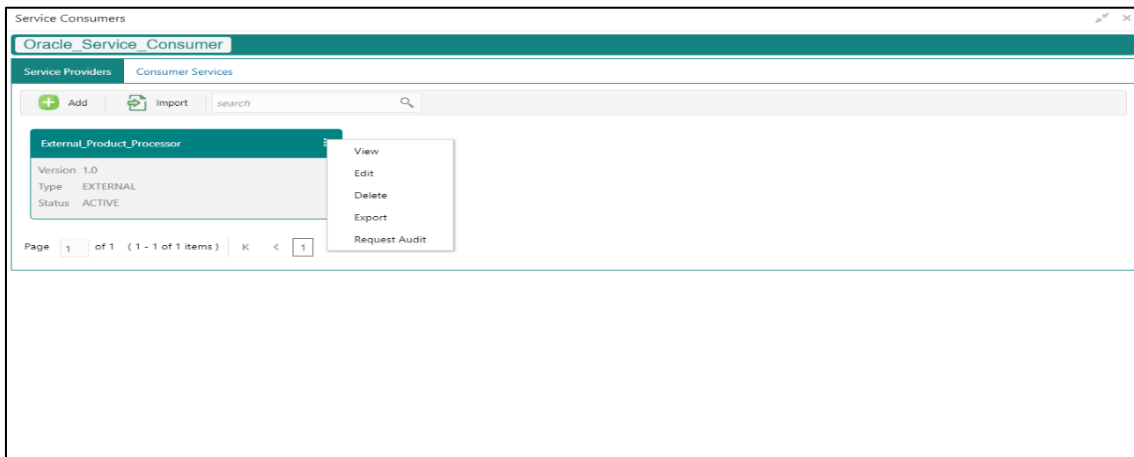


Table 71: Service Providers

Component Name	Component Type	Is Mandatory	Data type	Validation	Condition	Comments
<Service Consumer>	Button					Navigates back to Service Consumers
Add	Button					Pops up add dialog

Import	Button					Pops up import dialog
Search	Combo Box One					Provides search functionality with case insensitive (Service Provider Name)
Navigation: Service Providers -> 3 dot icon (operation menu)						
View	menu option				Non-editable	Pops up view dialog
Edit	menu option					Pops up edit dialog
Delete	menu option					
Export	menu option					Exports in JSON
Request Audit	menu option					Pops up request audit log

3.32.2.1 Add

User can create Service Provider manually.

Navigation: **Service Providers-> Add**

Figure 80: Add

Table 72: Add

Component Name	Component Type	Is Mandatory	Data type	Validation	Comments
Product Name	Text Box	Yes	Alphanumeric with special characters	<ul style="list-style-type: none"> Name cannot be blank Enter 0 or more characters, up to a maximum of 255. No numeric value at beginning and no space allowed. 	Unique provider name
Type	Combo Box One	Yes			Predefined Values: INTERNAL / EXTERNAL

Component Name	Component Type	Is Mandatory	Data type	Validation	Comments
Version	Text Box	Yes	Number	<ul style="list-style-type: none"> Version cannot be blank Enter 0 or more characters, up to a maximum of 255. Enter only numeric or decimal values. 	Unique provider version
Active	Switch				Predefined Values: ACTIVE / INACTIVE If provider is marked as inactive, then all related routes will be stopped.
Headers	Collapsible Header & Content				Provider specific headers
Service	Collapsible Header & Content				Provider specific service details
Save	Button				Saves the Service Provider

3.32.2.2 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.

These headers can be configured in OBRH using the steps given below.

Figure 81: Headers

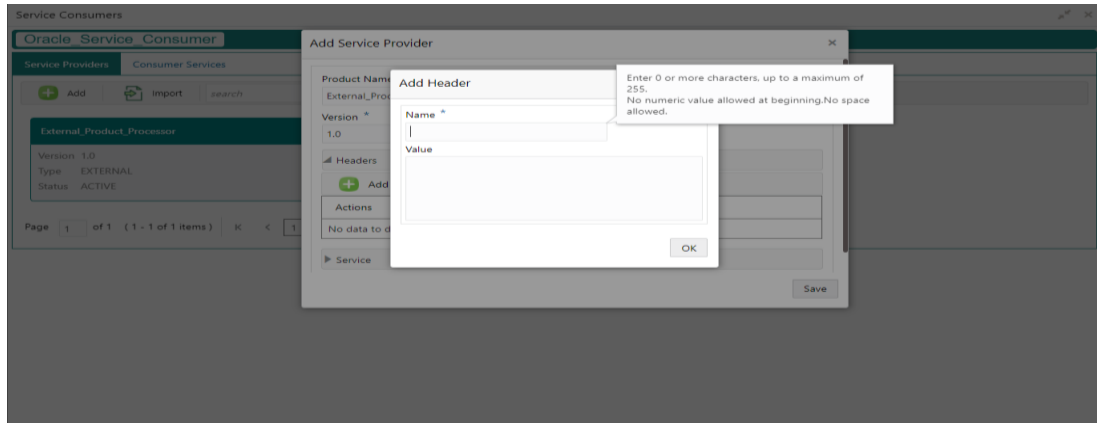


Figure 82: Headers

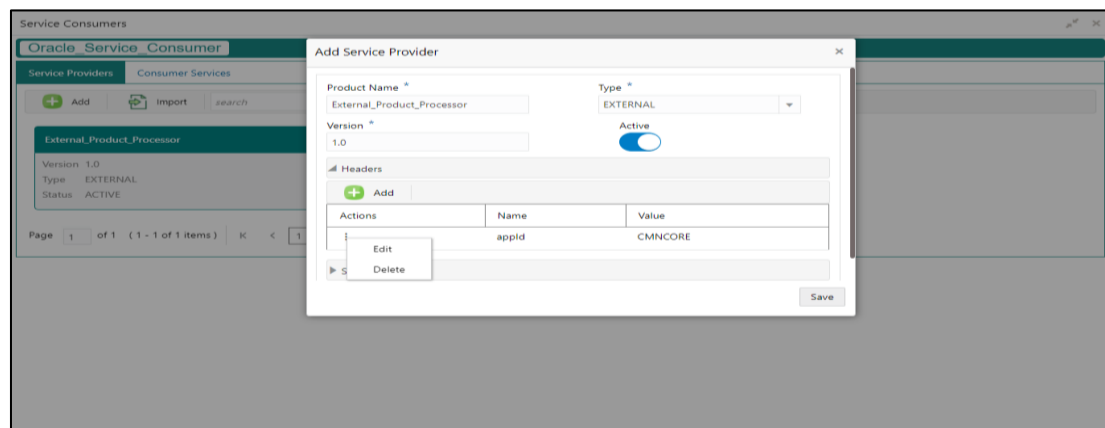


Table 73: Headers

Component Name	Component Type	Is Mandatory	Data type	Validation	Condition	Comments
Add	Button					Pops up add dialog
Navigation: Service Providers -> Headers -> 3 dot icon (operation menu)						
Edit	menu option					Pops up edit dialog
Delete	menu option					Deletes header

Component Name	Component Type	Is Mandatory	Data type	Validation	Condition	Comments
Navigation: Service Providers -> Headers -> Add						
Name	Text Box	Yes	Alphanumeric with special characters	<ul style="list-style-type: none"> Name cannot be blank Enter 0 or more characters, up to a maximum of 255. No numeric value at beginning and no space allowed. 		
Value	Text Area	Yes	Alphanumeric with special characters	<ul style="list-style-type: none"> Value cannot be blank Enter 0 or more characters, up to a maximum of 255. No space allowed. 		Value can either be hardcoded or can be Velocity mapping.
OK	Button					Saves the header details and displays it in the list

3.32.2.3 Service

Figure 83: Service

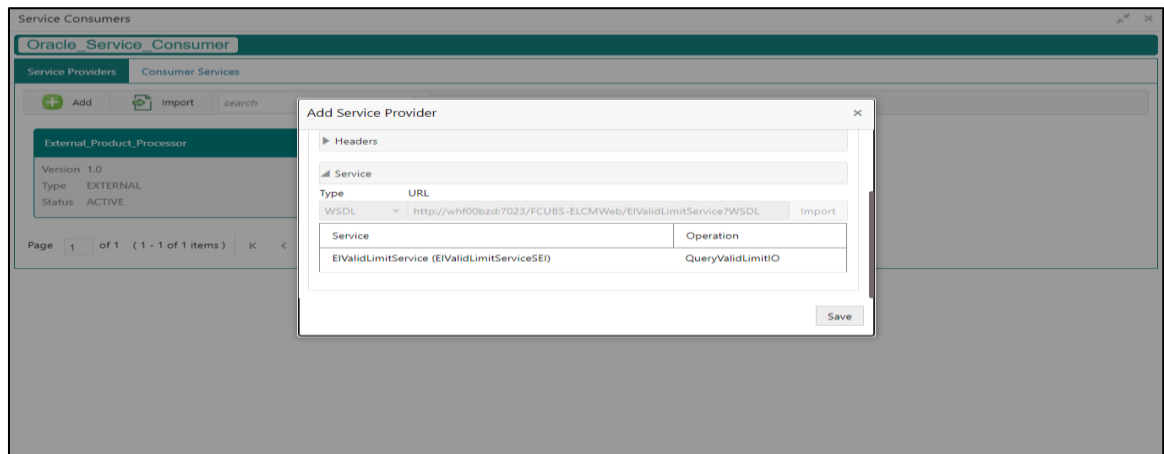


Table 74: Service

Component Name	Component Type	Is Mandatory	Comments
Type	Combo Box One	Yes	Predefined Values: WSDL / SWAGGER
URL	Text Box	Yes	Service URL of the file location
Gateway Prefix	Text Box		Gateway Prefix is context path of below formatted URL http://host:port/gateway-prefix/endpoint
Import	Button		Extracts the service information from URL and displays it in the Service list

3.32.2.4 WSDL

The Web Services Description Language (WSDL) is an XML-based interface description language that is used for describing the functionality offered by a web service.

Currently, non-SSL WSDL URL is only supported.

NOTE: In case there is a change in wsdl file, then same wsdl file need to be imported again in order to update the provided service information in routing hub.

3.32.2.5 SWAGGER

Swagger is an Interface Description Language for describing RESTful APIs expressed using JSON. Currently, Swagger 2.0 & OpenAPI 3.0 both are supported.

NOTE: In case there is a change in swagger file, then same swagger file need to be imported again in order to update the provided service information in routing hub.

3.32.2.6 Import

User can create a service provider by importing the JSON file.

Navigation: **Service Providers -> Import**

Figure 84: Import

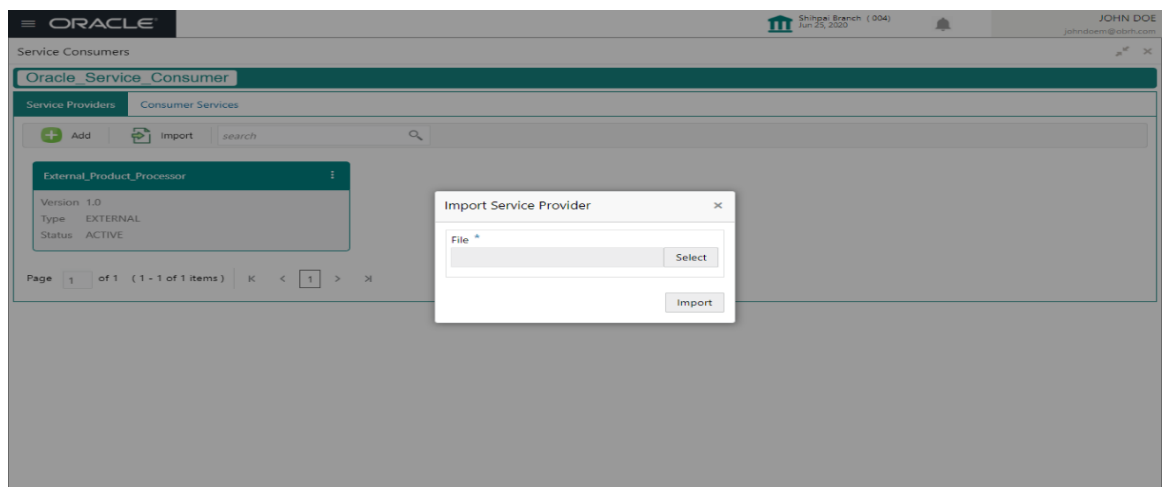


Table 75: Import

Component Name	Component Type	Is Mandatory	Validation	Condition	Comments
File	File picker	Yes	Allows only to select one file	Accepts only JSON file	Pops up file selection dialog box
Import	Button				Imports Service Provider

NOTE: Below data needs to be changed after importing provider configuration file:

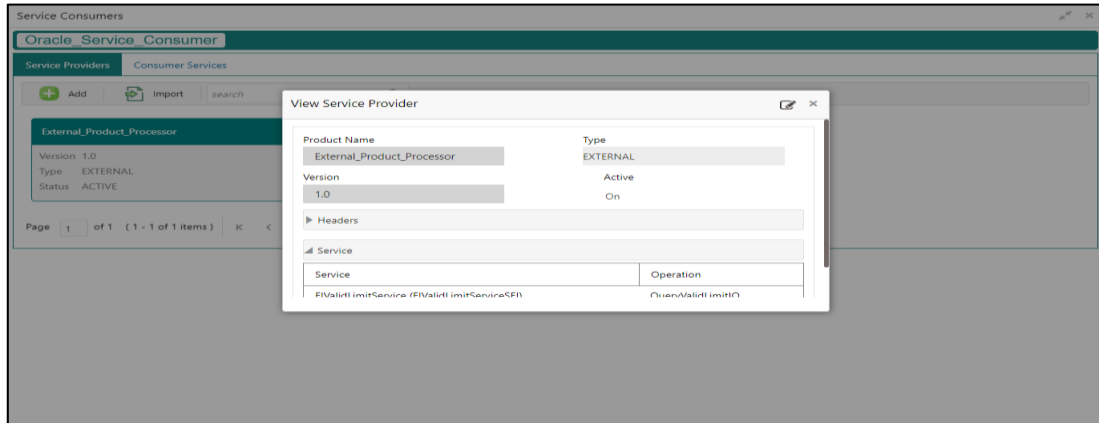
- Implementation Host and Port
- Implementation Authentication Password

3.32.2.7 View

User can view provider details and can also switch to edit form by clicking on edit icon.

Navigation: **Service Providers -> Operation Menu (3 dot icon) -> View**

Figure 85: OBRH Configuration

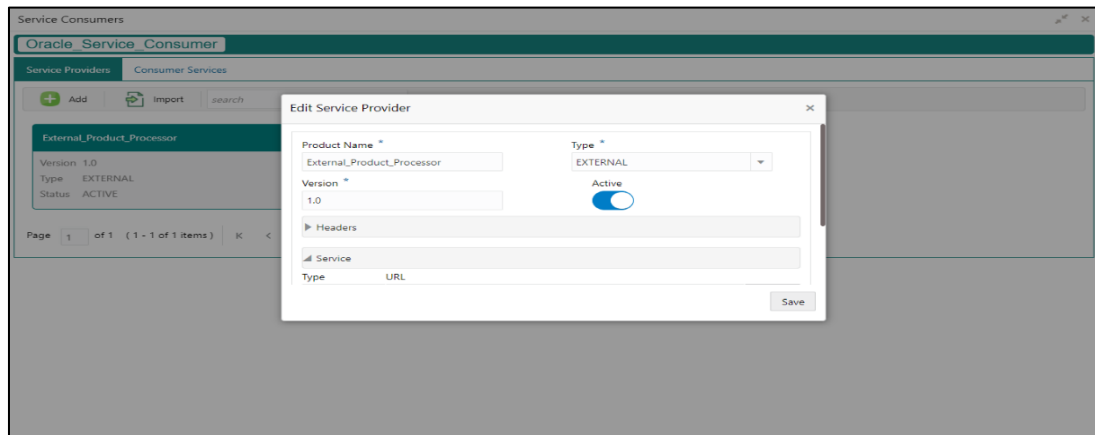


3.32.2.8 Edit

User can modify the provider details.

Navigation: **Service Providers -> Operation Menu (3 dot icon) -> Edit**

Figure 86: Edit

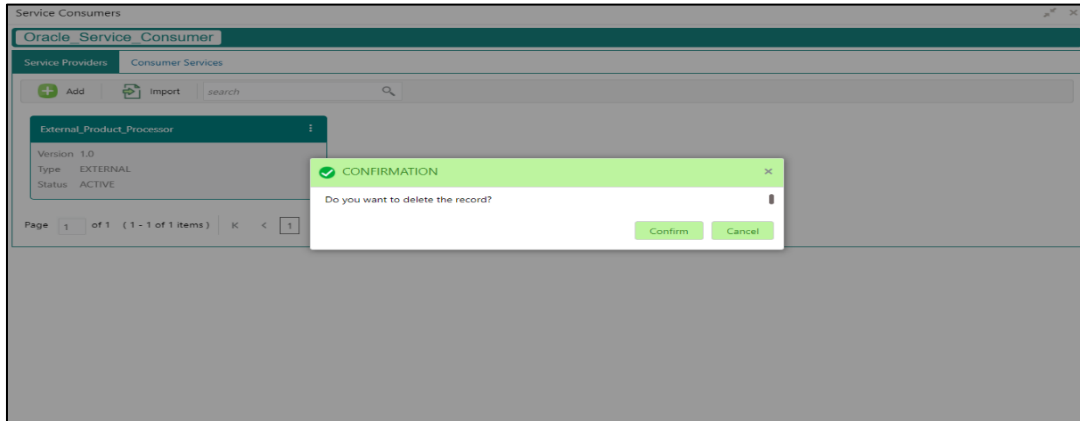


3.32.2.9 Delete

User can delete the provider.

Navigation: **Service Providers -> Operation Menu (3 dot icon) -> Delete**

Figure 87: Delete

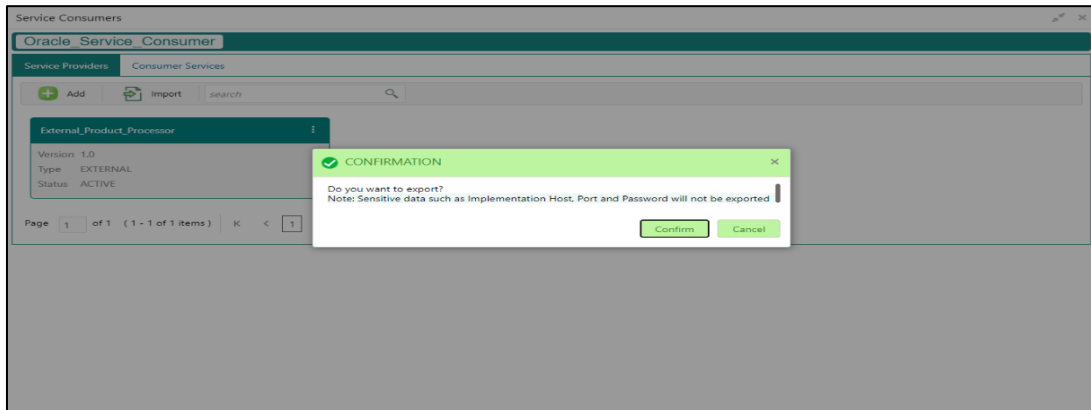


3.32.2.10 Export

User can export the provider configuration as JSON file.

Navigation: **Service Providers -> Operation Menu (3 dot icon) -> Export**

Figure 88: Export



NOTE: Below data is not 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

3.32.3 EXPERIAN Configuration

3.32.3.1 Experian Fetch Credit Report

Figure 89: Experian Fetch Credit Report

View Transformation

Request Transformation

Template Type	Template
VELOCITY	<pre>{ #set(\$dictionary = {}) #if(\$body.dictionary && \$body.dictionary.size()>0) #foreach(\$dictionaryItem in \$body.dictionary) #if(!\$dictionaryItem.isFactDictionary) #set(\$dictionaryItem.isFactDictionary = true) } } }</pre>

Response Transformation

Template Type	Template
VELOCITY	<pre>{ #define(\$htmlContent)#if(\$body.creditProfile.get(0).consumerIdentity.dob)<div style="padding:5px;maring:10px">Date of Birth </div> <div style="text-align:center;display: inline-block"> DOB </div> }</pre>

Mocking required?
Off

Figure 90: Experian Fetch Credit Report

View Transformation

Product Processor	Implementation
EXPERIAN 14.4	EXPERIAN_Default

Transformation
TRANSFORMATION1

Headers

Product Processor

Service
CreditReports -/v2/credit-report

Request Transformation

Template Type	Template
VELOCITY	<pre>{ #set(\$dictionary = {}) #if(\$body.dictionary && \$body.dictionary.size()>0) #foreach(\$dictionaryItem in \$body.dictionary) #if(!\$dictionaryItem.isFactDictionary) #set(\$dictionaryItem.isFactDictionary = true) } } }</pre>

3.32.3.2 Experian Sandbox

Service Consumer is used to export details of fetch credit report from sandbox environment

Figure 91: Experian Sandbox

Service Consumers		
CBSToBureau		
Service Providers Consumer Services		
<div> + Add Import <input type="text" value="search"/> </div>		
Actions	Name	Description
⋮	Fetch_Credit_Report	To fetch credit report
⋮	fetchCreditReportDev	This service is used to fetch the credit report of a person
⋮	fetchCreditReport	Fetch Credit Report Response DTO changes
⋮	fetchCreditReportBackup1	This service is used to fetch the credit report of a person
⋮	authorize	Fetch the jwt authorization taken from the Credit Bureau
Page 1 of 1 (1 - 5 of 5 items) ⏪ < 1 > ⏩		

3.32.4 Troubleshooting

3.32.4.1 OFLO issues faced during cmc-obcbs-service and cmc-obrh-services integration

Experian password expired

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 OBRH for token generation.

3.32.4.2 Unable to connect to external server

The OBRH server is unable to connect to the experian server. The proxy is not configured

The VM arguments were added for OBRH's managed server.

-Dhttps.proxyHost=www-proxy-idc.in.oracle.com

-Dhttps.proxyPort=80

<https://confluence.oraclecorp.com/confluence/pages/viewpage.action?pageId=2863487960>

3.32.4.3 OBRH environment variable value not found

The environment variable for the CBS product processor is improper. (\$.headers["bureauType"])[0])

The correct path was provided(\$.headers["bureauType"])[0]

3.33 Oracle Bureau Service (OBS)

3.33.1 Overview

Oracle Bureau Service (OBS) facilitates you to send requests to the credit bureau agencies for credit bureau reports of customers. It also facilitates you to view such reports received from the credit bureau agencies.

A credit bureau report presents the credit information of an individual or a company, which is fetched by credit bureau agencies 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 loan based on the credit score of a company or an individual.

For requesting and receiving the credit bureau reports, OBS is integrated with the product processor of the bank. The product processor requests for the credit bureau reports using OBS. It provides the required information of the customer for which the credit bureau report is requested. The information is sent to the credit bureau agency by OBS. Once the credit bureau report is received from the credit bureau agency, it is displayed in both OBS and the product processor.

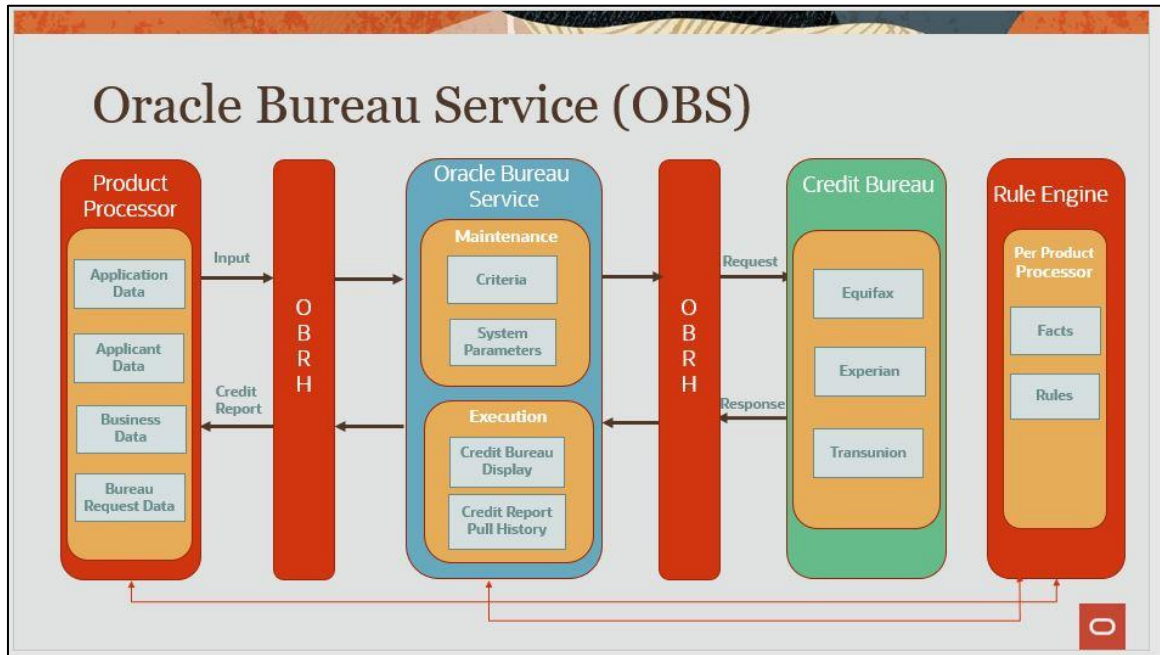
OBS maintains aging for bureau response for an applicant. History service allows to store and pull existing credit bureau report of an individual customer. OBS retrieves bureau response from history for those applicants if subsequent call to same bureau is made within defined time frame, beyond which a new bureau report is called. Existing credit bureau responses from history are sent back to the product processor.

In case of multiple applicant, product processor originates a lending application with multiple applicants and sends details to OBS to fetch credit bureau details for all the applicants, based on the evaluation of criteria. OBS consolidates all the bureau responses into one and send it to the product processor.

The Oracle Banking Routing Hub (OBRH) routes the information from the product processor to OBS and from credit bureau agency to OBS. When a credit bureau report request is sent by the product processor, OBRH verifies that all mandatory information is present as per the defined template and routes the request to OBS. Once OBS receives the request, it stores the data and processes the data based on various criteria. The criteria used by OBS contains the rules and facts of the product processor that are maintained in the Rules Engine, based on which the credit bureau agency to which the request is to be sent is identified. Once the credit bureau agency is identified, OBS sends the request to OBRH. OBRH transforms the data and sends the request to the respective credit bureau agency. The credit bureau agency processes the request and sends the report to OBRH. OBRH receives the report, stores the data, and transforms the report as per the defined template and sends it to OBS. Once the report is received, OBS displays the credit bureau report and sends the same to the product processor as well through OBRH.

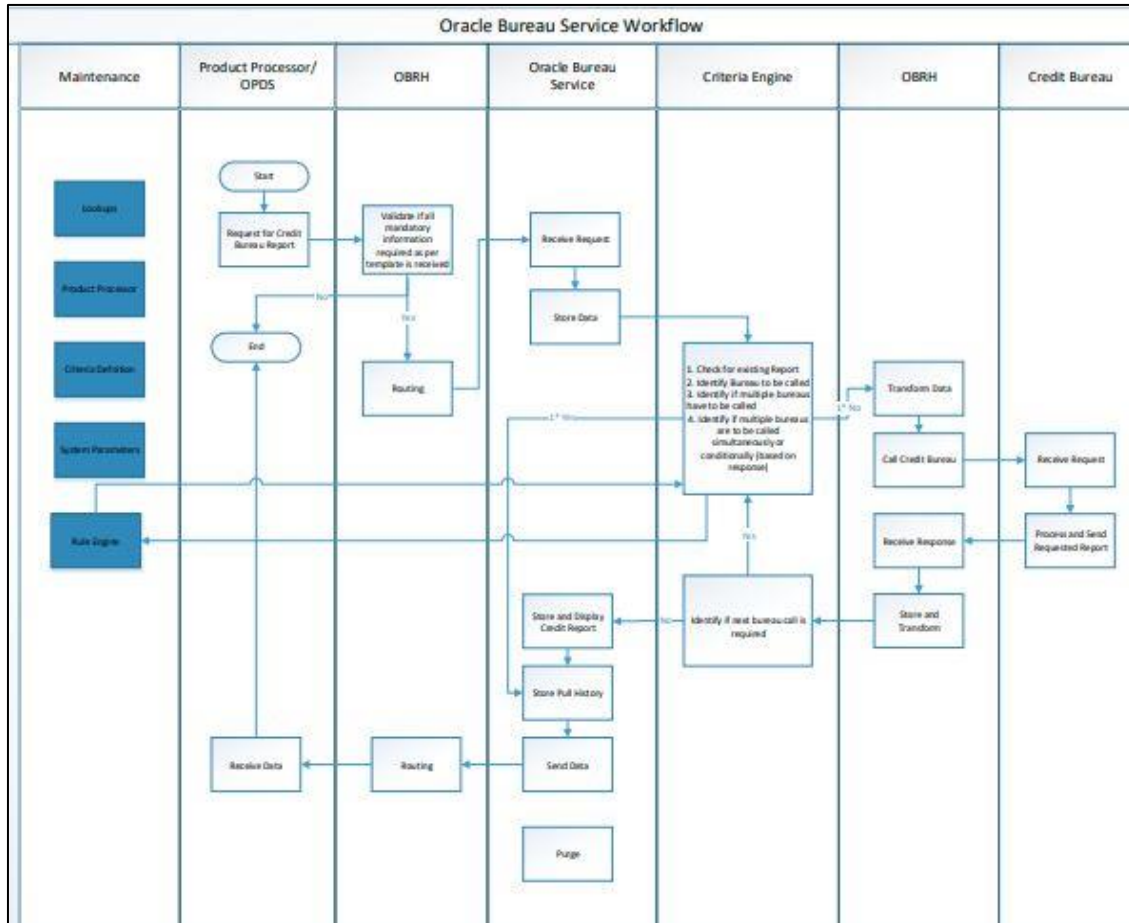
The below flow diagram depicts how OBS works with the integrated product processor and interfaces with Oracle Banking Routing Hub (OBRH) for fetching and displaying the credit bureau reports:

Figure 92: Oracle Bureau Service (OBS)



The following flowchart depicts a high-level flow of information in OBS:

















Figure 93 : High-Level knowledge about the process









3.33.2 Symbols

The following symbols are used in OBS.

Table 76: List of Symbols

Icons	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
	Navigate to the next record
	Grid view
	List view
	Refresh
Following are the icons that are displayed while viewing the audit details.	
	A user
	Date and time
	Unauthorized or Closed status

Icons	Function
	Authorized or Open status
Following are the icons that are displayed in a widget.	
	Open status
	Unauthorized status
	Closed status
	Authorized status
	Flip to view previous stage.

3.33.3 Basic Actions

Most of the screens contain buttons to perform all or few of the basic actions.

The table below gives a snapshot of them:

Table 77: Basic Actions

Actions	Description
New	<p>Click to add a new record. When you click New, system displays a new record enabling you to specify the required data. It is mandatory to specify details for the fields marked with '*' symbol.</p> <p>This button is displayed during any of the following scenarios:</p> <ul style="list-style-type: none"> • Lookup and Criteria created successfully. • After you, click a widget in the View Lookup and View Criteria screen.
Save	Click to save the details entered or selected in the screen.
Unlock	<p>Click to update the details of an existing lookup or criteria. System displays an existing record in editable mode.</p> <p>This button is displayed after any of the following scenarios:</p> <ul style="list-style-type: none"> • Lookup and Criteria created successfully. • After you, click a widget in the View Lookup and View Criteria screen.

Actions	Description
Authorize	<p>Click to authorize the lookup, criteria created. A maker of the screen is not allowed to authorize the lookup, criteria. Only a checker can authorize a model, created by a maker.</p> <p>This button is displayed after any of the following scenarios:</p> <ul style="list-style-type: none"> • Lookup and Criteria created successfully. • After you, click a widget in the View Lookup and View Criteria screen. <p>For more information on the process, see Authorization Process.</p>
Approve	<p>Click to approve the initiated lookup and criteria.</p> <p>This button is displayed, once you click Authorize.</p>
Audit	<p>Click to view the maker details, checker details, and lookup, criteria status.</p> <p>This button is displayed after any of the following scenarios:</p> <ul style="list-style-type: none"> • Lookup, Criteria created successfully. • After you, click a widget in the View Lookup, View Criteria screen.
Close	<p>Click to close a record. This action is available only when a lookup, criteria is created.</p>
Confirm	<p>Click to confirm the action you performed.</p>
Cancel	<p>Click to cancel the action you performed.</p>
Compare	<p>Click to view the comparison through the field values of old record and the current record.</p> <p>This button is displayed in the widget, once you click Authorize.</p>
View	<p>Click to view the lookup, criteria details in a particular modification stage.</p> <p>This button is displayed in the widget, once you click Authorize.</p>
View Difference only	<p>Click to view a comparison through the field element values of old record and the current record, which has undergone changes.</p> <p>This button is displayed, once you click Compare.</p>

Actions	Description
Expand All	Click to expand and view all the details in the sections. This button is displayed, once you click Compare .
Collapse All	Click to hide the details in the sections. This button is displayed, once you click Compare .
OK	Click to confirm the details in the screen.

Authorization process

To authorize and approve lookup, criteria you need to perform the following actions:

1. Navigate to the required screen.
2. Click **Authorize**. The lookup, criteria pending for authorization are displayed.
3. Select the required lookup, criteria and click **Approve**.
The lookup, criteria details are displayed in a widget. If you have modified the lookup, criteria twice, system displays two widgets with respective modification number along with the modified details.
4. Enter remarks for approving the lookup, criteria in the **Remarks** field.
5. Click **Confirm** and authorize the lookup, criteria.
The lookup, criteria are authorized successfully.

3.34 Credit Bureau Display

The Credit Bureau Display screen facilitates to view the reports received from the credit bureau agency. The report includes credit history details of the customer and the credit score of the customer based on these details.

3.34.1 View Credit Bureau Report

You can view the credit bureau report based on the various filter options provided.

To view a credit bureau report:

1. Click Credit Bureau > Operations > Credit Bureau Display.

→ The **Credit Bureau Display** screen is displayed.

Figure 94 : Credit Bureau Display Screen

A brief description of the fields is given below:

Table 78: Credit Bureau Display- Field Description

Field	Description
Filter	<p>Select the required option based on which you can search for the credit bureau reports.</p> <p>The options are:</p> <ul style="list-style-type: none"> • External Reference Number • CBS Inquiry ID • Inquiry Date • Bureau Name • Product Processor • Bureau Report ID

Field	Description
Value	Specify the required details or select the appropriate option for the selected filter option. This field appears once you select an option from the Filter list.
From Date	Select the start of the period during which the report was generated. This field appears once you have selected the filter option as Inquiry Date and value as Date Range .
To Date	Select the end date of the period during which the report was generated. This field appears if you have selected the filter option as Inquiry Date and value as Date Range .

- In the Search Criteria section, enter the details and click Search.
The search results appear showing a list of records based on the specified search criteria.

Figure 95 : Credit Bureau Display Screen

Inquiry Date	External Reference Number	Product Processor
5/4/2021	2RAX000001	OFLO
5/4/2021	1245ANB31002266	OFLO
5/4/2021	1245ANB31002271	OFLO
5/4/2021	1245ANB31002277	OFLO
5/4/2021	1245ANB31002359	OFLO
5/4/2021	1245ANB31002361	OFLO
5/4/2021	124APPB31001122	OFLO
5/4/2021	124APPB31000009	OFLO
5/4/2021	1245ANB31002379	OFLO
5/4/2021	1245ANB31002386	OFLO
5/4/2021	1245ANB31002287	OFLO

A brief description of the fields is given below:

Table 79: Credit Bureau Display – Field Description

Field	Description
Inquiry Date	Displays the inquiry date of the request from product processor to OBS.
External Reference Number	Displays the external reference number provided by the product processor.
Product Processor	Displays the name of the product processor that sent the request.


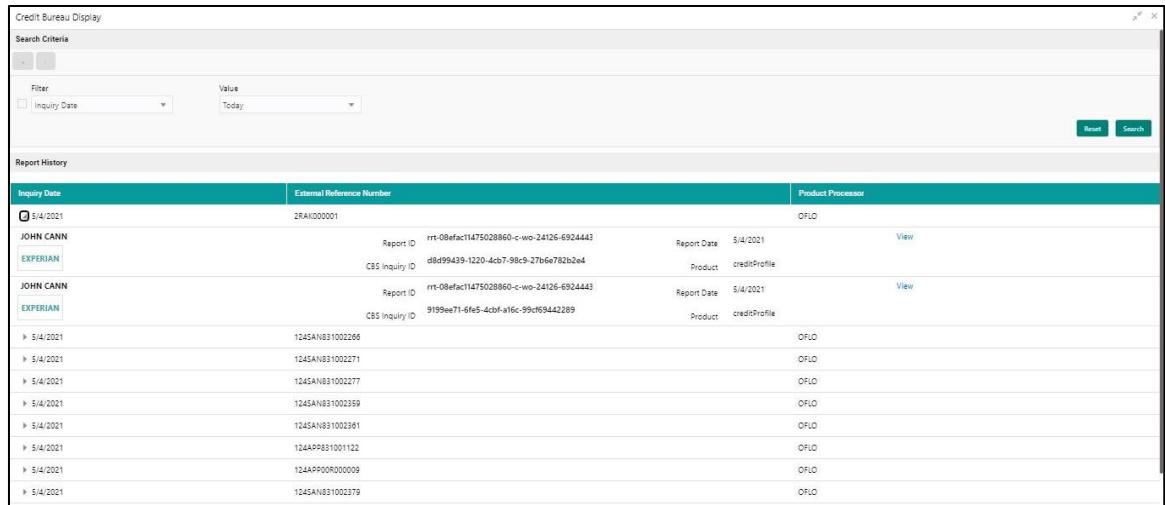
3. Click the  icon corresponding to the required record to view the list of reports.


Figure 96 : Credit Bureau Display view List Report



Inquiry Date	External Reference Number	Product Processor
5/4/2021	2RAKID00001	OFLO
JOHN CANN	Report ID: rrt-08efac1475028860-c-wo-24126-6924443	Report Date: 5/4/2021
EXPERIAN	CBS Inquiry ID: d8d99439-1220-4cb7-98c9-27b6a782b2e4	Product: creditProfile
JOHN CANN	Report ID: rrt-08efac1475028860-c-wo-24126-6924443	Report Date: 5/4/2021
EXPERIAN	CBS Inquiry ID: 9199ee71-6fe5-4cbf-a16c-99c63442289	Product: creditProfile
5/4/2021	1245ANB31002268	OFLO
5/4/2021	1245ANB31002271	OFLO
5/4/2021	1245ANB31002277	OFLO
5/4/2021	1245ANB31002359	OFLO
5/4/2021	1245ANB31002361	OFLO
5/4/2021	124APB31001122	OFLO
5/4/2021	124APB31000009	OFLO
5/4/2021	1245ANB31002379	OFLO

A brief description of the fields is given below:

Table 80: Create Bureau Display View List of Report – Field Description

Field	Description
The Following fields appear if you click 	
<Applicant Name>	Displays the name of the applicant.
<Bureau Name>	Displays the name of the credit bureau agency.
Report ID	Displays the report ID provided by the credit bureau agency.
Report Date	Displays the date on which the credit bureau report was generated by the credit bureau agency.
CBS Inquiry ID	Displays the inquiry ID generated by OBS.
Product	Displays the product of the credit bureau agency.
View	Click this link to view the credit bureau report.

4. Click the **View** link to view the credit bureau report.
The credit bureau report appears.

Figure 97 : Credit Bureau Report

Credit Bureau Display

Bureau Report

Bureau Name EXPERIAN Report ID 000000000000
Product Name CREDIT_PROFILE Report Date 2/23/2021

Date of Birth
DOB
1955-08-24

Name

firstName	middleName	surname	type
JOHN	NORMAN	CANN	
JOHN	N	CANN	
JOHN	BARRY	A	

Social Security Number

Number	SSN Indicator
999999999	YYYYYYYY

Risk Model

Evaluation	Model Indicator	Score	Score Factors
P	RC	0783	importance : 1 , code : 11 importance : 2 , code : 12 importance : 3 , code : 10 importance : 4 , code : 13

Close

A brief description of the fields is given below:

Table 81: Create Bureau Report – Field Description

Field	Description
Bureau Name	Displays the name of the credit bureau agency.
Product Name	Displays the product name of the credit bureau agency.
Report ID	Displays the report ID provided by the credit bureau agency.
Report Date	Displays the date on which the credit bureau report was generated by the credit bureau agency.

3.35 Lookup

Lookup are the service for mapping of keys and values that is used to enrich the description of the data displayed to the user. The lookup screen facilitates to define the contents for drop-down or list of value fields. Lookup fields is used throughout the system. The identified fields will only accept entries stored in this screen. Below are some examples of the lookup fields.

- Static/Enumeration values
 - Credit Bureau: Equifax, Transunion, Experian.
 - Comparison Operator: Equals, Greater than.
- Dependent lookups 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.

3.35.1 Create Lookup

You can create lookup definitions by updating various details.

To create lookup:

1. Click Credit Bureau > Maintenance > Lookup > Create Lookup.
→ The **Create Lookup** screen is displayed.

Figure 98 : Create Lookup

Lookup Code	Description	Sort Order	Dependent Identifier	Enable
No data to display.				

2. Enter a unique lookup type name in the **Lookup Type** field
3. Enter the description of the lookup in the **Description** field.
4. Click the + icon to add the addition rows in the table and click the – icon to remove the rows.

A brief description of the fields is given below:

Table 82: Create Lookup – Field Description

Field	Description
Lookup Type	Specify the unique lookup type name.
Description	Specify the short description for lookup.

Figure 99 : Create Lookup Screen

Lookup Code	Description	Sort Order	Dependent Identifier	Enable
EQUI	Equifax	1	1	<input checked="" type="checkbox"/>

A brief description of the fields is given below:

Table 83: Create Lookup – Field Description

Field	Description
Lookup Code	Specify the unique lookup code.
Description	Specify the short description for lookup.
Sort Order	Specify the sort order.
Dependent Identifier	Specify the dependent Identifier.
Enable	Click the toggle status to enable the parameter.

5. Click **Save**.

The lookup is successfully created and can be viewed using the **View Lookup** screen.

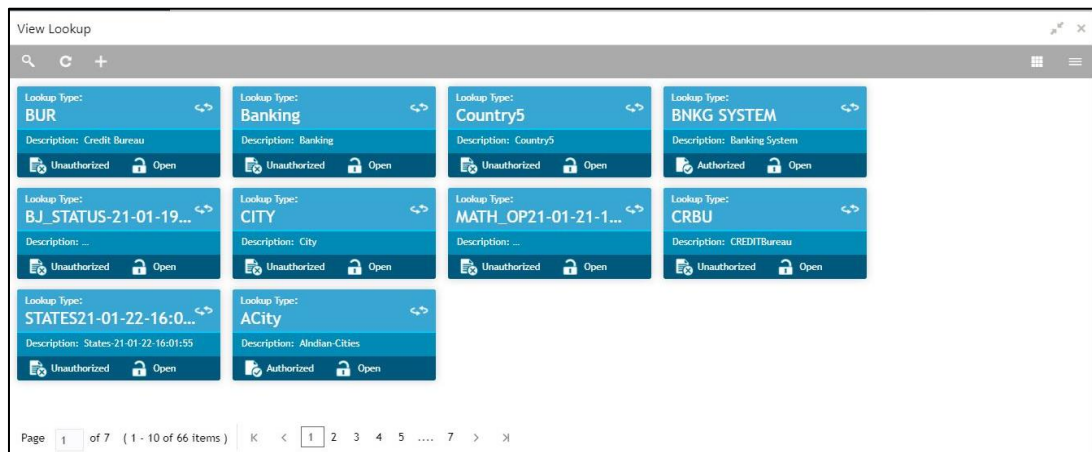
3.35.2 View Lookup

Using this screen, you can view the lookup created using the **Create Lookup** screen. The status of the uploaded lookup is displayed as **Unauthorized** and **Open**. Once the checker authorizes the lookup, the status is updated to **Authorized** and **Open**.

To view an uploaded lookup:

1. Click Credit Bureau > Maintenance > Lookup > View Lookup.
→ The **View Lookup** screen is displayed.

Figure 100 : View Lookup Screen




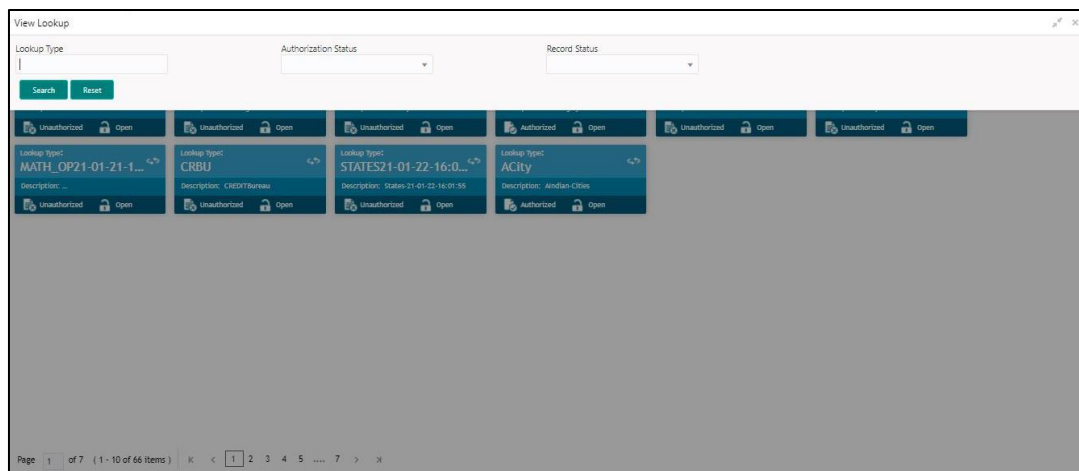

2. Click .
3. Enter the search criteria to fetch the required lookup.
4. Click **Search**.

Figure 101 : View Lookup - Search Option



A brief description of the field is given below:

Table 84: View Lookup – Search Option – Field Description

Field	Description
The following fields are displayed, once you click 	
Lookup Type	Displays the lookup type.
Authorization Status	Select the authorization status of the lookup. The options are: <ul style="list-style-type: none"> • Authorized • Unauthorized
Record Status	Select the record status of the lookup. The options are: <ul style="list-style-type: none"> • Open • Close: Availabe only for Authorized lookup.

- Click the widget to view the uploaded lookup details.
The details are displayed in the Lookup Maintenance screen.

A brief description of the fields is given below:

Table 85: Lookup Maintenance – Field Description.

Field	Description
The following fields are displayed, in widget.	
Lookup Type	Displays the lookup type.
Description	Displays the description of the lookup.

- After viewing the details, you can perform any action on a lookup mentioned in the Basic Actions section.

Modify Fields

Click **Unlock**, to modify the following fields in Lookup Codes tab:

- Lookup Code
- Description
- Sort Order
- Dependent Identifier
- Enable

Figure 102 : Lookup Maintenance

Lookup Code	Description	Sort Order	Dependent Identifier	Enable
<input type="checkbox"/> EQUI	Equifaxxxx	1		<input checked="" type="checkbox"/>
<input type="checkbox"/> EXP	Experian	3		<input checked="" type="checkbox"/>
<input type="checkbox"/> TRNS	Transunion	2		<input type="checkbox"/>

A brief description of the fields is given below:

Once you click the widget, the following fields are displayed in the Lookup Maintenance screen.

Table 86: Lookup Maintenance – Field Description.

Field	Description
Lookup Type	Displays the uploaded lookup type.
Description	Displays the description for the uploaded lookup.
Lookup Codes	
Lookup Code	Displays the lookup code for the uploaded lookup.
Description	Displays the description for the uploaded lookup.
Sort Order	Displays the sort order for the uploaded lookup.
Dependent Identifier	Displays the dependent identifier for the uploaded lookup.
Enable	Displays the lookup code if enabled for the uploaded lookup.

3.36 Criteria

The Criteria screen facilitates to setup criteria definition, which are used in evaluating request and response criteria (business rules) to identify which bureau is to be called for the request.

Examples:

1. Call credit bureau Experian, for personal loan product, and call credit bureau Experian and Equifax for home loan products.
2. Call credit bureau Experian if zip code of the applicant is between 70000 – 80000 and call credit bureau Equifax zip code of the applicant is between 30000 – 40000.
3. Call credit bureau Transunion if score from credit bureau is less than 600.

3.36.1 Create Bureau Criteria

You can create bureau criteria by updating various details.

To create bureau criteria:

1. Click Credit Bureau > Criteria > Create Bureau Criteria.
→ The **Create Bureau Criteria** screen is displayed.

Figure 103 : Create Bureau Criteria Screen

2. Enter unique criteria code in the **Criteria Code** field.
3. Enter the description in the **Description** field.
4. Select the product processor from the drop-down list in the **Product Processor** field.

A brief description of the fields is given below:

Table 87: Create Bureau Criteria – Field Description.

Field	Description
Basic Details	
Criteria Code	Enter the unique criteria code.
Description	Enter a short description for the criteria code.
Product Processor	Enter the product processor for which the criteria is being created.

Figure 104 : Create Bureau Criteria Screen

Create Bureau Criteria

Create Bureau Criteria

Basic Details

Criteria Code *
RL001

Description *
Ru1001

Product Processor *
OFLO

Rule ID	Description	Priority	Call All Bureau	Enable
-RL001	Rule 001	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Save Cancel

A brief description of the fields is given below:

Table 88: Create Bureau Criteria – Field Description.

Field	Description
Rule ID	Enter the rule ID.
Description	Displays the description of the rule ID selected, it is auto-populated.
Priority	Enter the priority of the criteria.
Call All Bureau	Click the toggle status to call all bureaus.
Enable	Click the toggle status to enable the rule criteria.
The below fields appears if Call All Bureau toggle status is not clicked, to add the child rule to the parent rule.	
Rule ID	Select the rule ID from the drop-down list.
Description	Displays the description of the rule ID selected it is auto-populated.
Priority	Enter the priority of the criteria.
Enable	Click the toggle status to enable the rule criteria.

- Click **Save**.

The criteria is successfully created and can be viewed using the **View Criteria** screen.

3.36.2 View Criteria

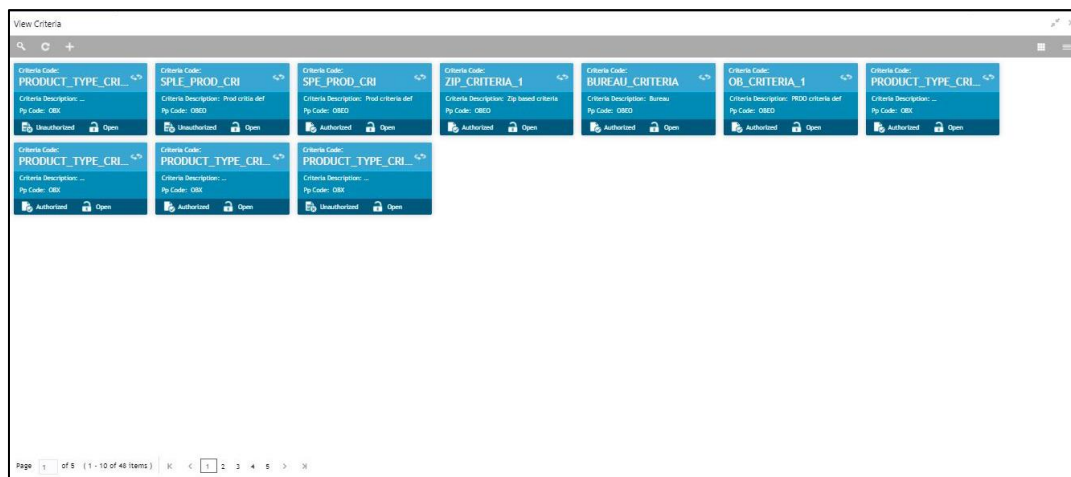
Using this screen, you can view the criteria created using the **Create Bureau Criteria** screen. The status of the uploaded criteria is displayed as **Unauthorized** and **Open**. Once the checker authorizes the lookup, the status is updated to **Authorized** and **Open**.

To view an uploaded criteria:

1. Click **Credit Bureau > Criteria > View Criteria**.

→ The **View Criteria** screen is displayed.

Figure 105 : View Criteria Screen




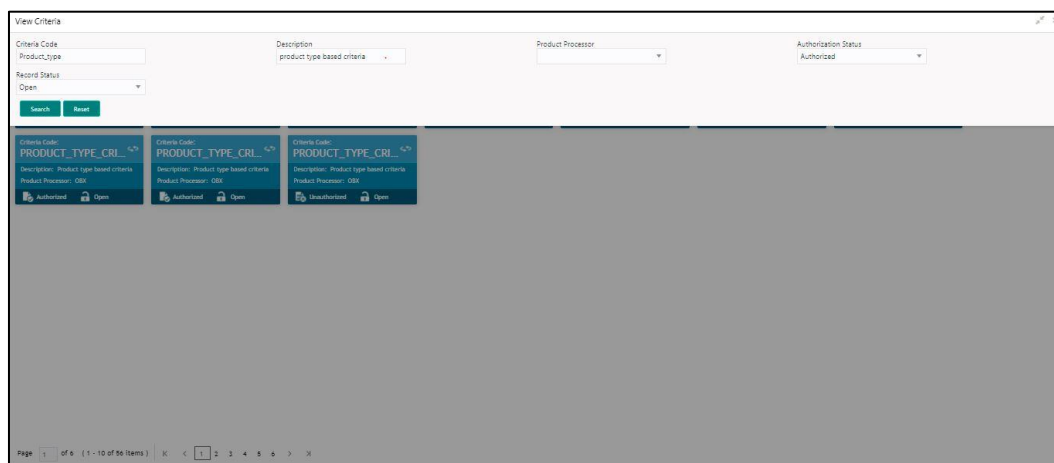

2. Click .
3. Enter the search criteria to fetch the required criteria.
4. Click **Search**.

Figure 106 : View Criteria –Search Option



A brief description of the field is given below:

Table 89: View Criteria – Field Description.

Field	Description
The following fields are displayed, once you click  .	
Criteria Code	Displays the criteria code.
Description	Displays the criteria description.
Product Processor	Displays the product processor.
Authorization Status	<p>Select the authorization status of the criteria.</p> <p>The options are:</p> <ul style="list-style-type: none"> • Authorized • Unauthorized
Record Status	<p>Select the record status of the criteria.</p> <p>The options are:</p> <ul style="list-style-type: none"> • Open • Close: Available only for Authorized lookup.

- Click the widget to view the uploaded criteria details.
The details are displayed in the Criteria Maintenance screen.

A brief description of the field is given below:

Table 90: Criteria Maintenance – Field Description.

Field	Description
The following fields are displayed, in widget.	
Criteria Code	Displays the criteria code.
Description	Displays the description of the criteria code.
Product Processor	Displays the product processor of the criteria.

- After viewing the details, you can perform any action on a criteria mentioned in the Basic Action section.

Modify Fields

Click **Unlock**, to modify the following fields in criteria.

- Rule ID
- Description
- Priority
- Call All Bureau
- Enable

Figure 107 : View Criteria - Unlock

A brief description of the fields is given below:

Table 91: Bureau Criteria – Field Description.

Field	Description
Once you click the widget, the following fields are displayed in the Create Bureau Criteria screen.	
Basic Details	
Criteria Code	Displays the uploaded criteria code.
Description	Displays the description for the uploaded criteria.
Product Processor	Displays the product processor of the uploaded criteria.
Rule ID	Displays the rule ID for the uploaded criteria.
Description	Displays the description for the uploaded criteria.
Priority	Displays the priority for the uploaded criteria.
Call All Bureau	Displays if call all bureau has been enabled for the uploaded criteria.
Enable	Displays the criteria code if enabled for the uploaded criteria.

4 NLP Framework

This section of the user guide is designed to help you quickly get acquainted with the Machine Learning, Natural Language Processing (NLP) framework.

Pre-requisites

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

This section contains the following topics:

- [4.1 Toolkit](#)
- [4.2 Operation](#)
- [4.3 3P Service Integration](#)

4.1 Toolkit

The Toolkit is used to design and train NLP/Named Entity Recognition (NER) Model(s).

This section contains following subsections:

- [4.1.1 Use Case Definition](#)
 - [4.1.1.1 Use Case Definition Summary](#)
 - [4.1.1.2 Use Case Definition Maintenance](#)
- [4.1.2 Annotator](#)
- [4.1.3 Model Training](#)
- [4.1.4 Model Management](#)
 - [4.1.4.1 Model Management Summary](#)
 - [4.1.4.2 Model Management Maintenance](#)

4.1.1 Use Case Definition

Use cases are defined by the business domain. The information that is required to be extracted from documents are driven by business consideration against the context of the use case being defined.

Tags/entities are required for annotating or tagging of information in the source document in order to create training files for a use case model training. These tags or entities will always be driven by business considerations for a particular use 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.

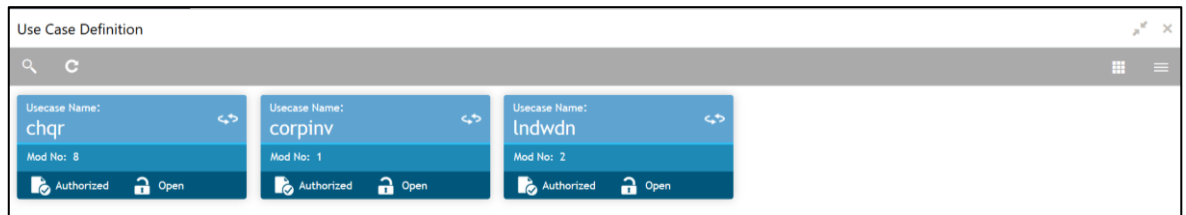
4.1.1.1 Use Case Definition Summary

The summary screen displays the list of defined use cases. To process this screen, perform the following steps:

1. From **Home** screen, click **Machine Learning**. Under **Machine Learning**, click **NLP Toolkit**.
2. Under **NLP Toolkit**, click **Use Case Definition**.

→ The **Use Case Definition** screen is displayed.

Figure 108: Use Case Definition



For more information on menus, refer to [Table 92: Use Case Definition – Field Description](#).

Table 92: Use Case Definition – Field Description

Field	Description
Usecase Name	Displays the name of the use case
Mod No	Displays the modification number
Authorized Status	Displays the Authorized or Unauthorized status
Record Status	Displays the status of the record.

4.1.1.2 Use Case Definition Maintenance

The maintenance screen allows you to define use cases and maintain entities/tags for the use case.

Figure 109: Use Case Definition Maintenance

Tag Display Sequence	Tag Screen Display	Tag Name	Annotation Tag	Default Value
3	Invoice Due Date	invoiceDueDate	Y	
15	"Buyer Division Code	buyerDivisionCode	-	Y
8	Currency	currency	Y	
20	"External Branch BIC	externalBranchBIC	-	Y
10	Tax Amount	taxAmount	Y	

Provide the details in the relevant data fields. Mandatory data fields are indicated accordingly. For more information on menus, refer to [Table 93: Tag Maintenance – Field Description](#).

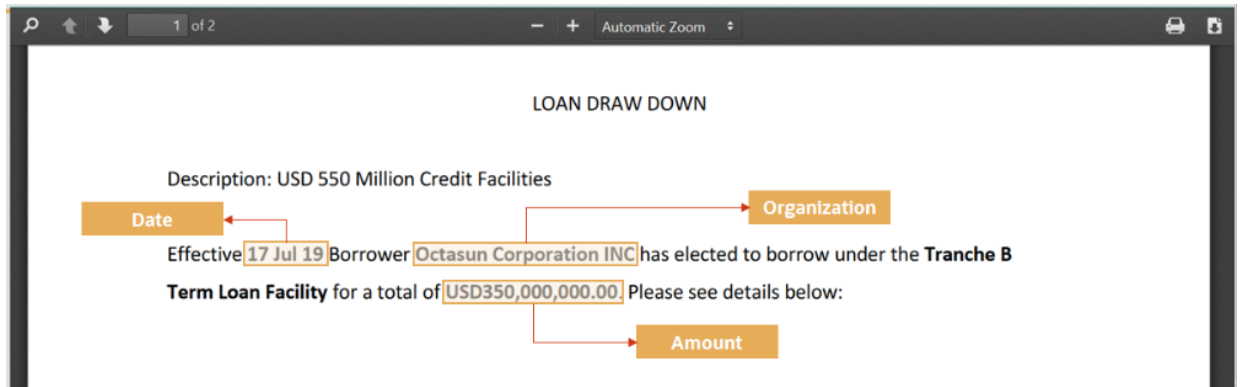
Table 93: Tag Maintenance – Field Description

Field	Description
Use Case Name	Unique use case name. It gets populated on Save, from the last folder name from the "Training Corpus Path (DOC)"
Description	Use Case Description
Mod No	Automatic Modification Number
Straight Through Processing	yes = Unattended / No = Attended
Use Case Tags/Entities	Specifies the use case tags entities.
Tag Display Sequence	The sequence in which the tags get displayed.
Tag Screen Display	Business Name of the Tag
Tag Name	Technical Name of the Tag
Annotation Tag	To identify tags to be used in Training
Default Value	Default value for tags not used for training

4.1.2 Annotator

Annotation is the process of identifying information within a document content and tagging them as a specific type of information. Of course, each use case defined, will have their own relevant maintained list of tags/entities, which will be used to annotate source documents for a use case.

Figure 110: Annotator

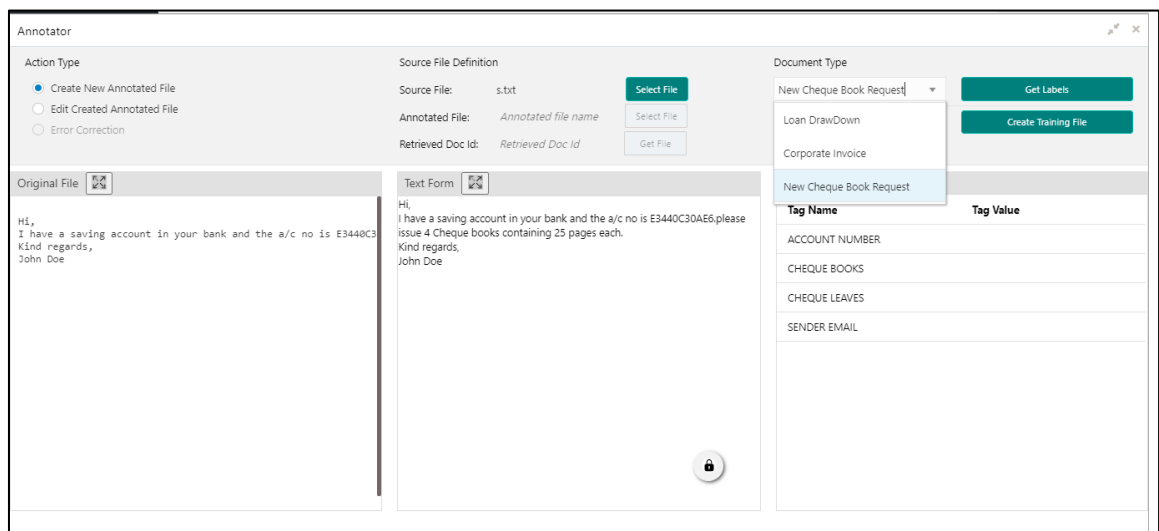


Annotator helps you to perform the annotations on a source document for a use case. To process this screen, perform the following steps:

1. From **Home** screen, click **Machine Learning**. Under **Machine Learning**, click **NLP Toolkit**.
2. Under **NLP Toolkit**, click **Annotator**.

→ The **Annotator** screen is displayed.

Figure 111: Annotator



3. Provide the details in the relevant data fields. Mandatory data fields are indicated accordingly. For more information on menus, refer to [Table 94: Annotator – Field Description](#).

Table 94: Annotator – Field Description

Field	Description
Action Type	Select the action type. Available options are as following: <ul style="list-style-type: none"> Create New Annotated File Edit Created Annotated File
Source File Definition	Select the source document from local windows explorer based on the Action Type .
Document Type	Displays the list of all the use cases defined under use case definition.
Get Labels	For the selected Document Type the maintained Tags/entities are displayed in the below Annotations section.
Create Annotated File	Once annotations of all the Tags are completed, this will perform two outcomes, <ul style="list-style-type: none"> Create annotated text file in the defined NER train path as maintained under use case definition Create text file in the defined DOC train path as maintained under use case definition

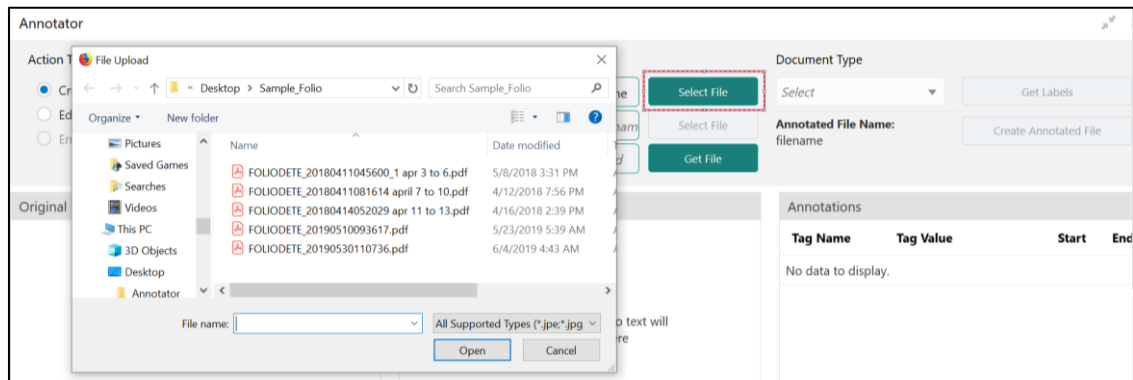
Follow the below mentioned steps to annotate the source files:

1. Select action type as “Create New Annotated File”.

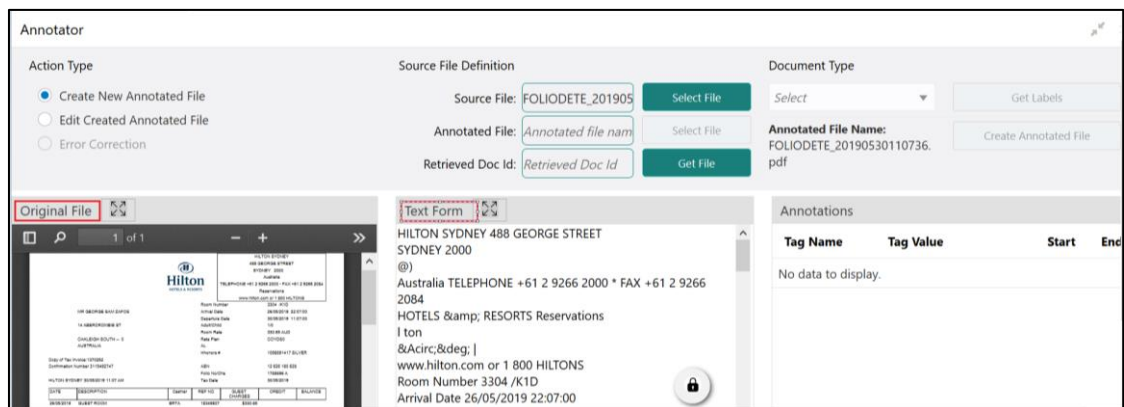
Figure 112: Action Type

The screenshot shows the 'Annotator' application interface. The 'Action Type' section is highlighted with a red box, showing three radio button options: 'Create New Annotated File' (selected), 'Edit Created Annotated File', and 'Error Correction'. The 'Source File Definition' section includes input fields for 'Source File Name', 'Annotated File Name', and 'Retrieved Doc Id', each with a corresponding 'Select File' or 'Get File' button. The 'Document Type' section has a dropdown menu labeled 'Select' and a 'Get Labels' button. Below these sections are three main areas: 'Original File' (with the text 'Document will appear here'), 'Text Form' (with the text 'Document converted to text will be displayed here'), and 'Annotations' (with a table header 'Tag Name', 'Tag Value', 'Start', 'End' and the text 'No data to display.').

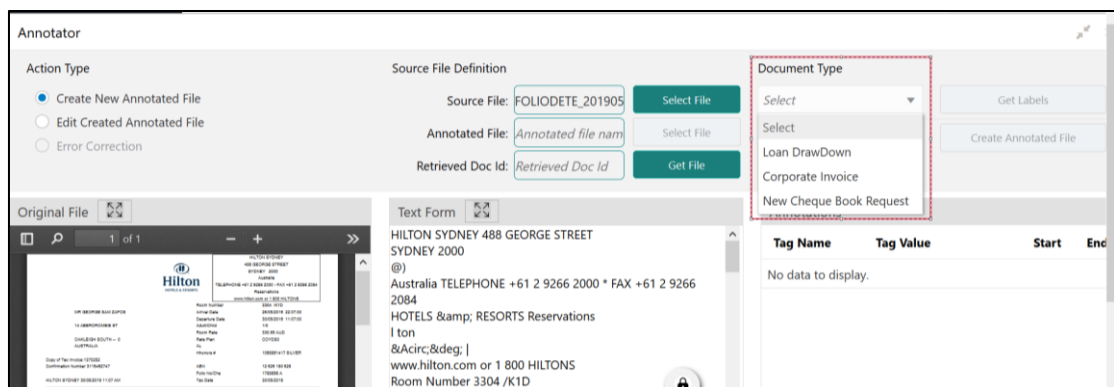
- Click **Select File**. It will open the windows explorer. Navigate and select the source document to be annotated.

Figure 113: File Upload

- The source document will be displayed in the “Original File” section and the text version of the document will be displayed in the “Text Form” section below:

Figure 114: Text Form

- Chose the “Document Type”.

Figure 115: Document Type

5. Click **Get Labels**. It will load all the maintained Tags for the Document Type.

Figure 116: Tags

The screenshot shows the Annotator interface with the following sections:

- Action Type:** Create New Annotated File (selected), Edit Created Annotated File, Error Correction.
- Source File Definition:** Source File: FOLIODETE_201905, Annotated File: Annotated file nam, Retrieved Doc Id: Retrieved Doc Id.
- Document Type:** Corporate Invoice, with a **Get Labels** button highlighted by a red box.
- Annotations:** A table with columns Tag Name, Tag Value, Start, and End. The table contains the following entries:

Tag Name	Tag Value	Start	End
Buyer Code			
Invoice Date			
Tax Percentage			
Amount			

6. Identify and select information within the “Text Form” section of the document and RIGHT-CLICK to display the list of tags and select the relevant tag.

Figure 117: List of Tags

The screenshot shows the Annotator interface with the following sections:

- Action Type:** Create New Annotated File (selected), Edit Created Annotated File, Error Correction.
- Source File Definition:** Source File: FOLIODETE_201905, Annotated File: Annotated file nam, Retrieved Doc Id: Retrieved Doc Id.
- Document Type:** Corporate Invoice, with a **Get Labels** button.
- Annotations:** A table with columns Tag Name, Tag Value, Start, and End. The table contains the following entries:

Tag Name	Tag Value	Start	End
Buyer Code			
Invoice Date			
Tax Percentage			
Amount			
Currency			
- Text Form:** A section containing text from a document, including "HILTON SYDNEY 488 GEORGE STREET", "AUSTRALIA TELEPHONE +61 2 9266 2000", and "Total All Charges \$1,322.60". A right-click context menu is open over the "Total All Charges" value.

Figure 118: Select Annotation Label

The screenshot shows the Annotator interface with the following sections:

- Action Type:** Create New Annotated File (selected), Edit Created Annotated File, Error Correction.
- Source File Definition:** Source File: FOLIODETE_2, Annotated File: Annotated file, Retrieved Doc Id: Retrieved Doc Id.
- Document Type:** Corporate Invoice, with a **Get Labels** button.
- Annotations:** A table with columns Tag Name, Tag Value, Start, and End. The table contains the following entries:

Tag Name	Tag Value	Start	End
Buyer Code			
Invoice Date			
Tax Percentage			
Amount			
Currency			
- Text Form:** A section containing text from a document, including "HILTON SYDNEY 488 GEORGE STREET", "AUSTRALIA TELEPHONE +61 2 9266 2000", and "Total All Charges \$1,322.60". A right-click context menu is open over the "Total All Charges" value, showing a list of tags to select from:
 - Buyer Code
 - Invoice Date
 - Tax Percentage
 - Amount
 - Currency
 - Invoice No.
 - Tax Amount
 - Supplier Name
 - Discount Percentage
 - Net Invoice Amount
 - Discounted Amount

- The selected Tag and the information will get displayed in section “Annotations” under Tag Name and Tag Value.

Figure 119: Annotations

The screenshot shows the 'Annotator' application interface. At the top, there are sections for 'Action Type' (with radio buttons for 'Create New Annotated File', 'Edit Created Annotated File', and 'Error Correction'), 'Source File Definition' (with input fields for 'Source File', 'Annotated File', and 'Retrieved Doc Id'), and 'Document Type' (with a dropdown menu and buttons for 'Get Labels' and 'Create Annotated File'). Below these is a preview of the 'Original File' (a Hilton invoice) and a 'Text Form' view of the same document. On the right, the 'Annotations' section displays a table with columns 'Tag Name', 'Tag Value', 'Start', and 'End'. The table contains several entries, with 'Net Invoice Amount' highlighted by a red dashed box, showing a value of 1,322.60 and a range from 628 to 636.

Tag Name	Tag Value	Start	End
Discount Percentage			
Net Invoice Amount	1,322.60	628	636
Discounted Amount			

- Repeat steps (6) and (7) for all the displayed tags as per availability of information in the source document.
- Select a Tag Name from the “Annotations” section and RIGHT- CLICK to delete the Tag Value.

Figure 120: Tag Value

This screenshot is similar to Figure 119, but with a red box around the 'Net Invoice Amount' tag and the text 'RIGHT CLICK' overlaid on it, indicating the action to be taken. The 'Text Form' view on the left shows the invoice details, including the total amount of \$1,322.60.

Tag Name	Tag Value	Start	End
Discount Percentage			
Net Invoice Amount	1,322.60	628	636
Discounted Amount			

- After all the tags are assigned relevant information click **Create Annotated File** to create the annotated file and end the process.

4.1.3 Model Training

Model training is done on the annotated training corpus. The annotated training corpus is a collection of annotated training files created using the annotator.

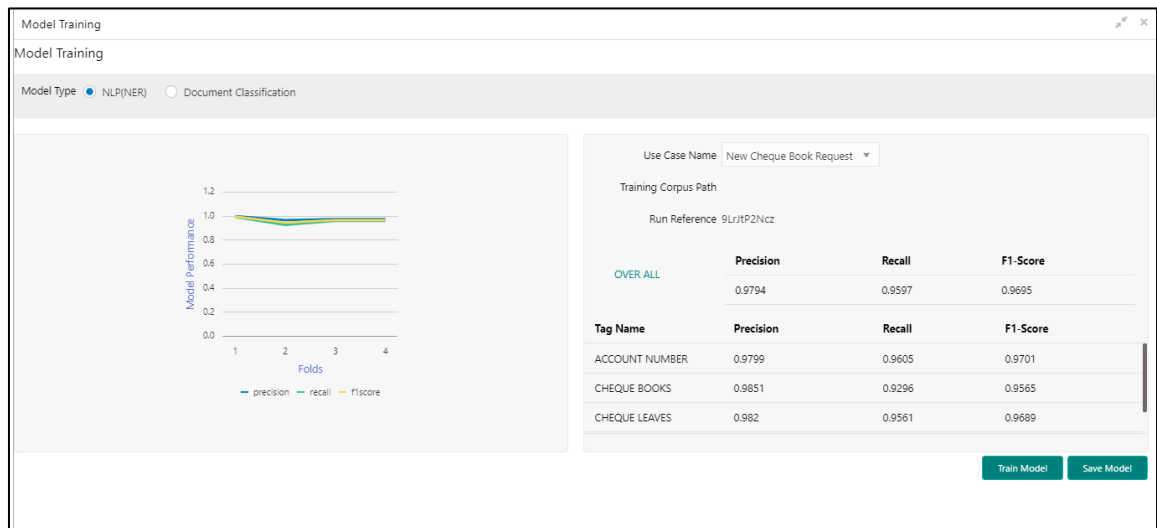
Model training is iterative and is carried out over increasing corpus size depending on the model parameters.

Each defined use case will have its own training corpus available in the path set up in the use case definition. To process this screen, perform the following steps:

1. From **Home** screen, click **Machine Learning**. Under **Machine Learning**, click **NLP Toolkit**.
2. Under **NLP Toolkit**, click **Model Training**.

→ The **Model Training** screen is displayed.

Figure 121: Model Training



Training NER Models:

3. Select the Model Type as NLP(NER).
4. Choose the use case name.
5. Click **Train Model**.

Each model for a use case is identified by a unique run reference.

Training Document Classifier Model:

6. Select the Model Type as Document Classification.
7. Click **Train Model**.

If you find the model parameters acceptable, you may want to save the model by clicking **Model Save**.

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

All the run reference of models saved from model training for a use case can be seen here. For each model run reference, you can view the parameters for the model as well as individual tag/entities

You may choose the active model run reference to be used as part of business processing.

This section contains following subsections:

- [4.1.4.1 Model Management Summary](#)~~Model Management Summary~~
- [4.1.4.2 Model Management Maintenance](#)~~Model Management Maintenance~~

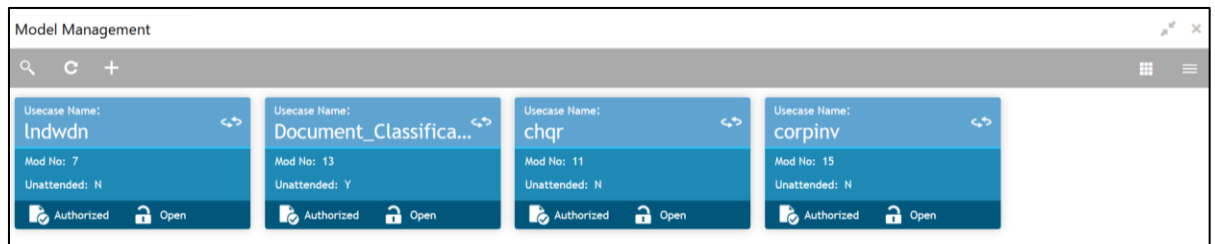
4.1.4.1 Model Management Summary

The summary screen displays the list of use case models. To process this screen, perform the following steps:

1. From **Home** screen, click **Machine Learning**. Under **Machine Learning**, click **NLP Toolkit**.
2. Under **NLP Toolkit**, click **Model Management**.

→ The **Model Management** screen is displayed.

Figure 122: Model Management Summary



For more information on menus, refer to [Table 95: Model Management Summary – Field Description](#).

Table 95: Model Management Summary – Field Description

Field	Description
Use Case Name	Displays the name of the Use Case.
Mod No	Displays the number of modifications.
Authorized Status	Displays the status as Authorized or Unauthorized.
Record Status	Displays the record status as Open or Closed.

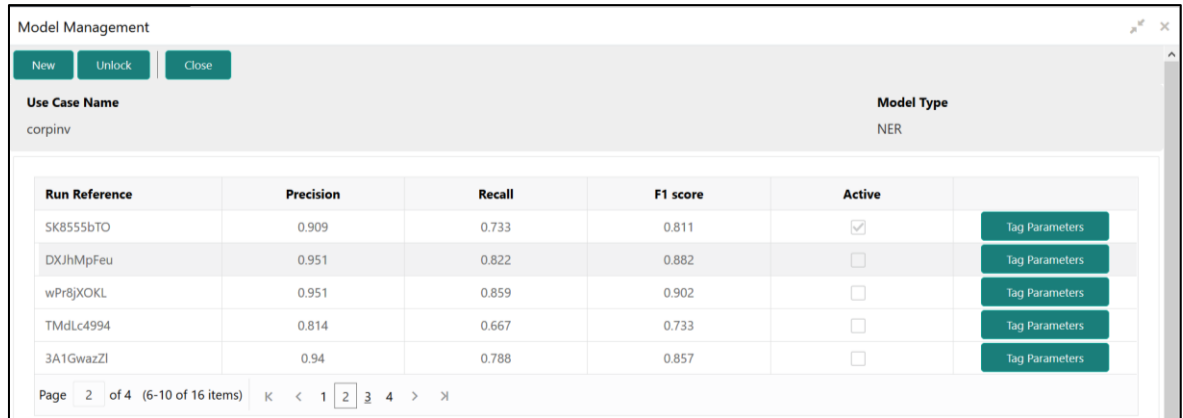
4.1.4.2 Model Management Maintenance

This is where you may unlock and choose the active model run reference to be used as part of business processing. To process this screen, perform the following steps:

1. From **Home** screen, click **Machine Learning**. Under **Machine Learning**, click **NLP Toolkit**.
2. Under **NLP Toolkit**, click **Model Management**.

→ The **Model Management** screen is displayed.

Figure 123: Model Management Maintenance



Run Reference	Precision	Recall	F1 score	Active	Tag Parameters
SK8555bTO	0.909	0.733	0.811	<input checked="" type="checkbox"/>	Tag Parameters
DXJhMpFeu	0.951	0.822	0.882	<input type="checkbox"/>	Tag Parameters
wPr8jXOKL	0.951	0.859	0.902	<input type="checkbox"/>	Tag Parameters
TMdLc4994	0.814	0.667	0.733	<input type="checkbox"/>	Tag Parameters
3A1GwazZI	0.94	0.788	0.857	<input type="checkbox"/>	Tag Parameters

Page 2 of 4 (6-10 of 16 items) | < 1 2 3 4 > |

3. Provide the details in the relevant data fields. Mandatory data fields are indicated accordingly. For more information on menus, refer to [Table 96: Model Management Maintenance – Field Description](#).

Table 96: Model Management Maintenance – Field Description

Field	Description
Use Case Name	Displays the name of the Use Case.
Model Type	Displays the NER or Classification type of Model.
Run Reference	Unique Model Version Identifier.
Precision	Value between 0 to 1. Closer to 1 is better.
Recall	Value between 0 to 1. Closer to 1 is better.
F1 Score	Value between 0 to 1. Closer to 1 is better.
Active	The model run reference that is currently active.

For each model run reference you could view the individual tag parameters.

Figure 124: Tag Parameters

Model Management

Use Case Name: corpinv

Tag Parameters Detail

Model Name: corpinv Model Type: NER Run Reference: 2fWj2xtLB

Tag Name	Precision	Recall	F1 Score
supplierName	0.954	0.932	0.943
buyerCode	0.975	0.886	0.929
Invoice Due Date	1	0	0
customer	0.073	0.010	0.000

Page 1 of 4 (1-5 of 16 items)

At this stage you 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.

4.2 Operation

This is where the trained models are consumed for business processing.

This section contains following subsections:

- [4.2.1 Document Upload](#)
- [4.2.2 Transaction Log](#)

4.2.1 Document Upload

This is the screen where you upload the source document which is consumed by the NLP model and defined tags/entities are recognized.

The information that is extracted by the model is seamlessly used in further business processing. To process this screen, perform the following steps:

1. From **Home** screen, click **Machine Learning**. Under **Machine Learning**, click **Operation**.
2. Under **Operation**, click **Document Upload**.

→ The **Document Upload** screen is displayed.

Figure 125: Document Upload

The screenshot displays the 'Document Upload' interface. At the top, there's a 'Scan and Upload Document' section with a 'Select File' button and a file name 'Ankita_Sample_9.pdf'. To the right is a 'Document Type' dropdown menu set to 'Corporate Invoice' and an 'Upload' button. Below this is the 'Original Document' section, which shows a preview of a corporate invoice from 'Bubba Gump Ltd.' The invoice includes contact information, a logo, and a table of details.

BILL TO		SHIP TO			
Buyer- 38201		Bari Smith		Invoice No. #	- 738202
Vancouver Logistics Ltd.		4065 Teton Ct.		Invoice Date	- 15/09/2018
509 E 19th St N,		Ione, CA, 95640		PO No. #	- POS62091
Newton, IA, 50208		Phone- (209) 763-2717		PO Date	- 16/09/2018
Phone- (641) 791-9080		Email- barry.smith@vanc.com		Due Date	- 20/10/2018

3. Click **Select File** to select the source document.
4. Chose the Document Type from the pick list.
5. Click **Upload** to initiate business process.

4.2.2 Transaction Log

This is the screen where you can see all the uploaded transactions that has been interpreted by the NLP models.

You can filter the displayed transactions based on the following:

- Document Type
- Status

To process this screen, perform the following steps:

1. From **Home** screen, click **Machine Learning**. Under **Machine Learning**, click **Operation**.
2. Under **Operation**, click **Transaction Log**.

→ The **Transaction Log** screen is displayed.

Figure 126: Transaction Log

Document Id	Document Type	Model Ref	Processing Date	Status	Failure Reason	Train. Req'd	Tag Value(s)
92	chqr-New Cheque Book Request	vAa8poRomr	23/10/2020	PROCESSED		N	...
91			23/10/2020	ERROR	Unable to complete Intent Processing	Y	...
90	chqr-New Cheque Book Request	vAa8poRomr	23/10/2020	PROCESSED		N	...
89	chqr-New Cheque Book Request	vAa8poRomr	23/10/2020	PROCESSED		N	...
88	chqr-New Cheque Book Request	vAa8poRomr	23/10/2020	PROCESSED		N	...
87	chqr-New Cheque Book Request	vAa8poRomr	23/10/2020	PROCESSED		N	...

3. Provide the details in the relevant data fields. Mandatory data fields are indicated accordingly. For more information on menus, refer to [Table 97: Transaction Log – Field Description](#).

Table 97: Transaction Log – Field Description

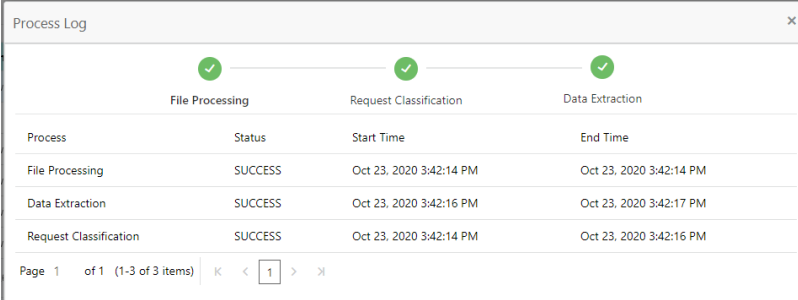
Field	Description
Document Type	Select the document type.
Status	Select the status.
Document Id	Displays the Document Management System Unique Identifier.
Document Type	Displays the document type - Use Case Definition.
Model Ref	Displays the Unique Model Version Identifier.
Processing Date	Displays the document processed date.

Field	Description
Status	Displays the status of the transaction.
Failure Reason	Displays the reason for failed status.
Train. Req'd	Displays train required status.
Tag Values	Displays the tag values for the processed transactions and allow the correction for transactions with errors.

Execution Flow

Click on document reference ID to view details and execution flow.

Figure 127: Execution Flow

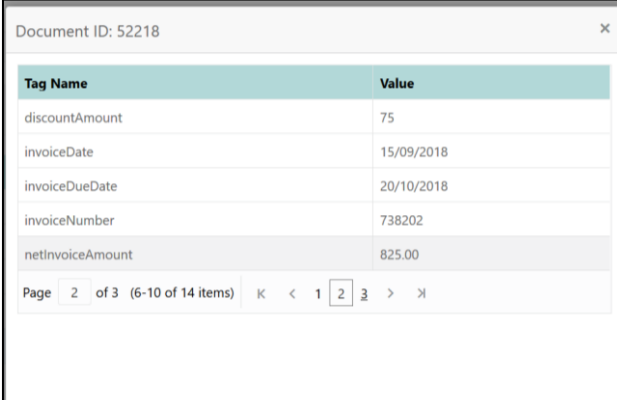


Process Log			
	File Processing	Request Classification	Data Extraction
Process	Status	Start Time	End Time
File Processing	SUCCESS	Oct 23, 2020 3:42:14 PM	Oct 23, 2020 3:42:14 PM
Data Extraction	SUCCESS	Oct 23, 2020 3:42:16 PM	Oct 23, 2020 3:42:17 PM
Request Classification	SUCCESS	Oct 23, 2020 3:42:14 PM	Oct 23, 2020 3:42:16 PM
Page 1 of 1 (1-3 of 3 items) < 1 >			

Processed Status

For any Document Type, you can filter on the 'Processed' status and view the model tag values used to process the transactions. The displayed information reflects both the original retrieved values by the model from the document and also the values which have been corrected by human intervention.

Figure 128: Processed Status



Document ID: 52218	
Tag Name	Value
discountAmount	75
invoiceDate	15/09/2018
invoiceDueDate	20/10/2018
invoiceNumber	738202
netInvoiceAmount	825.00
Page 2 of 3 (6-10 of 14 items) < 1 2 3 >	

Error Status

For any Document Type, you can filter on the 'Error' status and view all the failed transactions.

Figure 129: Error Status

Transaction Log

Document Type

Indwdn-Loan DrawDown

Status

ERROR

Processing Dashboard

Document Id	File Name	Document Type	Model Ref	Processing Date	Status	Failure Reason	Buss. Ref	Tag Value(s)
54651	NLP_1589205974634.pdf	Indwdn-Loan DrawDown	cJatDaVy	01/04/2015	ERROR	Error in initiating business process		--
53758	NLP_1588655760259.pdf	Indwdn-Loan DrawDown	cJatDaVy	01/04/2015	ERROR	Error in initiating business process		--

Page 1 of 1 (1-2 of 2 items)

For the failed transactions, you can 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.

Figure 130: Annotator

Action Type

☐ Create New Annotated File
 ☐ Edit Created Annotated File
 ☒ Error Correction

Source File Definition

Source File: Source File Name

Annotated File: Annotated file nam

Retrieved Doc Id: 53608

Document Type

Corporate Invoice

Annotated File Name: 53608.txt

Original File

Text Form

Soylent Ltd.
 Invoice No.# = 80KP2819
 Invoice Date 11/09/2014
 6 Theatre Street, PO No. # 9JK67021
 Altoona, PA 16601 PO Date 27/09/2014
 Phone (641) 7919080 Due Date 16/10/2014
 Email herbs.gill@vanc.com
 BILL TO Buyer 18302
 Musarc Corp Ltd. 4065 Teton Ct,
 Amy Taylor 4065 Teton Ct,
 Stroudsburg, PA 18360

Annotations

Tag Name	Tag Value	Start	End
Buyer Code	18302	220	225
Invoice Date			
Tax Percentage			
Amount			

4.3 3P Service Integration

Any model execution or training service(s) built using any 3P NLP library can be integrated in the NLP framework.

The only requirement being the REST services must confirm to the payload definition detailed in the following section.

Building model training and execution services using other 3P NLP libraries would involve consulting effort.

This section contains following subsections:

- [4.3.1 Classification Training Service](#)
- [4.3.2 NER Training Service](#)
- [4.3.3 Classification Processing Service](#)
- [4.3.4 NER Processing Service](#)
- [4.3.5 Service Mapping](#)
- [4.3.6 Business Service Mapping](#)

4.3.1 Classification Training Service

This section elaborates the payload details for document classification model training service.

Input Payload

Table 98: 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
      f1score:
        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 section elaborates the payload details for NER model training service.

Input Payload

Table 99: 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/MltbTagPerfromancesDTO"

```

ModelFoldPerfromancesDTO:

```

type: object
properties:
  fold_no:
    type: number
  eval_metric:
    type: string
  value:
    type: number

```

MltbTagPerfromancesDTO:

```

type: object
properties:
  name:
    type: string
  precision:
    type: number
  recall:
    type: number
  f1score:
    type: number

```

4.3.3 Classification Processing Service

This section elaborates the payload details for document classification model processing service.

Input Payload:

Table 100: 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 section elaborates the payload details for NER model processing service

Input Payload:

Table 101: 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:

```
MltbNerKeyValsDTO:
  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

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 table CMC_TM_ML_SERVICE_DEFN with the new service API.

Table 102: 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_STAMP	Authorizer Date stamp	<Application Date>	<Application Date>

New use case

Insert a new record into the table CMC_TM_ML_SERVICE_DEFN.

Table 103: 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	

Column name	Description	Remarks for Data	
SERVICE_TYPE	Service Type	'Training'	Use this value for model Training Service
		'Processing'	Use this value for model execution Service
		'Business'	Use this value for business Service
SERVICE_DEFN	Mapped Service API	<The newly created 3P NLP service API>	
METHOD_TYPE	Method Type	POST	
APP_ID	Sub Domain ID	NULL	
RECORD_STAT	Record Status	O	
AUTH_STAT	Authorized Status	A	
MOD_NO	Modification Number	1	
ONCE_AUTH	Once Authorized	Y	
MAKER_ID	Maker Name	SYSTEM	
MAKER_DT_STAMP	Maker Date stamp	<Application Date>	
CHECKER_ID	Authorizer Name	SYSTEM	
CHECKER_DT_STAMP	Authorizer Date stamp	<Application Date>	

4.3.6 Business Service Mapping

If straight through processing is enabled in use case definition, then 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 104: For 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
ADAPTER_CLASS	Fully qualified name of the adapter class	Use oracle.fsgbu.cmc.nlp.pipeline.services.adaptor.GenericAdaptor for all the business service calls Use oracle.fsgbu.cmc.nlp.pipeline.services.adaptor.OBRHAdaptor if you want to call business service via OBRH	
SERVICE_DEFN	Mapped Service API	API, which will be called for Business service execution	
HEADERS	Comma separated headers key value separated by colon (:)	Eg : docId:123 , branchCode : 000	
METHOD_TYPE	Method Type	POST	
APP_ID	Sub Domain ID	NULL	
RECORD_STAT	Record Status	O	

Column name	Description	Remarks for Data
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 you are Integrating Business Service via OBRH then in service definition column, you need to provide URL of OBRH dispatch API and the additional headers in headers column.

Since there are some common headers, which are required for calling OBRH as well (like applId, branchCode, uderId) and to avoid the conflict for these headers, the ML_ prefix is appended in header keys by OBRH adaptor. You need to configure transformation logic of these headers in OBRH.

5 Error Codes and Messages

This topic contains the error codes and messages:

Table 105: Error Codes and Messages

Error Codes	Messages
CC-01015	Default BIC Is Checked For More Than One BIC
CC-01016	Swift Address is Mandatory
CC-01017	Default BIC Is Not Checked For any BIC
CC-01018	Same Swift Address is present more than once
CC-01019	Mismatch in bank code
CC-ACC-002	Currency should be null for Multi-Currency Account
CC-ACC-102	Record already exist for Source Branch and Source Account No combination
CC-ACC-169	Reopen not allowed for a closed Customer No
CC-BIC-010	Bic code is being used in branch maintenance. Close not allowed.
CC-BIC02	The BIC code does not conform to SWIFT standards
CC-BIC05	Record already maintained for the customer no
CC-BNK-001	Branch code is in Open status. Close not allowed.
CC-BNK-002	Reopen not allowed for a closed Branch Code
CC-BNK-003	Only one Bank Code is allowed.
CC-BRN-101	Active account / accounts exist for the branch code. Close not allowed.
CC-BRN-102	This is HO branch. Close not allowed.
CC-BRN-103	Record for Source Branch Code already exists
CC-C00100	Relationship cannot be No for a Customer Linked BIC Code

Error Codes	Messages
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 doesnt have access to PII data, cannot perform create or modify operations
CMC-ACC-SUBAC01	No SubAccounts available for Multi-Currency Account
CMC-ACC-SUBAC02	Exactly one account should be primary account
CMC-ACC-SUBAC03	Sub Accounts should have unique currency code
CMC-BRN-018	Exception occurred in ICFlipDate
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 doesnot exist
CMC-BRN-CD01	Date changed successfully
CMC-BRN-CD02	Failed to change date, holiday list not maintained properly

Error Codes	Messages
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's 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	EOF1 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 EOF1
CMC-BRN-EOD13	Branch status not in EOF1, cannot change Date
CMC-BRN-EOD14	Branch status for next working date update to BOD
CMC-BRN-EOD15	Branch status not in BOD, cannot mark TI
CMC-BRN-EOD16	Branch status for next working date update to TI
CMC-BRN-EOD17	Branch Status Changed to EOF1
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 Eoti retry initiated

Error Codes	Messages
CMC-BRN-EOD32	Cannot retry Mark EOFI which has not failed
CMC-BRN-EOD33	Date Changed successfully. \$1
CMC-BRN-EOD34	BOD Batches completed successfully.
CMC-BRN-EOD35	BOD Batches retriggered successfully. \$1
CMC-BRN-EOD36	\$1. Hence EOFI Failed.
CMC-BRN-EOD37	Failed in getting current date
CMC-CCY-001	Duplicate records exists in Amount word currency Mapping
CMC-CCY-002	Duplicate records exists in Amount Text Mapping
CMC-CCY-003	Cannot change Currency Decimal for once authorized currencies
CMC-CCY-004	Cannot Change round unit if the round rule is Truncate (T)
CMC-CCY-005	Mandatory field Interest Method is not entered
CMC-CCY-006	Mandatory field Spot Days is not entered
CMC-CCY-007	Mandatory field Settlement Days is not entered
CMC-CCY-008	Mandatory field Country is not entered
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

Error Codes	Messages
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)

Error Codes	Messages
CMC-CCY-039	Input date should be between Upper limit date and Lower limit date
CMC-CCY-040	Duplicate records exists in CurrencyHolidays
CMC-CCY-041	Mandatory Through Currency Code is not entered
CMC-CCY-042	Cannot change spread definition option for through currency pair
CMC-CCY-043	Through currency should be blank if the through currency is unchecked
CMC-CCY-044	Through currency has to be of type Euro
CMC-CCY-045	Through Currency is not allowed for Euro In Currency Pair
CMC-CCY-046	Points multiplier should be in the range 0 - 1
CMC-CCY-047	MidRate is invalid
CMC-CCY-048	BuySpread is invalid
CMC-CCY-049	SaleSpread is invalid
CMC-CCY-050	Atleast one Currency Rate Should be Maintained
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

Error Codes	Messages
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

Error Codes	Messages
CMC-CUS-FOR01	Record successfully deleted
CMC-CUS-PII01	User doesnt have access to PII data, cannot perform create or modify operations
CMC-EOD-001	Invoked EOD successfully
CMC-EOD-002	Failed while resolving current date
CMC-EOD-003	EOD flow is not maintained for \$1 branch
CMC-EOD-004	EOD already invoked for today
CMC-EOD-005	Unable to invoke EOD
CMC-EOD-006	Retried EOD successfully
CMC-EOD-007	Failed to retry EOD
CMC-EOD-008	Pending maintenances exist. Failed to start EOD
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 BOD 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.

Error Codes	Messages
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-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, usecase identifier or prediction column.
CMC-LOV-001	Invalid Source Code
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

Error Codes	Messages
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 don't 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-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.

Error Codes	Messages
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!
CMC-OB RH-018	Imported WSDL successfully
CMC-OB RH-019	Imported Swagger successfully
CMC-OB RH-020	Failed to import [\$1]
CMC-OB RH-021	Failed to export [\$1]
CMC-OB RH-022	Request failed [\$1]
CMC-OB RH-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.

Error Codes	Messages
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

Error Codes	Messages
CMC-OV-013	Client Error Occurred during API call
CMC-OV-014	Illegal State Exception Occurred
CMC-OV-015	JTA Transaction unexpectedly rolled back
CMC-OV-016	Exception Occurred while creating Bean
CMC-OV-017	Unexpected Exception Occurred
CMC-OV-018	Exception Occurred while Executing Query
CMC-STR-001	mandatory fields are missing...
CMC-STR-002	invalid real account number
CMC-STR-003	Real Account No cannot be modified
CMC-STR-004	Structured Address is already created for this Real Account
CMC-STR-005	Structured Address is already created for this External Virtual Account
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

Error Codes	Messages
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 makerId 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 didnt 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 unauthroized 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

Error Codes	Messages
GCS-MOD-002	Record Successfully Modified
GCS-MOD-003	Record marked for close, cannot modify.
GCS-MOD-004	Only maker of the record can modify before once auth
GCS-MOD-005	Not amendable field, cannot modify
GCS-MOD-006	Natural Key cannot be modified
GCS-MOD-007	Only the maker can modify the pending records.
GCS-REOP-003	Successfully Reopened
GCS-REOP-01	Unauthorized Record cannot be Reopened
GCS-REOP-02	Failed to Reopen the Record, cannot reopen Open records
GCS-REOP-03	Successfully Reopened
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-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

Error Codes	Messages
ML-RG-008	Batch Scoring Failed
ML-RG-009	Successfully completed Batch scoring
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

Error Codes	Messages
CBS-CRITERIA-014	Duplicate entries found for Priority
CBS_ERR_004	Parameter description cannot be modified
CBS_LKUP_01	Duplicate entries found for Lookup Code
CBS_500	Error occurred at Bureau Call Response structure from Bureau is different
CBS_SYSPAR_001	System parameter not maintained for the bureau for history call
CBS_400	Facts not found for Bureau identification Rule Empty response from criteria for given PPcode Empty response from OBRH from bureau call Bureau identification Rule not found for given facts

6 Glossary

This section provides a glossary of all terms and abbreviations used in the user manual.

Accounts

Continuing financial relationship between a bank and a customer, in which deposits and debts are held and processed within a framework of established rules and procedures.

Reports

A page containing information organized in a narrative, graphic, or tabular format, prepared on ad-hoc, periodic, recurring, regular, or as required basis. Reports may refer to specific periods, events, occurrences, or subjects.

Pareto Chart

It is a type of chart that consists of both bars and a line graph, where individual values are represented in descending order by bars, and the cumulative total is represented by the line.

Sunburst Chart

It is a type of chart that is ideal for displaying hierarchical data. Each level of the hierarchy is represented by one ring or circle with the innermost circle as the top of the hierarchy. A sunburst chart without any hierarchical data (one level of categories), looks similar to a doughnut chart.

Virtual Account

Virtual accounts are provided to a corporate by its banking partner. Each account is a subsidiary or sub-account of the client's own physical account with the bank; they cannot exist outside of the immediate relationship; hence they are virtual.

Virtual Identifier

Virtual identifier serves to segregate any funds from any other funds in the same main account and yet is inextricably linked to the virtual account.

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8 Reference and Feedback

This section contains following subsections:

- [8.1 References](#)
- [8.2 Documentation Accessibility](#)
- [8.3 Feedback and Support](#)

8.1 References

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

- Security Management System User Guide
- Getting Started User Guide

8.2 Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

8.3 Feedback and Support

Oracle welcomes customers' comments and suggestions on the quality and usefulness of the document. Your feedback is important to us. If you have a query that is not covered in this user guide or if you still need assistance, please contact documentation team.