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

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:

Table 1: Acronyms and Abbreviations	Table 1:	Acronyms	and	Abbreviations
-------------------------------------	----------	----------	-----	---------------

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

1.5 List of Topics

This user guide is organized as follow:

Table 2: List of Topics

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.
Machine Learning Framework	This topic describes about Machine Learning Framework.
Error Codes and Messages	This topic describes list of error codes and messages.



Topics	Description	
Glossary	This topic provides list of glossary and their definitions.	
List of Menus	This topic has alphabetical list of Core Maintenance processes with page references for quick navigation.	
Reference and Feedback	This topic provides the reference documents and information about feedback and support.	

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 and Icons

The following are some of the Symbols you are likely to find in the guide:

Table 3: Symbols and Icons - Common

Symbol/Icon	Function
\rightarrow	Represents Results
p ^{ill}	Minimize
*	Maximize
×	Close
0	Perform Search
•	Open a list
+	Add a new record
К	Navigate to the first record
к	Navigate to the last record
<	Navigate to the previous record



Symbol/Icon	Function
>	Navigate to the next record
	Grid view
	List view
С	Refresh
+	Click this icon to add a new row.
	Click this icon to delete a row, which is already added.

Table 4: Symbols and Icons – Audit Details

Symbol/Icon	Function
Ň	A user
Ē	Date and time
•	Unauthorized or Closed status
S	Authorized or Open status

Table 5: Symbols and Icons - Widget

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



1.8 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:

Actions	Description	
New	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 marke with '*' symbol.	
	NOTE: This button is displayed only for the records that are already created.	
Save	Click to save the details entered or selected in the screen.	
Unlock	Click to update the details of an existing record. System displays an existing record in editable mode.	
	NOTE: This button is displayed only for the records that are already created.	
Authorize	Click to authorize the record created. A maker of the screen is not allowed to authorize the same. Only a checker can authorize a record.	
	NOTE: This button is displayed only for the already	
	created records. For more information on the	
	process, see Authorization Process.	
Approve	Click to approve the initiated record.	
	NOTE: This button is displayed, once you click Authorize .	
Audit	Click to view the maker details, checker details of the particular record.	
	NOTE: This button is displayed only for the records that	
	are already created.	
Close	Click to close a record. This action is available only when a	
	record is created.	
Confirm	Click to confirm the action you performed.	
Cancel	Click to cancel the action you performed.	



Actions	Description	
Compare	Click to view the comparison through the field values of old record and the current record.	
	NOTE: This button is displayed in the widget, once you click Authorize .	
View	Click to view the details in a particular modification stage.	
	NOTE: This button is displayed in the widget, once you click Authorize .	
View Difference only	Click to view a comparison through the field element values of old record and the current record, which has undergone changes.	
	NOTE: This button is displayed, once you click Compare.	
Expand All	Click to expand and view all the details in the sections.	
	NOTE: This button is displayed, once you click Compare.	
Collapse All	Click to hide the details in the sections.	
	NOTE: This button is displayed, once you click Compare.	
ок	Click to confirm the details in the screen.	

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.

2.1 Prerequisites

Specify User ID and Password, and login Home screen.

 \rightarrow The **Home screen** is displayed.

Multi entity admin user creation scripts should be run and multi entity admin user should be created in the LDAP. Please refer *Oracle Banking Microservices Platform Foundation Installation Guide* for more details.

2.2 Entities

Multi entity admins can configure new entities.

2.2.1 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

View Entities	, ² ×
Filter.	
Type to filter ×	
Entity Id	Entity Name



2. On **View Entities** screen, view the details. For more information on fields, refer to the field description table below.

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

2.2.2 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.
 - \rightarrow The **Create Entity** screen is displayed.

Figure 2: Create Entity

Create Entity			$_{\mu^{d'}}$ \times
Entity Creation			
Entity Id *	Entity Name *	HO Branch Code *	HO Branch Name *
Ho Branch Address *	Host Code *	Country *	Current HO Branch Posting Date
Previous HO Branch Posting Date *	Next HO Branch Posting Date *	Bank Name *	Bank Code *
		9	
Application JNDI Mapping			
	Application Id		JNDI
No data to display.			1
Page 1 (0 of 0 items) K < 1	к		
Save			

 On Create Entity screen, specify the fields. The fields which are marked with asterisk are mandatory. For more information on fields, refer to the field description table below.
 Table 8: Create Entity – Field Description

Field	Description
Entity Id	Specify the entity Id for the entity.
Entity Name	Specify the name of the entity.
HO Branch Code	Specify the head office branch code of the entity.
HO Branch Name	Specify the head office branch name of the entity.
HO Branch Address	Specify the head office branch address of the entity.



Field	Description	
Host Code	Specify the host code.	
Country	Select the head office branch country code.	
Current HO Branch Posting Date	Select the head office branch current posting date.	
Previous HO Branch Posting Date	Select the head office branch previous posting date.	
Next HO Branch Posting Date	Select the head office branch next posting date.	
Bank Name	Specify the bank name.	
Bank Code	Specify the bank code.	
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.

3. Click **Save**. You can view the confirmation entity details in the View Entities.



2.3 Users

Multi entity admins can create entity admins and users.

2.3.1 View Users

The summary screen provides a list of configured users.

- 1. From Home screen, click Users. Under Users, click View Users.
 - \rightarrow The **View Users** screen is displayed.

Figure 3: View Users

er: pe to filter ×	
ser Id	User Name
	1012

2. On **View Users** screen, view the details. For more information on fields, refer to the field description table below.

Table 9: View Users – Field Description

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



2.3.2 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

Create User						2	×
User Details							
User ID *		User Name *		Locale *		Email ID *	
Start Date *	***	End Date *	<u></u>				
Entity Mapping	<u></u>		10112				-
	Entity ID		Home Entity		Entity Admin		
No data to display. Page 1 (0 of 0 items)	к < 1 > э						
Save							

 On Create User screen, specify the fields. The fields which are marked with asterisk are mandatory. For more information on fields, refer to the field description table below.
 Table 10: Create User – Field Description

Field	Description
User Id	Specify the user Id.
User Name	Specify the user name.
Locale	Specify the user locale.
Email ID	Specify the user email ID.
Start Date	Select the user start date. The start date of the user should greater than the Current HO Branch Posting Date.
End Date	Select the user end date.
Entity Mapping	
Click + to add a row and provide the re	equired details.
Entity Id	Click Search and select the entity to which the user belongs.



Field	Description	
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. 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.

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 Multi-Currency Account Linkage
- 3.27 Process Code
- 3.28 System Dates
- 3.29 Transaction Code
- 3.30 Upload Source
- 3.31 Upload Source Preference
- 3.32 Pricing Source System
- 3.33 Integrating Bureau Integration Service with Oracle Banking Routing Hub
- 3.34 Bureau Integration Service
- 3.35 Credit Bureau Display
- 3.36 Lookup
- 3.37 Criteria
- 3.38 System Parameter
- 3.39 Integrating Decision Service with Oracle Banking Routing Hub
- 3.40 Decision Service
- 3.41 Scoring Feature and Scoring Model
- 3.42 Decision Grade Matrix
- 3.43 Pricing
- 3.44 Execution Summary



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

Additional Field Maintenance		Mar 26.5.5.5	N	
< c +				
urkey: Fisght-ob-cmn-ds-ad 🍄	ui Key: Fsghttinb-ciminas-ad 🍄			
Application ID: COMPACE	Application ID: 100777PM			
Description: () (it lonal Fields)	Description: Wellitional fields			
Authorized 🔒 Open	🖹 Unauthorized 🔒 Open			
Page 1 of 1 (1-8 of 8 items)	к < 1 > »			

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

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.

Table 11: Additional Field Maintenance Summary – Field Description

- 2. On Additional Field Maintenance Summary screen, click + icon.
 - → The Additional Fields Maintenance screen is displayed.



Figure 6: Additional Fields Maintenance

Additional Fields Maint	tenance									"* ×
New										
Component Name		Product Co	ode		Product Name			Description		
	0,		٩,							
Application ID										
OSTEPM										
Construct Additional F	ields MetaData									
Select	Field ID	Field Lab	el	Category		Field Type	Ed	dit	Mandatory	
No data to display.										
Construct Validation M	/letaData								· •	
Select	Validation Name		Validation Template To Use			Custom Error Message	•	E	dit Arguments	
No data to display.										
									Save	Cancel

3. On **Additional Fields Maintenance** screen, specify the fields. For more information on fields, refer to the field description table below.

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.	
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 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.	

Table 12: Additional Fields Maintenance – Field Description



Field	Description
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.

4. 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.

 \rightarrow The View Advice screen is displayed.

Figure 7: View Advice

View Advice		$_{\mu}^{\mu}$ \times
० c +		
Advice Name:	Advice Name:	
Advice Description: Micro Service Name:	Advice Description: Micro Service Name:	
Unauthorized 🔒 Closed	Duauthorized 🔒 Open	





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

 Table 13: 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

Create Advice			,,* ×
New			
Advice Name *			
Advice Description *	Micro Service Name	Swift Micro Service	Micro Service Endpoint
Application Name *	Application Description *		
A			
Media *	Branch *	Currency *	Report Locale *
Report Absolute Path *	Format * Select an option *	Swift Endpoint	
			Save Cancel

3. On **Create Advice** screen, specify the fields. The fields which are marked with asterisk are mandatory. For more information on fields, refer to the field description table below.

Field	Description
Advice Name	Specify the name of the advice.
Advice Description	Specify the information about the advice.

Table 14: Create Advice – Field Description



Field	Description
Micro Service Name	Specify the name of the micro service.
Swift Micro Service	Specify the information about the swift micro service.
Micro Service Endpoint	Specify the endpoint micro service.
Application Name	Specify the application name for which advice is generated.
Application Description	Specify the additional information about the application.
Media	Search and select the required media.
Branch	Search and select the required branch.
Currency	Search and select the required currency.
Report Locale	Specify the locale report details.
Report Absolute Path	Specify the report absolute path.
Format	Select a download file format for an advice from the dropdown list. The formats available are, PDF, PPTX, HTML, XLS, and RTF.
Swift Endpoint	Specify the swift endpoint.

4. 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

View Amount Text Language		,* ×
ч с +		# =
Language Code:	Language Code:	
Language Code:	Language Code:	
🗟 Unauthorized 🔒 Open	🖹 Unauthorized 🔒 Open	

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

Table 15: 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

Create Amo	unt Text Langua	ge						,,* ×
New								
Language Coo	de *	٩						
Amount Wo	ord Currency List							
	CCY Symbol	Decimals As Fraction	Final Text	CCY	Post Decimal	Pre Decimal	Text Before	Text Between
No data t	o display.							
Page 1 (0 of 0 items) K	< 1 > >						
Amount Wo	ord Text List							
			+	-				
	Amount	One Flag	Text					
No data t	o display.							
Page 1 (0 of 0 items) K	< 1 > ×						
								Save Cancel

3. On Create Amount Text Language screen, specify the fields. The fields which are marked with asterisk are mandatory. For more information on fields, refer to the field description table below. .

Table 16: 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.
Decimals As Fraction	Select a decimals as fraction value from the drop-down list.
2021	20 ORACLE



Field	Description
Final Text	Specify the final text for the amount word currency list.
ССҮ	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.
Amount	Select the amount details.
One Flag	Select an option for the amount word text list.
Text	Specify the text for the amount word.

4. Click **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.
 - \rightarrow The View BIC Directory screen is displayed.

Figure 11: View BIC Directory

View BIC Directory		$_{\mu^{st}}$ \times
९ c +		
Customer Number:	Customer Number:	
Sub Type Code:	Sub Type Code:	
BIC Code:	BIC Code:	
Bank Name:	Bank Name:	
Authorized 🔒 Open	Authorized 🔒 Open	

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

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.
 - \rightarrow The Create BIC Directory screen is displayed.

Figure 12: Create BIC Directory

Create BIC Directory			1	<
New				
BIC Code *	Bank Name *	Customer Number	Customer Name	
		٩,	Not Selected	
Bank Address 1	Bank Address 2	Bank Address 3	SWIFT Key	
Telex Key	SWIFT Key Arrangement	Relationship	Sub Type Code	
	Ψ	No Mail Keys	٩,	
BEI Indicator	ADB Member			
Not Selected	Ψ			
Payment Message				
MT103+ Preferred	Blacklisted	CUG Member	Remit Member	
Update During Upload	0	0	0	
<u> </u>				
Multi-Customer Credit Transfer				
Multi-Customer Credit Transfer	Generate 102+	Maximum Size in Bytes		
Request for Transfer				
Generate MT101	Number of Transactions Per Page			
				_
			Save Cancel	

3. On **Create BIC Directory** screen, specify the fields. The fields which are marked with asterisk are mandatory. For more information on fields, refer to the field description table below.

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.	

Table 18: Create BIC Directory – Field Description



Field	Description		
SWIFT Key Arrangement	Select the SWIFT key arrangement from the drop-down list.		
Relationship	Select one of the following options:		
	 No: If selected, indicates that the BIC Entity is not a customer of your bank 		
	• Mail: If selected, the BIC entity is not a recognized SWIFT entity but an address internal to your bank. In such cases, all correspondence directed to the particular BIC entity is sent as mail messages.		
	• Keys: If selected, a SWIFT/Telex connectivity exists between your bank and the bank for which you are maintaining details. Subsequently, you must specify the SWIFT/Telex Key in the adjacent field.		
Sub-type Code	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.

4. 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.

 \rightarrow The View EOD screen is displayed.

Figure 13: View EOD

View EOD					
९ с +					
Branch Code:		:	Branch Code:		÷
Maker: OnceAuthorized: Workflow Name:			Maker: OnceAuthorized: Workflow Name:		
Authorized	Open		Authorized	G Open	
Page 1 of 1 (1 - 2 of 2 ite	ms)	К < 1 >	К	

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

Table 19: 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.
 - \rightarrow The **Configure EOD** screen is displayed.

Figure 14: Configure EOD

Configure EOD			
Branch Code *	Q	Description	Workflow Name *
			Save Cancel

3. On **Configure EOD** screen, specify the fields. The fields which are marked with asterisk are mandatory. For more information on fields, refer to the field description table below.

Table 20: 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

Invoke EOD		
Branch Code * Q. Start Burty Reset	Description	Current Branch Date
View End of Cycle Processes	Auto Refresh(15s)	
- MS-CHKAFTEREOTI	 EOD /CBATCH EOD /CBATCH 	

3. On **Invoke EOD** screen, specify the fields. The fields which are marked with asterisk are mandatory. For more information on fields, refer to the field description table below.

Table 21: Invoke EOD – Field Description

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

- 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 22: 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.

 \rightarrow The View Country Code screen is displayed.

Figure 16: View Country Code

View Currency Definition	
९ с +	
Currency Code:	Currency Code:
Currency Name: Alternate Currency Code: Country: Maintenance Country: Authorized Open	Currency Name: British Euro Alternate Currency Code: Country: Maintenance Country: Maintenance Country:

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

Table 23: 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

Create Country Code			$_{\mu}^{\nu}$ ×
New			
Country code *			
Country Name *	Alternate Country code *	Region Code	ISO Country code
ISD code	Limit Currency	Overall Limit *	Blacklist
EU Member	Generate 205	IBAN Check Required *	BIC Clearing Code
Intra European			
			Save Cancel

3. On **Create Country Code** screen, specify the fields. The fields which are marked with asterisk are mandatory. For more information on fields, refer to the field description table below.

Table 24: 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.

4. 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.

 \rightarrow The View Currency Definition screen is displayed.

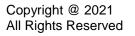
Figure 18: View Currency Definition

View Currency Definition		
< c +		
Currency Code:	Currency Code:	
Currency Name: Alternate Currency Code: Country: Maintenance Country: Authorized Open	Currency Name: Alternate Currency Code: Country: Maintenance Country:	

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

Table 25: View Currency Definition – Field Description

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





Field	Description
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.
 - $\rightarrow\,$ The Create Currency Definition screen is displayed.



Create Currency Definition							,,** ×
New							
Currency Code *		Maintenance Country *					
		٩,					
Currency Name		Alternate Currency Code		Currency Type		ISO Numerical Currency Code	
Currency Country *		Currency Decimals *		Currency Interest Method *		Currency Spot Days *	
currency country	9	✓ A		carrency meners memory		✓ ∧	
Foreign Exchange Netting Days		Settlement Message Days *		Position GL		Position Equivalent GL	
	~	V A		California.			
Currency Tolerance Limit		Index Base Currency		Commodity Code			
Cut Off Time							
Cut Off Days		Cut Off Hour *		Cut Off Min *		CLS Currency	
~	~	~ ^		~ ~		\bigcirc	
Generate 103+		Index Flag		Euro Conversion Required		New Cover Message Format Required	
\bigcirc				\bigcirc		\bigcirc	
Validate Tag-50F							
\bigcirc							
Rounding							
Currency Round Rule *		Currency Round Unit					
Currency Round Rule							
Currency Format Mask							
Currency Format Mask							
 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX							
Euro Type							
Currency Euro Type							
EURO Currency In Currency							
Out Currency							
 EUTO Closed 							
Auto Exchange Rate							
Credit Auto Exchange Rate Limit		Debit Auto Exchange Rate Limit					
		-					
Currency Country Mapping							
	Country code		Country Name		Currency Code		
	soundy tobe		county reame		currency code		
No data to display.							
Page 1 (0 of 0 items) K							
							Save Cancel

Figure 19: Create Currency Definition

3. On **Create Currency Definition** screen, specify the fields. The fields which are marked with asterisk are mandatory. For more information on fields, refer to the field description table below.

Table 26: Create Currency Definition – Field Description

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



Field	Description
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.
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.



Field	Description
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.
Currency Country Mapping	Specify the 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

View Currency Exchange	e Rate				
९ с +					
Branch code:	÷	Branch code:		:	
Currency1: Currency2:		Currency1: Currency2:			
🕞 Authorized 🔒 Op	ben	Authorized	P Open		

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

Table 27: 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

Create Cu	rrency Exchange Rate							$_{\mu^{k'}}$ \times
New								
Branch code			Currency1 *		Curren	cy2 *		
	٩,			۹,				
Currency	Rate							
								+
	Rate Type	Buy Rate	Buy Spread	Mid Rate	Sale Spread	Sale Rate	Rate Date	
	to display.							
Page 1	(0 of 0 items) \times $<$ 1 $>$	K						
							Save	Cancel

3. On Create Entity screen, specify the fields. The fields which are marked with asterisk are mandatory. For more information on fields, refer to the field description table below.

Table 28: 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.
Rate Type	Select a rate type from the drop-down list.
Buy Rate	Specify the buy rate details.
Buy Spread	Specify the buy spread details.
Mid Rate	Specify the mid-rate details.



Field	Description
Sale Spread	Specify the sale spread details.
Sale Rate	Specify the sale rate details.
Rate Date	Select a rate date from the drop-down calendar.

4. 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

/iew Currency H	oliday Master				
<u>०</u> с +					
Currency:		:	Currency:		:
Weekly Holidays: Year:			Weekly Holidays: Year:		
Authorized	🔒 Open		Authorized	🔒 Open	
Page 1 of 1	(1 - 7 of 7 item	15)	К < 1 >	Я	

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

Table 29: 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

Creat	e Cur	rency	/ Hol	iday I	Maste	er																								,," ×
Nev																														
Currer	ю					Q,		Y	′ear *								We	eekly H	Holida	ays										
	J	anua	ary	201	8			F	ebru	lary	201	8				Mar	ch	2018	3				Apr	il 2	2018					
S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S	S	М	Т	W	Ţ	F	S	S	М	Т	W	Т	F	S			
	1	2	3	4	5	6					1	2	3					1	2	3	1	2	3	4	5	6	7			
7	8	9	10	11	12	13	4	5	6	7	8	9	10	4	5	6	7	8	9	10	8	9	10	11	12	13	14			
14	15	16	17	18	19	20	11	12	13	14	15	16	17	11	12	13	14	15	16	17	15	16	17	18	19	20	21			
21	22	23	24	25	26	27	18	19	20	21	22	23	24	18	19	20	21	22	23	24	22	23	24	25	26	27	28			
28	29	30	31				25	26	27	28				25	26	27	28	29	30	31	29	30								
		Ma	y 2	2018					Jun	e 2	2018					Jul	y 2	018					Augu	ust	2018	3				
S	М	Т	W	T	F	S	S	М	Ť	W	Т	F	S	S	М	Т	W	Ť	F	S	S	М	Т	W	T	F	S			
																												Save	С	ancel

3. On **Create Currency Holiday Master** screen, specify the fields. The fields which are marked with asterisk are mandatory. For more information on fields, refer to the field description table below.

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

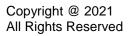
3.10.1 Currency Pair Definition Summary

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.
 - \rightarrow The View Currency Pair Definition screen is displayed.

Figure 24: View Currency Pair Definition

View Currency Pair Definition		
< c +		
Maintenance Country:	Maintenance Country:	
Number of Units: Currency 1: Currency 2:	Number of Units: Currency 1: Currency 2:	
🍃 Authorized 🔒 Open	Ruthorized 🔒 Open	





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

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.

Table 31: View Currency Pair Definition – Field Description

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

Create Currency Pair Definition				$_{\mu ^{t^{\prime }}}\times$
New				
Currency 1	Currency 2		Maintenance Country	
Checkthrough Currency	Through Currency	Number of Units One Hundred Thousand	Points Multiplier	
Guostion *	Sprad Definition * O Pricentage Points			
				ave Cancel

3. On **Create Currency Pair Definition** screen, specify the fields. The fields which are marked with asterisk are mandatory. For more information on fields, refer to the field description table below.



Field	Description		
Currency 1-2	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. To specify the pair, choose from the list provided against Currency 1. Select the pair for which you want to maintain parameters. The pair must be selected according to the quotation method followed by the market, which can be direct or indirect.		
	Exchange rates can be defined for currency 1 against currency 2 or currency 2 against currency 1.		
Maintenance Country	Search and select the required maintenance country.		
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	 Select one of the required quotation: 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	 Select one spread definition. The effective spread can be calculated using any of the following two methods: Percentage: Spread/100 x mid rate Points: Spread x points multiplier 		

Table 32: Create Currency Pair Definition – Field Description	Table 32: Create Currency	Pair Definition – Field Description
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Field	Description
	The method of spread definition that you specify applies to two instances:
	While maintaining exchange rates for the currency pair While maintaining customer spread 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

View Currency Rate Type		, 1 ⁴	×
< c +			
Currency Rate Type:	Currency Rate Type:		
Description:	Description:		
Authorized 🔒 Open	Company Authorized Den		

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

 Table 33: 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

Create Currency Rate Type		," ×
New		
Currency Rate Type *		
Currency Rate Type Description		>
	Save Ca	incel

3. On **Create Currency Rate Type** screen, specify the fields. The fields which are marked with asterisk are mandatory. For more information on fields, refer to the field description table below.

Table 34: Create Currency Rat	te 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.
 - \rightarrow The View Customer Category screen is displayed.

Figure 28: View Customer Category

View Customer Category		2 st	×
९ с +			
Customer Category:	Customer Category:		
Description:	Description:		
Authorized 🔒 Open	Authorized 🔒 Open		

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

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.
 - \rightarrow The Create Customer Category screen is displayed.

Figure 29: Create Customer Category

Create Customer Category			$_{\mu^{n'}}$ \times
New			
Customer Category *			
Customer Category Description	Populate Changes		
		Save	Cancel

3. On **Create Customer Category** screen, specify the fields. The fields which are marked with asterisk are mandatory. For more information on fields, refer to the field description table below.

 Table 36: 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.

 \rightarrow The View ECA System screen is displayed.

Figure 30: View ECA System

View ECA System					
९ с +					
Description:		:	Description:		÷
ECA System:			ECA System:		
Authorized	P Open		Authorized	G Open	

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

Table 37: 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.
 - \rightarrow The Create ECA System screen is displayed.

Figure 31: Create ECA System

Create ECA System		$_{\mu}^{a^{a^{a}}}$ \times
New		
Source System *	Description	
		Save Cancel

3. On **Create ECA System** screen, specify the fields. The fields which are marked with asterisk are mandatory. For more information on fields, refer to the field description table below.

Table 38:	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

View External Bank Parameters		$_{\mu^{k'}} \times$
९ с +		
Head Office branch:	Head Office branch:	
Maker: OnceAuthorized: Bank Code: Bank Name:	Maker: OnceAuthorized: Bank Code: Eank Name:	
Authorized 🔒 Open	Authorized Gen	

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

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.

Table 39: View External Bank Parameters – Field Description



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.

Create External Bank Parameters		$_{\mu}^{e}$ \times
New		
Bank Code *	Bank Name	
Head Office Branch	Branch Description	
Q	Not Selected	
No of Days to Forget Customer		
		Save Cancel

Figure 33: Create External Bank Parameters

3. On **Create External Bank Parameters** screen, specify the fields. The fields which are marked with asterisk are mandatory. For more information on fields, refer to the field description table below.

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.



4. 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:

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

→ The View External Branch Parameters screen is displayed.

Figure 34: View External Branch Parameters

View External Branch Parameters		$_{\mu}e^{\mu}$ \times
९ с +		
Branch Code:	Branch Code:	
Branch Name: Local Currency: Source Branch Code:	Branch Name: Local Currency: Source Branch Code:	
凌 Authorized 🔒 Open	💫 Authorized 🔒 Open	



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

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 autocreated 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 Parameterrs

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
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Create External Branch Parameters			, × ×
Tarpa			
Branch Details			
tranch Code *	Branch Name *	Local Currency * Source System	
iource Branch Code *			
Branch Address			
Address Line 1	Address Line 2	Address Line 3	
Other Details		SWIFT Address	
lost Code *	Country Code	*	
0,	Not Selected	SWIFT Address * Default BIC	
fost Name	Walk-in Customer	No data to display.	
	٩		
Veekly Holiday 1	Weekly Holiday 2		
*	*		
Auto Authorization	Report DSN		
SN Name			
		Page 1 (0 of 0 items) 📧 < 1 > >	
			-

3. On **Create External Branch Parameters** screen, specify the fields. The fields which are marked with asterisk are mandatory. For more information on fields, refer to the field description table below.

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.	
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.	

Table 42: Create External Branch Parameters – Field Description



Field	Description	
Walk-in Customer	Search and select the required walk-in customer.	
Weekly Holiday 1-2	Select a weekly holiday from the dropdown list.	
	Note There are two days of weekly holiday depending on the geographical zone.	
	 Auto Authorization: By default, it is disabled. If selected, the record is automatically authorized. 	
	Report DSN: Specify the details of the report DSN.	
Swift Address	Specify the swift address details.	
SWIFT Address	Search and select the required SWIFT address.	
Default BIC	If selected, indicates the selected SWIFT address as the default BIC.	

4. 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

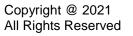
View External Chart Account		ام	" ×
९ с +			=
General Ledger Code:	General Ledger Code:		
Source System: Source System GL Code:	Source System: Source System GL Code:		
Authorized 🔒 Open	💫 Authorized 🔒 Open		

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

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

Table 43: View External Chart Account – Field Description

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

Create External Chart Account				,, ⁴ ×
New				
General Ledger Code				
General Ledger Description	Source System	Source System GL Code	Category +	
Blocked				
				Save Cancel
				Carrier

3. On **Create External Chart Account** screen, specify the fields. For more information on fields, refer to the field description table below.

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.

Table 44: Create External Chart Account – Field Description

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.
 - \rightarrow The View External Customer screen is displayed.

Figure 38: View External Customer

५ с +		
Customer Name:	Customer Name:	
Source System:	Source System:	
Customer Type:	Customer Type:	
Customer Number:	Customer Number:	
Source Customer ID:	Source Customer ID:	
🖒 Authorized 🔒 Open	💫 Authorized 🔒 Open	

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

Table 45: 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.
 - \rightarrow The Create External Customer screen is displayed.

Figure 39: Create External Customer

Create External Customer			× ×
Customer Details			
Customer Number *	Customer Name *	Short Name	Customer Type
Source Customer ID *	Source System *	Customer Category	Individual Corpore Bank Relationship Manager ID
aune casione to	9	Q.	reaction privatege to
Address			
Address Line 1	Address Line 2	Address Line 3	Address Line 4
Country	Postal Code		
9,			
Other Details			
	Ernner	Whereabouts Unknown	Sanction Check Required
Walk-in Customer	Frozei	Language *	Nationality
		9	٩
			Sev Canad

3. On **Create External Customer** screen, specify the fields. The fields which are marked with asterisk are mandatory. For more information on fields, refer to the field description table below.

 Table 46: 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:	
	 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.			

4. 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:

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

→ The View External Customer Account screen is displayed.

Figure 40: View External Customer Account

View External Customer Account		
् c +		
Customer Account Number:	Customer Account Number:	:
Customer Number: Account Name:	Customer Number: Account Name:	
Authorized 🔒 Open	Authorized 🔒 Open	



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.

Table 47: View External Customer Account – Field Description

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

Create External Customer Account			, _p e ×
New			
Account Details			
Customer Account Number *	Account Name *	Customer Number *	Customer Name Not Selected
Account Class	Account Currency *	Source Account Branch *	Source Customer Account *
Nostro Account 👻	٩,	٩,	
Account IBAN			
Address			
Address Line 1	Address Line 2	Address Line 3	Address Line 4
Country			
Other Details			
No Credit Dormant Account Open Date	No Debit	Biocked Enternal Credit Approval System *	Frozen Non Code *
			Save Cancel

3. On **Create External Customer Account** screen, specify the fields. The fields which are marked with asterisk are mandatory. For more information on fields, refer to the field description table below.



Table 48: 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

View External Cust	tomer Accour	nt Stru	uctured Address		
९ с +					
Customer Number:		÷	Customer Number:		÷
Town Name: Country:			Town Name: Country:		
Unauthorized	P Open		Authorized	Copen	

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

Table 49: 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

Create External Customer Account Structured Address				
New				
Customer Account *	Account Name *			
Structured Address				
Department	Sub Department	Street Name	Building Number	
Building Name	Floor	Post Box	Room	
Post Code	Town Name	Town Location Name	District Name	
Country Sub Division	Country			
			Save	Cancel

3. On **Create External Customer Account Structured Address** screen, specify the fields. The fields which are marked with asterisk are mandatory. For more information on fields, refer to the field description table below.

Table 50: 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.
Town Name	Specify the town name.
Town Location Name	Specify the town location name.
District Name	Specify the district name.
Country Sub Division	Specify the country sub division.
Country	Specify the country name.

4. 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.

Customer Number: : Customer Number: : Town Name: Country: Country: Country: Country: Country: Authorized Open	Vie	ew External Virtual Account St	ructured Address	
Town Name: Country: Country:	Q	c		
Country: Country:	C	ustomer Number:	Customer Number:	:
🗞 Authorized 🔒 Open				
		Authorized 🔒 Open	Authorized 🔒 Ope	n

Figure 44: View External Virtual Account Structured Address

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

Table 51: 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.

 \rightarrow The View Forgotten Customer screen is displayed.

Figure 45: View Forgotten Customers

View Forgotten C	Customers					
ч с +						
Process Type:		Process Type:	:			
Process ID:		Process ID:				
Maker:		Maker:				
Authorized	P Open	Unauthorized	🔒 Open			

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

Table 52: 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.
 - \rightarrow The Forget Customer screen is displayed.

Figure 46: Forget Customer

Forget Customer			$_{\mu^{a^{a^{a^{a^{a^{a^{a^{a^{a^{a^{a^{a^{a^$
New			
Forget Customer Process ID *	Forget Cuttomer Process Type Coolonner Initian Eartic Initiated		
	Customer Number	Process Status	
No data to display.			
Page 1 (0 of 0 items) K < 1	х с		
			Save Cancel

3. On **Forget Customer** screen, specify the fields. The fields which are marked with asterisk are mandatory. For more information on fields, refer to the field description table below.

Table 53: Forget Customer – Field Description

Field	Description
Forget Customer Process ID	Specify a forget customer process ID.
Forget Customer Process Type	Select one of the options
	 Customer Initiated: If selected, indicates the customer has initiated the process. Bank Initiated: If selected, indicates the bank has
	• 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.

 \rightarrow The View Host Code screen is displayed.

Figure 47: View Host Code

Q C + Default Branch Code: ; Processing Time Zone: Processing Time Zone: Host Code: Country Code: Country Code: Country Code: Authorized Open	View Host Code	
Frocessing Time Zone: Host Code: Country Code: Country Code: Processing Time Zone: Host Code: Country Code: Country Code:	९ с +	
Host Code: Host Code: Country Code: Country Code:	Default Branch Code:	Default Branch Code:
🚴 Authorized 🔒 Open	Host Code:	Host Code:
	🕞 Authorized 🔒 Open	Authorized 🔒 Open

Table 54:	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.
 - \rightarrow The Create Host Code screen is displayed.

Figure 48: Create Host Code

Create Host Code			,,* ×
New			
Host Code *	Description *		
Country Code *	Processing Time Zone *	Default Branch Code * Q	
		Sav	e Cancel

3. On **Create Host Code** screen, specify the fields. The fields which are marked with asterisk are mandatory. For more information on fields, refer to the field description table below.

Table 55: 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.

 \rightarrow The View Language Code screen is displayed.

Figure 49: View Language Code

View Language Code	
९ с +	
Language ISO Code:	Language ISO Code:
Language Code: Language Name:	Language Code: Language Name:
Authorized 🔒 Open	Authorized 🔒 Open

Table 56: 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

Create Language Code			"* ×
New			
Language Code *			
Longuage Neme	Display Direction	Language 60 Code	
			Save Cancel

3. On **Create Language Code** screen, specify the fields. The fields which are marked with asterisk are mandatory. For more information on fields, refer to the field description table below.

 Table 57: 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.

 \rightarrow The View Local Holiday screen is displayed.

Figure 51: View Local Holiday

View Local Holiday			
० с +			
Branch Code:	:	Branch Code:	:
Unexpected Holiday: Year:		Unexpected Holiday: Year:	
🗟 Unauthorized	Open	Authorized	P Open

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

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.

Table 58: View Local Holiday – Field Description



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

ancł	Code	2				Q		Y	ear *								We	eekiy i	Holida	ays		u (nexpe	cted H	Holida	ys		
	J	anua	ary	201	8			F	ebru	ary	201	18				Mar	ch	2018	3				Apr	il 2	2018			
S	Μ	Т	W	т	F	S	S	М	Т	W	Ţ	F	S	S	М	т	W	Т	F	S	S	Μ	т	W	Т	F	S	
	1	2	3	4	5	6					1	2	3					1	2	3	1	2	3	4	5	6	7	
7	8	9	10	11	12	13	4	5	6	7	8	9	10	4	5	6	7	8	9	10	8	9	10	11	12	13	14	
14	15	16	17	18	19	20	11	12	13	14	15	16	17	11	12	13	14	15	16	17	15	16	17	18	19	20	21	
21	22	23	24	25	26	27	18	19	20	21	22	23	24	18	19	20	21	22	23	24	22	23	24	25	26	27	28	
28	29	30	31				25	26	27	28				25	26	27	28	29	30	31	29	30						
		Ma	y 2	018					Jun	e 2	2018					Jul	y 2	018					Augu	ust	201	8		
S	М	т	W	Т	F	S	S	М	T	W	T	F	S	S	М	Т	W	Ĩ	F	S	S	М	T	W	Т	F	S	

3. On Create Local Holiday screen, specify the fields. The fields which are marked with asterisk are mandatory. For more information on fields, refer to the field description table below.

Table 59: 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.



3.25 Media

You can configure media information.

This section contains following subsections:

- 3.25.1 Media Summary
- 3.25.2 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. 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.

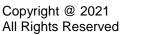
Figure 53: View Media

View Media			, ¹⁶	×
< c +				
Media:	÷	Media: E		
Media No:		Media No:		
Authorized 🔒 Open		Authorized 🔒 Open		

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

Table 60: 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

Create Media				$_{\mu^{k'}} \times$
New				
Media Code *				
Media Description *				
Media Number	Message Terminator	Message Suffix	Stop Process	
			\bigcirc	
Padding Required	TW Required Status	Media Priority *	No Of Character	
	\bigcirc	V A	✓ A	
× 1 •••				
Media Code *	Compatible Media *			
			Same	Canvel
			Save	Cancel

3. On **Create Media** screen, specify the fields. The fields, which are marked with asterisk, are mandatory. For more information on fields, refer to the field description table below.

Table 61: 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.	
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.	

4. Click Save. You can view the configured media details in the Media Summary.



3.26 Multi-Currency Account Linkage

The Multi-Currency Account (MCA) linkage enables the user to link the sub-accounts to a core multicurrency account. This section contains following subsections:

- 3.26.1 Create MCA Linkage
- 3.26.2 View MCA Linkage

3.26.1 Create MCA Linkage

This maintenance screen allows you to link the sub-accounts to a core multi-currency account. To process this screen, perform the following steps:

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

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

Figure 55: Create MCA Linkage

Create M	CA Linkage		, ¹⁶ ×
Multi-C	urrency Account No *		
Sub Ac	counts		
	Currency Code	Account Number	Primary
			Yes
Page	1 of 1 (1 of 1 items) $ K \langle 1 \rangle > 3$		
		Save	Cancel

On **Create MCA Linkage** screen, specify the fields. The fields, which are marked with asterisk, are mandatory. For more information on fields, refer to the field description table below.

Table 62: Create	MCA Linkage –	Field Description
------------------	---------------	--------------------------

Field	Description		
Multi-Currency Account No	Click search icon, and select the multi-currency account number from the list of values.		
Sub Accounts	Displays the details of the sub accounts.		
Currency Code	Specify the currency code of the sub account.		
Account Number	Specify the account number of the sub account.		



Field	Description	
Primary	Select Yes , if the sub account is Primary. If it is not Primary, select No .	

3. Click Save. You can view the configured sub-account details in the View MCA Linkage.

3.26.2 View MCA Linkage

This summary screen provides a list of configured sub-accounts to a core multi-currency account. To process this screen, perform the following steps:

- 1. From Home screen, click Core Maintenance. Under Core Maintenance, click Multi-Currency Account Linkage.
- 2. Under Multi-Currency Account Linkage, click View MCA Linkage.
 - \rightarrow The View MCA Linkage screen is displayed.

Figure 56: View MCA Linkage

ew MCA Linkage			
c +			
Aulti-Currency Account Number:	Multi-Currency Account Number:		
JST00001	CUST00001		
stomer Number: 10.0000111	Customer Number: 014/CUS141		
🗞 Unauthorized 🔒 Open	🗟 Unauthorized 🔒 Open		
e 1 of 1 (1-1 of 1 items)	к < 1 > я		

Field	Description
Multi-Currency Account Number	Displays the multi-currency account number.
Customer Number	Displays the customer number.
Status	Displays the status of the record.



3.27 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:

- 3.27.1 View Process Code
- 3.27.2 Process Code Maintenance

3.27.1 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:

- 3. From Home screen, click Core Maintenance. Under Core Maintenance, click Process Code.
- 4. Under Process Code, click View Process Code.
 - \rightarrow The **View Process Code** screen is displayed.

Figure 57: View Process Code

View Process Code		
९ с +		
Process Code:	Process Code	:
Description:	Description:	
Process Code:	Process Code	
🔥 Authorized 🔒 Open	Author	zed 🔒 Open

Table 64: 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.	



3.27.2 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.
 - \rightarrow The **Process Code** screen is displayed.

Process Code			
w Unlock Cour			
rocess Code "		Process Name *	
Stage ID	Stage Description	Seq Order	Source Stage
RPM_RUNDRG_APPEN	Application Entry	4	~
RPM, RUNORG_ENRCH	Application Enrichment	2	
		3	
RPM_RUNDRG_UNDWT	Underwriting		
RPM_RLNORG_ASSMT	Assessment	4	
RPM_RLNORG_OFFISSUE	Offer issue	6	
RPM_RLNORG_OFFACCEPT	Customer Offer Accept/Reject	7	
RLNORG_HANDOFF_RETRY	Handoff Retry	10	
			Add Row Remove Row
Phase Code	Phase Description	Seq Order	Stage ID
APP_VER	Application Verification		RPM_RLNORG_APPEN ×
		1	RPM_RLNORG_ENRCH ×
			RPM_RLNORG_ASSMT ×
			RPM_RLNDRG_UNDWT ×
APP_APPR	Application Approval	2	RPM_RLNORG_OFFISSUE ×
		-	RPM_RLNORG_OFFACCEPT × RLNORG_HANDOFF_RETRY ×
			Add Row Remove Row

Figure 58: Process Code

2. On **Process Code** screen, specify the fields. The fields which are marked with asterisk are mandatory. For more information on fields, refer to the field description table below.

Field	Description			
Process Code	Specify the code.			
Process Name	Specify the process name.			
Process Version	Specify the process version.			
Domain	Specify the process domain.			
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.			
Source Stage Select it to indicate if the specific stage is the source stage of the process.				

Table 65: Process Code – Field Description



Field	Description	
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.	

3. Click Save. You can view the configured process codes in the View Process Code.



3.28 System Dates

You can view the system date details.

This section contains following subsections:

• 3.28.1 System Dates Summary

3.28.1 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.

 \rightarrow The View System Dates screen is displayed.

Figure 59: View System Dates

View System D	ates				
९ C					
Branch Code:		÷	Branch Code:		÷
Today's Date:			Today's Date:		
Authorized	🔒 Open		Authorized	🔒 Open	

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

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



3.29 Transaction Code

You can configure the transaction code.

This section contains following subsections:

- 3.29.1 Transaction Code Summary
- 3.29.2 Transaction Code Maintenance

3.29.1 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.
 - \rightarrow The View Transaction Code screen is displayed.

Figure 60: View Transaction Code

Q C Source System: :	
Source System: :	
Transaction Code: Transaction Code: Source Transaction Code: Source Transaction Code:	
🗞 Authorized 🔒 Open 🔹 🔂 Unauthorized 🔒 Open	

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,		



3.29.2 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.
 - \rightarrow The **Create Transaction Code** screen is displayed.

Figure 61: Create Transaction Code

		2
Description		
Source Transaction Code		
	Save	Car
		Source Transaction Code

3. On **Create Transaction Code** screen, specify the fields. The fields which are marked with asterisk are mandatory. For more information on fields, refer to the field description table below.

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.

Table 68: Create Transaction Code – Field Description

4. Click **Save**. You can view the configured transaction code details in the Transaction Code Summary.



3.30 Upload Source

You can upload a source code.

This section contains following subsections:

- 3.30.1 Upload Source Summary
- 3.30.2 Upload Source Maintenance

3.30.1 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.

 \rightarrow The View Upload Source screen is displayed.

Figure 62: View Upload Source

Upload Source:
Source Description:
🎝 Authorized 🔒 Open

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

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

Table 69: View Upload Source – Field Description



3.30.2 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 63: Create Upload Source

Create Upload Source			$_{\mu}^{\mu}$ \times
New			
Source Code			
Source Description	Base Data From Flexcube	System Authorization Required	
			Save Cancel

3. On **Create Upload Source** screen, specify the fields. The fields which are marked with asterisk are mandatory. For more information on fields, refer to the field description table below.

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.

Table 70: Create Upload Source – Field Description

4. Click Save. You can view the configured upload source details in the Upload Source Summary.



3.31 Upload Source Preference

You can configure upload source preference.

This section contains following subsections:

- 3.31.1 Upload Source Preference Summary
- 3.31.2 Upload Source Preference Maintenance

3.31.1 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 64: View Upload Source Preference

View Upload Source Preference		$_{\mu^{st}}$ \times
		. =
Source Code:	Source Code:	
Status:	Status:	
Purge Days:	Purge Days:	
Authorized 🔒 Open	🗟 Unauthorized 🔒 Open	

Table 71: 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.



3.31.2 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.
 - \rightarrow The Create Upload Source Preference screen is displayed.

Figure 65: Create Upload Source Preference

Create Upload Source Preference			, ¹ ²
New			
Source code			
Q,			
Error Handling			
On Error Reject	On Override Ignore Override Reject	On Repairable Exception Reject Move To Queue	On Queue Exception Reject Move To Queue
Post Upload			
Status Authorize Put On Hold Unauthorize	Purge Days	Allow Deferred Processing	Allow EOD with Deferred
Deletion Allowed	Reverse Allowed	Ammend Allowed	Proceed with EOD
			Save Cancel

3. On **Create Upload Source Preference** screen, specify the fields. For more information on fields, refer to the field description table below.

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.
Status	Select a status from the dropdown list.

Table 72: Create Upload Source Preference – Field Description



Field	Description
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.

3.32 Pricing Source System

You can configure the pricing source system.

This section contains following subsections:

- 3.32.1 Pricing Source System Summary
- 3.32.2 Pricing Source System Maintenance

3.32.1 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.
 - \rightarrow The View Pricing Source System screen is displayed.

Figure 66: View Pricing Source System

View Pricing Source System		\times 2
८ ट		
Pricing Source System:	Pricing Source System:	
Pricing Source Description:	Pricing Source Description:	
📘 🔂 Authorized 🔒 Open	💫 Authorized 🔒 Open	
Page 1 of 1 (1 - 2 of 2 items)	к < 1 > >	



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.



3.32.2 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.
 - \rightarrow The Create Pricing Source System screen is displayed.

Figure 67: Create Pricing Source System

Create Pricing Source System		$_{\mu^{k'}}$ \times
Pricing Source System *	Pricing Source Description	
		Save Cancel

3. On **Create Pricing Source System** screen, specify the fields. The fields which are marked with asterisk are mandatory. For more information on fields, refer to the field description table below.

 Table 74: 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.



3.33 Integrating Bureau Integration Service with Oracle Banking Routing Hub

3.33.1 Oracle Banking Routing Hub Configuration

Need to import existing service consumer and providers in the system. Service Consumer is Oracle product, which invokes oracle banking routing hub API, oracle banking routing hub 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 68: Service Consumers



Figure 69: Oracle Banking Routing Hub Configuration

Add Import search Add Import search Viceo Edit Delete Export Export JSON	import search Q Service_Consumer View of1 (1-1 of 1 items) K < 1 Delete		م	
Prade Service Consumer View e 1 of 1 (1 - 1 of 1 items) K < 1 Delete Export • JSON	Service_Consumer of 1 (1 - 1 of 1 items) K < 1 Edit Delete Export JSON Configuration SQL	Add 🛃 Import search	٩	
I of 1 (1 - 1 of 1 items) K I Delete Export JSON	of 1 (1 - 1 of 1 items) K < 1 Export JSON Configuration SQL			
I of 1 (1 - 1 of 1 items) K I Delete Export JSON	of 1 (1 - 1 of 1 items) K < 1 Export → JSON Configuration SQL			
a 1 of 1 (1-1 of 1 items) K < 1 Delete Export • JSON	of 1 (1-1 of 1 items) K < 1 Delete Export JSON Configuration SQL	racle_Service_Consumer	View	
Export JSON	Export JSON Configuration SQL		Edit	
	Configuration SQL	1 OFF (FFFOFFItems) K < 1	Delete	
Configuration SOL			Export JSON	
Conigliadori Scc.	Request Audit		Configuration SQL	
Request Audit			Request Audit	

Table 75: Oracle Banking Routing Hub 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

3.33.1.1 Add

You can create service consumer manually.

Navigation: Service Consumers -> Add

Figure 70: Add

Service Consumers			$_{\mu}^{\nu r}$ \times
Service Consumers			
Add Import search No items to display: Page 1 of 0 (1-0 of 0 items) K < > > >	Add Service Consumer Name * Oracle_Service_Consumer Improvement Variables Improvement Variables	Enter 0 or more characters. 255. No numeric value allowed a allowed. Value	



Component Name	Component Type	ls Manda tory	Data type	Validation	Comments
Name	Text Box	Yes	Alphanum eric with special characters	 Name cannot be blank Specify 0 or more characters, up to a maximum of 255 No numeric value at beginning and no space allowed 	Unique Service Consumer name
Environme nt Variables	Table Content				
Save	Button				Saves the Service Consumer

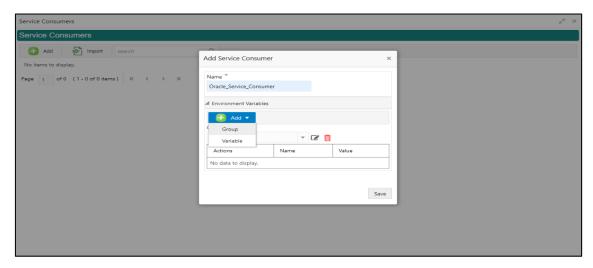
Table 76: Add

3.33.1.2 Environment Variables

You can define the group of variables, which can be accessed through the specific consumer's configuration.

Below is the syntax for accessing environment variables: \$env.Environment_Group_Name.Environment_Variable_Name such as: \$env.COMMON.BRANCH_CODE

Figure 71: Environment Variables





Service Consumers		, st ×
Service Consumers		
Add import search	Add Service Consumer ×	
Page 1 of 0 (1 - 0 of 0 items) K < > 3	Add Environment Group Enter 0 or more characters, up to a maximum of 255. No numeric value allowed at beginning.No space allowed. Gr C OK	
	Actions Name Value No data to display. Save	

Figure 72: Environment Variables



Service Consumers Add Import search No items to display. Page 1 of 0 (1 - 0 of 0 items) IK X X Add Environment Variable Enter 0 or more characters. up to a maximum of 255. XNo items is of up of 0 No numeric value allowed at beginning.No space	Service Consumers		$_{\mu^{b^{0}}}$ \times
No items to display. Add Service Consumer × Page 1 of 0 (1 - 0 of 0 items) K < > > Name * c Add Environment Variable Enter 0 or more characters, up to a maximum of 255. No numeric value allowed at beginning.No space	Service Consumers		
Allowed.	Add Import search	Add Environment Variable Enter 0 or more characters. up to a maximum of 255. No numeric value allowed at beginning.No space allowed. Value K	

Table 77: Environment Variables

Component Name	Component Type	ls 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	Alphanum eric with special characters	 Name cannot be blank Specify 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.	
ОК	Button				Saves the group / variable and displays it in the list	



3.33.1.3 Import

You 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 74: Import

Service Consumers		, ² ×
Service Consumers		
Service Consumers Add Import No items to display. Page of 0 (1-0 of 0 items) K < > X	Import Service Consumer × File * Oracle_Service_Consumer_Consumer.js Select Extract Name * Oracle_Service_Consumer Service Providers Name External_Product_Processor 1.0	
	Import	

Table 78: Import

Compone nt Name	Compone nt Type	ls Mandator y	Data type	Validatio n	Conditio n	Comment s
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	Alphanumer ic with special characters	 Name cannot be blank Specify 0 or more character s, up to a maximum of 255 	Editable	Unique



Compone nt Name	Compone nt Type	ls Mandator y	Data type	Validatio n	Conditio n	Comment s
				 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



3.33.1.4 View

You 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 75: View

Service Consumers		1
Service Consumers	View Service Consumer	
Add mont search Oracle Service Consumer	Name Oracle_Service_Consumer	
Page 1 of 1 (1-1 of 1 items) K < 1 > 3	Environment Variables Group COMMON Actions Name Value BRANCH_CODE Sheaders["branchCode"[0]	

3.33.1.5 Edit

You can modify the consumer details.

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

Figure	76:	Edit

Service Consumers				$_{\mu_{a_{i}}} \times$
Service Consumers				
Add 🔂 Import ora	Edit Service Consumer		-	×
Oracle_Service_Consumer I Page 1 of 1 (1-1 of 1 items) K < 1 > 3	Name * Oracle_Service_Consumer	r		
	Add Transformed Add Add Add Add Add Add Add Add Add A	.		
	Actions No data to display.	Name	Value	
			Save	

3.33.1.6 Delete

You can delete the consumer.

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

Figure 77: Delete

Service Consumers			× * ×
Service Consumers			
🕂 Add 🔁 Import ora	٩		
Oracle_Service_Consumer			
Page 1 of 1 (1 - 1 of 1 items) K < 1	к		
	CONFIRMATION	×	
	Do you want to delete the record?	1	
		Confirm Cancel	

3.33.1.7 JSON Export

You can export the consumer configuration as JSON file. Navigation: Service Consumers -> Operation Menu (3 dot icon) -> Export -> JSON

Figure	78:	JSON	Export
i igaio		00011	EAPOIL

Service Consumers	* ×
Service Consumers	
Add Finport ora	C Export Service Consumer x
Oracle_Service_Consumer i Page 1 of 1 (1-1 of 1 items) K	Name Oracle_Service_Consumer Service Providers Name External_Product_Processor 1.0
	Export

NOTE: You have an option to select service providers from the list that 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



3.33.1.8 SQL Export

You can export the consumer configuration as SQL file. Navigation: Service Consumers -> Operation Menu (3 dot icon) -> Export -> SQL

Figure 79: SQL Export

Service Consumers		" st ×
Service Consumers		
Add Import ora Q Oracle. Service. Consumer I		
Page 1 of 1 (1-1 of 1 items) K < 1 > 3	N X 12 uch as Implementation Host, Port and Password will not be exported Confirm Cancel	

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



3.33.2 Service Providers

Service Providers are the product processors configure to process request send by oracle banking routing hub 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 80: Service Providers

Service Consumers	۲×
Oracle_Service_Consumer	
Service Providers Consumer Services	
🛨 Add 🔁 import search Q	
External_Product_Processor :	
Version 1.0 Type EXTERNAL Status ACTIVE Page 1 of1 (1-1of1items) K < 1 > X	

Figure 81: Service Providers

Service Consumers		$\times \gamma_{a}$
Oracle_Service_Consumer		
Service Providers Consumer Services		
🔂 Add 🛃 Import search	٩,	
External_Product_Processor Image: Control of the second	View Edit Delete Export Request Audit	

Table 79: Service Providers

Component Name	Component Type	ls Mandatory	Data type	Validation	Condition	Comments
<service Consumer></service 	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: Se	rvice Providers	s -> 3 dot icon	(operati	on 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



3.33.2.1 Add

You can create service provider manually. Navigation: **Service Providers-> Add**

Figure 82: Add

Service Consumers			"* ×
Oracle_Service_Consumer			
Service Providers Consumer Services			
Add 🔁 Import search	Add Service Provider	Enter 0 or more characters, up to a maximum of × 255.	
External_Product_Processor	Product Name *	No numeric value allowed at beginning.No space allowed.	
Version 1.0 Type EXTERNAL Status ACTIVE	Version *	Active	
Page 1 of 1 (1 - 1 of 1 items) K <	Headers		
	▶ Service		
		Save	

Table 80: Add

Component Name	Component Type	ls Mandatory	Data type	Validation	Comments
Product Name	Text Box	Yes	Alphanumeric with special characters	 Name cannot be blank Specify 0 or more characters, up to a maximum of 255. No numeric value at beginning and no space allowed. 	Unique provider name
Туре	Combo Box One	Yes			Predefined Values: INTERNAL / EXTERNAL



Component Name	Component Type	ls Mandatory	Data type	Validation	Comments
Version	Text Box	Yes	Number	 Version cannot be blank Specify 0 or more characters, up to a maximum of 255. Specify 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

3.33.2.2 Headers

External product processor might require some standard headers to be passed along with the request.

You 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 oracle banking routing hub using the steps given below.

Figure 83: Headers

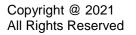
Service Consumers		ж ^{. 9} а
Oracle_Service_Consumer	Add Service Provider	×
Service Providers Consumer Services		
Add S Import search	Product Name Add Header	Enter 0 or more characters, up to a maximum of 255.
	Version * Name *	No numeric value allowed at beginning.No space allowed.
External_Product_Processor	1.0	
Version 1.0	Headers	
Type EXTERNAL Status ACTIVE	Add	
	Actions	
Page 1 of 1 (1 - 1 of 1 items) K < 1	No data to d	
	▶ Service	ок
		Save

Figure 84: Headers

Service Consumers					, ² ×
Oracle_Service_Consumer	Add Service Provider			×	
Service Providers Consumer Services	Product Name * External_Product_Processor	Type	* RNAL	-	
External_Product_Processor	Version * 1.0		Ictive		
Version 1.0 Type EXTERNAL Status ACTIVE	✓ Headers ↔ Add				
Page 1 of 1 (1 - 1 of 1 items) K < 1	Actions Edit	Name appld	Value		
	▶ s Delete			Save	

Table 81: Headers

Compone nt Name	Compone nt Type	ls Mandator y	Data type	Validatio n	Conditio n	Comment s
Add	Button					Pops up add dialog
Navigation: S	ervice Provid	ers -> Heade	rs -> 3 dot ico	n (operation r	nenu)	
Edit	menu option					Pops up edit dialog
Delete	menu option					Deletes header





Compone nt Name	Compone nt Type	ls Mandator y	Data type	Validatio n	Conditio n	Comment s
Navigation: S	Service Provid	ers -> Heade	rs -> Add			
Name	Text Box	Yes	Alphanumer ic with special characters	 Name cannot be blank Specify 0 or more character s, up to a maximum of 255. No numeric value at beginning and no space allowed. 		
Value	Text Area	Yes	Alphanumer ic with special characters	 Value cannot be blank Specify 0 or more character s, up to a maximum of 255. No space allowed. 		Value can either be hardcoded or can be Velocity mapping.
ок	Button					Saves the header details and displays it in the list



3.33.2.3 Service

Figure 85: Service

Service Consumers		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Oracle_Service_Consumer		
Service Providers Consumer Services		
Add 🔁 Import search	Add Service Provider ×	
External_Product_Processor	Headers Service	
Type EXTERNAL Status ACTIVE	Type URL WSDL http://wh/00bzd:7023/FCUBS-ELCMWeb/EIValidLimitService?WSDL Import	
Page 1 of 1 (1 - 1 of 1 items) K <	Service Operation EtValidLimitService(EtValidLimitServiceSEI) QueryValidLimitIO	
	Save	

Table 82: Service

Component Name	Component Type	ls Mandatory	Comments
Туре	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

3.33.2.4 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.



3.33.2.5 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.

3.33.2.6 Import

You can create a service provider by importing the JSON file. Navigation: **Service Providers -> Import**

Figure 86: Import

Service Consumers	$_{\mu}$ × $_{\mu}$
Oracle_Service_Consumer	
Service Providers Consumer Services	
Add Simport search Q	
External_Product_Processor :	
Version 1.0 Type EXTERNAL Status ACTIVE Page 1 of1 (1-1of1items) K < 1 > X	Import Service Provider × File * Select Import

Table 83: Import

Component Name	Component Type	ls 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

3.33.2.7 View

You 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

Service Consumers			الا ^{- 10} ير
Oracle_Service_Consumer			
Service Providers Consumer Services			
Add import search	View Service Provider	<i>≥</i> ×	
External_Product_Processor Version 1.0 Type EXTERNAL Status ACTIVE Page 1 of 1 (1 - 1 of 1 items) K <	Product Name External_Product_Processor Version 1.0 I Headers Service Service EtValid1 imitService (EtValid1 imitService)	Operation Ouenv4sild imitIO	

Figure 87: Oracle Banking Routing Hub Configuration

3.33.2.8 Edit

You can modify the provider details.

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

Figure 88: Edit

Service Consumers				, ¹⁰ ×
Oracle_Service_Consumer				
Service Providers Consumer Services				
Add P Import search	Edit Service Provider		×	
External_Product_Processor Version 1.0 Type EXTERNAL Status ACTIVE Page 1 of1 (1-1of1items) K <	Product Name * External_Product_Processor Version * 1.0 > Headers # Service Type URL	Type * EXTERNAL Active	T Save	



3.33.2.9 Delete

You can delete the provider.

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

Figure 89: Delete

Service Consumers			* × *
Oracle_Service_Consumer			
Service Providers Consumer Services			
Add import search	٩		
External_Product_Processor	:		
Version 1.0 Type EXTERNAL Status ACTIVE		×	
	Do you want to delete the record?	1	
Page 1 of 1 (1 - 1 of 1 items) K < 1		Confirm Cancel	

3.33.2.10 Export

You can export the provider configuration as JSON file. Navigation: Service Providers -> Operation Menu (3 dot icon) -> Export

Figure 90: Export

Service Consumers		, ¹⁴ ×
Oracle_Service_Consumer		
Service Providers Consumer Services		
Add 🛃 Import search	٩	
External_Product_Processor		
Version 1.0 Type EXTERNAL	CONFIRMATION ×	
Status ACTIVE	Do you want to export? Note: Sensitive data such as Implementation Host, Port and Password will not be exported	
Page of 1 (1 - 1 of 1 items) K < 1	Confirm Cancel	
		·

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



3.33.3 Experian Configuration

3.33.3.1 Experian Fetch Credit Report

Figure 91: Experian Fetch Credit Report

View Transformation	€×
Template Type VELOCITY	Template { #set(\$dictionary = {}) #if(\$body.dictionary && \$body.dictionary.size()>0) #foreach(\$dictionaryItem in \$body.dictionary) #if(\$IdictionaryItem.isFactDictionary) #-t
Response Transformation	
Template Type	Template
VELOCITY	{ #define(ShtmlContent)#if(Sbody.creditProfile.get(0).consumerIdentity.dob) <div style="padding:5px;marging:10px">Date of Birth </div> div style="text-align:center;display: inline-block"> the construction of the poper of the construction of the construction of the poper of the construction of the c
Mocking required?	Mock Template
Off	

Figure 92: 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 VELOCITY	Template { #set(\$dictionary = {}) #if(\$body.dictionary && \$body.dictionary.size()>0) #foreach(\$dictionaryItem in \$body.dictionary) #if(\$!dictionaryItem.isFactDictionary)	I



ORACLE

3.33.3.2 Experian Sandbox

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

CBSTo	Bureau		
Service Pro	oviders Consumer Services		
🕂 Ad	ld import search	0	
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
age 1	of 1 (1-5 of 5 items) K < 1 > X		

Figure 93: Experian Sandbox

3.33.4 Equifax Configuration

Equifax is configured in lookup as a bureau and rule services to configure in oracle banking routing hub as consumer service to fetch details from Equifax sand.

3.33.4.1 Equifax Fetch Credit Report

Figure 94: Equifax Fetch Credit Report

	formation					2 :
r raunala	mg					
QueryPar	ans					
# Request ?	fransformation					
emplate Typ	pe			Template		
ELOCITY				(#set(Sbody = Ss "consumers"; ("name"; [[1
4 Response	Transformation					
emplate Typ	pe			Template		
				#set (Sboo #set (Sstrin #set (Smar	class = Sobj.class.forName(java.lang.Number)) 4.class = Sobj.class.forName(java.lang.Boolean')) 1g.class = Sobj.class.forName(java.lang.String?)) 2.class = Sobj.class.forName(java.util.Map?))	
	a Routing				alaan Pada daaradaana Marina di Usadi S	
		Q			alaran - Pada dana da da an tana tan tan tan tan tan ta	
and formation	Routing	Q. Status	Product Processor		Service	
ansformation add Actio N	Routing	1	Product Processor EXPERIAN 14.4	α,	Poly deve dealers of Plants	
Add Actio., N I D	Routing	Status	0.8892555605550262	man Pro-	Service	
Add Actio N I D I D	Routing import search arre KP_AUTH_TRANS	Status	EXPERIAN 14.4	and Pro-	Service expertanAuth - /oauth2/v1/token	one
Actio N Actio N I D I D I D	Routing Propert search ame RP.AUTH_TRANS KP_TRANSFORMATION	Status ACTIVE ACTIVE	EXPERIAN 14.4 EXPERIAN 14.4	Implementation EXPERIAN_Default EXPERIAN_Default	Service experianAuth - /oauth2/v1/token CreditReports - /v2/credit-report	one
Add Add Action N C D C D C D C D C D C D C D C D	Routing Provide Search ame 6P,AUTH_TRANS KP_TRANSFORMATION KP_Extended_View_Attributes_and_Score_Doc	Status ACTIVE ACTIVE ACTIVE	EXPERIAN 14.4 EXPERIAN 14.4 EXPERIAN 14.4	Implementation EXPERIAN_Default EXPERIAN_Default	Service experianAuth - /oauth2/v1/token CreditReports - /v2/credit-report Extended/view-attributesAndScore - /v1/extended-view-attributes-and-sc	one
Actio N. I D I D I D I D I D I D	Routing Parme RP_AUTH_TRANS P_TRANSFORMATION RP_Extended_View_Attributes_and_Score_Doc RP_DOCUMENT	Status ACTIVE ACTIVE ACTIVE ACTIVE	EXPERIAN 14.4 EXPERIAN 14.4 EXPERIAN 14.4 EXPERIAN 14.4	Implementation Diversity of the second secon	Service experianAuth - /oauth2/v1/token CreditReports - /v2/credit-report Extended/view-attributesAndScore - /v1/extended-view-attributes-and-sc premierprofilespdf - /v1/reports/premierprofiles/pdf.	oore

3.33.4.2 Equifax Sandbox

Service consumer exports details of fetch credit report from sandbox environment.

CBSToBureau > Service Providers	> EQUIEAX 14.4			
implementation	View Implementation		08 ×	
Add an import search	Name	Default		
Actio Name	Descrite Contract Con	On		Port
EQUIFAX_Default	Detai Description Default Implementation		sandbox.equifax.co	om 0
age 1 of 1 (1-1 of 1 kerns) K C		Port		
	https api.sandbox	x.equifax.com 0	-	
	Authentication			
	▶ Headers			
	12			

Figure 95: Equifax Sandbox

3.33.5 Document Configuration

Bureaus usually send applicants credit reports in PDF or encrypted format. The product processors prefers the PDF reports for easy readability and usability. In addition, product processors want to display PDF reports in their system and share these reports with the applicants. In such cases, the PDF credit reports are stored in the document server, which can be accessed by the bureau integration service and the product processor.

3.33.5.1 Content Management Server

The Oracle content management server is used to store and manage documents. It can accept encoded strings of data and stores them in the provided extension format like (pdf, jpeg, png). The content management server allows to view the document online.

The latest available version is 12.2.1.4.

The cmc-document-service is a gateway to access the oracle content management server. Using this service, other applications can store, manage and process the document with ease.

3.33.5.2 Environment Configuration

To install cmc-document-services, additional configuration is added. This includes the moc domain.

Dflyway.domain.locations=db/migration/domain/plato,db/migration/domain/sms,db/migration/domai n/moc,db/migration/domain/cmc

-Dflyway.domain.placeHolders.moc.cmc-comments-services.server.port=<MOC_PORT>

-Dflyway.domain.placeHolders.moc.cmc-document-services.server.port=<MOC_PORT>



-Dflyway.domain.placeHolders.dmsServiceUrl=<CONTENT_SERVER_URL>

- -Dflyway.domain.placeHolders.dmsServiceUsrname=<CONTENT_SERVER_USERNAME>
- -Dflyway.domain.placeHolders.dmsServicePwd=<CONTENT_SERVER_PASSWORD>
- -Dflyway.domain.placeHolders.cmc-document-services.schema=<SCHEMA_NAME>
- -Dflyway.domain.placeHolders.cmc-document-services.server.port=<SCHEMA_PORT>
- -Dflyway.domain.placeHolders.cmc-document-services.username=<SCHEMA_USERNAME>
- -Dflyway.domain.placeHolders.cmc-document-services.password=<SCHEMA_PASSWORD>
- -Dflyway.domain.placeHolders.cmc-document-services.domain.jndi=jdbc/CMNCORE
- -Dflyway.domain.placeHolders.cmc-document-services.jndi=jdbc/CMNCORE
- -Dflyway.domain.placeHolders.cmc-document-services.db.jndi=jdbc/CMNCORE

-Dflyway.domain.placeHolders.cmc-documentservices.jdbcUrl=jdbc:oracle:thin:@//<SCHEMA_IP>:<SCHEMA_PORT>/<SERVICE_NAME>

-Dflyway.domain.placeHolders.cmc-documentservices.db.jdbcUrl=jdbc:oracle:thin:@//<SCHEMA_IP>:<SCHEMA_PORT>/<SERVICE_NAME>

3.33.6 Troubleshooting

3.33.6.1 Oracle FLEXCUBE Onboarding 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 oracle banking routing hub for token generation.

3.33.6.2 Unable to connect to external server

The oracle banking routing hub server is unable to connect to the experian server. The proxy is not configured

The VM arguments were added for oracle banking routing hub's managed server.

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

-Dhttps.proxyPort=80

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



3.33.6.3 Oracle Banking Routing Hub environment variable value not found

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

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



3.34 Bureau Integration Service

3.34.1 Overview

Bureau integration service facilitates financial institutions to send requests to the credit bureau agencies for credit scores and reports. It also facilitates viewing reports received from the bureaus.

The credit report presents the credit information of an individual or a company, which is fetched by credit bureaus from various financial institutions. It is a detailed report, which contains the history of borrowings, repayment routine, defaults, and delays. This report contains vital information about a customer's credit score, personal information, employment details, contact information, and details of accounts in various banks of a given geographical region. The objective of this report is to present the financial history of an individual or a company, which further helps a bank to take a decision on granting a loan based on the credit score of a company or an individual.

For requesting and receiving the credit reports, bureau integration service is integrated with the financial institution or the product processor.

The oracle banking routing hub facilitates routing and transforming the information between the product processor, the underlying integration service and the bureau. The flow is as follows:

- 1. The product processor requests bureau integration service for credit reports. It provides the required customer information for whom the report is requested.
- 2. The routing hub transforms the data and forwards the request to the bureau integration service.
- Once the integration service receives the request, the data is processed based on various criteria. The criteria contain the rules and facts of the product processor that are maintained in the rules engine.
- 4. Bureaus to be called are identified based on evaluation of the rules.
- 5. The integration service then sends the request to the routing hub, which transforms the data and sends the request to the respective credit bureaus.
- 6. The bureau processes the request and sends the credit report back.
- 7. The routing hub receives the report and transforms the report as per the defined template and sends it back to bureau integration service.
- 8. Bureau integration service then saves the data, displays the credit report, and sends the same to the product processor through the routing hub.



One or more bureaus can be called based on evaluation of the rules. The bureaus can be either called simultaneously or based on the response from the previous bureau call.

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

In case of multiple applicants being received by bureau integration service as a part of a lending application, based on the evaluation of criteria, the integration service consolidates all the multiple bureau responses into one and sends it to the product processor.

A new bureau can be added with only a configuration and without any change in the code. Two lookup types are required to be created in the bureau integration service. One for bureau and another for bureau product type. The additional maintenance required is configuration of the new bureau in the routing hub.

Bureau integration service supports override of criteria rules if the product processor wants to call a specific bureau or bureau product, for an applicant. In such cases, bureau service will not check criteria for rules evaluation. Instead, bureau service will call the bureau as intimated by the product processor in the request. Here, product processor can list one or more bureau's to be called.

Bureau Integration service supports decoding of encoded pdf string from a bureau response to a pdf report using web content document server. The document server generates a unique document ID for each record stored. Bureau service can access the pdf reports using this document ID.

The below flow diagram depicts how bureau integration service works with the integrated product processor and interfaces with the routing hub for fetching and displaying the credit bureau reports:

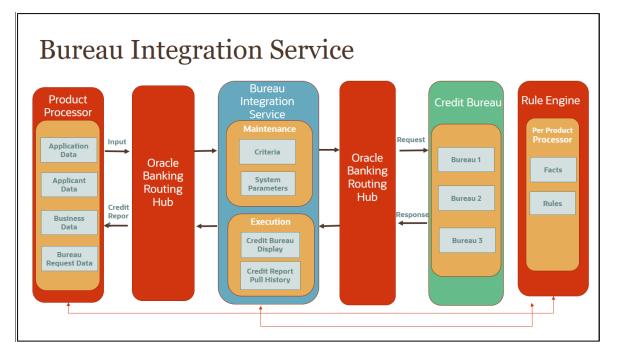


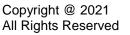
Figure 96: Bureau Integration Service



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 record pending for authorization are displayed.
- 3. Select the required record and click Approve.
- 4. The records 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.
- 5. Specify remarks for approving the record in the **Remarks** field.
- 6. Click **Confirm** and authorize the record. The record is authorized successfully.





3.35 Credit Bureau Display

The credit bureau display screen facilitates to view the reports received from the various bureaus. The report includes credit history details of the customer and the credit score of the customer based on these details.

3.35.1 View Credit Bureau Report

Using this screen, you can view the credit bureau report based on the various filter options provided.

To view a credit bureau report:

- 1. From Home screen, click Credit Bureau. Under Credit Bureau, click Operations.
- 2. Under **Operations**, click **Credit Bureau Display**.
 - → The Credit Bureau Display screen is displayed.

Figure 97 : Credit Bureau Display

Credit Bureau Display		$_{\mu^{k'}}\times$
Search Criteria		
Credit Bureau Display		
Filter		
Select T		
	Reset	Search

3. On **Credit Bureau Display** screen, specify the fields. The fields, which are marked with asterisk, are mandatory. For more information on fields, refer to the field description table below.

Field	Description
Filter	Select the required option based on which you can search for the credit bureau reports.
	The options are:
	External Reference Number
	Inquiry ID
	Inquiry Date
	Bureau Name
	Product Processor

Table 84: Credit	Bureau	Display-	Field	Description
Table 04. Cieuli	Duicau	Display-	i ieiu	Description

Field	Description
	Application Number
	Bureau Report ID
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.

4. In the Search Criteria section, specify the details and click Search.

 \rightarrow The search results appear showing a list of records based on the specified search criteria.

Figure 98 : Credit Bureau Display Screen

Credit Bureau Display	× ×
Search Criteria	
Filter Value	
Inquiry Date * Today *	
	Reset Search
Report History	
Inquiry Dete External Reference Number	Product Processor
•	
 A state of the sta	
N ET SERIE	
 Finite State 	
Constant	
P and a second se	
K 100 (51)	
F	
 Entropy of the second se	
Particular and a second se	
K DA CELL BACKTERING	

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

Field	Description
Inquiry Date	Displays the inquiry date of the request from product processor to bureau integration service.
External Reference Number	Displays the external reference number provided by the product processor.

Table 85: Credit Bureau Display – Field Description



Field	Description
Product Processor	Displays the name of the product processor that sent the request.

5. Click the kicon corresponding to the required record to view the list of reports.

Figure 99 : Credit Bureau Display View List of Report

Credit Bureau Display						1
Search Criteria						
Filter Inquiry Date *	Value Today *					Reset South
Report History						
Inquiry Date	External Reference Number				Product Processor	
0						
EXPERIAN	Rej CBS Ing	ert ID	inepoirt Date	an sy fer		View
EXPERIAN		ort ID	treport plate	eda-rohre		View
 Interference 	00 m	ay w	Ploduct			
*						
 Inclusion 						
 						
•					OFLO	
 Fig. (2) 						
•	1991 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 -				UFUD	
 					0+00	

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

Table 86: Create Bureau Display View List of Report – Field Description

Field	Description			
The Following fields appear if you click				
<applicant name=""></applicant>	Displays the name of the applicant.			
<bureau name=""></bureau>	Displays the name of the credit bureau agency.			
Inquiry ID	Displays the inquiry ID generated by bureau integration service.			
Report ID	Displays the report ID provided by the credit bureau agency.			
Report Date	Displays the date on which the credit bureau report is generated by the bureau.			
Product	Displays the product of the credit bureau agency.			
View	Click this link to view the credit bureau report.			



6. Click the View link to view the credit bureau report.

ightarrow The Credit Bureau Report is displayed.

Figure 100 : Credit Bureau Report

Credit Bureau Display		, st ×
Bureau Report		
	u Name EXPERIAN ct Name CREDIT_PROFILE	Report ID 0000000000 Report Date
		Date of Birth DOB DOB DOB
		Name firstName middleName surname type
		JOHN H CANN JOHN BARRY A
		Social Security Number Number SSN Indicator 00055550 Woodcolor
		Risk Model
	Evalu	Model Indicator Score Score Factors RC Group Importance (Core) = 11 Importance (Core) = 12 Importance (Core) = 12 Importance (Core) = 12 Importance (Core) = 12 Importance (Core) = 12
		Close

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

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

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3.36 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 are 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: For example, credit bureau1, credit bureau 2, and credit bureau 3.
 - Comparison Operator: Equals, Greater than.
- Dependent lookups based on another selection
 - o Based on Country, State should have different values in the lookup.
 - o Based on Country, Currency should have different values in the lookup.

3.36.1 Create Lookup

Using this screen, you can create lookup definitions by updating various details.

To create lookup:

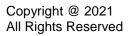
- 1. From Home screen, click Core maintenance. Under Core Maintenance, click Credit Bureau.
- 2. Under Credit Bureau, click Maintenance.
- 3. Under Maintenance, click Lookup.
- 4. Under Lookup, click Create Lookup.

→ The Create Lookup screen is displayed.

Figure 101 : Create Lookup

Create Lookup					"" ×
New					
Create					
Basic Details					
Lookup Type *		Description *			
					_
Lookup Codes					
Lookup Code	Description		Sort Order	Dependent Identifier	Enable
No data to display.					
				_	
				Save	Cancel

5. On **Create Lookup** screen, specify the fields. The fields which are marked with asterisk are mandatory. For more information on fields, refer to the field description table below.





Field	Description
Lookup Type	Specify the unique lookup type name.
Description	Specify the short description for lookup.
+ icon	Click this icon to add a new row.
- icon	Click this icon to delete a row, which is already added.
Lookup Code	Specify the unique lookup code.
Description	Specify the short description for lookup.
Sort Order	Specify the sort Order.
Dependent Identifier	Specify the dependent Identifier.
Enable	By default, this option is enabled. Indicates if the lookup is enabled or not.

6. Click Save.

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



3.36.2 View Lookup

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

To view created lookup:

- 1. From the **Home screen**, click **Core Maintenance**. Under **Core Maintenance**, click **Credit Bureau**.
- 2. Under Credit Bureau, click Maintenance.
- 3. Under Maintenance, click Lookup.
- 4. Under Lookup, click View Lookup.
 - → The View Lookup screen is displayed.

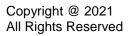
Figure 102 : View Lookup

View Lookup			
ч с +			
Lookup Type:	45	Lookup Type:	4
Description:		Description:	
Unauthorized	A Open	Unauthorized	Open
			1 - YAR - 1 MYS - 1014
Page 1 of 7	(1 - 10 of 66 item	ns) K < 1 2	2 3 4 5

- 5. Click 🤍 .
- 6. Specify the search criteria to fetch the required lookup.
- 7. Click Search.

Figure 103 : View Lookup - Search Option

View Lookup			μ^{d} \times
Lookup Type	Authorization Status	Record Status	
Search Reset			





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

Table 89: 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:			
	Authorized			
	Unauthorized			
Record Status	Select the record status of the lookup.			
	The options are:			
	• Open			
	Close			

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

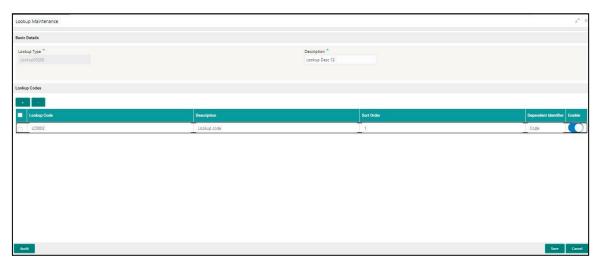
Table 90: View Lookup – Field Description.

Field	Description	
Lookup Type	Displays the lookup type.	
Description	Displays the description of the lookup.	

- 8. Click this icon ito unlock, delete, authorize or view the created criteria code
- 9. Click ^O unlock to modify the following fields. The fields are displayed in the **Lookup Maintenance** screen.
 - Lookup Code
 - Description
 - Sort Order
 - Dependent Identifier
 - Enable



Figure 104 : Lookup Maintenance – Modify



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

Table 91: Lookup Maintenance – Modify- Field Description.

Field	Description
Basic Details	
Lookup Type	Displays the lookup type.
Description	Displays the description of the lookup.
Lookup Codes	
+ icon	Click this icon to add a new row.
- icon	Click this icon to delete a row, which is already added.
Lookup Code	Displays the lookup code for the created lookup.
	You can modify the same.
Description	Displays the description for the created lookup.
Sort Order	Displays the sort order for the created lookup.
Dependent Identifier	Displays the dependent Identifier for the created lookup.
	You can modify the same.
Enable	Indicates if the lookup is enabled or not.
	You can modify the same.

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

11. Click to view the created lookup code. The fields are displayed in **Lookup Maintenance** screen.



Figure 105 : Lookup Maintenance – View

Lookup Maintenance					," ×
Basic Details					
Lookup70208		Description * Lookup Desc 12			
Lookup Codes					
+ -					
Lookup Code	Description		Sort Order	Dependent Identifier	Enable
LC0002	Lookup code		Ť.	Code	
Aujdit					

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

Field	Description
Basic Details	
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.



3.37 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:

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

3.37.1 Create Bureau Criteria

Using this screen, you can create bureau criteria by updating various details.

To create bureau criteria:

- 1. From Home screen, click Core Maintenance. Under Core Maintenance, click Credit Bureau.
- 2. Under Credit Bureau, click Maintenance. Under Maintenance, click Criteria.
- 3. Under Criteria, click Create Bureau Criteria.

 \rightarrow The **Create Bureau Criteria** screen is displayed.

Figure 106 : Create Bureau Criteria

eate Bureau Crite	eria						, ⁴
New,							
reate Burea	u Criteria						
Basic Details							
Criteria Code *		Descr	ption *		Product Processor *		
					Select	×	
• •	Rule ID	Description	Priority	Call All Bureau		Enable	
No data to disp	ay.						
							Save Cano

4. On **Create Bureau Criteria** screen, specify the fields. The fields, which are marked with asterisk, are mandatory. For more information on fields, refer to the field description table below.



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

Table 93: Create Bureau Criteria – Field Description.

Figure 107 : Create Bureau Criteria – Criteria Definition

Create Bure	eau Criteria					100
New						
Create I	Bureau Criteria					
Basic De	tails					
Criteria Co	de *	Description *		Product Processor *	×	
		a second a	A service of		a subsci	
	Rule ID	Description	Priority	Call All Bureau	Enable	
				_		

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

Field	Description	
+ icon	Click this icon to add a new row.	
- icon	Click this icon to delete a row, which is already added.	
Rule ID	Specify the rule ID.	
0	Click this icon to get the information about the rule.	
Description	Displays the description of the rule ID selected.	
Priority	Specify the priority of the criteria.	
Call All Bureau	Click the toggle status to call all bureaus.	
Enable	Click the toggle status to enable the rule criteria.	
Actions	This field is enabled if Call All Bureau field is selected as No	
+ icon	Click this icon to add a new row.	

Table 94: Create Bureau Criteria – Field Description.



Field	Description	
The below fields appear 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.	
0	Click this icon to get the information about the rule.	
Description	Displays the description of the rule ID selected it is auto populated.	
Priority	Specify the priority of the criteria.	
Enable	Click the toggle status to enable the rule criteria.	

5. Click Save.

 \rightarrow The criteria are successfully created and can be viewed using the **View Criteria** screen.



3.37.2 View Bureau Criteria

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

To view created criteria:

- 1. From Home screen, click Core Maintenance. Under Core Maintenance, click Credit Bureau.
- 2. Under Credit Bureau, click Maintenance.
- 3. Under Maintenance, click Criteria.
- 4. Under Criteria, click View Criteria.
 - → The View Criteria screen is displayed.

Figure 108 : View Criteria Screen

View Bureau Criteria					
९ C +					
Criteria Code: E OBX Criteria E Descriptor: Criteria for OBX Pr Product Processor: OBX	Criteria Code: : OBS Criteria Description: OBS Criteria Product Processor: OFLD	Citteria Code: : CRI002 : Description: dESC Product Processor: ORO	Criteria Code: E ASDASD Escription: ASDA Product Processor: OFLO	Criteria Code: 1 CRI 2 Description: DESC Product Processor: ORLO	
Rutharized 🔒 Open	authorized 🔒 Open	🚯 Unauthorized 🔒 Open	🚯 Unauthorized 🔒 Open	authorized 🔒 Open	
Page 1 of 1 (1-5 of 5 items)	к (1) н				
70-90 (l)					

- 5. Click 🤍
- 6. Specify the search criteria to fetch the required criteria.
- 7. Click Search.

Figure 109 : View Criteria – Search Option

View Criteria				** ×
Criteria Code	Description	Product Processor	Authorization Status	
	a contraction of the second		· · · · · · · · · · · · · · · · · · ·	
Record Status				
*				
Search Raset				



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

Table 95: View Criteria – Field Description.

Field	Description		
The following fields are	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	Select the authorization status of the criteria.		
	The options are:		
	Authorized		
	Unauthorized		
Record Status	Select the record status of the criteria.		
	The options are:		
	• Open		
	Close		

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

Table 96: View Bureau Criteria – Field Description.

Field	Description
Criteria Code	Displays the criteria code.
Description	Displays the description of the criteria code.
Product Processor	Displays the product processor of the criteria.

- 8. Click this icon ito unlock, delete, authorize or view the created criteria code.
- 9. Click ⁶ unlock to modify the following fields. The fields are displayed in the **Bureau Criteria Maintenance** screen.
 - Rule ID
 - Description
 - Priority
 - Call All Bureau Status
 - Enable



Figure 110 : Bureau Criteria Maintenance- Modify

Bureau Crite	eria Maintenance							2 ⁴⁰ ×
Basic De	tails							
Criteria Co OBX Crite			Description * Criteria for OBX Product Processor		Product Processor *	×		
Criteria I	Definition							
•						Enable	Actions	
	Rule ID PRD_TYPE_MULTIFA	0	Description	Priority	Call All Bureau		Actions	
	PRD_TYPE_MULTIFA Q OBS_RULE_EFX Q	0	Multiple Fact Rule OBS_Rule_CBS_Equifax	2	Yes No Yes No	8		
Audit								Save Cancel

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

Table 97: Bureau Criteria Maintenance – Modify - Field Description.

Field	Description
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.

- 10. Click save to update the modified fields.
- 11. Click to view the created criteria code. The fields are displayed in Bureau Criteria Maintenance screen.

								e ²
		Description * Criteria for OBX Product Processor		Product F OBX	Processor *			
		Description	Priority		Call All Bureau	Enable	Actions	
RD_TYPE_MULTIFACT	0	Multiple Fact Rule	2		No. No			
BS_RULE_EFX	0	OBS_Rule_CBS_Equifax	1		Yes No			
			Criteria for OBX Product Processor D.TYPE_MULTIFACT Multiple Fact Rule	Cititeria for OBX Product Processor Description Priority D_TYPE_MULTIFACT Multiple Fact Rule 2	Criteria for OBX Product Processor OBX	Criteria for 08X Product Processor CBX Description Priority Call All Bureau D_TYPE_MULTIFACT Multiple Fact Rule 2 100	Citteria for OBX Product Processor Description Priority Cat All Bureau Enable D_TYPE_MULTIFACT. Multiple Fact Rule 2 100 100	Citteria for OBX Product Processor CBX

_:... 444 . D. Critoria Maint



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

Field	Description		
Basic Details			
Criteria Code	Displays the created criteria code.		
Description	Displays the created criteria description.		
Product Processor	Displays the product processor of the created criteria.		
Criteria Definition			
Rule ID	Displays the rule ID for the created criteria.		
Description	Displays the description for the created criteria.		
Priority	Displays the priority for the created criteria.		
Call All Bureau	Displays if call all bureau has been enabled for the created criteria.		
Enable	Displays the criteria code if enabled for the created criteria.		
Actions	Displays the actions of the created criteria.		

 Table 98: Bureau Criteria Maintenance- View – Field Description.

3.38 System Parameter

System parameters define the information or values used throughout the system and drives the behavior of the features. They control the way task is executed, or whether the system performs a particular task. Some of the parameters are set when the system is installed, but the values associated with the parameter needs to be reviewed and is to be maintained.

Example:

- Set minimum days to pull credit bureau report from same bureau from initial pull.
- Credit bureau report purge days.

3.38.1 Create System Parameter

Using this screen, you can create system parameter by updating various details.

To create system parameter:

- 1. From Home screen, click Core Maintenance. Under Core Maintenance, click Credit Bureau.
- 2. Under Credit Bureau, click Maintenance.
- 3. Under Maintenance, click System Parameter.



4. Under System Parameter, click Create System Parameter

→ The Create System Parameter screen is displayed.

Figure 112 : Create System Parameter

Create System Parame	eter		,, ^{,e} ×
Basic Details			
Parameter Code *	*	Parameter Description *	
Product Processor *	v	Value *:	
			Save Cancel

5. On **Create System Parameter** screen, specify the fields. The fields, which are marked with asterisk, are mandatory. For more information on fields, refer to the field description table below.

Table 99: System Parameter – Field Description.

Field	Description		
Basic Details			
Parameter Code	Select the parameter code from the drop-down list.		
Parameter Description	Specify a short description for the parameter code.		
Product Processor	Select the product processor from the drop-down list for which the parameter is being created.		
Value	Specify the value for the parameter code.		

6. Click Save.

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

3.38.2 View System Parameter

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

To view created parameter:

- 1. From Home screen, click Core Maintenance. Under Core Maintenance, click Credit Bureau.
- 2. Under Credit Bureau, click Maintenance.
- 3. Under Maintenance, click System Parameter.



4. Under System Parameter, click View System Parameter.

→ The View System Parameter screen is displayed.

Figure 113 : Create System Parameter

View System Parameter				
ч с +				∎ =
Parameter Code: Max_Age_Call_To_EXPER : Description: Maximum Report Product Processor: OFLO	Parameter Code: Max_Age_Call_To_EQUIF [‡] Description: Maximum Report Product Processor: OBP	Parameter Code: Max_Age_Call_To_EQUIF [‡] Description: Maximum Report Product Processor: OBX	Parameter Code: Max_Age_Call_To_EQUIF Description: Maximum Report Product Processor: OFLO	
Authorized 🔒 Open	🗟 Unauthorized 🔒 Open	🗟 Unauthorized 🔒 Open	Ruthorized 🔒 Open	
Page 1 of 1 (1-4 of 4 items)	к (т) у Я			

- 5. Click
- 6. Specify the search criteria to fetch the required parameter.
- 7. Click Search.

Figure 114 : View System Parameter –Search Option

View System Parameter			$_{\mu}^{d}$ \times
Parameter Code	Authorization Status	Record Status	
Search Reset			

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

Table 100: View System Parameter – Field Description.

Field	Description				
The following fields are displayed, once you click					
Parameter Code	Displays the criteria code.				
Authorization Status	Select the authorization status of the criteria.				
Status	The options are:				
	Authorized				
	Unauthorized				



Field	Description
Record Status	Select the record status of the criteria.
	The options are:
	• Open
	Close

The following fields are displayed in the widget.

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

Table 101: View System Parameter – Field Description.

Field	Description
Parameter Code	Displays the parameter code.
Description	Displays the description of the parameter code.
Product Processor	Displays the product processor of the parameter.

- 8. Click this icon it to unlock, delete, authorize or view the created parameter code.
- 9. Click ^O unlock to modify the following fields. The fields are displayed in the **System Parameter Maintenance** screen.
 - Product Processor
 - Value

Figure 115 : System Parameter Maintenance - Modify

System Parameter Maintenance		,,, ^{et} ×
Basic Details		
Parameter Code * Maximum_Report_Age_For_New *	Parameter Description * Maximum Report Age to call Experian	
Product Processor * OFLO	Value *	
Audit		Save Cancel

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

Table 102: System Parameter Maintenance – Modify – Field Description.

Field Description					
Basic Details					
Parameter Code	Displays the created parameter code.				



Field	Description
Parameter Description	Displays the description for the created parameter.
Product Processor	Displays the product processor of the created parameter.
Value	Displays the value of the parameter.

- 10. Click save to update the modified fields.
- 11. Click to view the created parameter code. The fields are displayed in **System Parameter Maintenance** screen.

Figure 116 : System Parameter Maintenance - View

System Parameter Maintenance	,* ×
Basic Details	
Parameter Code * Maximum_Report_Age_For_New_Call	Parameter Description * Maximum Report Age to call Experian
Product Processor * OFLO	Value * 4
Audit	

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

Table 103: System Parameter Maintenance- View – Field Description.

Field	Description
Basic Details	
Parameter Code	Displays the created parameter code.
Parameter Description	Displays the created parameter description.
Product Processor	Displays the product processor of the created parameter.
Value	Displays the value for the created parameter.



Integrating Decision Service with Oracle Banking Routing Hub 3.39

3.39.1 Oracle Banking Routing Hub Configuration

Need to import existing service consumer and providers in the system. Service Consumer is oracle product, which invokes oracle banking routing hub API, oracle banking routing hub 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

Service Consumers		× ^{بر} م
Service Consumers		
🕂 Add	9	
Oracle_Service_Consumer I Page 1 of 1 (1 - 1 of 1 items) K <		

Figure 117: Service Consumers



Add Import search Q Oracle_Service_Consumer View igg 1 of 1 (1 - 1 of 1 items) K 1 Delete Export JSON Configuration SQL	Add Import search Oracle Service Consumer View Edit Edit Delete Export Export JSON	Service Consumers		
Oracle_Service_Consumer View age 1 of 1 (1 - 1 of 1 items) K < 1 Edit Delete Export JSON Configuration SQL	Oracle_Service_Consumer View Page 1 of 1 (1 - 1 of 1 items) K < 1 Edit Delete Export JSON Configuration SQL	Service Consumers		
i of 1 (1-1 of 1 items) K < 1 Delete Export JSON Configuration	Page 1 of 1 (1 - 1 of 1 items) K < 1 Delete Export Configuration SQL	🕂 Add 🔁 Import search	٩,	
i of 1 (1-1 of 1 items) K < 1	Page 1 of 1 (1 - 1 of 1 items) K < 1 Delete Export Configuration SQL			
gg 1 of 1 (1-1 of 1 items) K < 1 Delete Export JSON Configuration SQL	Page 1 of 1 (1-1 of 1 items) K < 1 Delete Export JSON Configuration SQL	Oracle_Service_Consumer	View	
Delete Export Configuration SQL	Delete Export JSON Configuration	Page 1 of 1 (1 - 1 of 1 items) K < 1	Edit	
Configuration SQL	Configuration SQL		Delete	
			Export JSON	
Request Audit	Request Audit		Configuration SQL	
			Request Audit	

Table 104: Oracle Banking Routing Hub 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
@ 2021	. 14	9	OR/

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

3.39.1.1 Add

You can create Service Consumer manually.

Navigation: Service Consumers -> Add

Figure 119: Add

Service Consumers					$_{\mu}$ \times
Service Consumers					
Add Import search No items to display. Page 1 of 0 (1 - 0 of 0 items) K < > 3	Add Service Consumer	255.		up to a maximum of at beginning.No space	
	Environment Variables Add Croup * select Actions Na No data to display.	me	Value		
			Save		

Table 105: Add

Component Name	Component Type	ls Manda tory	Data type	Validation	Comments
Name	Text Box	Yes	Alphanum eric with special characters	 Name cannot be blank Specify 0 or more characters, up to a maximum of 255 No numeric value at beginning and no space allowed 	Unique Service Consumer name
2021		150	1	(ORACL

Environme nt Variables	Table Content		
Save	Button		Saves the Service Consumer

3.39.1.1 Environment Variables

You can define the group of variables that can be accessed throughout the specific consumer's configuration.

Below is the syntax for accessing environment variables: \$env.Environment_Group_Name.Environment_Variable_Name such as : \$env.COMMON.BRANCH_CODE

Figure 120: Environment Variables

Service Consumers			, ¹
Service Consumers			
Add Import search No items to display. Page 1 of 0 (1-0 of 0 items) K < > ×	Add Service Consum	Value Savi	× ave

Figure 121: Environment Variables

Service Consumers				,* ×
Service Consumers				
Add import search No items to display.	Add Service Consumer	t	×	
Page 1 of0 (1-0 of0 items) K < > 3	c Add Environment Group		Enter 0 or more characters, up to a maximum of 255. No numeric value allowed at beginning.No space allowed.	
	Actions No data to display.	Name	Value	



ORACLE

Figure 122: Environment Variables

Service Consumers		" ² ×
Service Consumers		
Service Consumers • Ad	Add Service Consumer Name * G Add Environment Variable Value G Value	Enter 0 or more characters, up to a maximum of 255. No numeric value allowed at beginning No space allowed.
		Save

Table 106: Environment Variables

Component Name	Component Type	ls 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: So	ervice Consume	r -> Environme	ent Variables	-> 3 dot icon (c	peration menu)
Edit	menu option / icon				Pops up edit dialog
Delete	menu option / icon				Deletes group / variable
Environment	Group / Variable	L	I	L	
Name	Text Box	Yes	Alphanum eric with special characters	 Name cannot be blank Specify 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.
ОК	Button			Saves the group / variable and displays it in the list

3.39.1.2 Import

You 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 123: Import

Service Consumers		2 ³⁶ ×
Service Consumers		
Add Dimport search	٩	
No items to display.	Import Service Consumer	×
Раде 1 of0 (1-0 of0 items) К < > Э	File * Oracle_Service_Consumer_Consumer_is Select Name * Oracle_Service_Consumer Service Providers Name External_Product_Processor 1.0	Extract
		Import



Table 107: Import

Compone nt Name	Compone nt Type	ls Mandator y	Data type	Validation	Conditio n	Comment s
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	Alphanumeri c with special characters	 Name cannot be blank Specify 0 or more character s, up to a maximum of 255 No numeric value at beginning and no space allowed 	Editable	Unique
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



3.39.1.3 View

You can view consumer details and can switch to edit form by clicking on edit icon. Navigation: Service Consumers -> Operation Menu (3-dot icon) -> View

Figure	124: View
--------	-----------

Service Consumers			$_{\kappa}$ \times
Service Consumers	View Service Consumer	z ×	
Ad Import search Oracle_Service_Consumer	Name Oracle_Service_Consumer		
Page 1 of 1 (1-1 of 1 items) K < 1 > 3	COMMON COM COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMM		

3.39.1.4 Edit

You can modify the consumer details.

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

Figure	125:	Edit

Service Consumers				× ³⁶ 6
Service Consumers				
🕒 Add	Edit Service Consumer		×	
Oracle_Service_Consumer	Name * Oracle_Service_Consume			
	Environment Variables Add Group * select			
	Actions No data to display.	Name	Value	
			Save	



3.39.1.5 Delete

You can delete the consumer.

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

Figure 126: Delete

Service Consumers			× * *
Service Consumers			
🔂 Add 🛛 🎦 Import ora	٩		
Oracle_Service_Consumer			
Page 1 of 1 (1 - 1 of 1 items) K < 1	к		
		×	
	Do you want to delete the record?	1	
		Confirm Cancel	

3.39.1.6 JSON Export

You can export the consumer configuration as JSON file. Navigation: Service Consumers -> Operation Menu (3-dot icon) -> Export -> JSON

Figure 127: JSON Export	Figure	127:	JSON	Export
-------------------------	--------	------	-------------	--------

Service Consumers		$_{\mu}^{\nu}$ \times
Service Consumers		
Add Import ora	Export Service Consumer ×	
Page 1 of 1 (1-1 of 1 items) K < 1 > 3	Name Oracle_Service_Consumer Service Providers Name Esternal_Product_Processor 1.0 Export	

NOTE: You have an option to select service providers from the list that needs to be exported or can click on Select All option for all service providers.

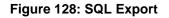
JSON Export feature will export below data:

- 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



3.39.1.7 SQL Export

You can export the consumer configuration as SQL file. Navigation: Service Consumers -> Operation Menu (3-dot icon) -> Export -> SQL



Service Consumers		$_{\mu}^{\nu \prime}$ \times
Service Consumers		
Add import ora		
Page 1 of1 (1-1 of1 items) K < 1	Confirm Cancel	

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

3.39.2 Service Providers

Service Providers are the product processors configure to process request send by oracle banking routing hub 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 129: Service Providers





Figure 130: Service Providers

Service Consumers		$_{\mu e} \times$
Oracle_Service_Consumer		
Service Providers Consumer Services		
Add import search	0	
External_Product_Processor :	View	
Version 1.0	Edit	
Type EXTERNAL Status ACTIVE	Delete	
	Export	
Page 1 of 1 (1 - 1 of 1 items) K < 1	Request Audit	

Table 108: Service Providers

Component Name	Component Type	Condition	Comments
<service Consumer></service 	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: Se	rvice Providers	s -> 3 dot icor	n (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



3.39.2.1 Add

You can create service provider manually. Navigation: **Service Providers-> Add**

Figure 131: Add

Service Consumers			× *,
Oracle_Service_Consumer			
Service Providers Consumer Services			
Add 🔁 import search	Add Service Provider	Enter 0 or more characters, up to a maximum of X	
External_Product_Processor	Product Name *	No numeric value allowed at beginning.No space allowed.	
Version 1.0 Type EXTERNAL Status ACTIVE	Version *	Active	
Page 1 of 1 (1 - 1 of 1 items) K <	 Headers Service 		
		Save	

Table 109: Add

Component Name	Component Type	ls Mandatory	Data type	Validation	Comments
Product Name	Text Box	Yes	Alphanumeric with special characters	 Name cannot be blank Specify 0 or more characters, up to a maximum of 255. No numeric value at beginning and no space allowed. 	Unique provider name
Туре	Combo Box One	Yes			Predefined Values: INTERNAL / EXTERNAL



Component Name	Component Type	ls Mandatory	Data type	Validation	Comments
Version	Text Box	Yes	Number	 Version cannot be blank Specify 0 or more characters, up to a maximum of 255. Specify 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



3.39.2.2 Headers

External product processor might require some standard headers to be passed along with the request.

You 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 oracle banking routing hub using the steps given below.

Figure 132: Headers

Service Consumers			× ×
Oracle_Service_Consumer	Add Service Provider	×	
Service Providers Consumer Services • Add • Import search	Product Name External_Prov Version * Name *	Enter 0 or more characters, up to a maximum of 255. No numeric value allowed at beginning.No space allowed.	
Dternal_Product_Processor Version 1.0 Type EXTERNAL Status ACTIVE Page 1 of 1 (1-1 of 1 items) K < 1	1.0 Value Add Actions No data to d Service		
		Save	

Figure 133: Headers

Service Consumers					× **
Oracle_Service_Consumer	Add Service Provider			×	
Service Providers Consumer Services	Product Name * External_Product_Processor Version * 1.0 # Headers			•	
Status ACTIVE Page 1 of 1 (1-1 of 1 items) K < 1	Add Actions i Edit ► S Delete	Name appld	Value CMNCORE	Save	

Table 110: Headers

Component Name	Component Type	ls Mandatory	Data type	Validation	Comments
Add	Button				Pops up add dialog
Edit	menu option				Pops up edit dialog
Delete	menu option				Deletes header





Component Name	Component Type	ls Mandatory	Data type	Validation	Comments		
Navigation: Service Providers -> Headers -> Add							
Name	Text Box	Yes	Alphanumeric with special characters	 Name cannot be blank Specify 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	 Value cannot be blank Specify 0 or more characters, up to a maximum of 255. No space allowed. 	Value either can be hardcoded or can be Velocity mapping.		
ок	Button				Saves the header details and displays it in the list		



3.39.2.3 Service

Figure 134: Service

Service Consumers		$_{\mu}^{\mu}$ \times
Oracle_Service_Consumer		
Service Providers Consumer Services		
Add 🔁 Import search	Add Service Provider ×	
External_Product_Processor Version 1.0 Type EXTERNAL Status ACTIVE	▶ Headers ✓ Service Type URL	
Page 1 of 1 (1-1 of 1 items) K <	WSDL * Import Service Operation EtValidLimitService (ElValidLimitServiceSEI) QueryValidLimitIO	
	Save	

Table 111: Service

Component Name	Component Type	ls Mandatory	Comments
Туре	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

3.39.2.4 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.



3.39.2.5 SWAGGER

Swagger is an Interface Description Language for describing RESTful APIs expressed using JSON.

Currently, Swagger 2.0 & Open API 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.

3.39.2.6 Import

You can create a service provider by importing the JSON file. Navigation: **Service Providers -> Import**

Figure 135: Import

Service Consumers	<i>ه</i> ر ×
Oracle_Service_Consumer	
Service Providers Consumer Services	
Add Dimport search Q	
External_Product_Processor :	
Version 1.0 Type EXTERNAL Status ACTIVE Page 1 of 1 (1-1 of 1 Rems) K < 1 > X	Import Service Provider × File * Select Import

Table 112: Import

Component Name	Component Type	ls 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



3.39.2.7 View

You can view provider details and can switch to edit form by clicking on edit icon. Navigation: Service Providers -> Operation Menu (3-dot icon) -> View

Service Consumers					, ² ×
Oracle_Service_Consumer					
Service Providers Consumer Services					
Add Simport search	View Service Provider		C	×	
External_Product_Processor Version 1.0 Type EXTERNAL Status ACTIVE Page 1 of1 (1-1 of 1 items) K	Product Name External_Product_Processor Version 1.0 Image: Headers	Type EXTERNAL Active On			
	Service Service FiValidI imitService (FIValidI imitServiceS	;FI)	Operation Otten://alirll imitIO		

Figure 136: Oracle Banking Routing Hub Configuration

3.39.2.8 Edit

You can modify the provider details.

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

Figure	137:	Edit

Service Consumers				** ×
Oracle_Service_Consumer				
Service Providers Consumer Services				
Add Dimport search	Edit Service Provider		×	
External_Product_Processor Version 1.0 Type EXTERNAL Status ACTIVE Page 1 of1 (1-1 of1 items) K <	Product Name * External_Product_Processor Version * 1.0 > Headers	Type * EXTERNAL Active		
	⊿ Service Type URL	_	Save	



3.39.2.9 Delete

You can delete the provider.

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

Figure 138: Delete

Service Consumers			$_{\mu^{k'}}$ \times
Oracle_Service_Consumer			
Service Providers Consumer Services			
Add import search	٩,		
External_Product_Processor :			
Version 1.0 Type EXTERNAL	CONFIRMATION	×	
Status ACTIVE	you want to delete the record?		
	you want to delete the record?		
Page 1 of 1 (1-1 of 1 items) K < 1		Confirm Cancel	

3.39.2.10 Export

You can export the provider configuration as JSON file.

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

Figure 139: Export

Service Consumers		" ² ×
Oracle_Service_Consumer		
Service Providers Consumer Services		
Add Simport search	٩	
External_Product_Processor Version 1.0 Type EXTERNAL Status ACTIVE Page 1 of 1 (1-1 of 1 items) K < 1	CONFIRMATION X Do you want to export? Note: Sensitive data such as implementation Host, Port and Password will not be exported Confirm Cancel	

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



3.39.3 Oracle FLEXCUBE Onboarding to Decision Service Configuration

3.39.3.1 Fetch Credit Decision

Figure 140: Fetch credit decision – Header

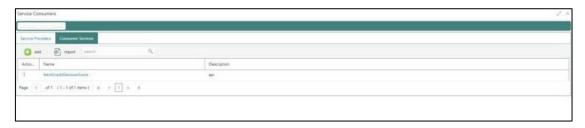
View Transf	formation				ø×
Name			Active		
# Product P	Processor				
Product Pro		Implementation		Service	
# Service					
Operation	ardinacation Deshifacation				
Actions	Name		Value		
4	appld				
1	userid		Carl Contains		
1	branchCode				
▶ PathParar	ms				
▶ QueryPar	ams				

Figure 141: Fetch credit decision - Transformation:

View Transformation	₿×
▶ Service	
▶ Headers	
▶ PathParams	
▶ QueryParams	
A Request Transformation	
Template Type	Template
VELOCITY	l \$(esc.q)context5(esc.q) : { \$(esc.q)productProcessor5(esc.q) : \$(esc.q)\$body.productProcessor5(esc.q). \$(esc.q)pschultBureauCallRequired.\$(esc.q)\$body.productProcessor5(esc.q). \$(esc.q)pschultBure5(esc.q)\$5(esc.q)\$body.postingDate5(esc.q). \$(esc.q)pschultBure5(esc.q)\$(esc.q)\$body.postingDate5(esc.q).
# Response Transformation	
Template Type	Template
VELOCITY	
Mocking required?	Mock Template
011	



Figure 142: Consumer Services



3.40 Decision Service

3.40.1 Overview

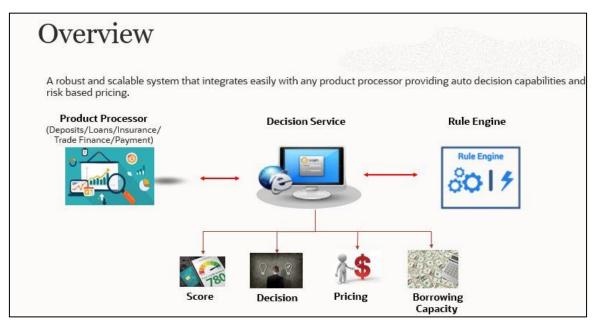
The decision service provides automatic decision making capabilities that can allow lenders to develop simple business processes and strengthen the decision-making process.

It gives flexibility to adjust the credit scoring model according to the lending policy.

When an organization calls the decision service to make a decision based on data attributes shared, system solves the best fit scoring model and provide scores and decisions.

Decision Service is a robust and scalable system that can be easily integrated with any product processor providing auto decision capability and risk based pricing.

Figure 143 : Decision Service Overview



Decision service can be called from various product processor such as Collections, Deposits, Loans, Insurance, Trade Finance or Payment etc. This product processor calls the decision service and the decision service intern uses the rule engine to configure various complex rules.

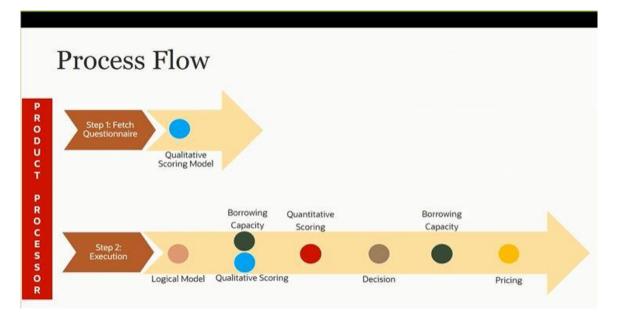
The decision service can calculate behavioral scores and suggest the best recommended collection strategy accordingly. For lending products, it can offer a credit score, a decision based on the score, the recommended rate of interest and the ability to calculate which is the maximum amount that can be borrowed by the applicant.



3.40.2 Process Flow

The below diagram depicts the entire process flow of how decision service works.

Figure 144 : Decision Service Process Flow



3.40.2.1 Questionnaire:

The first step is to get the questionnaire. The product processor sends the data of all the applicants in the application. A qualitative scoring model is resolved for each applicant and this information along with the details of the questionnaire is sent back to the product processor. The product processor captures the response to the questions and sends back as part of the second step which is the execution of the credit decision.

3.40.2.2 Logical Model:

First step in execution of the credit decision is logical screening. In this application pre screening is done to check the basic eligibility of the application as per the bank's policy. For example, if the bank's policy is not to fund to property in flood prone area, then as a part of this step, if the property is in flood prone area then the application will be rejected and the application will not be processed further. Or the applicants minimum age should be more then 18 and the applicant applying is of less than 18, in that case the application is rejected and it will not be processed further.

3.40.2.3 Borrowing Capacity:

Once eligibility is checked, the next step is borrowing capacity. This is the maximum loan amount the applicant is eligible for. The stage at which it is to be calculated depends on the configuration made. It can be calculated before the scoring after the decision. The loan amount considered for decision is minimum of requested loan amount or the amount calculated for scoring, decision and pricing.

3.40.2.4 Qualitative Score:

After borrowing capacity, the next step is qualitative scoring done using the feedback from the applicants for questionnaire.

3.40.2.5 Quantitative Score:

After qualitative scoring next step is quantitative scoring where scoring is done using application and bureau attributes such as salary, number of credit lines, bureau score etc.

3.40.2.6 Decision and Grade:

The decision on the application is done based on the quantitative and qualitative scores. The decision can be approve, manual or decline.

The borrowing capacity can also be calculated after the decision, in this case, the amount calculated will be used only for pricing.

3.40.2.7 Pricing:

The last step is to determine the recommended interest rate. This is a risk-based price that refers to offering different interest rates to different customers depending on their risk exposure.

3.40.3 Strategy Configuration

Decision service is used for multiple purposes such as borrowing capacity, borrowing capacity plus pricing, only pricing, only decision, logical plus decision etc. System should have an ability to configure the strategy like when the decision service is being called for borrowing capacity, should the request pass through the logical check. In addition, the product processor can configure different strategies for different product types or customer types. Strategy configuration allows the product processor to configure the strategy as per its requirements for all the modes for which decision service can be called. Separate strategy can be defined for origination, servicing or collection. In addition, multiple strategy can be defined for the same module like for origination i.e. multiple strategy can be defined. This maintenance allows the product processor to configure the strategy according to its need for all the modes for which the decision service can be

The various request types using which the product processor can call the decision service are mentioned below:

- Score, Decsion and Pricing
- Score and Decision
- Scores
- Pricing and Borrowing Capacity
- Pricing



- Borrowing Capacity
- Decision
- Qualitative Score
- Quantitative Score

3.41 Product Processor

The source system calling the decision system for decisioning the credit application is defined as product processor. There are multiple data segments like account information, customer details, collateral details, credit bureau information or any additional notes if any is received from the product processor for credit decisioning and pricing in decision service.

3.41.1 Create Product Processor

Using this screen, you can create product processor.

To create a Product Processor:

- 1. From Home screen, click Core Maintenance, Under Core Maintenance, click Credit Decision.
- 2. Under Credit Decision, click Maintenance.
- 3. Under Maintenance, click Product Processor.
- 4. Under Product Processor, click Create Product Processor.
 - \rightarrow The Create Product Processor screen is displayed.

Figure 145 : Create Product Processor

Create Product Processor		,," ×
Basic Details		
Product Processor Code *	Product Processor Description *	
Effective Date *	Expiry Date *	
		Save Cancel

5. On **Create Product Processor** screen, specify the fields. The fields, which are marked with asterisk, are mandatory. For more information on fields, refer to the field description table below.





Field	Description
Basic Details	
Product Processor Code	Specify the unique product processor code.
Product Processor Description	Specify a short description for the product processor.
Effective Date	Specify the effective date.
Expiry Date	Specify the expiry date.

6. Click Save.

The product processor is created successfully and can be viewed using the **View Product Processor** screen.

3.41.2 View Product Processor

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

To view created product processor:

- 1. From Home screen, click Core Maintenance. Under Core Maintenance, click Credit Decision.
- 2. Under Credit Decision, click Maintenance.
- 3. Under Maintenance, click Product Processor.
- 4. Under Product Processor, click View Product Processor.

→ The View Product Processor screen is displayed.



Figure 146 : View Product Processor

View Product Processor				× * ×
९ c +				■ =
Product Processor Code: : OFLO Product Processor Description:	Product Processor Code: PR20211001171034 Product Processor Description: Bunauthorized Description	Product Processor Code: PPRNEW20211001171092 Product Processor Description: Bunauthonized Processor Description:	Product Processor Code: OBC Product Processor Description: Authorized Popen	Product Processor Code: OFSLL Product Processor Description: Authorized Product Processor Description:
Product Processor Code: : OBP Product Processor Description: Code: :	Product Processor Code: : SKTEST1 : Product Processor Description:	Product Processor Code: : CMC : Product Processor Description:	Product Processor Code: PR20211004171093 Product Processor Description: Durauthorized Open	Product Processor Code: PPRNEW20211004171000 Product Processor Description: Product Processor Description: Product Processor Description: Product Processor Description:
Page 1 of 2 (1 - 10 of 15 items)	к (1 2 > м			

- 5. Click 🔍
- 6. Specify the search criteria to fetch the required product processor.

Figure 147 : View Product Processor - Search Option

View Product Processor				,, ² ×
Product Processor Code	Product Processor Description	Authorization Status	Record Status	
1		·		w
Search Reset				

7. Click Search.

Field	Description		
The following fields are displayed, once you click			
Product Processor Code	Specify the product processor code.		
Product Processor Description	Specify the product processor description.		
Authorization Status	Select the authorization status of the product processor. The options are:		
	AuthorizedUnauthorized		



Field	Description	
Record Status	Select the record status of the product processor.	
	The options are:	
	• Open	
	Close	

The following fields are displayed in the widget.

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

Table 115 : View Product Processor - Field Description

Field	Description
Product Processor Code	Displays the product processor code.
Product Processor Description	Displays the product processor description.

- 8. Click this icon ito modify, delete, authorize or view the created product processor.
- 9. To authorise the product processor, see the Error! Reference source not found..
- 10. Click to unlock and modify the following fields. The fields are displayed in the **Product Processor** Maintenance screen.
 - Product Processor Description
 - Effective Date, before authorization
 - Expiry Date

Figure 148 : Product Processor Maintenance – Modify

Product Processor Maintenance		× ⁴
Basic Details		
Product Processor Code *	Product Processor Description *	
OFLO	OFLO	
Effective Date *	Expiry Date *	
Sep 1, 2020	May 6, 2025	
Audit		Save Cance



Field	Description		
Once you click the ⁶ option, the following fields are displayed in the Product Processor Maintenance screen.			
Basic Details			
Product Processor Code	View the product processor code.		
Product Processor Description	View the product processor description.		
Description	You can modify the same.		
Effective Date	View the effective date of product processor.		
	You can modify the same before authorization if it is future dated.		
Expiry Date	View the expiry date of product processor.		
	You can modify the same.		

Table 116 : Product Processor Maintenance - Modify - Field Description

- 11. Click **Save** to update the modified fields.
- 12. Click to view the created product processor. The fields are displayed in **Product Processor Maintenance** screen.

Figure 149 : Product Processor Maintenance – View

Product Processor Maintenance		, ² ×
Basic Details		
Product Processor Code * OFLO	Product Processor Description * OFLO	
Effective Date * Sep 1, 2020	Expiry Date * May 6. 2025	
Audit		

 Table 117 : Product Processor Maintenance - View - Field Description

Field	Description		
Once you click the Product Processor M	option, the following fields are displayed in the aintenance screen.		

Field	Description
Basic Details	
Product Processor Code	View the product processor code.
Product Processor Description	View the product processor description.
Description	You can modify the same.
Effective Date	View the effective date of the created product processor.
Expiry Date	View the expiry date of the created product processor.

3.42 Lookups

Lookups 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 are 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: Like Credit Bureau 1, Credit Bureau 2 and Credit Bureau 3.
 - o Comparison Operator: Equals, Greater than.
- Dependent lookups based on another selection
 - o Based on Country, State should have different values in the lookup.
 - Based on Country, Currency should have different values in the lookup.

3.42.1 Create Lookups

Using this screen, you can create lookup definitions by updating various details.

To create lookups:

- 1. From Home screen, click Core Maintenance. Under Core Maintenance click, Credit Decision.
- 2. Under Credit Decision click, Maintenance.
- 3. Under Maintenance, click Lookups.
- 4. Under Lookups, click Create Lookups.
 - → The Create Lookups screen is displayed.

Figure 150 : Create Lookups Screen

Create Lookups			2 ⁸ ×
Basic Details			
Lockup Type *	Þ	escription *	
Lookup Codes			
Lookup Code	Description	Sort Order	Dependent Identifier Enable
No data to display.			1
			Save Cancel

5. On **Create Lookups** screen, specify the fields. The fields, which are marked with asterisk, are mandatory.

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

Field	Description
Basic Details	
Lookup Type	Specify the unique lookup type name.
Description	Specify the short description for lookup.
+ icon	Click this icon to add a new row.
- icon	Click this icon to delete a row, which is already added.
Lookup Code	Specify the unique lookup code.
Description	Specify the short description for lookup.
Sort Order	Specify the sort order.
Dependent Identifier	Specify the dependent Identifier.
Enable	By default, this option is enabled. Indicates if the lookup is enabled or not.

Table 118 : Create Lookups - Field Description

6. Click Save.

The lookups is successfully created and can be viewed using the **View Lookups** screen.



3.42.2 View Lookups

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

To view created lookups:

- 1. From Home screen, click Core Maintenance. Under Core Maintenance click, Credit Decision.
- 2. Under Credit Decision click, Maintenance.
- 3. Under Maintenance, click Lookups.
- 4. Under Lookups, click View Lookups.
 - \rightarrow The **View Lookups** screen is displayed.

Figure 151 : View Lookups

ч с +					∎ =
Lookup Type: CUSTCATEGORY Description: CustomerCategory	Lookup Type: AGE Description: Age	Lookup Type: sktest5 Description: sktest5	Lookup Type: sktest2 Description: sktest2	Lookup Type: MATHS Description: Arithmetic Operati	Lookup Type: LogicalModel Description: LogicalModel
Authorized 🔒 Open	Authorized	Drauthorized 🔒 Open	Authorized 🔒 Open	🏷 Authorized 🔒 Open	Authonized 🔒 Open
Lookup Types E Inclustry Description: Industry	Lookup Type: PricingDecision Description: Pricing Decision	Lookup Type: grade Description: Grade	Lookup Type: RangeType Description: Range Type		
Reference Authorized 🔒 Open	🇞 Authorized 🔒 Open	Authorized 🔒 Open	Authorized 🔒 Open		
Page 1 of 4 (1 - 10 of 33 kems)	K (1 2 3 4 > M				

- 5. Click
- 6. Specify the search criteria to fetch the required lookups.

Figure 152 : View Lookups- Search Option

View Lookups			, × ×
Lookup Type	Authorization Status	Record Status	
Search Reset			

7. Click Search.

Field	Description		
The following fields are displayed, once you click			
Lookup Type	Displays the lookup type.		
Authorization Status	Select the authorization status of the lookups.		
Status	The options are:		
	Authorized		
	Unauthorized		
Record Status	Select the record status of the lookups.		
	The options are:		
	• Open		
	Close		

Table 119 : View Lookups - Search Option - Field Description

The following fields are displayed in the widget.

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

Table 120 : View Product Processor - Field Description

Field	Description
Lookup Type	Displays the lookup type.
Description	Displays the description of the lookup.

8. Click three dot icon to unlock, delete, authorize or view the created lookups.

9. Click ^O unlock to modify the following fields. The fields are displayed in the **Lookup Maintenance** screen.

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



Figure 153 : Lookup Maintenance - Modify

гоокир і	Maintenance			2 ⁴
Basic Det	tails			
Lookup CUSTC	Type * Ategory	Description * CustomerCategory		
Lookup C	odes			
- 4	ookup Code	Description	Sort Order	Dependent Identifier Enable
		Production of the second	aut order	Dependent identifier Enable
	SILVER	Silver	1	
3				
	SILVER	Silver	т	
	GOLD	Silver Gold	1	
	SLVER GOLD	Silver Gold HighNetworthind	1 2 3	

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

Table 121 : Lookup Maintenance - Modify - Field Description

Field	Description
Basic Details	
Lookup Type	Displays the lookup type.
Description	Displays the description of the lookup.
	You can modify the same.
Lookup Codes	
+ icon	Click this icon to add a new row.
- icon	Click this icon to delete a row, which is already added.
Lookup Code	Displays the lookup code for the created lookups.
	You can modify the same.
Description	Displays the description for the created lookups.
	You can modify the same.
Sort Order	Displays the sort order for the created lookups.
	You can modify the same.
Dependent Identifier	Displays the dependent identifier for the created lookups.
	You can modify the same.
Enable	Indicates if the lookup is enabled or not.
	You can modify the same.

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



11. Click to view the created lookup code. The fields are displayed in **Lookup Maintenance** screen.

Lookup Maintenance					," ×
Basic Details					
Lookup70p# " Lookup00208		Description * Lookup Desc 12			
Lookup Codes					
Lookup Code	Description		Sort Order	Dependent Identifier	Enable
LC0002	Lookup code		1	Code	\bigcirc
Audit					

Figure 154 : Lookup Maintenance – View

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

Table 122 : Lookup Maintenance - View - Field Description



3.43 Parameters

Parameters define the information or values used throughout the system and drives the behavior of the features. They control the way task is executed, or whether the system performs a particular task. Some of the parameters are set when the system is installed, but the values associated with the parameter needs to be reviewed and is to be maintained.

Example:

- Set minimum days to pull credit bureau report from same bureau from initial pull.
- Credit bureau report purge days.

3.43.1 Create Parameters

Using this screen, you can create parameters by updating various details.

To create parameters:

- 1. From Home screen, click Core Maintenance. Under Core Maintenance click, Credit Decision.
- 2. Under Credit Decision click, Maintenance.
- 3. Under Maintenance, click Parameters.
- 4. Under Parameters, click Create Parameters.
 - \rightarrow The **Create Parameter** screen is displayed.

Figure 155 : Create Parameters

Create Parameters	د مر
Sasic Details	
Parameter Code * Select:	Parameter Description *
Product Processor *	Value *
	Save Cancel

5. On Create Lookups screen, specify the fields. The fields, which are marked with asterisk, are mandatory.

Field	Description
Basic Details	
Parameter Code	Select the parameter code from the drop-down list.
Parameter Description	Specify a short description for the parameter code.
Parameter Description	Specify a short description for the parameter code.
Value	Specify the value for the parameter code.

Table 123 : Create Parameters - Field Description

6. Click Save.

The parameters is successfully created and can be viewed using the View Parameters screen.

3.43.2 View Parameters

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

To view created parameters:

- 1. From Home screen, click Core Maintenance. Under Core Maintenance click, Credit Decision.
- 2. Under Credit Decision click, Maintenance.
- 3. Under Maintenance, click Parameters.
- 4. Under Parameters, click View Parameters.

→ The View Parameters screen is displayed.

Figure 156 : View Parameters

View Parameters						$_{\mu^{t'}}$ \times
ч с +						
Parameter Codet : CDS_GRADE : Description: CDS,GRADE Product Processor: OR.0 Authorized Open	Parameter Code: Requested_Amount Description: Requested_Amount Product Processor: OR:0 Authorized a Open	Parameter Code: : quantitativeScore : Description: quantitativeScore Product Processor: OR:0 Authorized în Open	Parameter Code: decision : Description: decision Product Processor: ORO & Authorized Open	Parameter Codet : MaxDays : Description: Maximum Days, Cr Product Processor: OR:0 : Authorized : Open	Parameter Code: DefaultCurrency Description: Default Currency Product Processor: OR:0 Multiplication Authorized Den	
Razmeter Code : qualitativeScore : Descriptor qualitativeScore Product Processor OFID Autorizat a Copen Rage 1 of1 (1-9 of 9 items)	Parameter Code: applicant_score Decention: applicant_score Product Processor OND	Parameter Colds : applicant_score : Description speliant_score : Product Processor: OVC E€ Unauthorized				



- 5. Click
- 6. Specify the search criteria to fetch the required lookups.

Figure 157 : View Parameters- Search Option

View Parameters			,,** ×
Parameter Code	Authorization Status 👻	Record Status	

7. Click Search.

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

Table 124 : View Parameters - Field Description

Field	Description	
The following fields are displayed, once you click		
Parameter Code	Displays the parameter code.	
Authorization Status	Select the authorization status of the parameters.	
Status	The options are:	
	Authorized	
	Unauthorized	
Record Status	Select the record status of the parameters.	
	The options are:	
	• Open	
	Close	

The following fields are displayed in the widget.

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

Table 125 : View Parameters - Field Description

Field	Description	
Parameter Code	Displays the parameter code.	
Description	Displays the description of the parameter code.	
Product Processor	Displays the product processor of the parameter.	

8. Click this icon it to unlock, delete, authorize or view the created parameters.

- 9. Click ^O unlock to modify the following fields. The fields are displayed in the **System Parameter Maintenance** screen.
 - Product Processor
 - Value

Figure 158 : System Parameter Maintenance – Modify

System Parameter Maintenance		,, st ×
Basic Details		
Parameter Code * Maximum_Report_Age_For_New Product Processor * OFLO	Parameter Description * Maximum Report Age to call Experian Value * 4	
Audit	Sav	e Cancel

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

Field	Description	
Basic Details		
Parameter Code	Displays the created parameter code.	
Parameter Description	Displays the description for the created parameter.	
Product Processor	Displays the product processor of the created parameter. You can modify the same.	
Value	Displays the value of the parameter.	
Value	You can modify the same.	

Table 126 : System Parameter Maintenance - Modify - Field Description

10. Cick **Save** to update the modified fields.

11. Click to view the created lookup code. The fields are displayed in **System Parameter Maintenance** screen.



Figure 159 : System Parameter Maintenance – View

System Parameter Maintenance	, ² ×
Basic Details	
Parameter Code * Maximum_Report_Age_For_New_Call	Parameter Description * Maximum Report Age to call Experian
Product Processor *	Value *
OFLO	4
Audit	

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

Field	Description
Basic Details	
Parameter Code	Displays the created parameter code.
Parameter Description	Displays the created parameter description.
Product Processor	Displays the product processor of the created parameter.
Value	Displays the value for the created parameter.

Table 127 : S	vstem Parameter	Maintenance - Vi	iew - Field Description
	yotom i arameter		

3.44 Strategy Configuration

Decision service is used for multiple purposes such as borrowing capacity, borrowing capacity plus pricing, only pricing, only decision, logical plus decision etc. System should have an ability to configure the strategy like when the decision service is being called for borrowing capacity, should the request pass through the logical check. In addition, the product processor can configure different strategies for different product types or customer types. Strategy configuration allows the product processor to configure the strategy as per its requirements for all the modes for which decision service can be called. Separate strategy can be defined for origination, servicing or collection. In addition, multiple strategy can be defined. This maintenance allows the product processor to configure the strategy can be product processor to configure the strategy can be defined. This maintenance allows the product processor to configure the strategy according to its need for all the modes for which the decision service can be called for.



3.44.1 Create Strategy Configuration

Using this screen, you can configure the strategy as per the requirement.

To create Strategy Configuration:

- 1. From Home screen, click Core Maintenance. Under Core Maintenance click, Credit Decision.
- 2. Under Credit Decision click, Maintenance.
- 3. Under Maintenance, click Strategy Configuration.
- 4. Under Strategy Configuration, click Create Strategy Configuration.

 \rightarrow The Create Strategy Configuration screen is displayed.

Figure 160 : Create Strategy Configuration

Create Strategy Configuration	ی پر
Basic Details	
Strategy Code *	Strategy Code Description *
Product Processor *	Product Processor Description *
Industry *	Line of Business *
Account Category * Asset Lability	Module *
Effective Date *	Eppry Date *
_	
Additional Information	
I Туре	Value -
No data to display.	
Modes	
Borrowing Capacity Decision & Grade Pricing Qualitative Score Quantitative Score Score	Score & Decision 🗌 Score, Decision & Pricing

5. On **Create Strategy Configuration** screen, specify the fields. The fields, which are marked with asterisk, are mandatory.

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

Table 128 : Create Strategy Configuration - Field Description

Field	Description	
Basic Details		
Strategy Code	Specify the unique strategy code.	
Strategy Code Description	Specify a short description for the strategy code.	
Product Processor	Specify the product processor for which the strategy is being configured.	
Product Processor Description	Displays the product processor description.	



ORACLE

Field	Description	
Industry	Select the industry type from the drop down list.	
	The values are configurable based on the lookup values maintained.	
	The options are:	
	Banking Industry	
	Insurance	
	Trade Finance	
Line of Business	Select the line of business type from the drop down list. The values are configurable based on the lookup values maintained.	
	The options are:	
	Corporate	
	Retail	
	SMEnt	
Account Category	Indicates whether the strategy created is for asset or liabilities.	
Module	Select the module from the drop down list. The values are configurable based on the lookup values maintained.	
	The options are:	
	Collection	
	Origination	
	Servicing	
Effective Date	Specify the effective date.	
Expiry Date	Specify the expiry date.	
Additional Information) on	
+ icon	Click this icon to add new facts.	
- icon	Click this icon to delete a row, which is already added.	
Туре	Select the fact type from the drop down list.	
Value	Select the value configured for the fact type from the drop down list. The values are configurable based on the lookup values maintained.	

Field	Description	
Modes	Select the modes from the list.	
	The options are:	
	Borrowing Capacity	
	Decision & Grade	
	Pricing	
	Qualitative Score	
	Quantitative Score	
	Score	
	Score & Decision	
	Score, Decision & Pricing	
	If the Module is selected as Collection , then below options are available.	
	The options are:	
	Decision and Grade	
	Qualitative Score	
	Quantitative Score	
	Score	
	Score and Decision	
Steps	Steps are defined based on the modes selected.	
	For example:	
	If Borrowing Capacity mode is selected, the check box for borrowing capacity is by default selected and disabled, you can select the other steps.	

6. Click Save.

The strategy configuration is successfully created and can be viewed using the **View strategy Configuration** screen.



3.44.2 View Strategy Configuration

Using this screen, you can view the strategy configuration created using the **Create Strategy Configuration** screen. The status of the created criteria is displayed as **Unauthorized** and **Open**. Once the checker authorizes the parameter, the status is updated to **Authorized** and **Open**.

To view created strategy Configuration:

- 1. From Home screen, click Core Maintenance. Under Core Maintenance click, Credit Decision.
- 2. Under Credit Decision click, Maintenance.
- 3. Under Maintenance, click Strategy Configuration.
- 4. Under Strategy Configuration, click View Strategy Configuration.

 \rightarrow The View Strategy Configuration screen is displayed.

Figure 161 : View Strategy Configuration

View Strategy Configuration							×* ×
ч с +							
Strategy Code: OFLC032 ± Strategy Description: OFL0012 Product Processor: OFL0 & Authorized Open	Strategy Code: OFLO042 : Strategy Description: OFLO042 Product Processor: OFLO & Authorized & Copen	Strategy Code: OFLO022 : Strategy Description: OFLO022 Product Processor: OFLO & Authorized @ Open	Strategy Code: OFL0015 : Strategy Description: OFL015 Product Processor: OFL0 Code: Open	Strategy Code: : OFL0029 : Strategy Description: OFL0029 Product Processor: OFL0 By Unauthorized Open	Strategy Carlet OFLO051 : Strategy Description: OFL0051 Product Processor: OFL0 & Authorized @ Open	Strategy Codic : : OFL0007 : : Strategy Description: Strategy Product Processor: OFL0 Authorized	
Storang Code: 1 ORIGO10 3 Varing Dearlows: 09(2010) Rodat Rosses: 01(2 Autorial a Com Fage 1 of 5 (1-10 of 42 litems)	Banny Colc. : CHIOMO Product Processor CHIOMO Product Processor CHIO Autorization → Open K < 1 2 3 4 5 2	teeng Cale: CHLOOGO Subup Deceptor: States Cale Paduat Nonsee: ChU Autorize ChU Autorize ChU Opm Opm Opm					

Q 5. Click

6. Specify the search criteria to fetch the required strategy configuration.

Figure 162 : View Strategy Configuration- Search Option

View Strategy Configuration				$_{\mu^{d'}}$ \times
Strategy Code	Strategy Description	Authorization Status	Record Status	
Search Reset				

7. Click Search.

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

Table 129 : View Strategy Configuration – Search Option - Field Description

Field	Description
The following fields are	e displayed, once you click

Field	Description	
Strategy Code	Specify the strategy code.	
Strategy Description	Specify the strategy description.	
Authorization Status	Select the authorization status of the parameters.	
Status	The options are:	
	Authorized	
	Unauthorized	
Record Status	Select the record status of the parameters.	
	The options are:	
	• Open	
	Close	

The following fields are displayed in the widget.

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

Table 130 : View Strategy Configuration - Field Description

Field	Description
Strategy Code	View the strategy code.
Strategy Description	View the strategy description.
Product Processor	View the product processor.

- 8. Click this icon ito unlock, delete, authorize or view the created strategy configuration.
- 9. To authorize the strategy configuration, see the Authorization process.
- 10. Click ⁶ unlock to modify the following fields. The fields are displayed in the **Strategy Configuration Maintenance** screen.
 - Expiry Date
 - Fact Type and Value
 - Modes
 - Steps



Figure 163 : Strategy Configuration Maintenance – Modify

Strategy Configuration Maintenance		$\mu^{\mu} \propto$
Basic Details		
Strategy Code *	Strategy Code Description *	
Children -	OFLODZ9	
Product Processor*	Product Processor Description *	
orio +	010	
Industry *	Line of Business *	
Banking T	Real +	
Account Category *	Module *	
Accet Liability	Origination *	
Effective Cate *	Expiny Date *	
Sep 30, 2020	5ep 28, 2022	
Additional Information		
■ 7)p4	Value	
	* 18	
- A94	• 18	
Modes		
Select the Modes to configure as par requirement		
BonowingCapacity DecisionGrade Pricing 🗸 QualitativeScore QuantitativeScore Score 🖌 ScoreDecision		
and a consider and a consider and a consider	_ Additional many	
Steps		
. Notes		
The mandatory steps are by default checked and disabled. The optional steps are enabled and unchecked. The user can decide which steps no	to be configured for a mode.	
A Qualitative Score		
100 Lookal - 2 20 Chalanae Sona		

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

Field	Description	
Once you click the ⁶ unlock option, the following fields are displayed in the Strategy Configuration Maintenance screen.		
Basic Details		
Strategy Code	View the strategy code.	
Strategy Code Description	View the strategy code description.	
Product Processor	View the product processor for the created strategy configuration.	
Product Processor Description	View the product processor description for the created strategy configuration.	
Industry	View the industry for the created strategy configuration.	
Line of Business	View the line of business for the created strategy configuration.	
Account Category	View the account category for the created strategy configuration.	
Module	View the module for the created strategy configuration.	
Effective Date	View the effective date for the created strategy configuration.	

Table 131 : Strategy Configuration Maintenance - Modify - Field Description



Field	Description	
Expiry Date	View the expiry date for the created strategy configuration.	
	You can modify the same.	
Additional Information	n	
Туре	View the fact type for the created strategy configuration.	
Value	View the fact value for the created strategy configuration.	
Steps	View the steps defined for the created strategy configuration.	
	You can modify the same.	

- 11. Click **Save** to update the modified fields.
- 12. Click to view the created lookup code. The fields are displayed in **Stretegy Configuration Maintenance** screen.

trategy Configuration Maintenance		
asic Details		
Strategy Code *	Strategy Costs Description *	
	08.0029	
Product Processor *	Product Processor Description *	
	00.0	
ndustry *	Line of Business *	
Banking T	Retal +	
Account Category *	Module *	
Accet Liability	Organitan +	
Effective Date *	Broly Date *	
Sep 80, 2020	Sep 28, 2022 前	
Type	New Control of Control	
C 494	* [#	
des		
Select the Modes to configure as par requirement		
🗆 BomowegCapacity 📃 DecisionGrade 🔛 Pricing 🐱 QualitativeScore 🛄 QuaritativeScore	Scare 🛩 ScareBension 👘 ScareBensionHisting	
xps		
Now The mandatory steps are by default checked and disabled. The optional steps are enabled and unchecked. The	or can disards which table react to be configured for a mode.	
Qualitative Score		

Figure 164 : Strategy Configuration Maintenance – View

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

Table 132 : Strategy Configuration Maintenance - View - Field Description

Field	Description	
Once you click the view option, the following fields are displayed in the Strategy Configuration Maintenance screen.		
Basic Details		
Strategy Code	View the strategy code.	



Field	Description	
Strategy Code Description	View the strategy code description.	
Product Processor	View the product processor for the created strategy configuration.	
Product Processor Description	View the product processor description for the created strategy configuration.	
Industry	View the industry for the created strategy configuration.	
Line of Business	View the line of business for the created strategy configuration.	
Account Category	View the account category for the created strategy configuration.	
Module	View the module for the created strategy configuration.	
Effective Date	View the effective date for the created strategy configuration.	
Expiry Date	View the expiry date for the created strategy configuration.	
Additional Information		
Туре	View the fact type for the created strategy configuration.	
Value	View the fact value for the created strategy configuration.	
Steps	View the steps defined for the created strategy configuration.	

3.45 Logical Model

During credit decision, system evaluates a credit score that represents the creditworthiness of an individual. Banks also do an initial evaluation by using some rules to decide whether to proceed with credit decisioning process or not. A bank can perform this evaluation by maintaining a logical model. Multiple levels of rule can be setup in logical model. The system will process the next step of credit decisioning only if all the rules are satisfied. If any rule fails, then system will stop the processing and decline the request.



3.45.1 Create Logical Model

Using this screen, you can create logical model based on the various input.

You can configure the strategy as per the requirement.

To create Logical Model:

- 1. From Home screen, click Core Maintenance. Under Core Maintenance click, Credit Decision.
- 2. Under Credit Decision click, Maintenance. Under Maintenance, click Logical Model.
- 3. Under Logical Model, click Create Logical Model.

 \rightarrow The Create Logical Model screen is displayed.

Figure 165 : Create Logical Model

Create Logical Model		2 ^{4°} ×
Basic Details		
Logical Model Code *	Logical Model Description *	
Effective Date *	Expiry Date *	
Product Processor * Select •	Priority *	
Selection Criteria Logical Model		
Use Existing Rule Create New Rule		
Rules		
Rula Code * Select *	Rule Name	
		Save Cancel

4. On **Create Logical Model screen**, specify the fields. The fields, which are marked with asterisk, are mandatory.

Table 133 : Create Logical Scoring Model - Field Description

Field	Description		
Basic Details			
Logical Model Code	Specify the unique logical model code.		
Logical Model Description	Specify a short description for the logical model.		
Effective Date	Specify the effective date.		
Expiry Date	Specify the expiry date.		
Product Processor	Specify the product processor for which the logical model is being defined.		
Priority	Specify the priority for the logical model.		



5. Click the **Selection Criteria** tab to define selection criteria rules for logical model.

Figure 166 : Create Logical Scoring Model - Selection Criteria

ic Details			
Approx1 Model Code MC03 * vg2 2021 module Processor PFLO		Logical Model Description * Scaling Model Expiry Date * Aug 24, 2021 fill Priority * 1	
Selection Criteria Logical Model Use Existing Rule Crease New Rule Rules			
Rules Rule Code * MLA3		Rule Name MLA1	
New			
Rules			
Code " MLA3	Description MLA1		

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

Field	Description	
The following fields ap	pear if you click the Selection Criteria Tab	
Use Existing Rule	By default, this option is enabled. Indicates if the existing rule is linked.	
Rules		
Rule Code	Select the rule code from the drop down list.	
0	Click this icon to get the information about the rule.	
Rule Name	View the rule name.	
Create New Rule	Select this option to create new rule.	
Rules		
Code	Specify the rule code.	
Description	Specify the rule description.	
Expression Builder		
+ icon	Click this icon to add new expression.	
Fact / Rules	Select the fact or rule from the drop-down list.	
	Once you select the fact/rules one more field opens adjacent to the output, update the same based on the selected output option.	

Table 134 : Create Logical Scoring Model – Selection Criteria - Field Description



Field	Description		
Operator	Select the comparison operator from the drop-down list.		
	The options are:		
	• <		
	• >		
	• +		
	• =		
	• %		
	• !=		
	• -		
	• >=		
	• <=		
	• *		
	• /		
	Contains		
	• In		
	• Like		
	Matches		
	Notmatches		
	Notcontains		
	Notin		



Field	Description			
Data Type	Select the data type for the fact or rule. Once you select the data type one more field opens adjacent to the output, update the same based on the selected output option.			
	The options are:			
	• Text			
	Number			
	Boolean			
	Date			
	• Fact			
	Rules			
	The below option appears if the Data Type is selected as Boolean .			
	• True			
	False			
Output	Select the output from the drop-down list. Once you select the output one more field opens adjacent to the output, update the same based on the selected output option. The options are: • Text			
	Number			
	• Boolean			
	Date			
	Fact			
	Rule			
	The below option appears if the Data Type is selected as Boolean .			
	• True			
	False			
Expression	View the expression updated in the expression builder.			

6. Click the Logical Model tab to define various logical modeling rules



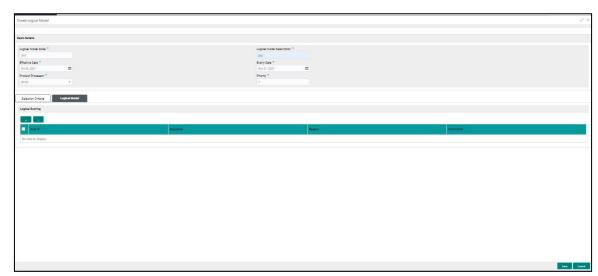


Figure 167 : Create Logical Model – Logical Model Tab

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

Field	Description		
The following fields ap	The following fields appear if you click the Logical Model Tab		
+ icon	Click this icon to add a new row.		
- icon	Click this icon to delete a row, which is already added.		
Rule ID	Select the rule ID from the drop down list.		
	All rules configured in the rule engine for the selected product processor are obtained.		
0	Click this icon to get the information about the rule.		
Sequence	Specify the sequence of execution of rules.		
Reason	Select the reason from the drop down list.		
Comments	Specify the comments.		

7. Click Save

The logical model is successfully created and can be viewed using the **View Logical Model** screen.



3.45.2 View Logical Model

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

To View Logical Model:

- 1. From Home screen, click Core Maintenance, Under Core Maintenance, click Credit Decision.
- 2. Under Credit Decision, click Maintenance.
- 3. Under Maintenance, click Logical Model.
- 4. Under Logical Model, click View Logical Model.
 - → The View Logical Model screen is displayed.

Figure 168 : View Logical Model

Cade: 1 Egginal Made Code: 1 Egginal Made Code: 1 Unignal Made Code: 1
al (ym B) sandwind al (ym B) Adwind al (ym
(1.1411mm) 8 5 2 3 8
0

- 5. Click .
- 6. Specify the search criteria to fetch the required logical model.

Figure 169 : Logical Model- Search Option

View Logical Model				2 ⁴ ×
Logizzi Model Code	English Model Description	Authoritation Statue	Record Status *	

7. Click Search.



Field	Description		
The following field	s are displayed, once you click		
Logical Model Code	Specify the logical model code.		
Logical Model Description	Specify the description of the logical model.		
Authorization	Select the authorization status of the logical model.		
Status	The options are:		
	Authorized		
	Unauthorized		
Record Status	Select the record status of the logical model.		
	The options are:		
	• Open		
	Close		

Table 136 : View Logical Model -Search Option- Field Description

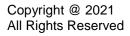
8. The following fields are displayed in the widget.

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

Table 137: View Logical Model – Field Description.

Field	Description
Logical Model Code	View the logical model code.
Logical Model Description	View the logical model description.
Product Processor Code	View the product processor code.

- 9. Click this icon it to unlock, delete, authorize or view the created logical scoring model.
- 10. Click ^O unlock to modify the following fields. The fields are displayed in the **Logical Model Maintenance** screen. The following fields are editable during unlock.
 - Logical Model Description
 - Effective date before authorization
 - Expiry date
 - Add new fact or rule to the selection criteria
 - Modify the rule in logical model tab





• Modify the sequence, reason or comments in logical model tab

Figure 170 : Logical Model Maintenance - Modify

Model Maintenance				
tails				
I Model Code *		Logical Model Description * Logical Model LMC102		
ve Date * 0. 2020 (1) 1 Processor *		Expiny Date * Oct 31, 2021 Priority *		
t Processor		5		
tion Criteria				
ixisting Rule 📄 Create New Rule				
e Code * 310 * 0		Rule Name Rule Product code HMLN34		
New				
Rules				
Code * RL310	Description Rule Product code HMLN34	Select Existing rule	Rule Version	q

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

Field	Description	
Basic Details		
Logical Model Code	View the created logical model code.	
Logical Model Description	View the description for the created logical model.	
Description	You can modify the same.	
Effective Date	View the effective date for the created borrowing capacity.	
	You can modify the same, if the date is future dated.	
Expiry Date	View the expiry date for the created logical model.	
	You can modify the same.	
Product Processor	View the product processor of the created logical scoring model.	
Priority	View the priority of the logical model.	
	You can modify the same.	
Selection Criteria		
Use Existing Rule	By default, this option is enabled. Indicates if the existing rule is linked.	
Rules		
Rule Code	View the rule code.	

 Table 138: Logical Model Maintenance – Modify – Field Description.



Field	Description		
0	Click this icon to get the information about the rule.		
Rule Name	View the rule name.		
Create New Rule	Indicates if the new rule is created.		
Rules			
Code	View the rule code.		
Description	View the rule description		
Expression Builde	r		
Fact / Rules	View the fact/rules of the created logical model.		
Operator	View the comparison operator of the created logical model.		
Data Type	View the data type for the fact or rule of the created logical model.		
Output	View the output of the created logical model.		
Expression	View the expression updated in the expression builder of the crated logical model.		
Logical Model			
Rule ID	View the rule ID of the created logical model.		
	You can modify the same.		
0	Click this icon to get the information about the rule.		
Sequence	View the sequence of the created logical model.		
	You can modify the same.		
Reason	View the reason of the created logical model.		
	You can modify the same.		
Comments	View the comments of the created logical model.		
	You can modify the same.		

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

12. Click to view the created logical model. The fields are displayed in Logical Model Maintenance screen.



Figure 171 : Logical Model Maintenance - View

Logical Model Maintenance		»" ×
Basic Details		
Logical Model Code * LMCI01 Effective Date * Sep 15.2020 Phodus Processor * OFLO	Logical Model Description " LMC00 Epring Date " Aug 10, 2022 Printy " 1	
Selection Criteria Logical Model Use bitting Rule Craste New Rule Rules		
Rule Code " Select	Rule Name	
Audit		

Field	Description	
Basic Details		
Logical Model Code	View the created logical model code.	
Logical Model Description	View the created logical model description.	
Effective Date	View the effective date.	
Expiry Date	View the expiry date.	
Product Processor	View the product processor of the created logical model.	
Priority	View the priority of the logical model.	
Selection Criteria		
Rules		
Use Existing Rule	View if the existing rule is linked to logical model.	
Rule Code	View the rule code of the uploaded logical model.	
Rule Name	View the rule name of the uploaded logical model.	
Create New Rule	View if new rule is linked to the logical model.	
Rules		
Rule Code	View the rule code of the uploaded logical model.	
Description	View the rule description of the uploaded logical model.	

Table 139 : Logical Model Maintenance- View – Field Description.

Field	Description	
Expression Builder		
Fact / Rules	View the fact/rules of the uploaded logical model.	
Operator	View the comparison operator of the created logical model.	
Data Type	View the data type for the fact or rule of the created logical model.	
Output	View the output of the created logical model.	
Expression	View the expression updated in the expression builder of the crated logical model.	
Logical Model		
Rule ID	View the rule ID of the created logical model.	
Sequence	View the sequence of the created logical model.	
Reason	View the reason of the created logical model.	
Comments	View the comments of the created logical model.	

3.46 Borrowing Capacity

Borrowing capacity describes the total amount the applicant is eligible to borrow. Maximum loan amount are used for loans, credit cards, and line of credit accounts. The maximum credit amount depends on a number of factors including the borrower's credit worthiness i.e. financial profile and debt to income, loan term, loan purpose, whether the loan is supported by a collateral etc.

Using this screen, we can link a rule for calculating borrowing capacity. We can calculate the maximum lendable amount based on the various criteria of the lender such as debt to income ratio, credit score, credit history etc.

A sample rule to calculate borrowing capacity is given below:

Scenario: Based on Income and FICO score

```
Rule 1:
```

IF MIN(FICO_SCORE) >= 500 AND MIN(EMPLOYMENT_PERIOD)< 1 YEAR THEN MULTIPLIER = 5 ELSEIF MIN(FICO_SCORE) < 500 AND MIN(EMPLOYMENT_PERIOD) > 1 YEAR THEN MULTIPLIER = 4

Rule2: Max Lendable Amount

MIN(Income) * Rule1



3.46.1 Create Borrowing Capacity

Create borrowing capacity screen facilitates to define the borrowing capacity based on the various input.

To Create a Borrowing Capacity:

- 1. From Home screen, click Core Maintenance, Under Core Maintenance, click Credit Decision.
- 2. Under Credit Decision, click Maintenance.
- 3. Under Maintenance, click Borrowing Capacity.
- 4. Under Borrowing Capacity, click Create Borrowing Capacity.

 \rightarrow The Create Borrowing Capacity screen is displayed.

Figure 172 : Create Borrowing Capacity

Create Borrowing Capac	sity		2 ³⁶ ×
New			
Basic Details			
Basic Details			
Eligibility Code		Eligibility Description *	
Effective Date *		Expiry Date *	
Product Processor *		Execution Stage *	
Select	×	Select *	
Use Existing Rule C Rules Rule Code Select	Crease New Rule	Rule Name	
			Save Cancel

5. On **Create Borrowing Capacity screen**, specify the fields. The fields, which are marked with asterisk, are mandatory.

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

Field	Description
Basic Details	
Eligibility Code	Specify the unique eligibility code.
Eligibility Description	Specify a short description for the eligibility.
Effective Date	Specify the effective date.
Expiry Date	Specify the expiry date.
Product Processor	Specify the product processor for which the borrowing capacity is being defined.

Table 140 : Create Borrowing Capacity - Field Description



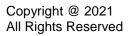
Field	Description	
Execution Stage	Select the required option for execution stage.	
	The options are:	
	• Before Decision: If this option is selected, amount is calculated before scoring model resolution. Loan amount is replaced with the minimum of requested loan amount and maximum lendable amount for scoring and pricing.	
	• After Decision: If this option is selected, Amount is calculated after decision and before pricing. Loan amount is replaced with the minimum of requested loan amount and maximum lendable amount for pricing.	

6. Click the **Selection Criteria** tab to define selection criteria rules.

Figure 173 : Create Borrowing Capacity - Selection Criteria

Create Borrowing Capacity				د ^{بر} د
New				
Basic Details				
Eligibility Code *		Eligibility Description *		
335		Scoring Model		
Effective Date *		Expiry Date		
Jul 2, 2021		Jul 24, 2021	111 III III III III III III III III III	
Product Processor		Execution Stage *		
OFLO *		Before Decision	*	
Rules Rule Code * LTV Rule v 0			Rule Name	
New				
Rules				
Code *	Description		Product Processor *	
Expression Builder				
+ Add Expression				

Field	Description	
The following fields appear if you click the Selection Criteria Tab		
Use Existing Rule	By default, this option is enabled. Indicates if the existing rule is linked.	
Rules		
Rule Code	Select the rule code from the drop down list.	
0	Click this icon to get the information about the rule.	
Rule Name	View the rule name.	



Field	Description		
Create New Rule	Select this option to create new rule.		
Rules			
Code	Specify the rule code.		
Description	Specify the rule description.		
Expression Builder			
+ icon	Click this icon to add new expression.		
Fact / Rules	Select the fact or rule from the drop-down list.		
	Once you select the fact/rules one more field opens adjacent to the output, update the same based on the selected output option.		
Operator	Select the comparison operator from the drop-down list.		
	The options are:		
	• <		
	• >		
	• +		
	• = • %		
	• !=		
	• - • >=		
	• >= • <=		
	• *		
	• /		
	Contains		
	• In		
	• Like		
	Matches		
	Notmatches		
	Notcontains		
	Notin		



Field	Description		
Data Type	Select the data type for the fact or rule. Once you select the data type one more field opens adjacent to the output, update the same based on the selected output option.		
	The options are:		
	• Text		
	Number		
	Boolean		
	Date Fact		
	Rules		
	The below option appears if the Data Type is selected as Boolean .		
	True		
	False		
Output	Select the output from the drop-down list. Once you select the output one more field opens adjacent to the output, update the same based on the selected output option.		
	The options are:		
	• Text		
	Number		
	Boolean		
	Date Fast		
	 Fact Rule 		
	The below option appears if the Data Type is selected as Boolean .		
	True		
	• False		
Expression	View the expression updated in the expression builder.		

7. Click the **Eligibility** tab to define eligibility.

Figure 174 : Create Borrowing Capacity – Eligibility Tab

Create Borrowing Capac	ity			×2.
Hem				
Basic Details				
Eligibility Code *		Eligibility Description *		
333		235		
Effective Date		Expiry Date *		
Jul 6, 2021	100 E	Jul 12, 2021		
Product Processor *		Execution Stage *		
OFLO	*	Before Decision *		
Actions	FactId	Puie Id		
	60Delq	* A8C *	0	
				Save Cancel



Field	Description			
The following fields ap	pear if you click the Eligibility Tab			
+ icon	Click this icon to add a new row.			
- icon	Click this icon to delete a row, which is already added.			
Actions	Select this checkbox corresponding to the row to be deleted.			
Fact ID	Select the fact ID from the drop down list.			
Rule ID	Select the rule ID from the drop down list.			
0	Click this icon to get the information about the rule.			

Table 142 : Create Borrowing Capacity – Eligibility Tab - Field Description

8. Click Save

The borrowing capacity is successfully created and can be viewed using the **View Borrowing Capacity** screen.

3.46.2 View Borrowing Capacity

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

To view the created Borrowing Capacity:

- 1. From Home screen, click Core Maintenance, Under Core Maintenance, click Credit Decision.
- 2. Under Credit Decision, click Maintenance.
- 3. Under Maintenance, click Borrowing Capacity.
- 4. Under Borrowing Capacity, click View Borrowing Capacity.
 - → The View Borrowing Capacity screen is displayed.



Figure 175 : View Borrowing Capacity

View Barrowing Capacity	x" ×
< c +	
Bornowing Capacity Code: bwCTest Product Processor: CHO Bornowing Capacity Code: Product Processor: CHO Bornowing Capacity Code: Product Processor: CHO Bornowing Capacity Code: Bornowing Capac	
Page 1 of1 (1-3 of3 (tems) K < 1 > 3	
0	

- 5. Click .
- 6. Specify the search criteria to fetch the required borrowing capacity.

Figure 176 : View Borrowing Capacity- Search Option

View Borrowing Capacity				$_{\mu^{e^{e}}}$ \times
Borrowing Capacity Code	Borrowing Capacity Description	Authorization Status	Record Status	
Search Reset				

7. Click Search.

Field	Description		
The following fields are disp	layed, once you click		
Borrowing Capacity Code	Specify the borrowing capacity code.		
Borrowing Capacity Description	Specify the description of the borrowing capacity.		
Authorization Status	Select the authorization status of the logical model.		
	The options are:		
	Authorized		
	Unauthorized		



Field	Description	
Record Status	Select the record status of the logical model.	
	The options are:	
	• Open	
	• Close	

The following fields are displayed in the widget.

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

Table 144: View Borrowing Capacity – Field Description.

Field	Description
Borrowing Capacity Code	View the borrowing capacity code.
Borrowing Capacity Model Description	View the borrowing capacity description.
Product Processor	View the product processor.

- 8. Click this icon ito unlock, delete, authorize or view the created borrowing capacity.
- 9. Click on unlock to modify the following fields. The fields are displayed in the **Borrowing Capacity Maintenance** screen. The following fields are editable during unlock.
 - Eligibility Description
 - Effective date before authorization
 - Expiry date
 - Add new fact or rule to the selection criteria
 - Fact or Rule in eligibility tab

Figure 177 : Borrowing Capacity Maintenance - Modify

erowing Capacity Maintenance					
/c Details					
Sigibility Code *		Eligibility Description *			
ffective Date *		Biolity Date *			
14 29 2021 🗰		Aug 7, 2021	±		
roduct Processor *		Execution Stage *			
		Batorii Dictilion			
election Criteria Eligibility					
Use Dorting Rule 🗌 Create New Rule					
Rules					
Rule Code *			Rule Name		
BORCAPSO1 -			BORCAP001		
Nes					
Rules					
Code *	Description				
809C4P001	BORCAP001				
Expression Builder					
+ Add Expression					
+					
Facts - LossTonum					
Facts + LoanTenure	× • NUMBER	· 11			
Output					
output					



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

Field	Description			
Basic Details				
Eligibility Code	View the eligibility code for the created borrowing capacity.			
Eligibility Description	View the description for the created borrowing capacity.			
	You can modify the same.			
Effective Date	View the effective date for the created borrowing capacity.			
	You can modify the same, if the date is future dated.			
Expiry Date	View the expiry date for the created borrowing capacity.			
	You can modify the same.			
Product Processor	Displays the product processor of the created borrowing capacity.			
Execution Stage	View the execution stage for the created borrowing capacity.			
Selection Criteria				
Use Existing Rule	By default, this option is enabled. Indicates if the existing rule is linked.			
Rules				
Rule Code	Displays the rule code.			
0	Click this icon to get the information about the rule.			
Rule Name	Displays the rule name.			
Create New Rule	Indicates if the new rule is created.			
Rules				
Code	Displays the rule code.			
Description	Displays the rule description			
Expression Builder				
Fact / Rules	View the fact/rules of the created logical model.			

Table 145: Borrowing Capacity Maintenance – Modify – Field Description.



Field	Description
Operator	View the comparison operator of the created logical model.
Data Type	View the data type for the fact or rule of the created logical model.
Output	View the output of the created logical model.
Expression	View the expression updated in the expression builder of the crated logical model.
Eligibility	
Fact ID	View the fact ID of the created borrowing capacity.
	You can modify the same.
Rule ID	View the rule ID of the created borrowing capacity.
	You can modify the same.
0	Click this icon to get the information about the rule.

10. Click save to update the modified fields.

11. Click to view the created logical model. The fields are displayed in **Borrowing Capacity Maintenance** screen.

Figure 178 : Borrowing Capacity Maintenance - View

Borrowing Capacity Maintenance		» ⁴ ×
Basic Details		
Eligibility Code * bwcTest Effective Date * Au129, 2021 Product Processor *	Eligibility Description * bwcTest Expiry Date * Aug 7, 2021 Execution Stage *	
OFLO	Before Decision	
Selection Criteria Eligibility		
Use Existing Rule Create New Rule		
Rules		
Rule Code * BORCAP001 0	Ruie Name BORCAP001	
New		
Rules		



Field	Description
Basic Details	
Eligibility Code	View the eligibility code for the created borrowing capacity.
Eligibility Description	View the description for the created borrowing capacity.
Effective Date	View the effective date for the created borrowing capacity.
Expiry Date	View the expiry date for the created borrowing capacity.
Product Processor	View the product processor for the created borrowing capacity.
Execution Stage	View the execution stage for the created borrowing capacity.
Selection Criteria	
Rules	
Use Existing Rule	View if the existing rule is linked to borrowing capacity.
Rule Code	View the rule code of the uploaded borrowing capacity.
Rule Name	View the rule name of the uploaded borrowing capacity.
Create New Rule	View if new rule is linked to the borrowing capacity.
Rules	
Rule Code	View the rule code of the uploaded borrowing capacity.
Description	View the rule description of the uploaded borrowing capacity.
Expression Builder	
Fact / Rules	View the fact/rules of the uploaded borrowing capacity.
Operator	View the comparison operator of the created borrowing capacity.
Data Type	View the data type for the fact or rule of the created borrowing capacity.
Output	View the output of the created borrowing capacity.



Field	Description
Expression	View the expression updated in the expression builder of the crated borrowing capacity.
Eligibility	
Fact ID	View the fact ID of the created borrowing capacity.
Rule ID	View the rule ID of the created borrowing capacity.
0	Click this icon to get the information about the rule.

3.47 Create Questionnaire

Credit analysis includes analysis of more information and data. Considering that, some of them have quantitative character and others qualitative, credit analysis are viewed from two aspects such as:

Quantitative analysis involves, an assessment of the financial position based on the customer's income and monthly expenses. It may also include a cash flow analysis of the customer's accounts and credit history.

While qualitative assessment, among others takes into account marital status, education or employment form.

Banks usually grant loan based on a credit scoring model that combines quantitative and qualitative analysis.

3.47.1 Create Questionnaire

Using this screen, you can define qualitative questionnaire based on the various parameters. This questionnaire can be further linked to define qualitative scoring model.

To create a questionnaire:

- 1. From Home screen, click Core Maintenance. Under Core Maintenance click, Credit Decision.
- 2. Under Credit Decision click, Maintenance.
- 3. Under Maintenance, click Questionnaire.
- 4. Under Questionnaire, click Create Questionnaire.
 - \rightarrow The **Create Questionnaire** screen is displayed.





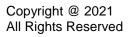
Figure 179 : Create Questionnaire

Create Questionnaire			," ×
Questionnaire Code *	c	Questionnaire Description *	
Product Processor * select *	c	Category	
Create V			
			Preview
No items to display.			
Add Question			
			Save Cancel

5. On **Create Questionnaire screen**, specify the fields. The fields, which are marked with asterisk, are mandatory.

Table 147	: Create	Questionnaire -	Field	Description
-----------	----------	------------------------	-------	-------------

Field	Description
Basic Details	
Questionnaire Code	Specify the unique questionnaire code.
Questionnaire Description	Specify a short description for the questionnaire.
Product Processor	Specify the product processor for which the questionnaire is being created.
Category	Specify the category for the questionnaire.
Create	Click Create to configure the questions.
Question Code	Specify the unique question code.
Question Description	Specify the description for the question.
Select-Type	Select the type of response option from the drop-down list.
	The option are:
	Select-Single-Choice
Short Name	Specify the short name of the question. This will be displayed in the Execution Summary.
Answer Code	View the answer code.



Field	Description
Answer Option	Specify all the expected response for the question configured.
Add	Click add to add the expected response to the question.
Update	Click Update to edit the response.
Remove	Click remove to remove the response.
Required	By default, this option is enabled. Indicates whether the question is mandatory or optional.
Done	Click Done to save the data.
Preview	Click Preview to view the questions configured for the questionnaire along with the response choice.
	Click this icon to view the responses configured for the questionnaire.
	Click this icon to move the position of the questions.
*	Click this icon to expand, copy or remove question.
🗎 Сору	Click this icon to copy the question.
Remove Question	Click this icon to remove the question.
Add Question	By Clicking Add Question , you can add another question.

6. Click Save.

The Questionnaire is successfully created and can be viewed using View Questionnaire screen.

3.47.2 View Questionnaire

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

To view created questionnaire:

- 1. From Home screen, click Core Maintenance. Under Core Maintenance, click Credit Decision.
- 2. Under Credit Decision, click Maintenance.
- 3. Under Maintenance, click Questionnaire.
- 4. Under Questionnaire, click View Questionnaire.

 \rightarrow The View Questionnaire screen is displayed.



ew Questionnaire						
uestionnuire Codet E QC20210721180729 od No: 3	Questionnaire Code: QC20210721180797 Mod No: 3 Chauthorized Dopen	Questionnaire Codet : QC20210721180767 Mod No: 3 B Authorized G Open	Questionnains Codet : QC20210722100725 Mod No: 1 B Unauthorized G Open	Questionnaire Code: fdfdddsa Med No: 5 By Unauthorized Den	Questionnaire Code: QCode3 : Mod No: 1 B Unauthorized Den	
uestionnaire Code: 2C20210721130735 od No: 1	Questionnaire Code: QC20210721150718 Mod No: 1	Questionnaire Codet : QC20210721190729 Mod No: 1	Questionnaire Code: QCode 191 Mod No: 1			
🔥 Unauthorized 🔒 Open	🔂 Unauthorized 🔒 Open	🗟 Unauthorized 🔒 Open	🚯 Unauthorized 🔒 Open			

Figure 180 : View Questionnaire

- 5. Click .
- 6. Specify the search criteria to fetch the required quesionnaire.

Figure 181 : View Questionnaire - Search Option

View Questionnaire			2	r ×
Questionnaire Code	Questionnaire Description	Authorization Status	Record Status	
Search Reset				

7. Click Search.

Description	
ls are displayed, once you click	
Specify the questionnaire code.	
Specify the questionnaire description.	
Select the authorization status of the logical model. The options are:	
AuthorizedUnauthorized	



Field	Description	
Record Status	Select the record status of the logical model.	
	The options are:	
	• Open	
	Close	

The following fields are displayed in the widget.

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

Table 149: View Borrowing Capacity – Field Description.

Field	Description
Questionnaire Code	Displays the questionnaire code.
Questionnaire Description	Displays the questionnaire description.
Product Processor Code	Displays the product processor code for which the questionnaire is created.

- 8. Click this icon ito unlock, delete, authorize or view the created questionnaire.
- 9. To authorise the questionnaire, see the Authorization process.
- 10. Click ^O unlock to modify the following fields. The fields are displayed in the **Questionnaire Maintenance** screen. The following fields are editable during unlock.
 - Questionnaire Description
 - Category
 - Add Question
 - Remove Question
 - Required (Enable/Disable)
 - User can add new, update existing, or remove existing response
 - Copy the existing question

Figure 182 : Questionnaire Maintenance - Modify



Questionnaire Maintenance			7
Basic Details			
Questionnaire Code * Questioen31D Product Processor * OFLO	÷	Questionnaire Description * Questicantillo desc Category Questicantillo category	
			Previou
v [#] Test31 Test31 desc			:* =
e ¹⁰ Test32 Test32 desc			:* =
Add Question			
Audit			Save Cancel

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

Field	Description	
Once you click the ⁶ option, the following fields are displayed in the Questionnaire Maintenance screen.		
Basic Details		
Questionnaire Code	View the questionnaire code.	
Questionnaire Description	View the questionnaire description.	
Description	You can modify the description.	
Product Processor	View the product processor for the created questionnaire.	
Category	View the category of the created questionnaire.	
	You can modify the category.	
Preview	Click Preview to view the questions configured for the questionnaire along with the response choice.	
1 v	Click this icon to expand, copy or remove question.	
=	Click this icon to move the position of the questions.	
- e ²	Click this icon to see the question details.	
The following fields	are displayed once you click this icon.	
Question Code	View the question code for the created questionnaire.	

Table 150: Questionnaire Maintenance – Modify – Field Description.



Field	Description
Question Description	View the question code for the created questionnaire.
	You can modify the same.
Select-Type	View the type of questionnaire.
Short Name	View the short name of the created questionnaire.
	You can modify the same
Answer Code	View the answer code.
Answer Option	View all the expected response for the question configured.
	You can modify, delete the same.
Required	View if the question is mandatory or optional.
	You can modify the same.

11. Click save to update the modified fields.

12. Click to view the created logical model. The fields are displayed in **Questionnaire Maintenance** screen.

Figure 183 : Questionnaire Maintenance - View

Questionnaire Maintenance			$\rho^{q} = \times$
Rusic Details			
Gusteman Colo * OWIII Madah Nasaré * ORD	Osentonare Boomtes * Galentonare (2011 Galegon Casterer Datak		
			Passies
			x
	Question Description *	Salah Tapa ⁹ Salah Tanja Chona	
Annual Code 1.	Junear Option		
1. Meta)			
2 Teor Miltro			
		Nagari	ed * On

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

Table 151 : Questionnaire Maintenance- View – Field Description.

Field	Description
Basic Details	
Eligibility Code	View the eligibility code for the created borrowing capacity.



Field	Description
Eligibility Description	View the description for the created borrowing capacity.
Effective Date	View the effective date for the created borrowing capacity.
Expiry Date	View the expiry date for the created borrowing capacity.
Product Processor	View the product processor for the created borrowing capacity.
Execution Stage	View the execution stage for the created borrowing capacity.
Selection Criteria	
Rules	
Use Existing Rule	View if the existing rule is linked to borrowing capacity.
Rule Code	View the rule code of the uploaded borrowing capacity.
Rule Name	View the rule name of the uploaded borrowing capacity.
Create New Rule	View if new rule is linked to the borrowing capacity.
Rules	
Rule Code	View the rule code of the uploaded borrowing capacity.
Description	View the rule description of the uploaded borrowing capacity.
Expression Builder	
Fact / Rules	View the fact/rules of the uploaded borrowing capacity.
Operator	View the comparison operator of the created borrowing capacity.
Data Type	View the data type for the fact or rule of the created borrowing capacity.
Output	View the output of the created borrowing capacity.
Expression	View the expression updated in the expression builder of the crated borrowing capacity.
Eligibility	



Field	Description
Rule ID	View the rule ID of the created borrowing capacity.
0	Click this icon to get the information about the rule.

3.48 Qualitative Scoring Model

Financial institution use different models for different product or use case. The qualitative scoring model used for home loan would be different then the personal loan. Banks usually grant loan based on a credit scoring model that combines quantitative and qualitative analysis.

3.48.1 Create Qualitative Scoring Model

Using this screen, you can define qualitative scoring model based on the various scoring parameters.

To create a qualitative scoring Model:

- 1. From Home screen, click Core Maintenance. Under Core Maintenance click, Credit Decision.
- 2. Under Credit Decision click, Maintenance.
- 3. Under Maintenance, click Qualitative Scoring Model.
- 4. Under Qualitative Scoring model, click Create Qualitative Scoring Model
 - → The Create Qualitative Scoring Model screen is displayed.

Figure 184 : Create Qualitative Scoring Model

Create Qualitative Scoring Model		1
Basic Details		
Scoring Model * Application Scoring Model Code * Dualitative Scoring Model Code * DML02 Effective Date * Cct 13, 2021 m Product Processor * CFL0 v	Qualitative Scoring Model Description * D/L02 Expiry Date * Ord. 28, 2021 fttt Priority * 1	
Selection Criteria Scoring Rule Use Existing Rule Greate New Rule		
Rules		
Rule Code * Select	Rue Name	
		Save Cance

5. On **Create Qualitative Scoring Model** screen, specify the fields. The fields, which are marked with asterisk, are mandatory. For more information on fields, refer to the field description table below.

ORACLE

Table 152 : Create Qualitative Scoring Model - Field Description

Field	Description
Basic Details	

Field	Description
Scoring Model	Select the scoring model from the drop-sown list.
	The options are:
	Application Scoring Model
	Applicant Scoring Model
Scoring Model code	Specify the unique scoring model code.
Scoring Model Description	Specify a short description for the scoring model.
Effective Date	Specify the effective date.
Expiry Date	Specify the expiry date.
Product Processor	Specify the product processor for which the model is being created.
Priority	Specify the priority of the model.

6. Click the **Selection Criteria** tab to define qualitative scoring model.

Figure 185 : Create Qualitative Scoring Model – Selection Criteria Tab

DML02	
Expiry Date *	
Oct 28, 2021	
Priority *	
1	
	Expiny Date * Cer 22, 2021

A brief description of the fields is given below:

Table 153 : Create Qualitative Scoring Model – Selection Criteria Tab Field Description

Field	Description		
The following fields appear if you click Selection Criteria Tab.			
Use Existing Rule	By default, this option is enabled. Indicates if the existing rule is linked.		
Rules			
Rule Code	Select the rule code from the drop down list.		



Field	Description	
0	Click this icon to get the information about the rule.	
Rule Name	View the rule name of the rule code.	
Create New Rule	Select this option to create new rule.	
Rules		
Code	Specify the rule code.	
Description	Specify the rule description.	
Expression Builder		
+ icon	Click this icon to add new expression.	
Fact / Rules	Select the fact or rule from the drop-down list.	
	Once you select the fact/rules one more field opens adjacent to the output, update the same based on the selected output option.	



Field	Description		
Operator	Select the comparison operator from the drop- down list.		
	The options are:		
	• <		
	• >		
	• +		
	• =		
	• %		
	• !=		
	• -		
	• >=		
	• <=		
	• *		
	• /		
	Contains		
	• In		
	• Like		
	Matches		
	Notmatches		
	Notcontains		
	Notin		



Field	Description					
Data Type	Select the data type for the fact or rule. Once you select the data type one more field opens adjacent to the output, update the same based on the selected output option.					
	The options are:					
	• Text					
	Number					
	• Boolean					
	• Date					
	Fact					
	Rules					
	The below option appears if the Data Type is selected as Boolean .					
	• True					
	False					
Output	Select the output from the drop-down list. Once you select the output one more field opens adjacent to the output, update the same based on the selected output option.					
	The options are:					
	• Text					
	Number					
	• Boolean					
	Date					
	Fact					
	Rule					
	The below option appears if the Data Type is selected as Boolean .					
	• True					
	• False					
Expression	View the expression updated in the expression builder.					

7. Click the **Scoring Rule** tab to define the rules. This tab is enabled if **Application Scoring Model** is selected.



Figure 186 : Crea	ate Qualitative Scoring	g Model- Scoring Rule Tab
-------------------	-------------------------	---------------------------

Create Qualitative Scoring Model		2 ¹⁰
Basic Details		
Scoring Model * Application Scoring Model Code * Ouslitative Scoring Model Code * Effective Due * Ocr 13.2021 Cr Hodust Processor * ORUD *	Qualitative Scoring Model Description * DML02 Expirp Des * On: 28.2021 fill Priority * 1	
Selection Criteria Scoring Rule Score Rule Code * BKCAP10 *	Rule Name Borrowing Capacity	
		Save Cancel

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

Table 154 : Create Qualitative Scoring Model- Scoring Rule Tab Field Description

Field	Description			
The following fields appear if you click Scoring Rule Tab.				
Score				
Rule Code	Select the rule code from the drop down list.			
6	Click this icon to get the information about the rule.			
Rule Name	View the rule name of the rule code.			

 Click the Questionnaire tab to define the scoring model based on the various questionnaires. This tab is enabled if Applicant Scoring Model is selected.

Figure 187 : Create Qualitative Scoring Model- Questionnaire Tab

Create Qualitative Scoring Model					," ×
Basic Details					
Scoring Model *					
Applicant Scoring Model					
Qualitative Scoring Model Code *		Qualitative Scoring Mode	Description *		
DML02		DML02			
Effective Date *		Expiry Date			
Oct 13, 2021		O ct 28, 2021			
Product Processor *		Priority *			
OFLO *		1			
Selection Criteria Questionnaire					
Score					
Questionnaire Code *		Questionnaire Name			
QN111		Questionnaire QN111			
Scoring Feature QN111					
Question Id	Question		Define Range/Value	Enable	
QC001	Location		Define		
QC002	Employment Type		Define	\mathbf{C}	
QC003	Residence Type		Define		
					Save Cancel



Table 155 : Create Qualitative Scoring Model – Questionnaire Tab - Field Description

Field	Description		
The following fields appear if you click Questionnaire Tab.			
Score			
Questionnaire Code	Select the questionnaire code from the drop-down list. It will list down all the questionnaire created as a part of create questionnaire.		
Questionnaire Name	View the questionnaire name of the selected questionnaire code.		
Question ID	View the question ID in the questionnaire.		
Question	View the question description linked to the question ID.		
Define Range/Value	Click the Define link to define the score for the expected response.		
Enable	By default, this option is enabled. Indicates if the question ID is enabled or not.		

9. Click the define link to define a range or absolute values for questions.

reate Qualitative Scoring Model					1
Effective Date * Aug 10, 2021 Product Processor * OFLO *		Expiry Date * Aug 31, 2021 Priority * 1	ŝŝ		
election Criteria Questionnaire					
Score					
Questionnaire Code * QCode20210809160889		Questionnaire Name description#1628506826			
Scoring Feature QCode20210809160889					
Question Id	Question		Define Range/Value	Enable	
Q1#1628506826	description1		Define		
Q2#1628506826	description2		Define		
Range/Value Definition - Q1#1628506826					
Value		Score		Category	
		10		Strong	•
description01		50		Medium	v

Table 156: Create Qualitative Scoring Model- Define Link – Numeric Feature- Field Description

Field Description	
The following fields appear if you click Define link.	
Range/Value Definition	



Field	Description	
Value	Displays the options available for a questionnaire.	
Score	Specify the score to be assigned to each value.	
Category	Specify the category for each range or value from the drop- down list. The values are configurable based on the lookup values maintained. The options are:	
	Strong	
	Medium	
	• Weak	

10. Click **Done**, to save the data and close the range panel.

11. Click Save.

The qualitative scoring model is successfully created and can be viewed using the **View Qualitative Scoring Model** screen.

3.48.2 View Qualitative Scoring Model

Using this screen, you can view the qualitative scoring model created using the **Create Qualitative Scoring Model** screen. The status of the created feature is displayed as **Unauthorized** and **Open**. Once the checker authorizes the model, the status is updated to **Authorized** and **Open**.

To view created qualitative scoring Model:

- 1. From Home screen, click Core Maintenance. Under Core Maintenance, click Credit Decision.
- 2. Under Credit Decision, click Maintenance.
- 3. Under Maintenance, click Qualitative Scoring Model.
- 4. Under Qualitative Scoring Model, click View Qualitative Scoring Model
 - → The View Qualitative Scoring Model screen is displayed.



Figure 189 : View Qualitative Scoring Model

C + coring Model Code:							
oring Madel Description: oduct Processor Code: OFLO	Scoring Model Code: AppN2021100117 Scoring Model Description Product Processor Code: OFLO Authorized Open	Scoring Model Code: : APCT311 : Product Processor Code: ORD Authorized @ Open	Scaring Model Code: APCN310 Scaring Model Description: Product Processor Code: OFL0 Authorized Open	Scaring Model Code: AppN2021100417 Scaring Model Description Product Processor Code: OFLO Authorized Processor Code: OFLO	Scoring Model Code: AppSM202110041 ⁵ Scoring Model Description: Product Processor Code: OR:0 Authorized Desc	Scoring Model Code: : APPLQAL502 : Scoring Model Description: Product Processor Code: OFLD Authorized Quen	
coring Model Code:	Scoring Model Code: AppSMdel 20110011 Scoring Model Description Product Processor Code: OBIO	Scoring Model Code: 557 Scoring Model Description: Product Processor Code: 0RD					
Authorized 🔒 Open	🗞 Authorized 🔒 Open	🛃 Unauthorized 🔒 Open					
e 1 of 3 (1 - 10 of 27 items)	К К 1 2 3 Э Э						

- 5. Click 🤍
- 6. Specify the search criteria to fetch the required qualitative scoring model.

Figure 190 : View Qualitative Scoring Model - Search Option

View Qualitative Scoring Model				,," ×
Scoring Model Code	Scoring Model Description	Authorization Status	Record Status	
Search Reset				

7. Click Search.

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

Table 157 : View Qualitative Scoring Model -Search Option- Field Description

Field	Description		
The following fields are displayed, once you click			
Scoring Model Code	Specify the scoring model code.		
Scoring Model Description	Specify the scoring model description.		
Authorization Status	Select the authorization status of the logical model. The options are:		
	AuthorizedUnauthorized		



Field	Description
Record Status	Select the record status of the logical model.
	The options are:
	• Open
	Close

The following fields are displayed in the widget.

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

Table 158: View Qualitative Scoring Model – Field Description.

Field	Description
Scoring Model Code	View the scoring model code.
Scoring Model Description	View the scoring model description.
Product Processor Code	View the product processor code.

- 8. Click this icon it to unlock, delete, authorize or view the created qualitative scoring model.
- 9. To authorise the qualitative scoring model, see the Authorization process.
- 10. Click ^O unlock to modify the following fields. The fields are displayed in the **Qualitative Scoring Model Maintenance** screen. The following fields are editable during unlock.
 - Qualitative Scoring Model Description
 - Effective Date before Authorization
 - Expiry Date
 - Priority
 - Add new fact or rule to the selection criteria
 - Enable, if you want to disable any question ID from the model
 - Modify the score for existing response
 - Define score or update score a range when new questions are added or modified in a questionnaire
 - Scoring model before authorization

Figure 191 : Qualitative Scoring Model Maintenance - Modify



Ac Detaile comp Model * subtacts Scomp Model * subtacts Scomp Model Code * tris Comp Model Code * tris Comp Model Code * Prective Data * Dot 13. 000 * DBLD *	Cualitative Scoring Model Description * SUIC Desc Exploy Desc * O et 27, 2021 * Priority * 10	
applicant Scoring Videol * attaints Scoring Model Code * frog fectire Data * fectire Data * FLO *	SMC Desc Evigit per * On 27, 2021 10 Promy *	
election Criteria Questionnaire Use Existing Rule Create New Rule		
Rules		
Rule Code " AAAASDD Y 0	Rule Name Rule Desc	
New		
Rules		
Code * Description AAAASDD Rule Desc		

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

Field	Description		
Once you click the ⁶ option, the following fields are displayed in the Qualitative Scoring Model Maintenance screen.			
Basic Details			
Scoring Model	View the scoring model for the created qualitative scoring model.		
Qualitative Scoring Model Code	View the qualitative scoring model code for the created qualitative scoring model.		
Qualitative Scoring Model Description	View the qualitative scoring model description for the created qualitative scoring model. You can modify the same.		
Effective Date	View the effective date of the created qualitative scoring model.		
	You can modify the same before authorization.		
Expiry Date	View the expiry date of the created qualitative scoring model.		
	You can modify the same.		
Product Processor	View the product processor for the created qualitative scoring model.		
Priority	View the priority of the created qualitative scoring model.		
	You can modify the same.		
Selection Criteria	-		

Table 159: Qualitative Scoring Model Maintenance – Modify – Field Description.



Field	Description
Use Existing	Indicates if the existing rule is linked.
Rule	You can modify the same.
Rules	
Rule Code	View the rule code for the created qualitative scoring model.
	You can modify the same.
0	Click this icon to get the information about the rule.
Rule Name	View the rule name of the rule code for the created qualitative scoring model.
Rules	
Code	View the rule code.
Description	View the rule description.
Expression Builde	r
+ icon	Click this icon to add new expression.
Fact / Rules	View the fact or rule for the created qualitative scoring model.
Operator	View the comparison operator for the created qualitative scoring model.
Data Type	View the data type for the fact or rule for the created qualitative scoring model.
Output	View the output for the created qualitative scoring model.
Expression	View the expression updated in the expression builder.
Scoring Rule	
Applicable for the A	pplication scoring Model.
Score	
Rule Code	View the rule code for the created qualitative scoring model.
	You can modify the same.
Rule Name	View the rule name for the created qualitative scoring model.



Field	Description			
Questionnaire				
Applicable for Applicant Scoring Model.				
Score				
Questionnaire Code	View the questionnaire code for the created qualitative scoring model.			
	You can modify the same.			
Questionnaire Name	View the questionnaire name for the created qualitative scoring model.			
Question ID	View the question ID for the created qualitative scoring model.			
Question	View the question for the created qualitative scoring model.			
Define Range/Value	View the defined range or value. You can modify the same.			
Value	View the defined value for the created qualitative scoring model.			
Score	View the score for the created qualitative scoring model.			
	You can modify the same.			
Category	View the category for the created qualitative scoring model.			
	You can modify the same.			
Enable	View if the question ID is enabled or not.			

- 11. Click save to update the modified fields.
- 12. Click to view the created qualitative scoring model. The fields are displayed in **Qualitative Scoring Model Maintenance** screen.

Figure 192 : Qualitative Scoring Model Maintenance - View

Qualitative Scoring Model Maintenance		» ^e ×
Basic Details		
Scoring Model * Applicant Scoring Model Qualitative Scoring Model Code * APCT302 Effective Date * Sep 30, 2020 Product Processor * OFLO	Qualitative Scoring Model Description * Qualitative scoring model APCT302 Expiry Date * Sep 30, 2021 Priority * 22	
Selection Criteria Questionnaire (9) Use Existing Rule: O Create New Rule Rules		
Rules Rule Code * R1302 0	Ruie Name Ruie Product cade HMLN31 EmpCat B	
New		

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

Field	Description	
Basic Details		
Scoring Model	View the scoring model for the created qualitative scoring model.	
Qualitative Scoring Model Code	View the qualitative scoring model code for the created qualitative scoring model.	
Qualitative Scoring Model Description	View the qualitative scoring model description for the created qualitative scoring model.	
Effective Date	View the effective date of the created qualitative scoring model.	
Expiry Date	View the expiry date of the created qualitative scoring model.	
Product Processor	View the product processor for the created qualitative scoring model.	
Priority	View the priority of the created qualitative scoring model.	
Selection Criteria		
Rules		
Use Existing Rule	Indicates if the existing rule is linked.	
Rules		
Rule Code	View the rule code for the created qualitative scoring model.	
0	Click this icon to get the information about the rule.	

 Table 160 : Qualitative Scoring Model Maintenance- View – Field Description.



Field	Description	
Rule Name	View the rule name of the rule code for the created qualitative scoring model.	
Create New Rule	Indicates if the new rule is created.	
Rules		
Rule Code	View the rule code of the created qualitative scoring model.	
Description	View the rule description of the created qualitative scoring model.	
Expression Builder		
+ icon	Click this icon to add new expression.	
Fact / Rules	View the fact/rules of the created qualitative scoring model.	
Operator	View the comparison operator of the created qualitative scoring model.	
Data Type	View the data type for the fact or rule of the created qualitative scoring model.	
Output	View the output of the created qualitative scoring model.	
Expression	View the expression updated in the expression builder of the crated qualitative scoring model.	
Scoring Rule		
Applicable for the App	lication scoring Model.	
Score		
Rule Code	View the rule code for the created qualitative scoring model.	
Rule Name	View the rule name for the created qualitative scoring model.	
Questionnaire		
Applicable for Applicant Scoring Model.		
Score		
Questionnaire Code	View the questionnaire code for the created qualitative scoring model.	
Questionnaire Name	View the questionnaire name for the created qualitative scoring model.	



Field	Description	
Question ID	View the question ID for the created qualitative scoring model.	
Question	View the question for the created qualitative scoring model.	
Define Range/Value	View the defined range or value.	
Value	View the defined value for the created qualitative scoring model.	
Score	View the score for the created qualitative scoring model.	
Category	View the category for the created qualitative scoring model.	
Enable	View if the question ID is enabled or not.	

3.49 Scoring Feature

Lending institution have complex credit scoring models. The model uses the information contained in an application such as salary, credit commitments, and past loan performances to determine a credit score of an application or an existing customer. The model generates a score and based on that score, system takes the decision like approve, referred or to reject the application. To achieve these, in the decision service, you need to define maintenances of scoring feature. A feature can be either fact based or rule based. The features created in this maintenance can be linked in quantitative score model and decision grade matrix screen.



3.49.1 Create Scoring Feature

Using this screen, you can define scoring feature for determining the credit score. This score applies to applications during origination and based on the information received from the product processor.

To create a Scoring Feature:

- 1. From Home screen, click Core Maintenance, Under Core Maintenance, click SCredit Decision.
- 2. Under Credit Decision click, Maintenance.
- 3. Under Maintenance click, Scoring Feature.
- 4. Under Scoring Feature, click Create Scoring Feature.

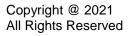
 \rightarrow The Create Scoring Feature screen is displayed.

Figure 193 : Create Scoring Feature

Back Factor Discription Product Processor Pack Factor Description Factor Description Pack Pack Pack Pack Pack Pack	Create Scoring Feature			," ×
Facture Code * Nate: Yst: No Fact Code * Select Fact Name				
Rat Tet Code * Fact Code *				
Ret Fact lane Dire Fact lane	Feature Code *	Feature Description *		
	Rule		Fact Name	
	Ves 🕑 No	Select		
			50 2	

5. On **Create Scoring Feature** screen, specify the fields. The fields, which are marked with asterisk, are mandatory. For more information on fields, refer to the field description table below.

Field	Description	
Basic Details		
Feature Code	Specify the unique feature code.	
Feature Description	Specify a short description for the feature.	
Product Processor	Specify the product processor for which the feature is being created.	





Field	Description	
Rule	Select the rule, if it is required to define the feature.	
	This option is used to decide whether the feature is rule based or fact based.	
	The options are:	
	• Yes	
	• No	
Fact Code	Select the fact code to be mapped to the feature from the drop-down list.	
	This field is enabled if the Rule is selected as No.	
Fact Name	View the fact name for the selected fact.	
	This field is enabled if the Rule is selected as No .	
Rule Code	Select the rule code to be mapped to the feature from the drop-down list.	
	This field is enabled, if the Rule is selected as Yes .	
0	Click this icon to get the information about the rule.	
Rule Name	View the rule name for the selected rule.	
	This field is enabled if the Rule is selected as Yes .	

6. Click Save.

7. The scoring feature is successfully created and can be viewed using the **View Scoring Feature** screen.

3.49.2 View Scoring Feature

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

To view an uploaded scoring feature:

- 1. From Home screen, click Core Maintenance. Under Core Maintenance, click Credit Decision.
- 2. Under Credit Decision click, Maintenance.
- 3. Under Maintenance click, Scoring Feature.
- 4. Under Scoring Feature, click View Scoring Feature.

 \rightarrow The View Scoring Feature screen is displayed.



Figure 194 : View Scoring Feature

View Scoring Feature		* ₆ ×
ч с +		. =
Feature Code:	Feature Code: 45	
Feature Description: Product Processor Code:	Feature Description: Product Processor Code:	
🔁 Unauthorized 🔒 Open	🚯 Authorized 🛛 🔒 Open	
Page 1 of 27 (1 - 10 of 267 iten	ms) K < 1 2 3 4 5 27 > X	

5. Click 🤍

6. Specify the search criteria to fetch the required scoring feature.

Figure 195 : View Scoring Feature - Search Option

View Scoring Feature				2
Feature Code	Feature Description	Authorization Status	Record Status	
1000		· · · · · · · · · · · · · · · · · · ·	*	
Search Reset				

7. Click Search.

Table 162 : View Scoring Feature- Search Option- Field Description

Field	Description	
The following fields are displayed, once you click		
Feature Code	View the feature code.	
Feature Description	View the feature description.	
Authorization Status	Select the authorization status of the feature. The options are: • Authorized • Unauthorized	
Record Status	Select the record status of the feature. The options are: • Open • Close	



The following fields are displayed in the widget.

For more information in fields, refert to the field description table below.

 Table 163 : View Scoring Feature - Field Description

Field	Description	
Feature Code	Displays the feature code.	
Feature Description	Displays the feature description.	
Product Processor	Displays the product processor.	

- 8. Click this icon to unlock, delete, authorize or view the created scoring feature.
- 9. To authorise the feature, see the Error! Reference source not found..
- 10. Click ^O unlock to modify the following fields. The fields are displayed in the **Scoring Feature Maintenance** screen. The following fields are editable.
 - Feature Description
 - Modification of rule linkage
 - Modification of fact mapped to the feature in case no rule is linked to the feature.

Figure 196 : Scoring Feature Maintenance - Modify

Scoring Feature Maintenance		
Basic Details		
Feature Code * 115720211004171092 Rule * Yes No	Feature Description * Society Feature Rule for Testing Rule Code * Select *	Product Processor * CR:0 * Rule Name Netincome
Audit		See 2
AUCK		Save C

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

Table 164 : Scoring Feature Maintenance – Modify - Field Description

Field	Description
Once you click the ⁶ option, the following fields are displayed in the Scoring Feature Maintenance screen.	
Basic Details	
Feature Code	View the feature code.

Field	Description
Feature Description	View the feature description.
	You can modify the same.
Product Processor	View the product processor for the created scoring feature.
Rule	View the rule defined to the feature.
	You can modify the same.
Rule Code	View the rule code of the feature.
	You can modify the same.
	This field is displayed, if the Rule is selected as Yes .
0	Click this icon to get the information about the rule.
Rule Name	View the rule name of the feature.
	This field is displayed, if the Rule is selected as Yes .
Fact Code	View the fact code of the feature.
	You can modify the same.
	This field is displayed, if the Rule is selected as No .
Fact Name	View the fact name of the feature.
	This field is displayed if the Rule is selected as No .

3.50 Quantitative Scoring Model

Quantitative analysis involves, an assessment of the financial position based on the customer's income and monthly expenses. It may also include a cash flow analysis of the customer's accounts and credit history.

Banks usually grant loan based on a credit scoring model that combines quantitative and qualitative analysis.

3.50.1 Create Quantitative Scoring Model

Using this screen, you can define quantitative scoring model based on the various scoring parameters. The parameters driving the scoring models are configurable. You can create quantitative scoring model by updating various details.

To create a Quantitative Scoring Model:

- 1. From Home screen, click Core Maintenance. Under Core Maintenance, click Credit Decision.
- 2. Under Credit Decision click, Maintenance.





- 3. Under Maintenance click, Quantitative Scoring Model.
- 4. Under Quantitative Scoring Model, click Create Quantitative Scoring Model.

 \rightarrow The Create Quantitative Scoring Model screen is displayed.

Figure 197 : Create Quantitative Scoring Model

Create Quantitative Scor	ing Model		×
Basic Details			
Scoring Model *			
Select	*		
Scoring Model Code *		Scoring Model Description *	
Effective Date *		Expiry Date *	
Enecuve Date	±	Expery Deve	
Product Processor *		Priority *	
Select	×		
			Sive Can

5. On **Create Quantitative Scoring Model** screen, specify the fields. The fields, which are marked with asterisk, are mandatory. For more information on fields, refer to the field description table below.

Field	Description
Basic Details	
Scoring Model	Select the scoring model from the drop-down list.
	The options are:
	Application Scoring Model
	Applicant Scoring Model
	Multi-Applicant Scoring Model
Scoring Model code	Specify the unique scoring model code.
Scoring Model Description	Specify a short description for the scoring model.
Effective Date	Specify the effective date.
Expiry Date	Specify the expiry date.
Product Processor	Specify the product processor for which the model is being created.
Priority	Specify the priority of the model.

Table 165 : Create Quantitative Scoring Model - Field Description

6. Click the Selection Criteria tab to define scoring model.



Figure 198 : Create Quantitative Scoring Model – Selection Criteria Tab

Create Quantitative Scoring Model			7
Basic Details			
Scoring Model * Application Scoring Model * Scoring Model Code * test1		Scoring Model Description * Scoring Model	
Effective Date * Aug 4. 2021 Product Processor * OFLO V		Expiry Date " Aug 14.2021 1111 Priority "	
Selection Criteria Scoting Rule			
Rules			
Rule Code * MLA3 *		Rule Name MLA1	
New Edit			
Rules	Description		
MLA3	MLA1		

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

Table 166 : Create Quantitative Scoring Model – Selection Criteria Tab - Field Description

Field	Description	
The following fields appear	r if you click Selection Criteria Tab.	
Use Existing Rule	By default, this option is enabled. Indicates if the existing rule is linked.	
Rules		
Rule Code	Select the rule code from the drop down list.	
0	Click this icon to get the information about the rule.	
Rule Name		View the rule
Create New Rule	Select this option to create new rule.	
Rules		
Code	Specify the new rule code.	
Description	Specify the rule description.	
Expression Builder		
+ icon	Click this icon to add new expression.	
Fact / Rules	Select the fact or rule from the drop-down list.	
	Once you select the fact/rules one more field opens adjacent to the output, update the same based on the selected output option.	



Field	Description
Operator	Select the comparison operator from the drop-down list.
	The options are:
	• <
	• >
	• +
	• =
	• %
	• !=
	• -
	• >=
	• <=
	• *
	• /
	Contains
	• In
	• Like
	Matches
	Notmatches
	Notcontains
	Notin



Field	Description
Data Type	Select the data type for the fact or rule. Once you select the data type one more field opens adjacent to the output, update the same based on the selected output option.
	The options are:
	• Text
	Number
	• Boolean
	• Date
	• Fact
	Rules
	The below option appears if the Data Type is selected as Boolean .
	• True
	• False
Output	Select the output from the drop-down list. Once you select the output one more field opens adjacent to the output, update the same based on the selected output option.
	The options are:
	• Text
	Number
	• Boolean
	Date
	• Fact
	Rule
	The below option appears if the Data Type is selected as Boolean .
	• True
	False
Expression	View the expression updated in the expression builder.

7. Click the **Scoring Rule** tab to define the rule. This tab is enabled if **Application Scoring Model** is selected.

Figure 19	99:	Create	QuantitativeS	coring	Model -	Scoring	Rule	Tab
-----------	-----	--------	---------------	--------	---------	---------	------	-----

Create Quantitative Scoring Model		2 ⁴ - X
Basic Details		
Scoring Model * Application Scoring Model * Scoring Model Cole * DMI02 Effective Date * Avg.4.2021 Product Processor * OFL0 *	Scoring Model Description * Scoring Model Expiry Date * Aug 21, 2021 *	
Selection Criteria Scoring Rule		
Rule Code " MLA3 ¥ 0	Ruis Name MLA1	
		Save Carcel

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

Table 167 : Create Quantitative Scoring Model – Scoring Rule Tab - Field Description

Field	Description		
The following fields appear	if you click Scoring Rule Tab.		
Score			
Rule Code	Select the rule code from the drop down list.		
0	Click this icon to get the information about the rule.		
Rule Name	View the rule name of the rule code.		

8. Click the **Feature** tab to define the feature. This tab is enabled if **Applicant Scoring Model** and **Multiple Applicant Scoring Model** is selected.

Figure 200 : Create Quantitative Scoring Model – Feature Tab

Create Quantitative Scoring Mod	el						,, ² ×
Basic Details							
Scoring Model *							
Applicant Scoring Model	×						
Scoring Model Code *			Scoring Model Description *				
DML02			Scoring Model				
Effective Date			Expiry Date *				
Aug 4, 2021			Aug 21, 2021	10 C			
Product Processor *			Priority *				
OFLO	×		1				
Selection Criteria Feature							
Scoring Feature							
E Feature		Weightage (%)	Range Type		Define Range/Value	Enable	
Age Description	×	40	Max Value %	٣	Define		1
Range/Value Definition - Age Desc	ription						×
Note How decimal number is considered	while defining a Range? For E	ample: If range is from 0 - 200 in 1	st row and 200 - 500 in 2nd row then that means in the 2nd row i	it will start from greater than	(>) 200.		
Range Type			Max	Value *			
Max Value %							

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

Table 168 : Create Quantitative Scoring Model – Feature Tab - Field Description



Field	Description					
The following fields appear if you click Feature Tab.						
Scoring Feature						
+ icon	Click this icon to add a new row.					
- icon	Click this icon to delete a row, which is already added.					
Feature	Select the feature from the drop-down list.					
Weightage (%)	Specify the weightage to be assigned to each feature code.					
Range Type	Select the range type from the drop down list.					
	The options are:					
	Max Value					
	Param Percent%					
	Value					
	For Applicant Scoring Model this field is editable.					
Define Range/Value	Click the Define link to define the feature.					
Enable	By default, this option is enabled. Indicates if the scoring parameter is enabled or not.					

9. Click the **Define** link to define a range or absolute values for each scoring feature to be considered for scoring model and score for that range or value. In case the data type of feature is numeric such as Bureau score the below screen appears.

Figure 201 : Create Quantitative Scoring Model – Define Link – Numeric Feature

Create Quantitative Scoring Model						, ^a ×
Effective Date *		Expiry Date *				
Aug 18, 2021		Aug 26, 2021	鎆			
Product Processor *		Priority *				
OFLO *		1				
Selection Criteria Feature						
Scoring Feature						
Feature	Weightage (%)	Range Type		Define Range/Value	Enable	
Age Description 🔻	50	Max Value %	٠	Define]
Range/Value Definition - Age Description						X
Note How decimal number is considered while defining a Range? For Ex	ample: If range is from 0 - 200 in 1st row and 200 - 500 in 2nd r	row then that means in the 2nd	I row it will start from greater tha	an (>) 200.		
Range Type			Max Value *			
Max Value %						
Range From	Range To		Percentage		Category	
No data to display.					h.	
						Done
						Save Cancel

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

 Table 169: Create Quantitative Scoring Model – Define Link – Numeric Feature- Field

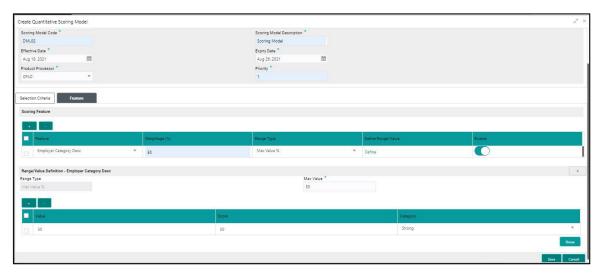
 Description



Field	Description			
The following fields appear if you click Define link.				
Range/Value Definition				
Range Type	Displays the range type selected.			
Max Value	Specify the maximum value on which scoring has to be done, if range type ID is Max Value % or Param %.			
+ icon	Click this icon to add a new row.			
- icon	Click this icon to delete a row, which is already added.			
Range From	Specify the minimum range of value based on which scoring is to be done.			
Range To	Specify the maximum range of value based on which scoring is to be done.			
Score/Percentage	Specify the percentage to be assigned for each range or value, if range type is Max value % or Param %.			
	Specify the score to be assigned for each range or value, if range type is Value.			
Category	Specify the category for each range or value from the drop- down list. The values are configurable based on the lookup values maintained.			
	The options are:			
	Strong			
	Medium			
	• Weak			

10. Incase the the data type of feature is alphanumeric such as Employment Category the below screen appears.

Figure 202: Create Quantitative Scoring Model- Define Link –Alphanumeric Feature





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

Table 170: Create Quantitative Scoring Model – Define Link – Alphanumeric Feature - Field Description

Field	Description		
The following fields appear if you click Define link.			
Range/Value Definition			
Range Type	Displays the range type selected. The default value for the same is Value .		
Max Value	Specify the maximum value for the range type.		
+ icon	Click this icon to add a new row.		
- icon	Click this icon to delete a row, which is already added.		
Value	Specify the value of the feature.		
Score	Specify the score assigned for each range value.		
Category	Specify the category for each range or value from the drop- down list.		
	The options are:		
	• Strong		
	Medium		
	• Weak		

11. Click **Done**, to save the data and close the range panel.

12. Click Save.

The quantitative scoring model is successfully created and can be viewed using the **View Quantitative Scoring Model** screen.

3.50.2 View Quantitative Scoring Model

Using this screen, you can view the quantitative scoring Model created using the **Create Quantitative Scoring Model** screen. The status of the uploaded model is displayed as **Unauthorized** and **Open**. Once the checker authorizes the model, the status is updated to **Authorized** and **Open**.

To view created quantitative scoring model:

- 1. From Home screen, click Core Maintenance. Under Core Maintenance, click Credit Decision.
- 2. Under Credit Decision click, Maintenance.
- 3. Under Maintenance click, Quantitiative Scoring Model.
- 4. Under Quantitative Scoring Model, click View Quantitative Scoring Model.

 \rightarrow The View Quantitative Scoring Model screen is displayed.



Figure 203 : View Quantitative Scoring Model

View Quantitative Scoring Model							
ч с +							
Scaring Model Code: AppN20210707090784 Scaring Model Description: Product Processor Code: ORJO & Anthorized & Open	Scoring Model Code: AppN20210712110747 : Scoring Model Description: Product Processor Code: OFLO Burget Unsuthorized Depen	Scoring Model Code: AppN20210712110772 Scoring Model Description: Product Processor Code: OR:O Code: OR:O Code	Scening Model Code: AppN20210712110716 Scoring Model Description: Product Processor Code: OFLD Burscherized Description	Scoring Model Code: App/N20210712110765 Scoring Model Description: Product Processor Code: OR:O By Unauthorized Den	Scoring Model Code: 2 AppN20210715160754 2 Scoring Model Description Product Processor Code: ORIO & Asthorized & Open	Scoring Model Cade: App/N20210715160747 Scoring Model Description: Product Processor Cade: 05(J) Copen Open	
Soung Model Cade: AppR/202107/15160731 Soung Model Reversor Model Themese Cade OFCO Comp Model Reversor Model Themese Cade OFCO Comp Model Cade Comp Model Cade Cade Comp Model Cade Comp Model Cade Comp Model Cade Cade Comp Model Cade Comp Model Ca	Scoring Model Codic AppN20210715180728 Scoring Model Description: Product Reseaser Code: OTIO Code: Charlen Code: Child	Scoring Model Codic AppN20210719100730 Scoring Model Description: Product Processor Code: ORD					

5. Click Q

6. Specify the search criteria to fetch the required quantitative scoring model.

Figure 204 : View Quantitative Scoring Model- Search Option

View Quantitative Scoring Model			×*	×
Scoring Model Code Search Reset	Scoring Model Description	Authorization Status	Record Status	

7. Click Search.

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

Table 171 : View Quantitative Scoring Model- Search Option- Field Description

Field	Description		
The following fields a	are displayed, once you click		
Scoring Model Code	Specify the scoring model code.		
Scoring Model Description	Specify the scoring model description.		
Authorization Status	Select the authorization status of the model. The options are: • Authorized • Unauthorized		
Record Status	Select the record status of the model. The options are: • Open • Close		
2 2021	253	C	

The following fields are displayed in the widget.

Table 172 : View Quantitative Scoring Model- Field Description

Field	Description	
Scoring Model Code	Displays the scoring model code.	
Scoring Model Description	Displays the scoring model description.	
Product Processor Code	Displays the product processor code.	

- 8. Click this this icon it to unlock, delete, authorize or view the created quantitative scoring model.
- 9. To authorise the quantitative scoring model, see the Error! Reference source not found.
- 10. Click ^O unlock to modify the following fields. The fields are displayed in the **Quantitative Scoring Model Maintenance** screen. The following fields are editable.
 - Scoring Model Description
 - Effective date, before authorization
 - Expiry Date
 - Priority
 - Add/Delete new scoring feature to the quantitative scoring model
 - Change the weightage of the scoring feature code
 - Range Type
 - Facts and Rules in Selection Criteria
 - Range/Value
 - Score
 - Category
 - Enable if you want to remove any scoring feature from the model instead of removing, you can disable the feature. Thus, the weightage assigned to that particular feature is auto removed and is shown as blank.



Figure 205 : Quantitative Scoring Model Maintenance - Modify

Quantitative Scoring Model Maintenance			
Basic Details			
Scoring Model * Applicant Scoring Model *			
Scoring Model Code *		Scoring Model Description *	
REJECT		REJECT	
Effective Date *		Expiry Date	
Sep 30, 2020		Oct 31, 2022	
Product Processor *		Priority *	
OFLD *		1	
Selection Criteria Feature			
Use Existing Rule Create New Rule			
Use Existing Rule Create New Rule Rules			
Use Existing Rule Create New Rule		Rule Name REJECT	
Use Existing Rule Crease New Rule Rule Rule Code			
Use Existing Rule Create New Rule Rules Rule Code * REJECT			
Uze Existing Rule Crease New Rule Rule Code Rule Code New New New New New New New N	Decipion		

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

Field Description

Table 173 : Quantitative Scoring Model Maintenance – Modify - Field Description

Once you click the ⁶ option, the following fields are displayed in the Scoring Model Maintenance screen.				
Basic Details				
Application Scoring Model	View the application scoring model.			
Scoring Model Code	View the scoring model code for the created quantitative scoring model.			
Scoring Model Description	View the scoring model description for the created quantitative scoring model.			
	You can modify the same			
Effective Date	• Date View the effective date for the created quantitative scoring model			
	You can modify the same before authorization.			
Expiry Date	View the expiry date of the created quantitative scoring model.			
	You can modify the same.			
Product Processor	View the product processor for the created quantitative scoring model.			
Priority	View the priority of the created quantitative scoring model.			
	You can modify the same.			
Selection Criteria				



Field	Description		
Use Existing Rule	Indicates if the existing rule is linked.		
	You can modify the same		
Rules			
Rule Code	View the rule code for the created quantitative scoring model.		
	You can modify the same.		
0	Click this icon to get the information about the rule.		
Rule Name	View the rule name of the rule code for the created quantitative scoring model.		
Create New Rule	View the rule code for the created quantitative scoring model.		
	You can modify the same.		
Rules			
Code	Specify the new rule code for quantitative scoring model.		
Description	Specify the rule description for the quantitative scoring model.		
Expression Builder			
+ icon	This icon can add new expression.		
Fact / Rules	View the fact or rule for the created quantitative scoring model.		
Operator	View the comparison operator for the created quantitative scoring model.		
Data Type	View the data type for the fact or rule for the created quantitative scoring model.		
Output	View the output for the created quantitative scoring model.		
Expression	View the expression updated in the expression builder for the created quantitative scoring model.		
Feature			
This tab is enabled for the Applicant Scoring Model.			
Scoring Feature			
+ icon	This icon adds new row.		
- icon	This icon deletes a row, which is already added.		
Feature	View the feature for the created quantitative scoring model.		



Field	Description			
Weightage (%)	View the weightage assigned to each feature for the created quantitative scoring model.			
	You can modify the same.			
Range Type	View the range type for the created quantitative scoring model.			
	The options are:			
	Max Value			
	Param Percent%			
	Value			
Define Range/Value	View the range/value defined for the created quantitative scoring model.			
Range From	View the minimum range of value based on which scoring is done.			
	You can modify the same.			
Range To	View the maximum range of value based on which scoring is done.			
	You can modify the same.			
Score	View the score assigned for each range or value.			
	You can modify the same.			
Category	View the category for each range or value for the created quantitative scoring model.			
	The options are:			
	Strong			
	Medium			
	• Weak			
	You can modify the same.			
Enable	View the parameter for the created quantitative scoring model.			
	You can modify the same.			
Scoring Rule				
This tab is enabled for	the Application Scoring Model.			
Score				
Rule Code	View the rule code for the created quantitative scoring model.			



Field	Description		
0	Click this icon to get the information about the rule.		
Rule Name	View the rule name of the rule code for the created quantitative scoring model.		

- 11. Click Save, to update the modified fields.
- 12. Click to view the created quantitative scoring model. The fields are displayed in **Quantitative Scoring Model Maintenance** screen

Figure 206 : Quantitative Scoring Model Maintenance – View

Quantitative Scoring Model Maintenance			ד ×		
Basic Details					
Sering Mode" Applicant Scring Model Description * Applicant Scring Model Description * REACT Effective Gas* Epiory Gas Epiory Gas Epiory Gas Description Epiory Gas Description Epiory Gas Description Epiory Gas Description Epiory Gas Description Epiory Gas Des					
Selection Criteria Feasure (b) Use Existing Rule Crisate New Rule Rules Crisate New Rule					
Rule Code " REJECT O	Rule Na REJECT				
New Rules					
	Select REJECT	Existing rule Q	Rule Version		

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

Table 174 : Quantitative Scoring Model Maintenance – View - Field Description

Field	Description				
Once you click the option, the following fields are displayed in the Quantitative Scoring Model Maintenance screen.					
Basic Details					
Scoring Model	Iodel View the scoring Model for the created quantitative scoring model.				
Scoring Model Code	View the scoring model code for the created quantitative scoring model.				
Scoring Model Description	View the scoring model description for the created quantitative scoring model.				
Effective Date	View the effective date for the created quantitative scoring model.				
Expiry Date	View the expiry date of the created quantitative scoring model.				



Field	Description		
Product Processor	View the product processor for the created quantitative scoring model.		
Priority	View the priority of the created quantitative scoring model.		
Selection Criteria			
Use Existing Rule	Indicates if the existing rule is linked.		
Rules			
Rule Code	View the rule code for the created quantitative scoring model.		
0	Click this icon to get the information about the rule.		
Rule Name	View the rule name of the rule code for the created quantitative scoring model.		
Create New Rule	View the rule code for the created quantitative scoring model.		
Rules			
Code	Specify the new rule code for quantitative scoring model.		
Description	Specify the rule description for the quantitative scoring model.		
Expression Builder			
+ icon	This icon can add new expression.		
Fact / Rules	View the fact or rule for the created quantitative scoring model.		
Operator	View the comparison operator for the created quantitative scoring model.		
Data Type	View the data type for the fact or rule for the created quantitative scoring model.		
Output	View the output for the created quantitative scoring model.		
Expression	View the expression updated in the expression builder for the created quantitative scoring model.		
Feature			
This tab is enabled for the Applicant Scoring Model.			
Scoring Feature			
+ icon	This icon adds new row.		
- icon	This icon deletes a row, which is already added.		
Feature	View the feature for the created quantitative scoring model.		



Field	Description				
Weightage (%)	View the weightage assigned to each feature for the created quantitative scoring model.				
Range Type	View the range type for the created quantitative scoring model.				
	The options are:				
	Max Value				
	Param Percent%				
	• Value				
Define Range/Value	View the range/value defined for the created quantitative scoring model.				
Range From	View the minimum range of value based on which scoring is done.				
Range To	View the maximum range of value based on which scoring is done.				
Score	View the score assigned for each range or value.				
Category	View the category for each range or value for the created quantitative scoring model.				
	The options are:				
	Strong				
	Medium				
	• Weak				
Enable	View the parameter for the created quantitative scoring model.				
Scoring Rule					
This tab is enabled for the Application Scoring Model.					
Score					
Rule Code	View the rule code for the created quantitative scoring model.				
6	Click this icon to get the information about the rule.				
Rule Name	View the rule name of the rule code for the created quantitative scoring model.				

3.51 Decision Grade Matrix

Using this screen, you can define the decision and grade based on the score calculated by the scoring model.



3.51.1 Create Decision Grade Matrix

You can create decision and grade matrix by updating various details.

To create decision and grade matrix:

- 1. From Home screen, click Core Maintennce. Under Core Maintenance click, Credit Decision.
- 2. Under Credit Decision click, Maintenance,
- 3. Under Maintenance, click Decision Grade Matrix.
- 4. Under Decision Grade Matrix, click Create Decision Grade Matrix.

→ The Create Decision Grade Matrix screen is displayed.

Figure 207 : Create Decision Grade Matrix

Create Decision Grade Matrix		× ×
Basic Details		
Model Code * Effective Date * Product Processor * Select *	Model Description " Espiry Date " Priority "	
Extension Criteria Decision Matrix Grade Matrix Ib the Subtring Rule Crisate New Rule Rule Cose * Rule Cose * Select V	Rule Name	
		Save Cancel

5. On **Create Decision Grade Matrix** screen, specify the fields. The fields, which are marked with asterisk, are mandatory. For more information on fields, refer to the field description table below.

Table 175: Create Decision and Grade Matrix - Field Description

Field	Description	
Basic Details		
Model code	Specify the unique model code.	
Model Description	Specify a short description for the model.	
Effective Date	Select the effective date.	
Expiry Date	Select the expiry date.	
Product Processor	Specify the product processor for which the decision and grade matrix is being created.	
Priority	Specify the priority of the model.	

6. Click the **Selection Criteria** tab to configure the parameters based on which decision model is to be resolved.

Figure 208 : Create Decision C	Grade Matrix – Selection	Criteria Tab
--------------------------------	--------------------------	--------------

Create Decision Grade Matrix		2 ⁴⁶ - X
Basic Details		
Model Code * DML01 Effective Date * Aug 16: 2021 Product Processor * DRL0	Model Description * DML01 Expirp Date * Aug 22, 2021	
Selection Criteria Decision Matrix Grade Matrix Use Existing Rule Create New Rule Rules		
Rule Code * MLA3 *	Rule Name MLAT	
New		
Code * MLA3	Description MLA1	
Expression Builder		

Table 176 : Decision and Grade Matrix	- Selection Criteria Field Description
---------------------------------------	--

Field	Description				
The following fields appear if you click Selection Criteria Tab.					
Use Existing Rule	By default, this option is enabled. Indicates if the existing rule is linked.				
Rules					
Rule Code	Select the rule code from the drop-down list.				
0	Click this icon to get the information about the rule.				
Rule Name	View the rule name.				
Create New Rule	Select this option to create new rule.				
Expression Builder					
+ icon	Click this icon to add new expression.				
Fact / Rules	Select the fact or rule from the drop-down list.				
	Once you select the fact/rules one more field opens adjacent to the output, update the same based on the selected output option.				



Field	Description
Operator	Select the comparison operator from the drop-down list.
	The options are:
	• <
	• >
	• +
	• =
	• %
	• !=
	• -
	• >=
	• <=
	• *
	• /
	Contains
	• In
	• Like
	Matches
	Notmatches
	Notcontains
	Notin



Field	Description				
Data Type	Select the data type for the fact or rule. Once you select the data type one more field opens adjacent to the output, update the same based on the selected output option.				
	The options are:				
	• Text				
	Number				
	• Boolean				
	• Date				
	• Fact				
	• Rules				
	The below option appears if the Data Type is selected as Boolean .				
	• True				
	• False				
Output	Select the output from the drop-down list. Once you select the output one more field opens adjacent to the output, update the same based on the selected output option.				
	The options are:				
	• Text				
	Number				
	• Boolean				
	Date				
	• Fact				
	Rule				
	The below option appears if the Data Type is selected as Boolean .				
	• True				
	• False				
Expression	View the expression updated in the expression builder.				

7. Click the **Decision Matrix** tab to define decision on the application. You can select the feature for which the decision needs to be maintained like Quantitative/Qualitative.

Figure 209 : Create Decision Grade Matrix- Decision Matrix Tab

Create Decision Grad	ie Matrix					,* ×
Basic Details						
Model Code * DML01 Effective Date * Aug 17, 2021 Product Processor * OFL0		Model Description * DML01 Expiry Date * Aug 24 2021 Priority * 1	iii			
Decision Matrix	Decision Musik Brade Matrix a considered while defining a Range? For Example: if range a from 0 - 200 in 1st rov	and 200 - 500 in 2nd row then that means in the 2nd ro	w it will start from greater than (-)	200.		
	Age Description * Score From 100	Score To		X	Decision Approved	Ŧ
						Sive Carcol

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

Field	Description
The following fields appea	r if you click Decision Matrix Tab.
Add Column	Click Add Column , for addition of features for which decision has to be maintained.
×	Click this icon to delete a column, which is already added.
+ icon	Click this icon to add a new row.
- icon	Click this icon to delete a row, which is already added.
Score From	Specify the minimum range of score for the decision.
Score To	Specify the maximum range of score for the decision.
Decision	Specify the decision of an application from the drop-down list. The values are configurable based on the look up values maintained
	The options are:
	Approved
	Manual
	Rejected

Table 177 : Create Decision Grade Matrix - Decision	n Matrix Tab - Field Description
---	----------------------------------

Figure 210 : Create Decision Grade Matrix – Grade Matrix Tab

^{8.} Click the **Grade Matrix** tab to assign the grade to the application that is used during the pricing of the application. You can select the feature for which the grade needs to be maintained like Quantitative/Qualitative.

Create Decision Grade	Matrix		2 ¹⁰ ×
Basic Details			
Model Code *		odel Description *	
DML01		IML01	
Effective Date *		piry Date *	
Aug 17, 2021 Product Processor *		ug 24. 2021 ionity *	
OFLO		ionty -	
010			
Selection Criteria De	cision Matrix Grade Matrix		
Grade Matrix			
Note How decimal number is	considered while defining a Range? For Example: If range is from 0 - 200 in 1st row and 200 - 500 in 2nd row th	in that means in the 2nd row it will start from greater than $\left< \right>$ 200,	
Add Column			
	Age Description *	×	Grade
	Score From	Score To	
	100	200	A •
			Save Cancel

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

Field	Description
The following fields appea	r if you click Grade Matrix tab.
Add Column	Click Add Column , for addition of features for which decision has to be maintained.
×	Click this icon to delete a column, which is already added.
+ icon	Click this icon to add a new row.
- icon	Click this icon to delete a row, which is already added.
Score From	Specify the minimum range of the score for the grade.
Score To	Specify the maximum range of the score for the grade.
Grade	Specify the grade of the application based on the score scored. The values are configurable based on the look up values maintained.
	The options are:
	• A
	• B
	• C

Table 178 : Create Decision Grade Matrix – Grade Matrix Tab - Field Description

9. Click Save.

The decision grade matrix is successfully created and can be viewed using the **View Decision and Grade Matrix** screen.

3.51.2 View Decision Grade Matrix

Using this screen, you can view the decision grade matrix created using the **Create Decision Grade Matrix** screen. The status of the uploaded model is displayed as **Unauthorized** and **Open**. Once the checker authorizes the matrix, the status is updated to **Authorized** and **Open**.

To view an uploaded decision grade matrix:

- 1. From Home screen, click Core Maintenance. Under Core Maintenance click, Credit Decision.
- 2. Under Credit Decision, click Maintenance.
- 3. Under Maintenance, click Decision Grade Matrix.
- 4. Under Decision Grade Matrix, click View Decision Grade Matrix.
 - → The View Decision Grade Matrix screen is displayed.

Figure 211 : View Decision Grade Matrix

View Decision Gra	de Matrix			a ^d
۹ C +				
Model Code:	49	Model Code:	49	
Model Description: Product Processor:		Model Description: Product Processor:		
E Unauthorized	Open Open	Authorized	a Open	
Page 1 of 5	(1 - 10 of 42 iten	ns.) K < 1	2 3 4 5 >	ĸ

- 5. Click
- 6. Specify the search criteria to fetch the required decision grade matrix.

Figure 212 : View Decision Grade Matrix- Search Option

View Decision Grade Matrix				, ^d ×
Model Code	Model Description	Authorization Status	Record Status	
Search Reset				

7. Click Search.

Table 179 : View Decision Grade Matrix Field Description

Field	Description
The following fields are	displayed, once you click
Model Code	View the model code.

Field	Description
Model Description	View the model description.
Authorization Status	Select the authorization status of the model.
	The options are:
	Authorized
	Unauthorized
Record Status	Select the record status of the model.
	The options are:
	• Open
	Close

The following fields are displayed in the widget.

Field	Description
Model Code	Displays the model code.
Model Description	Displays the description of the model.
Product Processor	Displays the product processor for which the model is created.

- 8. Click this icon ito unlock, delete, authorize or view the created decision grade matrix.
- 9. Click ^O unlock to modify the following fields. The fields are displayed in the **Decision Grade Maintenance screen.** The following fields are editable.
 - Model Description
 - Effective Date, before authorization
 - Expiry Date
 - Priority
 - Rule Code
 - Add New fact or rule to the selection criteria
 - Score from
 - Score to
 - Decision
 - Grade

Figure 213 : Decision Grade Maintenancce - Modify

Decision Grade Maintenance			× 1
Basic Details			
Model Code * 0/05 Effective Date * Sep 5: 000 Product Processor * OFLO *		Model Description * dy06 Expiry/Date * Jul 20: 2021 Promy * 1	
Selection Criteria Decision Matrix Grade Matrix Use Existing Rule Create New Rule: Rules			
Rule Code * MLA3 * 0		Rule Name MLA1	
Rules			
Code * M(A3	Description MLA1		
Expression Builder			

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

Field	Description	
Basic Details		
Model Code	View the model code for created decision grade matrix.	
Model Description	View the description of the model for the created decision grade matrix.	
	You can modify the same.	
Effective Date	View the effective date of the model for the created decision grade matrix.	
Expiry Date	View the expiry date of the model for the created decision grade matrix.	
	You can modify the same.	
Product Processor	View the product processor for the created decision grade matrix.	
Priority	View the priority of the model for the created decision grade matrix.	
	You can modify the same.	
Selection Criteria		
Use Existing Rule	Indicates if the existing rule is linked.	
Rules		
Rule Code	View the rule code of the created decision grade matrix.	
	You can modify the same.	
2021	269	

Table 181 : View Decision Grade Matrix- Modify- Field Description

Field	Description	
0	Click this icon to get the information about the rule.	
Rule Name	View the rule name.	
Create New Rule	View the rule code for the created decision grade matrix.	
	You can modify the same.	
Rules		
Code	Specify the new rule code for decision grade matrix.	
Description	Specify the rule description for the decision grade matrix.	
Expression Builder		
+ icon	This icon can add new expression.	
Fact / Rules	View the fact or rule for the created decision grade matrix.	
Operator	View the comparison operator for the created decision grade matrix.	
Data Type	View the data type for the fact or rule for the created decision grade matrix.	
Output	View the output for the created decision grade matrix.	
Expression	View the expression updated in the expression builder for the created quantitative scoring model.	
Decision Matrix		
Add Column	Add Column, can add addition of features for which decision has to be maintained.	
×	This icon can delete a column, which is already added.	
+ icon	This icon can add new row.	
- icon	This icon can delete row, which is already added.	
Score From	View the minimum range of score for the decision.	
	You can modify the same.	
Score To	View the maximum range of score for the decision.	
	You can modify the same.	



Field	Description
Decision	View the decision of an application. The values are configurable based on the look up values maintained
	The options are:
	Approved
	Manual
	Rejected
	You can modify the same.
Grade Matrix	
Add Column	Add Column, can add addition of features for which decision has to be maintained.
×	This icon can delete a column, which is already added.
+ icon	This icon can add new row.
- icon	This icon can delete row, which is already added.
Score From	View the minimum range of score for the grade.
	You can modify the same.
Score To	View the maximum range of score for the grade.
	You can modify the same.
Grade	View the grade of the application based on the score scored. The values are configurable based on the look up values maintained.
	The options are:
	• A
	• B
	• C
	You can modify the same.

10. Click **Save**, to update the modified field.

11. Click to view the created decision grade matrix. The fields are displayed in **Decision Grade Maintenance** screen.

Figure 214 : Decision Grade Maintenancce – View

Decision Grade Maintenance		3 ³⁶ ×
Basic Details		
Model Code * 4y06 Effective Date * 5ys 5.200 Product Processor * ChU	Model Description * dyGG Expiring Data * Jul 82.0201 Priority * 1	
Schercline Coheris Decision Matrix Grade Matrix 0: Use Similary Rule O Create New Rule Rules Decision Matrix		
Rule Code * Select	Rule Name	
Audit		

Field	Description
Basic Details	
Model Code	View the created model code for decision grade matrix.
Model Description	View the description for the created decision grade matrix.
Effective Date	View the effective date for the created decision grade matrix.
Expiry Date	View the expiry date for the created decision grade matrix.
Product Processor	View the product processor for the created decision grade matrix.
Priority	View the priority for the created decision grade matrix.
Selection Criteria	
Use Existing Rule	Indicates if the existing rule is linked.
Rules	
Rule Code	View the rule code of the created decision grade matrix.
0	Click this icon to get the information about the rule.
Rule Name	View the rule name.
Create New Rule	View if new rule is linked to the created decision grade matrix.

Table 182 : Decision Grade Maintenance- View- Field Description



Field	Description
Rules	
Code	Specify the new rule code for decision grade matrix.
Description	Specify the rule description for the decision grade matrix.
Expression Builder	
+ icon	This icon can add new expression.
Fact / Rules	View the fact or rule for the created decision grade matrix.
Operator	View the comparison operator for the created decision grade matrix.
Data Type	View the data type for the fact or rule for the created decision grade matrix.
Output	View the output for the created decision grade matrix.
Expression	View the expression updated in the expression builder for the created quantitative scoring model.
Decision Matrix	
Add Column	Add Column, adds addition of features for which decision has to be maintained.
×	This icon deletes a column, which is already added.
+ icon	This icon adds a new row.
- icon	This icon deletes a row, which is already added.
Score From	View the minimum range of score for the decision.
Score To	View the maximum range of score for the decision.
Decision	View the decision of an application. The values are configurable based on the look up values maintained
	The options are:
	Approved
	• Manual
	Rejected
Grade Matrix	
Add Column	Add Column, adds addition of features for which decision has to be maintained.



Field	Description	
×	This icon deletes a column, which is already added.	
+ icon	This icon adds a new row.	
- icon	This icon deletes a row, which is already added.	
Score From	View the minimum range of score for the grade.	
Score To	View the maximum range of score for the grade.	
Grade	View the grade of the application based on the score scored. The values are configurable based on the look up values maintained.	
	The options are:	
	• A	
	• B	
	• C	

3.52 Pricing

Risk-based pricing refers to the offering of different interest rates to different customers depending on their credit worthiness. Thus, not all borrowers for the same product receives the same interest rate and credit terms. This means that high-risk borrowers who are less likely to repay their loans in full and on time will be charged higher rate of interest. While the low risk borrowers, having greater capacity to make payments will be charged lower rate of interest.

3.52.1 Create Pricing Model

Using this screen, you can create pricing model based on various pricing parameter by updating various details.

To create a pricing set up:

- 1. From Home screen, click Core Maintenance. Under Core Maintenance click, Credit Decision.
- 2. Under Credit Decision click Maintenance.
- 3. Under Maintenance, click Pricing.
- 4. Under Pricing, click Create Pricing Model.
 - \rightarrow The Create Pricing Model screen is displayed.

Figure 215 : Create Pricing Model



Create Pricing Model	× *<
Basic Details	
Pricing Code * Effective Date * Troduct Processor *	Pricing Description * Expiry Desc * Pricing *
Select Selection Criteria Price Definition Use Existing Rule Crease New Rule	
Rules Rule Cole * Jaiver *	Rule Name
	Save Cancel

5. On **Create Pricing Model** screen, specify the fields. The fields, which are marked with asterisk, are mandatory. For more information on fields, refer to the field description table below.

Field	Description
Basic Details	
Pricing Code	Specify the unique pricing code.
Pricing Description	Specify a short description for the pricing.
Effective Date	Select the effective date.
Expiry Date	Select the expiry date.
Product Processor	Specify the product processor for which the pricing is being defined.
Priority	Specify the priority of the pricing.

Table 183 : Create Pricing Model – Field Description

6. Click the Selection Criteria tab to define pricing.

Figure 216 : Create Pricing Model - Selection Criteria Tab

Create Pricing Model		
Basic Details		
Pricing Code * DML02 Effective Date * Aug 19 2021 Product Processor OFL0 V	Pricing Description " axaa Belejop Data " Aug 24, 2021 mm Pricing " 1	
Selection Criteria Price Definition Use Existing Rule Crease New Rule		
Rules Rule Code * MLA1 *	Rule Name MLA1	
New		
Rules		
Code * MLA3	Description MLA1	
Expression Builder		



Field	Description
The following fields appear if you click the Selection Criteria Tab.	
Use Existing Rule	By default, this option is enabled. Indicates if the existing rule is linked.
Rules	
Rule Code	Select the rule code from the drop down list.
0	Click this icon to get the information about the rule.
Rule Name	View the rule name.
Create New Rule	Select this option to create new rule.
Rules	
Code	View the rule code.
Description	View the rule description.
Expression Builder	
+ icon	Click this icon to add new expression.
Fact / Rules	Select the fact or rule from the drop-down list.
	Once you select the fact/rules one more field opens adjacent to the output, update the same based on the selected output option.

Table 184 : Create Pricing Model – Selection Criteria - Field Description



Field	Description
Operator	Select the comparison operator from the drop-down list.
	The options are:
	• <
	• >
	• +
	• =
	• %
	• !=
	• -
	• >=
	• <=
	• *
	• /
	Contains
	• In
	• Like
	Matches
	Notmatches
	Notcontains
	Notin



Field	Description
Data Type	Select the data type for the fact or rule. Once you select the data type one more field opens adjacent to the output, update the same based on the selected output option.
	The options are:
	• Text
	Number
	• Boolean
	Date
	Fact
	Rules
	The below option appears if the Data Type is selected as Boolean .
	• True
	• False
Output	Select the output from the drop-down list. Once you select the output one more field opens adjacent to the output, update the same based on the selected output option.
	The options are:
	• Text
	Number
	• Boolean
	Date
	Fact
	Rule
	The below option appears if the Data Type is selected as Boolean .
	• True
	False
Expression	View the expression updated in the expression builder.

7. Click the Price Definition tab to define pricing.

Figure 217 : Create Pricing Model – Price Definition Tab

ORACLE

Create Pricing Model		, * ×
New		
Basic Details		
Pricing Code *	Pricing Description *	
Effective Date *	Expiry Date *	
		
Product Processor *	Priority *	
•		
Selection Criteria Price Definition Price Definition		
Minimum Rate *	Maximum Rate *	
Rate Type *	Rate %	
		Save Cancel

Field	Description	
The following fields appear if you click Price Definition Tab.		
Minimum Rate	Specify the minimum rate applicable for the defined pricing code.	
Maximum Rate	Specify the maximum rate applicable for the defined pricing code.	
Rate Type	Specify the rate type from the drop-down list.	
	The options are:	
	• Flat	
	• Tiered	
Rate %	Specify the interest rate application for the defined pricing.	
	This field appears once you select the Rate Type option as Flat .	
The below field appears if you select the Rate Type option as Tiered . The below columns are available as Facts in a drop down and you need to select the same.		
Loan Amount From	Specify the minimum range of loan amount to which the interest rate is applicable.	
Loan Amount To	Specify the maximum range of loan amount to which the interest rate is applicable.	
Term From	Specify the minimum term from which the interest rate is applicable.	
Term To	Specify the maximum term up to which the interest rate is applicable.	
Rate %	Specify the interest rate applicable for the defined tier.	

Table 185 : Create Pricing Model – Price Definition – Field Description

8. Click Save.

The Pricing model is successfully created and can be viewed using View Pricing Model Screen.

3.52.2 View Pricing Model

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

To view created Pricing Model:

- 1. From Home screen, click Core Maintenance. Under Core Maintenance click, Credit Decision.
- 2. Under Credit Decision, click Maintenance.
- 3. Under Maintenance, click Pricing.
- 4. Under Pricing, click View Pricing Model.
 - → The View Pricing Model screen appears.

Figure 218 : View Pricing Model

View Pricing Model		,,* ×
ч с +		
Pricing Description:	Pricing Description:	
Pricing Code:	Pricing Code:	
🕞 Unauthorized 🔒 Open	🛃 Unauthorized 🔒 Open	
Page 1 of 20 (1 - 10 of 191 items) к < 1 2 3 4 5 20 > ж	

0 5. Click

6. Specify the search criteria to fetch the required pricing model.

Figure 219 : View Pricing Model- Search Option

View Pricing Model				,* ×
Pricing Code	Pricing Description	Authorization Status	Record Status	
		Ψ.		
Search Reset				

7. Click Search.

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

Table 186 : View Pricing Model -Search Option- Field Description

	Field	Description	
	The following fields are	displayed, once you click	
aht	@ 2021	280	ORACLE

Field	Description		
Pricing Code	View the pricing code.		
Pricing Description	View the description of the pricing model.		
Authorization Status	Select the authorization status of the model. The options are:		
	Authorized		
	Unauthorized		
Record Status	Select the record status of the model. The options are:		
	Open		
	Close		

The following fields are displayed in the widget.

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

Table 187 : View Pricing Model - Field Description

Field	Description	
Pricing Code	Displays the pricing code.	
Pricing Description	Displays the description of the pricing model.	
Product Processor	Displays the product processor for which the pricing model is created.	

- 8. Click this icon it to unlock, delete, authorize or view the created pricing model.
- 9. Click ^O unlock to modify the following fields. The fields are displayed in the **Pricing Model Maintenance** screen. The following fields are editable.
 - Pricing Description
 - Effective Date, before authorization
 - Expiry Date
 - Priority
 - Rule Code
 - Add new fact o rule to the selection criteria
 - Loan Amount From
 - Loan Amount To
 - Term From
 - Term To
 - Rate Type
 - Rate %

Figure 220 : Pricing Model Maintenance – Modify



Pricing Model Maintenance			1
Basic Details			
Pricing Code * 17-20211001111019 Effective Das * Oct 1, 2021 Product Processor * OFL0 *		Richog Description * Pricing Description Grade 8 Explay Date * Cot 1: 3031	
Selection Criteria Price Definition Use Existing Rule Crease New Rule Rule Rule Crease *		fiule Name	
Natincome New Rules		Netincome	
Code * Netincome Expression Builder	Description NetIncome		

Field	Description
Basic Details	
Pricing Code	View the pricing code for created pricing model.
Pricing Description	View the description of the pricing for the created pricing model.
	You can modify the same.
Effective Date	View the effective date of the pricing for the created pricing model.
Expiry Date	View the expiry date of the pricing for the created pricing model.
	You can modify the same.
Product Processor	View the product processor for the created pricing model.
Priority	View the priority of the pricing for the created pricing model.
	You can modify the same.
Selection Criteria	
Use Existing Rule	Indicates if the existing rule is linked.
Rules	
Rule Code	View the rule code of the created pricing model.
	You can modify the same.
0	Click this icon to get the information about the rule.

Table 188 : Pricing Model Maintenance - Modify- Field Description

Field	Description
Rule Name	View the rule name.
Create New Rule	View if new rule is linked to the pricing model.
	You can modify the same.
Rules	
Code	Specify the new rule code for the created pricing model.
Description	Specify the rule description for the created pricing model.
Expression Builder	
+ icon	This icon can add new expression.
Fact / Rules	View the fact/rules of the created pricing model.
Operator	View the comparison operator of the created pricing model.
Data Type	View the data type for the fact or rule of the created pricing model.
Output	View the output of the created pricing model.
Expression	View the expression updated in the expression builder of the created pricing model.
Pricing Definition	
Minimum Rate	View the minimum rate applicable for the defined pricing model.
	You can modify the same.
Maximum Rate	View the maximum rate applicable for the defined pricing model.
	You can modify the same.
Rate Type	View the rate type from the drop-down list.
	The options are:
	• Flat
	• Tiered
	You can modify the same.



Field	Description
Rate %	View the interest rate application for the defined pricing.
	This field appears once you select the Rate Type option as Flat .
	You can modify the same.
Below field appears if th are available as "Facts"	ne rate type is updated as Tiered . The below columns in a drop down.
You can modify the san	ne.
Loan Amount From	View the minimum range of loan amount to which the interest rate is applicable.
	You can modify the same.
Loan Amount To	View the maximum range of loan amount to which the interest rate is applicable.
	You can modify the same.
Loan Tenure From	View the minimum term from which the interest rate is applicable.
	You can modify the same.
Loan Tenure To	View the maximum term up to which the interest rate is applicable.
	You can modify the same.
Rate %	View the interest rate applicable for the defined tier.

10. Click **Save**, to update the modified fields.

11. Click to view the created pricing model. The fields are displayed in **Pricing Model Maintenance** screen.

Figure 221 : Pricing Model Maintenance – View

ricing Model Maintenance			2
asic Details			
Pricing Code * TPr20211001171019 Effective Date * Oct 1, 2021 Product Processor * OFLO	Pricing Descrip Pricing Descri City 10 ar Oct. 3.331 Priority * 09	iption Grade 8	
Belection Criteria Price Definition Use Existing Rule Create New Rule			
Rules Rule Code * Netincome		Rule Name Netincome	
New Rules			
Code * Netincome	Description NetIncome		
Expression Builder			



ORACLE

Field	Description			
Basic Details				
Pricing Code	View the pricing code for created pricing model.			
Pricing Description	View the description of the pricing for the created pricing model.			
Effective Date	View the effective date of the pricing for the created pricing model.			
Expiry Date	View the expiry date of the pricing for the created pricing model.			
Product Processor	View the product processor for the created pricing model.			
Priority	View the priority of the pricing for the created pricing model.			
Selection Criteria				
Use Existing Rule	Indicates if the existing rule is linked.			
Rules				
Rule Code	View the rule code of the created pricing model.			
0	Click this icon to get the information about the rule.			
Rule Name	View the rule name for the created pricing model.			
Create New Rule	View if new rule is linked to the pricing model.			
Rules				
Code	View the new rule code for created pricing model.			
Description	View the rule description for the created pricing model.			
Expression Builder				
+ icon	This icon adds a new expression.			
Fact / Rules	View the fact/rules of the created pricing model.			
Operator	View the comparison operator of the created pricing model.			
Data Type	View the data type for the fact or rule of the created pricing model.			
Output	View the output of the created pricing model.			

Field	Description	
Expression	View the expression updated in the expression builder of the created pricing model.	
Pricing Definition		
Minimum Rate	View the minimum rate applicable for the defined pricing model.	
Maximum Rate	View the maximum rate applicable for the defined pricing model	
Rate Type	View the rate type from the drop-down list.	
	The options are:	
	• Flat	
	• Tiered	
Rate %	View the interest rate application for the defined pricing.	
	This field appears once you select the Rate Type option as Flat .	
Below field appears if th are available as "Facts'	ne rate type is updated as Tiered . The below columns ' in a drop down.	
Loan Amount From	View the minimum range of loan amount to which the interest rate is applicable.	
Loan Amount To	View the maximum range of loan amount to which the interest rate is applicable.	
Loan Tenure From	View the minimum term from which the interest rate is applicable.	
Loan Tenure To	View the maximum term up to which the interest rate is applicable.	
Rate %	View the interest rate applicable for the defined tier.	

3.53 View Execution Summary

Execution summary enables user to view the decisions, credit score and pricing for the processed application.

3.53.1 View Execution Summary

Using this screen, you can view the execution summary based on the various filter options provided.

To view execution summary:

1. From Home screen, click Core Maintenance. Under Core Maintenance click, Credit Decision.



- 2. Under Credit Decision click, Operations.
- 3. Under **Operations**, click **Execution Summary**.
 - → The Execution Summary screen appears.

Figure 222 : View Execution Summary

+							
Filter							
Select	*						
						R	eset Sean
Scoring Decision Summ	ary						
Product Processor	Request Type	Contract ID	Request Reference Number	Internal Reference Number	Execution Date	Mode	Status
			O9yN6ghMD41P9yN6ghMD41Q9yN6ghMD41R9yN6ghMD41S	CD520211025152426597	Oct 25, 2021	ONLINE	FAILURE
▶ OFLO	Score, Decision & Pricing	123	Cosynogrimiter i Poynogrimiter i Cosynogrimiter i Kosynogrimiter i S				
	Score, Decision & Pricing	123	WhoXmqcMD41XhoXmqcMD41YhoXmqcMD41ZhoXmqcMD4	CD520211025152321123	Oct 25, 2021	ONLINE	ERROR
 > OFLO > OFLO > OFLO 	Score, Decision & Pricing Decision & Grade	123					
OFLO			WhoXmqcMD41XhoXmqcMD41YhoXmqcMD41ZhoXmqcMD4	CD520211025152321123	Oct 25, 2021	ONLINE	ERROR

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

Table 190 : Execution Summary Field Description

Field	Description	
Search Criteria		
+ icon	Click this icon to add a new row.	
- icon	Click this icon to delete a row, which is already added.	
Filter	Select the required option based on which you can search for the execution summary.	
	The options are:	
	Reference Number	
	Internal Reference Number	
	Decision	
	Batch/Online	
	Product Processor	
	Status	
	Request Type	
	Execution Date	
	Contract ID	

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

- 4. In the **Search Criteria** section, specify the details and click **Search**. The search results appear showing a list of records based on the specified search criteria.
- 5. Click **Reset**, to reset the search criteria.

Figure 223 : Execution Summary Search Option

Re	eset Searc
Mode	Status
ONLINE	FAILURE
ONLINE	ERROR
ONLINE	SUCCESS
ONLINE	FAILURE
	ONLINE ONLINE ONLINE

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

Field	Description			
Scoring Decision Summary				
Product Processor	View the name of the product processor that sent the request.			
Request Type	View the request type sent by product processor.			
Contract ID	View the contract ID sent by the product processor.			
Reference Number	View the request reference number sent by product processor.			
Internal Reference Number	View the internal reference number of the application.			
Execution Date	View the execution date of the processing application.			
Mode	View the mode of execution of the application.			
Status	View the status of the processed application.			

Table 191 : Execution Summary- Search option- Field Description

6. Click the icon corresponding to the required record to view the decision related details on each widget. Only one record is viewed at a time. If you need to view another record, you have to click on to close the already open record and then the next record can be viewed. The widgets are arranged in the flow in which the execution is done and is indicated by showing the sequence 1, 2, 3 numbers in the top right corner. The widgets are clickable on hover the color of the widget changes to indicate the widget is clickable.



7. When the status of processed application is **Failure**, on click of the Failure message is displayed in the step that is failed. For example, in case of **Qualitative Score Model** is not resolved, then the error message is displayed in the **Qualitative Score Model** widget and the previous widget will show the data which was processed. Where in if the logical processing fails, then the status **Fail** is shown in the **Logical Model** widget and reason for failure is displayed on click of the widget.

View Execution Summary						×
Search Criteria						
•						
Filter	Value					
Decision	* Approved	*				Reset Search
Scoring Decision Summary	: 					
Product Processor	Request Type	Contract ID	Request Reference Number	Internal Reference Number	Execution Date	Mode Status
OFLO	fetchAll	123	6f6O5avEZ317f6O5avEZ318f6O5avEZ319f6O5avEZ31af6O5avE	CD520211001111124418	Oct 1, 2021	ONUNE SUCCES
	Logical Model	1	Borrowing Capacity 2	Qualitative Score	3	
	Logical Model Code : Description : Status :	LMC101 LMC101 PASS	Eligibility Code BORCAP001 Description: BORCAP001 Requested Amount \$33900 Borrowing Capacity: \$150000.0	Scoring Model Code : Description : Score :	APPOAL502 APPOAL502 67.5	
	Quantitative Score Scoring Model Code : Description :	4 REJECT REJECT	Decision and Grade 5 Model Code : REJECT Description : REJECTURE CASE	Pricing Pricing Model Code : Description :	6 REJECT REJECT	
	Score :	450	Decision : Approved Grade: 8	BateType: Rate (%):-	Flat S	

Figure 224 View Execution Summary

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

Table 192 : View Execution Summary Field Description

Field	Description		
The following widgets are displayed, once you click this \blacktriangleright .			
Logical Model Widget	View the status of the logical model processed.		
The following fields appear in Logical Model widget.			
Logical Model Code			
View the logical model code, resolved for credit decision.			
Description	View the logical model description, resolved for the credit decision.		
Status	View the status of the logical model processed.		
	• For status Pass , the color is shown as Green .		
	• For status, Fail the color is shown as Red .		
Borrowing Capacity Widget			
View the maximum lendable	e amount that can be given for an application.		
The following fields appear in Borrowing Capacity widget.			

Field	Description
Eligibility Code	View the eligibility model code, resolved for calculating the borrowing capacity.
Description	View the eligibility model description, resolved for calculating the borrowing capacity.
Requested Amount	View the requested amount for the lending application.
Borrowing Capacity	View the maximum lendable amount that can be given for the application.
Qualitative Score Widget View the qualitative credit s	score, post credit decision of the application.
The following fields appear	in Qualitative Score widget.
Scoring Model Code	View the scoring model code, resolved for credit decision.
	• When Is Application Decision Required is Yes , the application level decision scoring code is displayed.
	• When Is Application Decision Required is No , the applicant level decision scoring code is displayed.
	• When Is Application Decision Required is No, and Is Primary Applicant is No, the application level decision scoring code is displayed.
Description	View the scoring model description, resolved for credit decision.
Score	View the qualitative credit score post credit decision of the application.
	 When Is Application Decision Required is Yes, the system performs the aggregation, which can be minimum, maximum or average of all applicant's score. The aggregation performed is defined as rules and linked at the application level scoring model and this aggregated score is displayed. When Is Application Decision Required is No, the
	score is displayed by resolving the applicant level scoring model.
	• When Is Application Decision Required is No, and Is Primary Applicant is No, the system performs the aggregation, which can be minimum, maximum or average of all applicant's score. The aggregation performed is defined as rule and linked at the application level scoring model and this aggregated score is displayed.



Field	Description		
Quantitative Score Widge	t		
View the quantitative credit	score post credit decision of the application.		
The following fields appear in Quantitative Score widget.			
Scoring Model Code	View the scoring model code, resolved for credit decision.		
	• When Is Application Decision Required is Yes , the application level decision scoring code is displayed.		
	• When Is Application Decision Required is No , the applicant level decision scoring code is displayed.		
	• When Is Application Decision Required is No, and Is Primary Applicant is No, the multi applicant level scoring code is displayed.		
Description	View the scoring model description, resolved for credit decision.		
Score	View the quantitative credit score, post credit decision of the application.		
	• When Is Application Decision Required is Yes , the system performs the aggregation, which can be minimum, maximum or average of all applicant's score. The aggregation performed is defined as rules and linked at the application level scoring model and this aggregated score is displayed.		
	 When Is Application Decision Required is No, the score is displayed by resolving the applicant level scoring model. 		
	 When Is Application Decision Required is No, and Is Primary Applicant is No, score is displayed by resolving the multi applicant level scoring model. 		
Decision and Grade Widg	et		
View the credit decision and	d scoring grade, taken for the application.		
The following fields appear	in Quantitative Score widget.		
Model Code	View the model code, resolved for credit decision and grade.		
Description	View the model description, resolved for credit decision and grade.		
Decision	View the credit decision, taken for the application.		
Grade	View the scoring grade, post credit decision of the application.		
Pricing Widget	1		
View the rate applicable po	st credit decision.		



Field	Description			
The following fields appear in Quantitative Score widget.				
Pricing Model Code	View the pricing model code, resolved for credit decision.			
Description	View the pricing model description, resolved for credit decision.			
Rate Type	View the rate type applicable post credit decision.			
Rate %	View the rate applicable post credit decision.			

The following fields are displayed once you click the **Logical Model** widget. The details for the request which was clicked on the landing page is displayed.

Figure 225 : Logical Model Widget

.0	Score, Decision & Pricing	yXIMS7jtD41zXIMS7jt	tD41AXIMS7jtD41BXIMS7jtD41CXIMS7jtD	CDS20211025105859	9136	2021-10-25T05:28:59.594Z	ONLINE	SUCCI
Logical Model	Borrowing C 5135.0		Qualitative Score 70	Quantitative Score 364.3		ion & Grade ual - Queue A Grade : B		ricing 6 %
Logical Model Code :	LMC101		Description : LMC101		Status :	PASS		
Rule ID	Sequence		Status					
Logic3 🜖	1		PASS					
Logic2 🚯	2		PASS					

Field	Description		
The following fields appears in Logical Model widget.			
Product Processor	View the name of the product processor that sent the request.		
	This field will be shown on click of each widget.		
Request Type	View the request type sent by the product processor.		
	This field will be shown on click of each widget.		
Contract ID	View the contract ID sent by the product processor.		
	This field will be shown on click of each widget.		
Request Reference Number	View the request reference number sent by product processor.		
	This field will be shown on click of each widget.		



Field	Description
Internal Reference Number	View the internal reference number of the application.
Number	This field will be shown on click of each widget.
Execution Date	View the execution date of the processing application.
	This field will be shown on click of each widget.
Mode	View the mode of execution of the application.
	This field will be shown on click of each widget.
<logical code="" model=""></logical>	View the logical model code that is resolved for credit decision.
Description	View the description of the logical model.
Status	View the status of logical model.
Rule ID	View the rule ID executed for logical model processing.
0	Hover this icon to get the rule description.
Sequence	View the sequence in which the rules are executed for logical model processing.
Status	View the status of the rule execution. In case the status is failed, the reason for failure is displayed as Reason <> .

The following fields are displayed once you click the **Borrowing Capacity** widget.

Figure 226 : Borrowing Capacity Widget

6135.03 70 384.3 Montal - Quede A Grade : B 6 % ORCAP001 Ellipibility Description : SORCAP001 Ellipibility Descripity Description : SORCAP01	Logical Model Borrowing Capacity Qualitative Score Quantitative Score Decision & Grade B Pricing 6 % 364.3 Menual - Quark A Grade : B 6 % 6 % 364.3 Reguested Amount Borrowing Capacity Fact Rule ID		Request Type	Request Referenc	e Number		Internal Reference Number	Execution Date	Mode	Status
Eligibility Description : BORCAP001 Eligibility Description : BORCAP001 ant Borrowing Capacity Fact Rule ID	ERASS Status Fact Rule ID	.0	Score, Decision & Pricing	yXIMS7jtD41zXIM	IS7jtD41AXIMS7jtD41BXIMS7jtD41CXIMS7jtD		CDS20211025105859136	2021-10-25T05:28:59.594Z	ONLINE	SUCCES
unt Borrowing Capacity Fact Rule ID	Requested Amount Borrowing Capacity Fact Rule ID									
		Eligibility Code : BOR	CAP001		Eligi	bility Description	: BORCAP001			
		Requested Amount 35000			g Capacity		Amt			
		00		5135.03		MaxLend.	amt	BRCAPTU		

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

Table 194 : Borrowing Capacity Widget - Field Description

Field	Description
The following fields appea	rs in Borrowing Capacity widget.



Field	Description
<eligibility code=""></eligibility>	View the eligibility code resolved for calculating the borrowing capacity.
Eligibility Description	View the eligibility description resolved for calculating the borrowing capacity.
Requested Amount	View the requested amount for the lending application.
Borrowing Capacity	View the maximum lendable amount that can be given for an application.
Fact	View the fact using which the maximum lendable amount was calculated.
Rule ID	View the rule ID executed for calculating the maximum lendable amount.
0	Hover this icon to get the rule description.

The following fields are displayed once you click the **Qualitative Score** widget.

Figure 227 : Qualitative Score Widget – Bar Graph View

roduct Processor	Request Type	Request Reference	Number	Inte	ernal Reference Number	Execution Date	Mode	Status
FLO	Score, Decision & Pricing	yXIMS7jtD41zXIMS	7jtD41AXIMS7jtD41BXIMS7jtD41CXIMS7jtD	CD	\$20211025105859136	2021-10-25T05:28:59.594Z	ONLINE	SUCCESS
Logical Model	Borrowing C 5135.0		Qualitative Score 70	Quantitative Scor 364.3		cision & Grade anual - Queue A Grade : B		ricing 6 %
Scoring Model Code	APCT311	1	Description : Qualitative scoring model APCT3	111	We	sightage Score : 70 🕚		
Mrs Amy A Anderson Score : 70	Graph View Data View							
	80 70 800 50 50 50 50 50 50 50 50 50 50 50 50 5							Medium Strong Weak

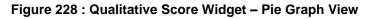






Figure 229 : Qualitative Score Widget – Data View

roduct Processor	Request Type	Request Referen	ce Number	Internal	Reference Number	Execution Date	Mode S	tatus
FLO	Score, Decision & Pricing	yXIMS7jtD41zXIN	//S7jtD41AXIMS7jtD41BXIMS7jtD41CXIMS7jtD	CD\$202	11025105859136	2021-10-25T05:28:59.594Z	ONLINE SI	JCCESS
Logical Model	Borrowing Ca 5135.03		Qualitative Score 70	Quantitative Score 364.3		cision & Grade anual - Queue A Grade : B	Pricing 6 %	
Scoring Model Code :	APCT311		Description : Qualitative scoring model APCT3	11	We	rightage Score : 70 🕚		
Applicants	Mrs Amy A Anderson	Sco	ring Model Code : APCT311	Description : Qualitative	scoring model APCT311	Weightage Sco	ore : 70 🚯	
Mrs Amy A Anderson Score : 70	Graph View Data View							
	Scoring Details							
	Question Code		Question			Value	Score	
	AgeOfResidence		Number of years the applicant staying at present	address		Less than 2 year	70	
	TypeOfResident		Applicant Resident Type			Rented	70	
	EmploymentDuration How many years in current employment					Less than 2 year	70	

Field	Description					
The following fields appea	ars in Qualitative Score widget.					
<scoring code="" model=""></scoring>	View the scoring model code resolved for credit decision.					
	 When Is Application Decision Required is Yes, the application level decision scoring code is displayed. When Is Application Decision Required is No, the applicant level decision scoring code is displayed. When Is Application Decision Required is No, and Is 					
	Primary Applicant is No, the application level scoring code is displayed.					
Description	View the scoring model description resolved for credit decision.					

Table 195 : Qualitative Score Widget - Field Description



Field	Description				
Weightage Score/Application Score	View the qualitative credit score post credit decision of the application.				
	• When Is Application Decision Required is Yes , the field name is displayed as Application Score . The system performs the aggregation, which can be minimum, maximum or average of all applicant's score. The aggregation performed is defined as rules and linked at the application level scoring model and this aggregated score is displayed.				
	 When Is Application Decision Required is No, the field name is displayed as Weightage Score. The score is displayed by resolving the applicant level scoring model. 				
	• When Is Application Decision Required is No, and Is Primary Applicant is No, the field name is displayed as Application Score. The system performs the aggregation, which can be minimum, maximum or average of all applicant's score. The aggregation performed is defined as rules and linked at the application level scoring model and this aggregated score is displayed				
0	Hover this icon to get the information about the formula for calculation of score.				
Applicant details are show	n at the left panel.				
<applicant name=""></applicant>	View the applicant names present in the application.				
<score></score>	View the weighted credit score post credit decision of the application.				
	The score is calculated for each applicant by resolving the applicant level scoring model.				
Applicant details are show	n at the left panel.				
<applicant name=""></applicant>	View the applicant names present in the application.				
Scoring Model Code	View the applicant level scoring model code resolved for credit decision.				
Description	View the applicant scoring model description.				
Weightage Score	View the weighted credit score post credit decision of the application.				
0	Hover this icon to get the information about the formula for calculation of score.				



Field	Description
Graph View	Two graphical views are available.
	Bar Graphs
	The details are shown as a graphical representation as bar charts.
	 List of question ID on the X-axis
	• Score on the Y-axis.
	Based on the evaluation of the category, the questions are shown in a particular color based on the maintenance done in the lookups screen.
	Pie Charts
	The details are shown as a graphical representation as pie charts.
	The calculation logic for the question is (Score of the question/ Weightage score of the applicant)*100. The pis is shown from a pool of colors available/defined in the code.
Data View	The scoring details are shown as mentioned below in data view.
Scoring Details	
Question Code	View the question code resolved for the applicant in the scoring model.
Question	View the question description resolved for the applicant in the scoring model.
Value	View the response received for the question in the payload.
Score	View the score calculated for the question based on the range and the response.
	In case any question was optional for which the response was not received, NA will be displayed.

The following fields are displayed once you click the **Quantitative Score** widget.

Figure 230 : Quantitative Score Widget – Bar Graph View



roduct Processor	Request Type	Request Refer	ence Number	Internal Reference N	lumber Execution Date	Mode Status
FLO	Score, Decision & Pricing	yXIMS7jtD41z	XIMS7jtD41AXIMS7jtD41BXIMS7jtD41CXIMS7jtD	CDS2021102510585	9136 2021-10-25T05:28:59.594Z	ONLINE SUCCE
Logical Model		g Capacity 5.03	Qualitative Score 70	Quantitative Score 364.3	Decision & Grade Manual - Queue A Grade : B	Pricing 6 %
Scoring Model Code :	APP502		Description : APP502		Weightage Score : 364.3 1	
Applicants Mrs Amy A Anderson Score : 364.3	Mrs Amy A Anderson Graph View Data View Latt		Scoring Model Code: APP502	Description : APP502	Weightage Score : 064.3	0
	240 200 8 160 8 160 8 100 8 100 100					E Medium E Stong E West



oduct Processor	Request Type	Request Ref	ference Number	Internal Reference Nun	nber Execution Date	Mode Status
10	Score, Decision & Pricing	yXiMS7jtD4	1zXIMS7jtD41AXIMS7jtD41BXIMS7jtD41CXIMS7jtD	CDS202110251058591	36 2021-10-25705:28:59:594Z	ONLINE SUCCES
Logical Model PASS		wing Capacity 5135.03	Qualitative Score 70	Quantitative Score 364.3	Decision & Grade Manual - Queue A Grade : B	Pricing 6 %
Scoring Model Code :	APP502		Description : APP502	w	eightage Score : 364.3 0	
plicants	Mrs Amy A Anderson		Scoring Model Code: APP502	Description : APP502	Weightage Score : 364.	0
Mrs Amy A Anderson Score : 364.3	Graph View Data View]				
	Lint 😍					
			0.303% 3.03%	6.62%		
						EmploymentType FICOScore Net Income Description Age Description

Figure 232 : Quantitative Score Widget – Data View

roduct Processor	Request Type	Request Referen	nce Number		Internal R	leference Number	Execution Date	Mode	Status
FLO	Score, Decision & Pricing	yXIMS7jtD41zXI	MS7jtD41AXiMS7jtD	41BXIMS7jtD41CXIMS7jtD	CDS2021	1025105859136	2021-10-25T05:28:59.594Z	ONLINE	SUCCESS
Logical Model PASS		g Capacity 35.03	Qua	alitative Score 70	Quantitative Score 364.3		Necision & Grade Manual - Queue A Grade : B		Pricing 6 %
Scoring Model Code : A	APP502		Descrip	tion : APP502		Weightage S	core : 364.3 🕕		
Applicants	Mrs Amy A Anderson		Scoring Model (Code: APP502	Description : AP	P502	Weightage Score :	64.3 O	
Mrs Amy A Anderson Score : 364.3	Graph View Data View								
	Scoring Details								
	Feature		Value	Range Type	Range	Weightage %	Score	Weightage Score	
	EmploymentType		Full Time	Value	Full Time	25	70	17.5	
	FICOScore		970	MaxValue	700-999	35	680	238	
	Net Income Description		13700.0	Value	5000-50000	20	40	8	
	Age Description		20	ParamPercent	0-25	20	4	0.8	

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

Table 196 : Quantitative Score Widget - Field Description

Field	Description
The following fields appear	s in Quantitative Score widget.

Field	Description
<scoring code="" model=""></scoring>	View the scoring model code resolved for credit decision.
	• When Is Application Decision Required is Yes , the application level decision scoring code is displayed.
	• When Is Application Decision Required is No , the applicant level decision scoring code is displayed.
	• When Is Application Decision Required is No, and Is Primary Applicant is No, the multi applicant level scoring code is displayed.
Description	View the scoring model description resolved for credit decision.
Weightage Score	View the weightage score post credit decision of the application.
	• When Is Application Decision Required is Yes , the system performs the aggregation, which can be minimum, maximum or average of all applicant's score. The aggregation performed is defined as rules and linked at the application level scoring model and this aggregated score is displayed.
	 When Is Application Decision Required is No, the score is displayed by resolving the applicant level scoring model.
	 When Is Application Decision Required is No, and Is Primary Applicant is No, the score is displayed by resolving multi applicant level scoring model.
0	Hover this icon to get the information about the formula for calculation of score.
Applicant details are show	n at the left panel.
<applicant name=""></applicant>	View the applicant names present in the application.
<score></score>	View the weighted credit score post credit decision of the application.
	The score is calculated for each applicant by resolving the applicant level scoring model.
	In case of multi applicant scenario, weightage score per applicant is not shown.
Below details are shown a	t the right panel.
<applicant name=""></applicant>	View the applicant names present in the application.



Field	Description					
Scoring Model Code	View the applicant level scoring model code resolved for credit decision.					
	Applicant level scoring model is applicable for below case.					
	If Is Application Decision required is Yes					
	 If Is Application Decision Required is No, and Is Primary Applicant is Yes 					
	Multi applicant level scoring model is applicable in the below case.					
	 If Is Application Decision Required is No, and Is Primary Applicant is No 					
Description	View the applicant scoring model description.					
Weightage Score	View the weighted credit score post credit decision of the application.					
	The weightage score is calculated for each applicant by resolving the applicant scoring model.					
	In case of multi applicant scoring model, for both the applicant the same score is shown since the score is not calculated per applicant.					
0	Hover this icon to get the information about the formula for calculation of score.					



Field	Description						
Graph View	Two graphical views are available.						
	Bar Graphs						
	The details are shown as a graphical representation as bar charts.						
	 List of features on the X-axis 						
	• Weightage Score on the Y-axis.						
	Based on the evaluation of the category, the feature are shown in a particular color based on the maintenance done in the lookups screen.						
	Note: For Multi Applicant scoring model all graphs is shown in the same color, as category evaluation is not applicable.						
	Pie Charts						
	The details are shown as a graphical representation as pie charts.						
	The calculation logic for the feature is (Weighted score of the feature/ Weightage score of the applicant)*100. The pie is shown from a pool of colors available/defined in the code.						
Data View	The scoring details are shown as mentioned below in data view.						
Scoring Details							
Feature	View the features resolved for the applicant in the scoring model.						
Value	View the value of the feature.						
Range Type	View the range type for the feature.						
Range	View the range resolved for the feature value for score resolution.						
Weightage %	View the weightage defined for the feature in the scoring model.						
Score	View the score calculated for the feature based on the range and feature value.						
Weightage Score	View the weighed credit score post credit decision of the application.						

The following fields are displayed once you click the **Decision and Grade** widget.

Figure 233 : Decision and Grade Widget

xduct Processor	Request Type	Request Reference N	umber	In	temal Reference Number	Execution Date	Mode	Status
0	Score, Decision & Pricing	yXIMS7jtD41zXIMS7jt	D41AXIMS7jtD41BXIMS7jtD41CXIMS7jtD	CE	0520211025105859136	2021-10-25T05:28:59.594Z	ONLINE	SUCCESS
Logical Model PASS	Borrowing 513		Qualitative Score 70	Quantitative Sco 364.3		ecision & Grade Manual - Queue A Grade : B		ricing 6 %
Model Code : DGM503		Model Description :	DGM503	Decision: Manual	- Queue A	Grade : 8		
ecision								
QuantitativeScore	Quantitativ	eScore Range	QualitativeScor	e	QualitativeScore Range	Decision		
364.30	0-5000		70.00		0-500	Manual - Qu	eue A	
rade								
QualitativeScore	Qualitati	veScore Range	Quantitat	iveScore	QuantitativeScore	Range	Grade	
70.00	0-500		364.30		0-5000		В	

Field	Description						
The following fields appea	rs in Decision and Grade widget.						
<model code=""></model>	View the model code resolved for credit decision and grade.						
Model Description	View the model description resolved for credit decision and grade.						
Decision	View the credit decision taken for the application.						
Grade	View the scoring grade post credit decision of the application.						
Decision	1						
Quantitative Score	View the quantitative score calculated for the application.						
Quantitative Score Range	View the range resolved for the quantitative score value for score resolution.						
Qualitative Score	View the qualitative score calculated for the application.						
Qualitative Score Range	View the range resolved for the qualitative score value for score resolution.						
Decision	View the credit decision taken for the application.						
Grade							
Qualitative Score	View the qualitative score calculated for the application.						
Qualitative Score Range	View the range resolved for the qualitative score value for score resolution.						
Quantitative Score	View the quantitative score calculated for the application.						
Quantitative Score Range	View the range resolved for the quantitative score value for score resolution.						



Field	Description
Grade	View the scoring grade taken for the application.

The following fields are displayed once you click the **Pricing** widget.

Figure 234 : Pricing Widget

	Request Type	Request Reference	: Number		Internal Reference Number	Execution Date	Mode	Status
LO	Score, Decision & Pricing	yXIMS7jtD41zXIMS	57jtD41AXIMS7jtD41BXIMS7jtD41CXIMS7jtD		CDS20211025105859136	2021-10-25T05:28:59.594Z	ONLINE	SUCCES
Logical Model	Borrowing 5135		Qualitative Score 70	Quantitative 5 364.3		ecision & Grade Manual - Queue A Grade : B		ricing 6 %
Pricing Model Code : P	R502	Model Descr	ription : PR502	Rate Type : Tie	red	Rate Percentage : 6 %		
LoanAmount	LoanTenu	re.	LoanAmount Range		LoanTenure Range		Rate %	
5135.03	45		0-10000		0-64		6	
5135.03	45		0-10000		0-64		6	

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

Table 198 : Pricing Widget - Field Description

Field	Description						
The following fields appea	rs in Pricing widget.						
<pricing code="" model=""></pricing>	View the pricing model code resolved for credit decision.						
Model Description	View the pricing model description resolved for credit decision.						
Rate Type	View the rate type applicable post credit decision.						
Rate Percentage	View the rate applicable post credit decision.						
Loan Amount	View the eligible loan amount for the application.						
Loan Tenure	View the loan tenure for the application.						
Loan Amount Range	View the range resolved for the loan amount value.						
Loan Tenure Range	View the range resolved for the loan tenure value.						
Rate %	View the rate applicable post credit decision.						



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.
 - \rightarrow The Use Case Definition screen is displayed.

Figure 235: Use Case Definition

Use Case Definit	ion				
९ ट					
Usecase Name:		دب ه	Usecase Name:		49
Mod No:			Mod No:		
Authorized	G Open		Authorized	G Open	

Table 199: 0	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 236: Use Case Definition Maintenance

ig Mainte	nance				×		
New Unlock Delete Authorize							
siness Ta	g Maintenance						
Jse Case Name D		Description	Mod No	Straight TI	hrough Processing No		
					+ -		
	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	Υ			
	20	"External Branch BIC	externalBranchBIC	-	Υ		
	10	Tax Amount	taxAmount	Y			
Page	1 (1-5 of at least 30 items) K	1 2 3 4 5 6 > >					

On **Tag Maintenance** screen, specify the fields. The fields which are marked with asterisk are mandatory. For more information on fields, refer to the field description table below.

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		

Table 200: Tag Maintenance – Field Description



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 237: Annotator

LOAN DRAW DOWN
Description: USD 550 Million Credit Facilities Date Effective CT and 19 Borrower Concernation ICO has elected to borrow under the Tranche B
Term Loan Facility for a total of Control, 000,000,000,000,000,000,000,000,000,0

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.
 - \rightarrow The **Annotator** screen is displayed.

Figure	238:	Annotator
--------	------	-----------

Annotator				$_{\mu}^{\mu'}$ \times	
Action Type	Source File Definition		Document Type		
Create New Annotated File	Source File: s.txt	Select File	New Cheque Book Request	Get Labels	
Edit Created Annotated File Error Correction	Annotated File: Annotated file nam	e Select File	Loan DrawDown	Create Training File	
	Retrieved Doc Id: Retrieved Doc Id	Get File	Corporate Invoice		
Original File	Text Form		New Cheque Book Request		
ні,	Hi, I have a saving account in your bank and	the a/c no is E3440C30AE6.please	Tag Name	Tag Value	
I have a saving account in your bank and the a/c no is [3044663] Kind regards,	issue 4 Cheque books containing 25 page Kind regards,	s each.	ACCOUNT NUMBER		
John Doe			CHEQUE BOOKS		
			CHEQUE LEAVES		
			SENDER EMAIL		
		ê			



3. On **Annotator** screen, specify the fields. The fields which are marked with asterisk are mandatory. For more information on fields, refer to the field description table below.

Field	Description			
Action Type	Select the action type. Available options are as following:			
	Create New Annotated File			
	Edit Created Annotated File			
Source File Definition	Select the source document from local windows explorer based 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, 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 			

Table 201: Annotator – Field Description

Follow the below mentioned steps to annotate the source files:

1. Select action type as "Create New Annotated File".

Figure 239: Action Type

Annotator					, ²
Action Type	Source File Definition		Document Type		
Create New Annotated File	Source File: Source File Name	Select File	Select	Ŧ	Get Labels
Edit Created Annotated File Error Correction	Annotated File: Annotated file na	Select File	Annotated File Name: filename	ime:	Create Annotated File
	Retrieved Doc Id: Retrieved Doc Id	Get File			
Original File	Text Form		Annotations		
			Tag Name	Tag Value	Start Enc
			No data to disp	lay.	
Document will appear here	Document converted to be displayed here				



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

Figure	2/0.	Filo	Upload
rigure	Z4 U.	File	Upiuau

on T 🧕	File Upload			×	·····	Document Type		
Cr		sktop 🕨 Sample_Folio 🗸 🗸 Search Sa	mple_Folio	,Р ne	Select File	Select	•	Get Labels
	Organize • New folde		-	?	Select File	Annotated File Na	me:	Create Annotated File
En	TC Pictures ^	Name	Date modified	R		filename		Create Annotated File
	👍 Saved Games	R FOUODETE 20180411045600 1 apr 3 to 6 odf		d	Get File			
nal	🐖 Videos	FOUODETE 20180414052029 apr 11 to 13 mlf				Annotations		
	🍠 This PC			4		Ten Manua	Tag Value	Start E
				1		Tag Name	lag value	Start
						No data to displ	ay.	
	Annotator 🖌	٢		>				
	File nar	mer All Sunne	orted Types (*.jpe;*.jpg	v o tex	ct will			

3. 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 241: Text Form

Annotator		×* -
Action Type	Source File Definition	Document Type
Create New Annotated File	Source File:	Select Get Labels
Edit Created Annotated File Error Correction	Annotated File: Annotated file nam Select File	Annotated File Name: Create Annotated File Create Annotated File
	Retrieved Doc Id: Retrieved Doc Id Get File	per
Original File	Text Form	Annotations
	LICH EXCHANGE STREET	Tag Name Tag Value Start End
	91 1 1 1 1 1 20 20 40 1 40 1 40 66 2001 1 1 X + 61 - 52 66	No data to display.
Team Earlier Team Earlier Mark Constant Mark Con	2064 MOTELS Beauly, RESOR is immenyations	
International In	Arresting	
Fails Notice Section EVN Section Section Section Section Section	Accorn Monthal, 3304 (Acrosson Control	

4. Chose the "Document Type".

Figure 242: Document Type

Annotator			2 ¹⁴ -
Action Type	Source File Definition	Document Type	
Create New Annotated File	Source File: CLAODETE.201906 Select File	Select 🔻	Get Labels
Edit Created Annotated File Error Correction	Annotated File: Annotated file nam Select File	Select Loan DrawDown	Create Annotated File
	Retrieved Doc Id: Retrieved Doc Id Get File	Corporate Invoice	
Original File	Text Form	New Cheque Book Request	
□		Tag Name Tag Value	Start End
	@) ^**- TELEPHONE +61 2 9266 2000 * FAX +61 2 9256	No data to display.	
And the second sec	2084 HOTELS &kamp, RESORTS Reservations I ton &Actrubated		
Bas if its hose and the second	Koom Number 3304 /K1D		

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

Figure 243: Tags

Annotator			×"
Action Type	Source File Definition	Document Type	
Create New Annotated File	Source File: Source File Source File	Corporate Invoice 🔹	Get Labels
Edit Created Annotated File Error Correction	Annotated File: Annotated file nam Select File	Annotated File Name:	Create Annotated File
C LING CONCELLON	Retrieved Doc Id: Retrieved Doc Id Get File	pdf	
Original File	Text Form	Annotations	
ロ ク 1 of 1 - + »	488 SECRET	Tag Name Tag Value	Start End
	* International Content of Action 2000, 100, 46, 2, 2266	Buyer Code	
Ama Notari Ama Carlo Razanti Yangi	2084 HOTELS & anny, RESORTS Proprieting	Invoice Date	
Autors auto	For ended	Tax Percentage	
State State State State State Sta	Room Thimber 3304 /KTD	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 244: List of Tags

Annotator		, ¹⁴ ×
Action Type Create New Annotated File Edit Created Annotated File Error Correction	Source File Definition Source File: Could MEETE Source File Annotated File: Annotated file nam Retrieved Doc Id: Retrieved Doc Id Get File	Document Type Corporate Invoice Get Labels Annotated File Name: Create Annotated File ref: Create Annotated File
Original File	Text Form 20 Text Form 20 Salves Sa	Annotations Tag Name Tag Value Start End Buyer Code Invoice Date Invoice Date Invoice Date Invoice Date Tax Percentage Invoice Date Invoice Date Invoice Date Currency Invoice Date Invoice Date Invoice Date

Figure 245: Select Annotation Label

	1	Select Annotation Label	CONTRACTOR (001)	
nnotator				
Action Type Create New Annotated File Edit Created Annotated File Error Correction	Source File Definition Source File: Country of the Source File: Annotated File: Annotated file Retrieved Doc Id: Retrieved Doc	Buyer Code Invoice Date Tax Percentage Amount Currency	ment Type orate Invoice 🔹	Get Labels Create Annotated File
Driginal File	Text Form	Invoice No.	notations	
ר א [ג א ס א ס ס ס ס ס ס ס ס ס ס ס ס ס ס ס ס	5530	Tax Amount	g Name Tag Value	Start End
	A STATUTE STATUTE STATUTE	Supplier Name	yer Code	
Anna Bina Beastain Ban Autobrin Sanga Pan	TOTAL INCLUSION OF S120.24	Discount Percentage	voice Date	
6 de la constante de la consta	OAKLEIGH SOUTH 5 ALTERNA Cross of Tex Invoice 13/00	Net Invoice Amount	c rcentage	
Tor. (www. Tor. (www. Market Market <th< td=""><td>Confirmation Number 3112-22747</td><td>Discounted Amount</td><td>mount</td><td></td></th<>	Confirmation Number 3112-22747	Discounted Amount	mount	

7. The selected Tag and the information will get displayed in section "Annotations" under Tag Name and Tag Value.

Figure	246:	Annotations
i igaio		/

Annotator						1
Action Type	Source File Definition		Document Type			
Create New Annotated File	Source File: OLLOPETE 201505 Sele	ct File	Corporate Invoice		Get Labels	
Edit Created Annotated File Error Correction	Annotated File: Annotated file nam	ct File	Annotated File Nar		Create Annotated	File
O End conecular	Retrieved Doc Id: Retrieved Doc Id Get	: File	pdt	130110436		
Original File	Text Form		Annotations			
D タ 1 of 1 - + ≫	2020.65	^	Tag Name	Tag Value	Start	End
	ner i sti dimigra sintera		Discount Percentage			
And Sa and And Sa	TOTAL INCLUDES OST OF \$120.04 MR GEORGE SAM ZAFOS 11 ABERCROMBIE ST CARLEICH SOUTH 1		Net Invoice Amount	1,322.60	628	636
Heast - Heast	Conferences Number 3115192761 Conferences Number 3115192761 30/05/2011 107 AM		Discounted Amount			

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

Figure 247: Tag Value

nnotator				×
Action Type	Source File Definition		Document Type	
Create New Annotated File	Source File:	Select File	Corporate Invoice 🔹	Get Labels
Edit Created Annotated File Error Correction		Select File Get File	Annotated File Name:	Create Annotated File
iginal File 💱	Text Form		Annotations	
ρ <u>1</u> of 1 – +	>> 2020.65 5330.65 530.60 50 1011 Charges \$1,822,00	^	Tag Name Tag Value Discount Percentage	Start End
Num Kome And Same And And And And And And And And And And	TOTAL INCLOSE OST OF \$120.34 MIL GEORGE DAW ZAFOD 11 ABERCROMUE ST OAKLEIGH SOUTH O		Net Invoice Amount	
Day of the house ass Subsequences framing/the Training/the framing/the SC11 D000/0700 Subsequences desire SC12 D000/0700	Centernality Number 411542221 Centernality Number 411542221 Hilling Conternal 30/05/2011107 Atd	•	Discounted Amount	
	26/05/2019 GHOST RT 112		Invoice Due	

10. 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 248: Model Training

Model Training					$_{\mu^{t'}}\times$
Model Training					
Model Type NLP(NER) Document Classification					
12	Use Case Name Training Corpus Path Run Reference				
Woddal Performance	OVER ALL	Precision 0.9794	Recall 0.9597	F1-Score 0.9695	
0.0	Tag Name	Precision	Recall	F1-Score	
1 2 3 4 Folds	ACCOUNT NUMBER	0.9799	0.9605	0.9701	
- precision - recall - fiscore	CHEQUE BOOKS	0.9851	0.9296	0.9565	
	CHEQUE LEAVES	0.982	0.9561	0.9689	
				Train Model Sav	e Model

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
- 4.1.4.2 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 249: Model Management Summary

Model Management	
९ с +	
Usecase Name:	Usecase Name:
Mod No:	Mod No:
Unattended:	Unattended:
Authorized 🔒 Open	💫 Authorized 🔒 Open

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

Table 202: 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 250: Model Management Maintenance

ew Unlock Clos	se				
e Case Name pinven				Model Type	•
Run Reference	Precision	Recall	F1 score	Active	
					Tag Parameters
					Tag Parameters
			0.902		Tag Parameters
					Tag Parameters
					Tag Parameters

3. On **Model Management** screen, specify the fields. The fields which are marked with asterisk are mandatory. For more information on fields, refer to the field description table below.

Table 203: 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.

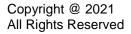




Figure 251: Tag Parameters

Unlock Case Name	Close Tag Parameters Detail				×	
nv	Model Name corpinat	Model Type NER		Run Reference 2tw2018		^
un Reference	Tag Name	Precision	Recall	F1 Score		
	supplierName	0.954	0.932	0.943	^	Tag Parameters
	buyerCode	0.975	0.886	0.929		Tag Parameters
	Invoice Due Date	1	0	0		Tag Parameters
	noNumber	0.070	0.919	0.990		Tag Parameters
					Close	Tag Parameters

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.
 - \rightarrow The **Document Upload** screen is displayed.

Figure 252: Document Upload

Document Upload			$_{\mu^{k'}}$ \times
Scan and Upload Document			
± Select File	Document Type Corporate Invoice	×	Upload
Ankita_Sample_9.pdf			
Original Document			
			-
		number Gump Ltd.	
	è	1135 Ektoredo Dr. Billegs, MT. 59102	
		Phone- (000) 245-4307 Emailike Bornspar.com	
BILL TO	SHIP TO		
	r Logistics Ltd. 4065 Teton Ct,	Invoice No. # - 738202 Invoice Date - 15/09/2018	
509 E 191 Hermon, Primer (*		PO No. # - P0562091 PO Date - 1670972018 Due Date - 207092015	

- 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.

 \rightarrow The **Transaction Log** screen is displayed.

Figure 253: Transaction Log

ument Type	Stat	us	* t				
Processing Da	ashboard						
Document Id	Document Type	Model Ref	Processing Date	Status	Failure Reason	Train. Reqd	Tag Value(s)
92	chqr-New Cheque Book Request			PROCESSED		Ν	
91				ERROR	Unable to complete Intent Processing	Υ	
90	chqr-New Cheque Book Request		23/10/2020	PROCESSED		Ν	
89	chqr-New Cheque Book Request			PROCESSED		N	
88	chqr-New Cheque Book Request			PROCESSED		N	
	chgr-New Cheque Book Request			PROCESSED		N	

3. On **Transaction Log** screen, specify the fields. For more information on fields, refer to the field description table below.

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.

Table 204: Transaction Log – Field Description

-



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

Execution Flow

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

Figure 254: Execution Flow

ument Type		Status	.	Ð		
Processing D	ashboard	Process Log				×
Document Id	Documen					Tag Value(s)
92	chqr-New	File	Processing	Request Classification	Data Extraction	
91						
90	chqr-New	Process	Status	Start Time	End Time	
89	chqr-New	File Processing	SUCCESS		Oct 23, 2020 3:42:14 PM	
88	chqr-New	Data Extraction	SUCCESS	Oct 23, 2020 3:42:16 PM	Oct 23, 2020 3:42:17 PM	
	chqr-New	Request Classification	SUCCESS		Oct 23, 2020 3:42:16 PM	

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	255:	Processed	Status
--------	------	-----------	--------

Document Type corpinv	Ŧ	Status PROCESSED	Document ID: 52218		×		
		_	Tag Name	Value			
Processing Da	shboard		discountAmount	75			
		_	invoiceDate				
Document Id	File Name		invoiceDueDate		n	Buss. Ref	Tag Value(s)
10221-1-1		phy Sarda	invoiceNumber				
- and the	and the second	R. Swa	netInvoiceAmount				
and the same	1 - 100 (A - 14-	Pro Barrie	Page 2 of 3 (6-10 of 14 items) K < 1 2	з >			
and the second	- Hereiter	Near T] -			
	r since	pla Simologo			_		
Page 2 of 2	(7-11 of 11 ite	ms) K K			_		



Error Status

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

Figure 256: Error Status

ocument Type		Status						
dwdn-Loan DrawD	own 👻		*					
Processing Das								
	hboard							
Frocessing Das	hboard							
Processing Das	hboard							
Document Id	hboard File Name	Document Type	Model Ref	Processing Date	Status	Failure Reason	Buss. Ref	Tag Value(s)
Document Id	File Name			-			Buss. Ref	
,		Document Type	Model Ref	Processing Date	Status	Failure Reason	Buss. Ref	Tag Value(s)
Document Id	File Name			-			Buss. Ref	

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 257: Annotator

Annotator		×	×
Action Type	Source File Definition	Document Type	
Create New Annotated File	Source File: Source File Name Select File	Corporate Invoice Get Labels	
Edit Created Annotated File Error Correction	Annotated File: Annotated file nam Select File Retrieved Doc Id: Course Get File Get File	Annotated File Name: Create Annotated File	
Original File	Text Form	Annotations	
Contraction of the second seco	Sugient Ltd. Inverse No.9 = 80xP2819 Involve Data 11 702011 STILL State 11 702011 STILL State 11 702011 Altona, 11 55001 00 Data 20020114 Disare 601, 200300 Data 101102014 Consil herdsgillQuarsum	Tag Name Tag Value Start End Buyer Code 1830 200 265 Invoice Date	^
Ref destructions part Ref destructions	All TO Buye (1995) Minusce 7 (1991) AlloS Heren Ct. Aliny Tryfor 4553 Tecon Ct. Smoolacana, PA Test	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 205: Input Payload

name	in	type	required	Remarks
trainCorpusPath	formData	string	true	Training Corpus path
modelType	formData	File	true	Type of model being trained
runRef	formData	string	true	Unique running reference number

name: "trainCorpusPath"

in: "formData"
type: string
required: true

name: "modelType"

in: "formData"
type: string
value for document classification training: "docClassification"
required: true

name: "runRef "

in: "formData"
type: string
required: true



Output Payload:

```
{
    "data": {
        "timeTaken": 0,
        "corpusSize": 0,
        "precision": 0,
        "recall": 0,
        "f1score": 0,
        "model_fold_performances": null,
        "tag_perfomances": null
```

} }

Output payload data model definition:

ModelTrainParamsDTO: type: object properties: data: type: object properties: timeTaken: type: number corpusSize: type: number precision: type: number recall: type: number f1score: type: number model_fold_performances: type: array items: \$ref: "#/definitions/ModelFoldPerfromancesDTO" tag_perfomances: type: array items: \$ref: "#/definitions/MltbTagPerfomancesDTO"



4.3.2 NER Training Service

This section elaborates the payload details for NER model training service.

Input Payload

Table 206: 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_perfomances": [
  {
  "name": "string",
  "precision": 0,
  "recall": 0,
  "f1score": 0
 }
 ]
}
}
```

Output Payload data model definition

ModelTrainParamsDTO: type: object properties: data: type: object properties: timeTaken: type: number corpusSize: type: number precision: type: number recall: type: number f1score: type: number model_fold_performances: type: array items: \$ref: "#/definitions/ModelFoldPerfromancesDTO" tag_perfomances: type: array items: \$ref: "#/definitions/MltbTagPerfomancesDTO"

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

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 207: 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 208: 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.

Column name	Remarks	Model Training	Model Processing
ID	Unique ID		
USECASE_NAME	Use Case Name	<existing case="" use=""></existing>	<existing case="" use=""></existing>
DESCRIPTION	Use Case Description		
SERVICE_TYPE	Service Type	Training	Processing
SERVICE_DEFN	Mapped Service API	<new api="" service=""></new>	<new api="" service=""></new>
METHOD_TYPE	Method Type	POST	POST
APP_ID	Sub Domain ID		
RECORD_STAT	Record Status	0	0
AUTH_STAT	Authorized Status	А	A
MOD_NO	Modification Number	1	1
ONCE_AUTH	Once Authorized	Υ	Υ
MAKER_ID	Maker Name	SYSTEM	SYSTEM
MAKER_DT_STAMP	Maker Date stamp	<application date=""></application>	<application date=""></application>
CHECKER_ID	Authorizer Name	SYSTEM	SYSTEM
CHECKER_DT_STAM	Authorizer Date stamp	<application date=""></application>	<application date=""></application>

Table 209: Existing Use Case



New use case

Insert a new record into the table CMC_TM_ML_SERVICE_DEFN.

Table 210: 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		
		'Training'	Use this value for model Training Service
SERVICE_TYPE	Service Type	'Processing'	Use this value for model execution Service
		'Business'	Use this value for business Service
SERVICE_DEFN	Mapped Service API	PI <the 3p="" api="" created="" newly="" nlp="" service=""></the>	
METHOD_TYPE	Method Type	POST	
APP_ID	Sub Domain ID	NULL	
RECORD_STAT	Record Status	0	
AUTH_STAT	Authorized Status	A	
MOD_NO	Modification Number	1	
ONCE_AUTH	Once Authorized	Υ	
MAKER_ID	Maker Name	SYSTEM	
MAKER_DT_STAMP	Maker Date stamp	<application date=""></application>	
CHECKER_ID	Authorizer Name	SYSTEM	
CHECKER_DT_STAMP	Authorizer Date stamp	<application date=""></application>	



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	211:	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		Use oracle.fsgbu.cmc.nlp.pipeline.services.adaptor.Gene ricAdaptor for all the business service calls Use oracle.fsgbu.cmc.nlp.pipeline.services.adaptor.OBR HAdaptor if you want to call business service via Oracle Banking Routing Hub	
SERVICE_DEFN	Mapped Service API	API, which will be called for Business service execution	
HEADERS Comma separated headers key value separated by colon (:)		Eg : docld:123 , branch0	Code : 000
METHOD_TYPE	Method Type	POST	
APP_ID	Sub Domain ID	NULL	
RECORD_STAT	Record Status	0	



Column name	Description	Remarks for Data
AUTH_STAT	Authorized Status	А
MOD_NO	Modification Number	1
ONCE_AUTH	Once Authorized	Y
MAKER_ID	Maker Name	SYSTEM
MAKER_DT_STAMP	Maker Date stamp	<application date=""></application>
CHECKER_ID	Authorizer Name	SYSTEM
CHECKER_DT_STAMP	Authorizer Date stamp	<application date=""></application>

If you are Integrating Business Service via Oracle Banking Routing Hub then in service definition column, you need to provide URL of Oracle Banking Routing Hub dispatch API and the additional headers in headers column.

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



5 Machine Learning Framework

This section is designed to help you quickly get acquainted with how to on-board business cases on the Machine Learning framework in Oracle Banking.

The assets used to build the Machine Learning framework is available by default with Oracle database.

Oracle Database 19c and above.

Prerequisites

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

Make sure that Machine Learning framework is already deployed and available as part of the application menu. Refer to **Common Core Services Installation Guide** for more details.

5.1 Regression On-Boarding

On-boarding a new business case onto the Machine Learning framework involves two broad stages as highlighted below.

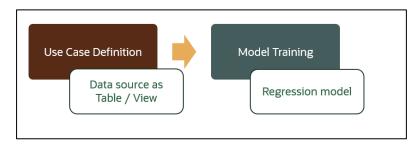
Model Definition

One-time setup of use case definition captures the data source, target columns and type of use case.

Model Training

Model training is use case specific and has the intelligence to evaluate multiple algorithms and discover the best fit algorithm to the data pattern.

The onset of these two stages assumes that you have already decided on the business use case that you would want to on-board.





5.2 Frameworks Supported

5.2.1 Timeseries

Timeseries are the use cases involving the date sequence data to forecast for future dates.

Example:

CASE ID	CCY	BALANCE
17-Aug	USD	6723.00
18-Aug	USD	250.00
19-Aug	USD	2654.00
20-Aug	USD	20.00
21-Aug	USD	?

NOTE: CASE ID can either be a DATE or a Sequence

5.2.2 Timeseries Algorithms Supported

By default, the framework uses Exponential Smoothing to forecast from timeseries data. It evaluates 14 different algorithmic combinations to best fit the patterns of

- Error type (additive or multiplicative),
- Trend (additive, multiplicative, or none), including damped trends
- and Seasonality (additive, multiplicative, or none)

NOTE: User is not required to select any algorithmic combinations. The framework evaluates and selects the best fit combination for you.



5.2.3 Regression

Regression is a statistical technique to discover relationships using independent variables to estimate/predict a target variable of NUMBER or INTEGER type.

Example: User needs to predict the value of LUXURY SPEND for a new CASE ID, given the data of branch, marital status, income and savings

CASE ID	BRANCH	MARITAL STATUS	INCOME	SAVING	LUXURY SPEND
12345	BRT	Y	15000	6723	1000
12346	BRT	Ν	17500	250	750
12347	CSR	D	25000	2654	1900
12348	CSR	Ν	16567	20	2500

NOTE: CASE ID MUST uniquely identify a row

5.2.4 Regression Algorithms Supported

The following algorithm are available as part of the framework.

S No	ALGORITHM	REMARKS
1	GENRALIZED LINEAR REGRESSION	Also handles RIDGE regression depending on the underlying pattern of data
2	SUPPORT VECTOR MACHINE	Supports both linear and gaussian kernels
3	NEURAL NETWORK	Uses default 1 layer with number of nodes <= 50

NOTE: Users have the flexibility to select a specific algorithm or keep it as NULL for the framework to evaluate and best fit the algorithm to the underlying data.



5.3 Partitioned Model

Oracle in-Database machine learning allows the user to design partitioned models.

Partitioned model organizes and represents multiple models as partitions in a single model entity, enabling you to easily build and manage models tailored to independent slices of data.

Example:

CUSTOMER ID	BRANCH	MARITAL STATUS	INCOME	SAVING	LUXURY SPEND
12345	BRT	Y	15000	6723	1000
12346	BRT	Ν	17500	250	750
12347	CSR	D	25000	2654	1900
12348	GRF	N	16567	20	2500

In this above example of data, user could build a single partitioned model on independent slices of data based on branch code.

The user has the advantage of having a single partitioned model instead of having multiple models for each individual branch.



5.4 On-Boarding Regression Use Case

5.4.1 Model Definition

Use cases are defined by the business domain of the product processor to which it is mapped. They are unique and machine learning models are named after the use case.

The model definition screen allows you to define the use case and configure the data source to be used for model training.

5.4.1.1 Model Definition Summary

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

- 1. From Home screen, click Machine Learning. Under Machine Learning, click Model Definition.
 - → The **Model Definition Summary** screen is displayed.

Figure 258: Model Definition Summary

Model Definition		$_{\mu}{}^{\mu}$ \times
९ c +		
Usecase Name:	Usecase Name:	^
Mod No:	Mod No:	
Authorized 🔒 Open	Authorized 🔒 Open	
Page 1 of 1 (1 - 2 of 2 items)	к < 1 > х	~

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

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.



5.4.1.2 Model Definition Maintenance

Model Definition Maintenance screen enables the user to maintain the use case details and define the use case type and data source details.

- 1. From Model Definition Summary screen, click button on the Use case tile, and click Unlock.
 - → The Model Definition Maintenance screen is displayed.

Figure 259: Model Definition Maintenance

Use Case Definition		,	^и " ×
Use Case Setup Model Metrices			
Use Case Name *	Description	Use Case Type * Select Usecase Type	
Training and Scoring			
Product Processor * Select Product Processor	Training Data Source *		
Target Column * Select Target Column *	Unique Case Identifier * Select Unique Case ID *	Tablespace	
Model Partitioning			
Partition Column Names Select Partition Column	Selected Algorithm Select Algorithm	Model Error Statistic * Select Model Error Statistic *	
		Save	incel

2. On **Model Definition Maintenance** screen, specify the fields. The fields which are marked with asterisk are mandatory. For more information on fields, refer to the field description table below.

 Table 213: Model Definition Maintenance – Field Description

Field	Description
Use Case Name	Specify the name of the Use Case.
Description	Specify the description of the Use Case.
Use Case Type	Select the type of Use Case. Refer Frameworks Supported for details.
Product Processor	Select the product to which the use case belongs.
Training Data Source	Specify the Table or View name used as data source to train the model.
Target Column	Select the value of the column which is predicted by training the model. NOTE: Column name is a function of table/view design
Unique Identifier	Select the column name to uniquely identify a record. NOTE: Column name is a function of table/view design



Field	Description
Tablespace	Specify the valid tablespace and all model related data will be persisted in this table space
Partition Column Names	Specify the column names to slice data. Refer Partitioned Model for details
Selected Algorithm	Select the algorithm from the list and build the model. For REGRESSION, this field should be null and allow the framework to select the best fit algorithm to build the model.
Model Error Statistics	Select the model error statistics. By Default, the value is selected as 'RMSE' for REGRESSION. The user can also select 'MAE'.

3. Click Save. You can view the configured details in the Model Definition Summary.



Model Metrices

Once the user has successfully trained Machine Learning model, the user can score/predict the model outcomes as required by the use case. The user can view the **Model Metrices** tab only after training the model successfully. Refer to **Model Training and Scoring** section for training the model.

- 4. Click Model Metrices tab to view the Model Metrices details.
 - → The **Model Metrices** screen is displayed.

Figure 260: Model Metrices

Use Case Definition	
Use Case Setup Model Metrices	
Model Metrices	
Model Partitions *	
- C2	
Metrices	Value
Model Name	ONUL, REO, COMP_TIME TO
Algorithm	
F_VALUE	
BANK_PROD_PER_P2	

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

Field	Description
Model Partitions	Select the model partitions from the dropdown.
	If the model has been designed to have partitions, it will display the partitioned values based on underlying data of the defined partition column else display FULL MODEL.
Metrices	Displays the various model attributes, as per the best model identified and trained. The number of model attributes is a function of algorithm and underlying pattern of data Some attributes are common for all models, Model Name Algorithm INF_TIME (Inference Time) <model metric="">(Train) <model metric="">(Test)</model></model>
Value	Displays the value of the attribute.

Table 214: Model Metrices – Field Description



5.4.2 Model Training and Scoring

Model Training and Scoring screen enables the user to train the model for the selected use case and use the trained model to predict and score multiple records at a time. The predicted values persist in the database and are available in the prediction column maintained for the user case.

- 1. From Home screen, click Machine Learning. Under Machine Learning, click Model Training and Scoring.
 - → The Model Training and Scoring screen is displayed.

Figure 261: Model Training and Scoring

Model Training And Scoring		
Model Training and Scoring		
Use Case Name	Description	Use Case Type Incores STOM
Model Training		
Training Data Source	Unique Case Idenifier	Target Column
Model Batch Scoring		
Model Name	Scoring Destination	Batch Scoring

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

Table 215: Model Training and Scoring – Field D

Field	Description
Use Case Name	Select the Use Case name from the dropdown.
Description	Displays the description of the use case.
Use Case Type	Displays the type of use case.
Model Training	Displays the model training details.
Training Data Source	Displays the training data source.
Unique Case Identifier	Displays the unique case identifier.
Target Column	Displays the target column of the model.
Partition Column(s)	Displays the partition column of the model.



Field	Description
Model Batch Scoring	Displays the model batch scoring details.
Model Name	Displays the name of the model.
Scoring Destination	Displays the scoring destination.

- 2. Select the use case name from the dropdown.
- 3. Click **Train Model** to train the model for the selected use case.
- Click Batch Scoring to predict the score for the data source records.
 The predictions of batch scoring are now available for business consumption.

5.5 Online Single Record Prediction

This is made available as a REST API and allow you to predict for a single record. The predictions do not persist in the database.

These can be invoked directly from application user interface, to retrieve and display the results.

The explainability of the model outcome is also made available.

5.6 Regression Use Case Modifications

Use case definition may undergo the following modification and would require model re-training. After each re-training run, you should review the model details discussed under Regression Model Explainability.

Table 216: Regres	ssion Use Case	Modifications
-------------------	----------------	---------------

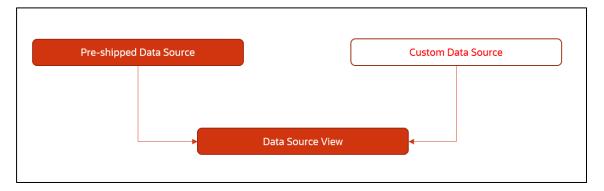
Use Case Modification	Model Re-training Required
Data Source replaced by another data source	Yes
New column Added to existing data source	Yes
New columns Added to custom data source	Yes
Existing column removed from existing data source	Yes
Selected Algorithm Changed	Yes
Model Error statistic Changed	Yes
Partition Column Name list altered (added / removed)	Yes



5.7 Regression Data Extensibility

To address the requirement of banks to add new data points to the factory shipped data source, we have provided the facility of data extensibility.

Figure 262: Regression Data Extensibility



Banks can add any number of new data columns to the customer data source

The defined data source view is mapped to a use case in the Model definition.

Machine Learning will automatically consider all the available data points in the data source View.

5.8 Regression Model Explainability

The details of the Regression models built using the framework is made available under the 'Model Metrices' tab in Use Case Definition for better understanding and transparency.

The available details are

- Model Name
- Algorithm Name
- Inference Time
- Training Error Metric
- Testing Error Metric
- List of data attributes that make up the model depending on the framework and algorithm used



5.9 Time Series Forecast

Timeseries forecast is unique as it consumes sequential data to forecast.

This uniqueness necessitates model training and forecast to be executed in a single processing routine. This is very unlike regression model approach where model training and model prediction are separate distinct actions.

5.9.1 Forecast REST Service

Timeseries framework is made available as an independent REST service to be consumed by products and use cases as required.

The following information is required to be provided.

Field	Description
Use Case Name	Specify the Unique Use Case Name.
Data Source	Specify the Table or View name used as data source to train the model.
Target Column	Specify the model will train and forecast future values of this column. NOTE: Column name is a function of table/view design
Unique Identifier	Specify the column name to uniquely identify a sequence NOTE: Column name is a function of table/view design. Must be Date or a sequence
Model Partitioning	Specify the column names to slice data. Refer Partitioned Model for details NOTE: Column name is a function of table/view design
Partitioned Value	Specify the actual Value of the Model Partition
Forecast Window	Specify the number of forecasts required as an outcome
Tablespace	Specify the valid tablespace and all model related data will be persisted in this table space

Table 217: Forecast REST Service – Field Description



6 Error Codes and Messages

This topic contains the 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	EOFI job not completed, cannot initiate change date
CMC-BRN-EOD09	EOD not invoked, cannot initiate mark TI
CMC-BRN-EOD10	Date Change job not completed, cannot initiate TI for next day
CMC-BRN-EOD11	Mark TI successful
CMC-BRN-EOD12	Branch status not in TI, cannot initiate Mark EOFI
CMC-BRN-EOD13	Branch status not in EOFI, cannot change Date
CMC-BRN-EOD14	Branch status for next working date update to 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 EOFI
CMC-BRN-EOD18	Invoke Mark TI failed
CMC-BRN-EOD19	Date change completed cannot retrigger
CMC-BRN-EOD20	Mark TI completed cannot retrigger
CMC-BRN-EOD21	Date changed failed
CMC-BRN-EOD30	Invalid requested date, failed to parse
CMC-BRN-EOD31	Mark Eoti retry intiated



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 maintaned 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-OBRH-001	Record already exists.
CMC-OBRH-002	Record saved successfully.
CMC-OBRH-003	Record does not exist.
CMC-OBRH-004	Invalid Payload
CMC-OBRH-005	Record deleted successfully.
CMC-OBRH-006	Record modified successfully.
CMC-OBRH-007	Data fetched successfully.
CMC-OBRH-008	Data exported successfully.
CMC-OBRH-009	Failed to get data.



Error Codes	Messages
CMC-OBRH-010	Cannot start disabled route.
CMC-OBRH-011	Data imported successfully.
CMC-OBRH-012	Failed to import.
CMC-OBRH-013	Failed to parse [\$1]
CMC-OBRH-014	Data extracted successfully.
CMC-OBRH-015	Route state cannot be changed to Start as Consumer Service / Provider is inactive.
CMC-OBRH-016	Modified/Deleted attribute is already in use by route.
CMC-OBRH-017	Something went wrong!
CMC-OBRH-018	Imported WSDL successfully
CMC-OBRH-019	Imported Swagger successfully
CMC-OBRH-020	Failed to import [\$1]
CMC-OBRH-021	Failed to export [\$1]
CMC-OBRH-022	Request failed [\$1]
CMC-OBRH-023	Request is being processed
CMC-ORCH-001	Failed to initiate.
CMC-ORCH-002	Transaction is successfully initiated.
CMC-ORCH-003	Invalid action, failed to initiate.
CMC-ORCH-004	\$1 is not submitted, transaction remains the same.
CMC-ORCH-005	Cannot proceed with submit as the action is not initiated.
CMC-ORCH-006	Cannot proceed with submit as the information is incomplete.
CMC-ORCH-007	Failed to submit.
CMC-ORCH-008	Record successfully submitted.



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 unauthroized 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
003_000	Response structure from Bureau is different
CBS_SYSPAR_001	System parameter not maintained for the bureau for history call
	Facts not found for Bureau identification Rule
CBS 400	Empty response from criteria for given PPcode
	Empty response from Oracle Banking Routing Hub from bureau call
	Bureau identification Rule not found for given facts
CBS-CRTR-015	Criteria Code has exceeded the max length specified
CBS-CRTR-016	Description has exceeded the max length specified
CBS-CRTR-017	Rule Id has exceeded the max length specified
CBS-CRTR-018	Rule Description has exceeded the max length specified
CBS_BR_DTLS_NOT_ FOUND	Bureau Details are not provided
CBS_BR_DTLS_NOT_	Bureau Details are not maintained for +{reqBureauProductType}
MNT	(variable, value will be replaced at runtime from payload)
CDS-DML-006	Invalid range definition. Either range or value is allowed
CDS-DML-007	Duplicate \$1 values are not allowed
CDS-DML-010	From value should not be greater than To value
CDS-RUL-001	Error occurred while evaluating the rule
CDS-DML-003	Effective date should be less than Expiry Date
CDS-PRC-006	Effective date should be less than the Expiry Date



Error Codes	Messages
CDS-DML-002	Maintain at least one record in \$1
CDS-DML-014	Effective date cannot be less than the Product Processor Effective date.
CDS-PRC-014	Effective date cannot be less than the Product Processor Effective Date.
CDS-DML-017	if dmIAppEnabledInd is selected as N then dmIFeature can not be null
CDS-DML-018	if dmIAppEnabledInd is selected as y then dmIScoreRuleId can not be null
CDS-DML-022	Input parameter is missing or incorrect. Unable to resolve any scoring model
CDS-DML-023	Input parameter is missing or incorrect. Unable to calculate the score
CDS-DML-013	Invalid product processor
CDS-PRC-011	Incorrect Range Definition. Range definition should be continuous in \$1
CDS-PRC-012	Duplicate \$1 values are not allowed
CDS-DML-015	Product Processor is not authorized
CDS-DML-011	Incorrect Range Definition. Range definition should be continuous
CDS-DML-012	Input parameter is missing or incorrect. Unable to resolve any pricing setup
CDS-QFT-001	if qftRuleApplicableInd is selected as y then qftRuleName and qftRuleId cannot be null
CDS-QFT-002	if qftRuleApplicableInd is selected as N then qftFactName and qftFactId cannot be null
CDS-QFT-005	qftCode cannot be other than alphanumeric
CDS-QFT-004	Fact or rule not found
CDS-DML-008	Invalid rule name



Error Codes	Messages
CDS-PRC-0010	Fact or rule not found
CDS-PRC-007	Pricing Rate definition should be greater than or equal to minimum rate and less than or equal to maximum rate
CDS-PRC-009	rate percentage of range cannot be equal to zero or less than the previous one
CDS-PRC-005	\$1 should be equal to or greater than the System date
CDS-PRC-010	Invalid product processor
CDS-PRC-004	Maintain at least one record \$1
CDS-PRC-001	Min Rate cannot be less than zero or not be more than max rate
CDS-PRC-003	Overlapping price range definition not allowed \$1
CDS-PRC-002	Rate Type cannot any other keyword
CDS-PRC-008	\$1 cannot be less than or equal to zero
CDS-DML-009	Unable to resolve any scoring model
CDS-PPR-001	\$1 should be equal to or greater than the System date
CDS-DML-005	Overlapping range definition not allowed in \$1
CDS-QFT-003	Invalid product processor
CDS-DML-001	\$1 should be equal to or greater than the Posting date
CDS-DML-019	Unable to resolve the best fit scoring model. Multiple scoring model resolved
CDS-DML-016	Unable to resolve the best fit pricing model. Multiple pricing model resolved
CDS-DML-004	The sum of weightage assigned to the feature code should be 100
CDS-PPR-002	Effective date should be less than Expiry Date
CDS-PRC-013	Rate definition should be greater than or equal to minimum rate and less than or equal to maximum rate



Error Codes	Messages
CDS-DML-020	Unable to resolve the best fit application scoring model Multiple application scoring model resolved
CDS-DML-021	Unable to resolve the best fit decision and grade matrix. Multiple decision and grade matrix resolved
CDS-BWC-001	\$1 should be equal to or greater than the System date
CDS-BWC-002	Maintain at least one record in \$1
CDS-BWC-003	Effective date should be less than the Expiry Date
CDS-BWC-014	Effective date cannot be less than the Product Processor Effective date
CDS-STG-006	Effective Date cannot be null or blank
CDS-STG-007	Expiry Date cannot be null or blank
CDS-STG-008	Industry cannot be null or blank
CDS-STG-009	Module cannot be null or blank
CDS-STG-010	Line of Business cannot be null or blank
CDS-STG-011	Effective date should be less than the Expiry Date
CDS-STG-012	Expiry Date should be equal to or greater then the System date
CDS-STG-013	Invalid Strategy Code
CDS-STG-014	Invalid Industry
CDS-STG-015	Invalid Module
CDS-STG-016	Invalid Line of Business
CDS-STG-017	Invalid product processor
CDS-STG-018	Invalid Account Category
CDS-STG-019	Invalid modes for the selected module
CDS-STG-020	Invalid combination of steps for selected modes
CDS-STG-021	Record already exists
CDS-STG-022	Effective date cannot be less than the Product Processor Effective Date
CDS-RUL-002	Fact already exists
CDS-STG-023	Invalid combination of modes and steps
CDS-DML-040	FeatureDTO missing. Kindly enter the details
CDS-LML-029	Logical Model Reason Code is Invalid



Error Codes	Messages
CDS-DML-024	Negative values not allowed
CDS-DML-025	Category not allowed in case of multi applicant scoring model
CDS-DML-026	Percenatge cannot be greater than 100
CDS-DML-027	For multi-applicant max value not allowed
CDS-DML-028	Max value not required for range type Value
CDS-DML-029	Range type cannot be null
CDS-DML-030	Max value cannot be null
CDS-DML-031	Please enter a valid scoring model type
CDS-DML-032	Please enter a valid range type
CDS-DML-033	Feature list not required for application model
CDS-DML-034	Scoring rule id not required for the scoring model type
CDS-DML-035	Please enter a valid feature type
CDS-DML-036	Only range Type Value is allowed, for fact type feature
CDS-DML-037	Only range Type ParamPercent is allowed, for rule based feature
CDS-DML-038	Only range Type Value is allowed, for Text type fact
CDS-DML-039	Category code missing
CDS-LML-015	Logical Model Code size must be between 1 and 30
CDS-LML-016	Logical Model Description size must be between 1 and 240
CDS-LML-017	Logical Model Effective Date cannot be null
CDS-LML-018	Logical Model Expiry Date cannot be null
CDS-LML-019	Logical Model Rule Id size must be between 1 and 80
CDS-LML-020	Logical Model Details Rule Id cannot be null
CDS-LML-021	Reason Code cannot be null
CDS-LML-022	Logical Model comments size must be between 1 and 80
CDS-LML-023	Logical Model Sequence must be in the range of 1 to 999
CDS-LML-024	Logical Model Sequence is Incorrect
CDS-LML-025	Logical Model Priority must be in the range of 1 to 100
CDS-LML-026	Logical Model Details cannot be null or empty
CDS-LML-027	Rule Id cannot be duplicate
CDS-LML-028	Invalid Rule Id
CDS-QUR-001	Invalid Input for Questionnaireld, can not be null or blank
CDS-QUR-002	Invalid Input for Questionnaireld, null or blank required



Error Codes	Messages
CDS-QUR-003	Invalid Input for QuestionId, null or blank required
CDS-QUR-004	Invalid Input for QuestionId, can not be null or blank
CDS-QUR-005	Questionnaire Code cannot be null or empty
CDS-QUR-006	Questionnaire Description cannot be null or empty
CDS-QUR-007	Product Processor cannot be null or empty
CDS-QUR-008	Question Code cannot be null or empty
CDS-QUR-009	Question Short Name cannot be null or empty
CDS-QUR-010	Question Description cannot be null or empty
CDS-QUR-011	Question Type cannot be null or empty
CDS-QUR-012	Answer Description cannot be null or empty
CDS-QUR-013	Questionnaire Code size must be between 1 and 30
CDS-QUR-014	Questionnaire Description size must be between 1 and 240
CDS-QUR-015	Question Code cannot be duplicate for a product processor
CDS-QUR-016	Question Sequence Number cannot be null, empty or zero, negetive
CDS-QUR-017	Answer Option Sequence Number cannot be null, empty or zero, negetive
CDS-QUR-018	Question Sequence Number cannot be duplicate for a questionnaire
CDS-QUR-019	Answer Option Sequence Number cannot be duplicate for a Question
CDS-QUR-020	Answer OptionId cannot be null or empty
CDS-QUR-021	Answer OptionId cannot be duplicate for a question
CDS-BWC-004	Incorrect execution stage
CDS-BWC-005	\$1 fact or rule not found
CDS-QUR-022	Input for whether Question Mandatory cannot be null or empty
CDS-QUR-023	System will not allow to add questions where response choice has not been captured, At least 2 record should be available
CDS-QUR-024	System will not allow to save the questionnaire without any question configured, Atleast 1 question should be configured in the questionnaire
CDS-QUR-025	Question Code cannot be duplicate for a questionnaire.
CDS-STG-024	Invalid type and value for additional info
CDS-STG-025	Selection of atleast 1 mode is mandatory
CDS-STG-026	Effective date cannot be updated after authorisation
CDS-STG-027	Multiple values of same type are not allowed under Additional Information
CDS-LOOKUP-001	Lookup Type must be alphanumeric



Error Codes	Messages
CDS-LOOKUP-002	Lookup Type must be between 1 and 30
CDS-LOOKUP-003	Lookup Description must be between 1 and 240
CDS-LOOKUP-004	Duplicate lookup codes not allowed



7 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 subaccount 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.



8 List of Menus

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- 2. Additional Field Maintenance 3.1 Additional Field Maintenance (pg. 14)
- 3. Advice 3.2 Advice (pg.16)
- 4. Amount Text Language 3.3 Amount Text Language (pg. 19)
- 5. BIC Directory 3.4 BIC Directory (pg. 22)
- 6. Borrowing Capacity 3.46 Borrowing Capacity (pg.205)
- 7. Branch EDD 3.5 Branch EOD (pg. 26)
- 8. Bureau Integration Service 3.34 Bureau Integration Service (pg. 125)
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- 13. Currency Definition 3.7 Currency Definition (pg. 33)
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- 24. External Bank Parameters 3.14 External Bank Parameters (pg. 54)
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- 28. External Customer Account 3.18 External Customer Account (pg. 65)
- 29. External Customer Account Structured Address 3.19 External Customer Account Structured Address (pg. 69)
- 30. External Virtual Account Structured Address 3.20 External Virtual Account Structured Address (p 72)
- 31. Forget Process 3.21 Forget Process (pg. 73)
- 32. Host Code 3.22 Host Code (pg. 75)
- Integrating Bureau Integration Service with Oracle Banking Routing Hub 3.33 Integrating Bureau Integration Service with Oracle Banking Routing Hub (pg.100)
- 34. Integrating Decision Service with Oracle Banking Routing Hub 10 Click save to update the modified fields.
 - 8. Click ^{LQ} to view the created criteria code. The fields are displayed in **Bureau Criteria Maintenance** screen.



Figure 111 : Bureau Criteria Maintenance - View

	Maintenance							
Details								
Code * riteria			Description * Criteria for OBX Product Processor		Product Processor * OBK			
ı Defi	nition							
Rul	e 10		Description	Priority	Call All Bureau	Enable	Actions	
		0	Multiple Fact Rule	2	No.			[
	OBS_RULE_EFX	0	OBS_Rule_CBS_Equifax	1	Yes No			

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

Table 98: Bureau Criteria Maintenance- View – Field Description.
--

Field	Description	
Basic Details		
Criteria Code	Displays the created criteria code.	
Description	Displays the created criteria description.	
Product Processor	Displays the product processor of the created criteria.	
Criteria Definition		
Rule ID	Displays the rule ID for the created criteria.	
Description	Displays the description for the created criteria.	
Priority	Displays the priority for the created criteria.	
Call All Bureau	Displays if call all bureau has been enabled for the created criteria.	
Enable	Displays the criteria code if enabled for the created criteria.	
Actions	Displays the actions of the created criteria.	

8.1 System Parameter

System parameters define the information or values used throughout the system and drives the behavior of the features. They control the way task is executed, or whether the system performs a particular task. Some of the parameters are set when the system is installed, but the values associated with the parameter needs to be reviewed and is to be maintained.

Example:

• Set minimum days to pull credit bureau report from same bureau from initial pull.



• Credit bureau report purge days.

8.1.1 Create System Parameter

Using this screen, you can create system parameter by updating various details.

To create system parameter:

- 6. From Home screen, click Core Maintenance. Under Core Maintenance, click Credit Bureau.
- 7. Under Credit Bureau, click Maintenance.
- 8. Under Maintenance, click System Parameter.
- 9. Under System Parameter, click Create System Parameter
 - \rightarrow The Create System Parameter screen is displayed.

Figure 112 : Create System Parameter

Create System Parameter	$_{\mu_{i}}^{\times}$ \times
Basic Details	
Parameter Code * Select Product Processor *	Parameter Description *
	Save Cancel

10. On **Create System Parameter** screen, specify the fields. The fields, which are marked with asterisk, are mandatory. For more information on fields, refer to the field description table below.

 Table 99: System Parameter – Field Description.

Field	Description
Basic Details	
Parameter Code	Select the parameter code from the drop-down list.
Parameter Description	Specify a short description for the parameter code.
Product Processor	Select the product processor from the drop-down list for which the parameter is being created.
Value	Specify the value for the parameter code.

9. Click Save.

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



8.1.2 View System Parameter

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

To view created parameter:

- 10. From Home screen, click Core Maintenance. Under Core Maintenance, click Credit Bureau.
- 11. Under Credit Bureau, click Maintenance.
- 12. Under Maintenance, click System Parameter.
- 13. Under System Parameter, click View System Parameter.
 - → The View System Parameter screen is displayed.

Figure 113 : Create System Parameter

View System Parameter				,, ² ×
९ с +			■ =	
Parameter Code: Max_Age_Call_To_EXPER Description: Maximum Report Product Processor: OFLO	Parameter Code: Max_Age_Call_To_EQUIF [‡] Description: Maximum Report Product Processor: OSP	Parameter Code: Max_Age_Call_To_EQUIF Description: Maximum Report Product Processor: OBX	Parameter Code: Max_Age_Call_To_EQUIF Description: Maximum Report Product Processor: OFLO	
Authorized 🔒 Open	🗟 Unauthorized 🔒 Open	🗟 Unauthorized 🔒 Open	🖒 Authorized 🔒 Open	
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- 14. Click _____.
- 15. Specify the search criteria to fetch the required parameter.
- 16. Click Search.

Figure 114 : View System Parameter –Search Option

Parameter Code	Authorization Status	Record Status	
	-	•	

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

Table 100: View System Parameter – Field Description.

Field	Description
The following fields are	displayed, once you click



Field	Description
Parameter Code	Displays the criteria code.
Authorization Status	Select the authorization status of the criteria.
Olulus	The options are:
	Authorized
	Unauthorized
Record Status	Select the record status of the criteria.
	The options are:
	• Open
	Close

The following fields are displayed in the widget.

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

Table 101: View System Parameter – Field Description.

Field	Description
Parameter Code	Displays the parameter code.
Description	Displays the description of the parameter code.
Product Processor	Displays the product processor of the parameter.

- 17. Click this icon to unlock, delete, authorize or view the created parameter code.
- 18. Click ^O unlock to modify the following fields. The fields are displayed in the **System Parameter Maintenance** screen.
 - Product Processor
 - Value

Figure 115 : System Parameter Maintenance - Modify

System Parameter Maintenance	د ^م ر	¢
Basic Details		
Parameter Code * Maximum_Report_Age_For_New >	Parameter Description * Maximum Report Age to call Experian	
Product Processor * OFLO	Value * 4	
Audit	Save Cancel	1



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

Field	Description		
Basic Details			
Parameter Code	Displays the created parameter code.		
Parameter Description	Displays the description for the created parameter.		
Product Processor	Displays the product processor of the created parameter.		
Value	Displays the value of the parameter.		

 Table 102: System Parameter Maintenance – Modify – Field Description.

- 12. Click save to update the modified fields.
- 13. Click to view the created parameter code. The fields are displayed in **System Parameter Maintenance** screen.

Figuro	116 .	Systom	Daramotor	Maintenance	
гідиге	110.	System	Farameter	wantenance	- view

System Parameter Maintenance	,* ×
Basic Details	
Parameter Code * Maximum_Report_Age_For_New_Call	Parameter Description * Maximum Report Age to call Experian
Product Processor * OFLO	Value * 4
Audit	

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

Table 103: System Parameter Maintenance- View – Field Description.

Field	Description			
Basic Details				
Parameter Code	Displays the created parameter code.			
Parameter Description	Displays the created parameter description.			
Product Processor	Displays the product processor of the created parameter.			
Value	Displays the value for the created parameter.			

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- 36. Language Code 3.23 Language Code (pg. 77)
- 37. Local Holiday 3.24 Local Holiday (pg. 79)
- 38. Logical Model 3.45 Logical Model (pg.194)
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- 42. Operation 4.2 Operation (pg. 317)
- 43. Process Code 3.27 Process Code (pg. 86)
- 44. Pricing 3.52 Pricing (pg.274)
- 45. Pricing Source System 3.32 Pricing Source System (pg. 97)
- 46. Product Processor 3.41 Product Processor (pg.171)
- 47. Qualitative Scoring Model 3.48 Qualitative Scoring Model (pg. 224)
- 48. Quantitative Scoring Model 3.50 Quantitative Scoring Model (pg. 244)
- 49. Scoring Feature 3.49 Scoring Feature (pg. 239)
- 50. Strategy Configuration 3.44 Strategy Configuration (pg.186)
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- 53. Transaction Code 3.29 Transaction Code (pg. 90)
- 54. Toolkit 4.1 Toolkit (pg.305)
- 55. Upload Source 3.30 Upload Source (pg. 92)
- 56. Upload Source Preferences 3.31 Upload Source Preference (pg. 94)
- 57. Users 2.3 Users (pg. 9)



9 Reference and Feedback

This section contains following subsections:

- 9.1 References
- 9.2 Documentation Accessibility
- 9.3 Feedback and Support

9.1 References

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

9.2 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.

9.3 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.

