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Oracle Banking Common Core User Guide

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Contents

1	P	refac	e	11
	1.1	Inti	roduction	11
	1.2	Au	diencedience	11
	1.3	Do	cument Accessibility	11
	1.4	Acı	ronyms and Abbreviations	11
	1.5	Lis	t of Topics	11
	1.6	Re	lated Documents	12
	1.7	Syı	mbols and Icons	12
	1.8	Ba	sic Actions	15
2	C	ore N	laintenance	17
	2.1	Ace	count Entitlement Group	19
	2.	1.1	Account Entitlement Group Summary	19
	2.	1.2	Account Entitlement Group Maintenance	19
	2.2	Ad	ditional Field Maintenance	21
	2.3	Ad	vice	24
	2.	3.1	Advice Summary	24
	2.	3.2	Advice Maintenance	24
	2.4	Am	nount Text Language	27
	2.	4.1	Amount Text Language Summary	27
	2.	4.2	Amount Text Language Maintenance	28
	2.5	BIC	C Directory	30
	2.	5.1	BIC Directory Summary	30
	2.	5.2	BIC Directory Maintenance	31
	2.6	Bra	anch EOD	34
	2.	6.1	Branch EOD Summary	34
	2.	6.2	Branch EOD Maintenance	35
	2.	6.3	Branch EOD Invoke	35
	2.7	Ch	ecklists	38
	2.	7.1	Checklists Linkage Maintenance	38
	2.	7.2	Checklist Maintenance	39
	2.8	Co	untry Code	42
	2.	8.1	Country Code Summary	42
	2.	8.2	Country Code Maintenance	42
	2.9	Cu	rrency Definition	45
	2.	9.1	Currency Definition Summary	45
	2	92	Currency Definition Maintenance	46



2.10	Cui	rency Exchange Rate	50
2.	10.1	Currency Exchange Rate Summary	51
2.	10.2	Currency Exchange Rate Maintenance	52
2.11	Cui	rency Holiday Master	55
2.	11.1	Currency Holiday Master Summary	55
2.	11.2	Currency Holiday Master Maintenance	56
2.12	Cui	rency Pair Definition	57
2.	12.1	Currency Pair Definition Summary	57
2.	12.2	Currency Pair Definition Maintenance	58
2.13	Cui	rency Rate Type	60
2.	13.1	Currency Rate Type Summary	60
2.	13.2	Currency Rate Type Maintenance	60
2.14	Cus	stomer Access Group	62
2.	14.1	Customer Access Group Summary	62
2.	14.2	Customer Access Group Maintenance	63
2.15	Cus	stomer Category	64
2.	15.1	Customer Category Summary	64
2.	15.2	Customer Category Maintenance	65
2.16	Dat	a Segment	66
2.	16.1	Data Segment Summary	66
2.	16.2	Data Segment Maintenance	67
2.17	EC	A System	68
2.	17.1	ECA System Summary	68
2.	17.2	ECA System Maintenance	69
2.18	Ext	ernal Bank Parameters	70
2.	18.1	External Bank Parameters Summary	70
2.	18.2	External Bank Parameters Maintenance	71
2.19	Ext	ernal Branch Parameters	72
2.	19.1	External Branch Parameters Summary	72
2.	19.2	External Branch Parameters Maintenance	73
2.20	Ext	ernal Chart Account	75
2.	20.1	Create External Chart Account	75
2.	20.2	Chart Account Handoff	77
2.	20.3	Inter Branch Entry Retry	78
2.	20.4	Pre GL Balance Check	79
2.	20.5	Transaction Log	80
2.	20.6	Transaction Log Error Detail	82
2.	20.7	Unbalanced Transaction Log	83
2.	20.8	View External Chart Account	85



2.21	Ext	ternal Customer	86
2.2	21.1	External Customer Summary	86
2.2	21.2	External Customer Maintenance	87
2.22	Ext	ternal Customer Account	90
2.2	22.1	External Customer Account Summary	90
2.2	22.2	External Customer Account Maintenance	91
2.23	Ext	ternal Customer Account Structured Address	94
2.2	23.1	View External Customer Account Structured Address	94
2.2	23.2	Create External Customer Account Structured Address	95
2.24	Ext	ternal Virtual Account Structured Address	97
2.2	24.1	View External Virtual Account Structured Address	97
2.25	Foi	rget Process	98
2.2	25.1	Forgotten Customers Summary	98
2.2	25.2	Forget Customer Maintenance	99
2.26	GL	Parameter Maintenance	100
2.2	26.1	Create GL Parameter	100
2.2	26.2	View GL Parameter	101
2.27	Но	st Code	103
2.2	27.1	Host Code Summary	103
2.2	27.2	Host Code Maintenance	104
2.28	Inte	erest Rate	105
2.2	28.1	Create Interest Rate	105
2.2	28.2	View Interest Rate	108
2.29	Inte	er Branch Parameter Maintenance	109
2.2	29.1	Create Inter Branch Maintenance	109
2.2	29.2	View Inter Branch Parameters	111
2.30	Lar	nguage Code	113
2.3	30.1	Language Code Summary	113
2.3	30.2	Language Code Maintenance	114
2.31	Loc	cal Holiday	115
2.3	31.1	Local Holiday Summary	115
2.3	31.2	Local Holidays Maintenance	116
2.32	Me	dia	118
2.3	32.1	Media Summary	118
2.3	32.2	Media Maintenance	119
2.33	MIS	S Group	121
	33.1	MIS Group Summary	
2.3	33.2	MIS Group Maintenance	121



2.34	MIS	G Class	123
2.3	4.1	MIS Class Summary	123
2.3	4.2	MIS Class Maintenance	124
2.35	Mu	lti-Currency Account Linkage	125
2.3	5.1	Create MCA Linkage	125
2.3	5.2	View MCA Linkage	126
2.36	Pro	cess Code	127
2.3	6.1	View Process Code	127
2.3	6.2	Process Code Maintenance	128
2.37	Pric	ority Code	130
2.3	7.1	Customer Priority Maintenance	130
2.3	7.2	Priority Code Maintenance	132
2.38	Pric	cing Source System	133
2.3	8.1	Pricing Source System Summary	133
2.3	8.2	Pricing Source System Maintenance	134
2.39	Res	source Class	135
2.3	9.1	Resource Class Summary	135
2.3	9.2	Resource Class Maintenance	135
2.40	SLA	A Maintenance	138
2.4	0.1	View SLA	138
2.4	0.2	Create SLA	139
2.41	Scr	eenclass	141
2.4	1.1	View Screenclass	141
2.4	1.2	Create Screenclass	141
2.42	Sta	te Code	143
2.4	2.1	View State Code	143
2.4	2.2	Create State Code	144
2.43	Sys	stem Dates	145
2.4	3.1	System Dates Summary	145
2.44	Tra	nsaction Code	146
2.4	4.1	Transaction Code Summary	146
2.4	4.2	Transaction Code Maintenance	147
2.45	Upl	oad Source	148
2.4	5.1	Upload Source Summary	148
2.4	5.2	Upload Source Maintenance	149
2.46	Upl	oad Source Preference	150
2.4	6.1	Upload Source Preference Summary	150
2.4	6.2	Upload Source Preference Maintenance	150



3	Bui	reau	Integration Service	153
	3.1	Ove	erview	153
	3.2	Sys	stem Parameter	156
	3.2.	1	Create System Parameter	156
	3.2.	2	View System Parameter	157
	3.3	Loc	kup	160
	3.3.	1	Create Lookup	160
	3.3.	2	View Lookup	162
	3.4	Pro	duct Processor	165
	3.4.	1	Create Product Processor	166
	3.4.	2	View Product Processor	166
	3.5	Crit	eria	169
	3.5.	.1	Create Bureau Criteria	170
	3.5.	2	View Bureau Criteria	172
	3.6	Cre	dit Bureau Display	175
	3.6.	1	View Credit Bureau Report	176
	3.7	Inte	egrating Bureau Integration Service with Oracle Banking Routing Hub	179
	3.7.	.1	Oracle Banking Routing Hub Configuration	179
	3.7.	2	Service Providers	191
	3.7.	3	Experian Configuration	202
	3.7.	4	Equifax Configuration	204
	3.7.	5	Document Configuration	205
	3.7.	6	Troubleshooting	206
1	Dec	cisic	on Service	207
	4.1	Ove	erview	207
	4.2	Pro	cess Flow	207
	4.3	Sys	stem Parameter	211
	4.3.	.1	Create System Parameter	211
	4.3.	2	View System Parameter	213
	4.4	Loc	kup	217
	4.4.	1	Create Lookup	217
	4.4.	2	View Lookup	219
	4.5	Pro	duct Processor	222
	4.5.	1	Create Product Processor	222
	4.5.	2	View Product Processor	223
	4.6	Bor	rowing Capacity	227
	4.6.	1	Create Borrowing Capacity	228
	4.6.	2	View Borrowing Capacity	234



4.7 Strategy Configuration	240
4.7.1 Create Strategy Configuration	240
4.7.2 View Strategy Configuration	244
4.8 Scoring Feature	249
4.8.1 Create Scoring Feature	249
4.8.2 View Scoring Feature	251
4.9 Quantitative Scoring Model	254
4.9.1 Create Quantitative Scoring Model	254
4.9.2 View Quantitative Scoring Model	265
4.10 Decision Grade Matrix	274
4.10.1 Create Decision Grade Matrix	274
4.10.2 View Decision Grade Matrix	282
4.11 Pricing	291
4.11.1 Create Pricing Model	291
4.11.2 View Pricing Model	300
4.12 Validation Model	307
4.12.1 Create Validation Model	309
4.12.2 View Validation Model	315
4.13 Qualitative Scoring Model	322
4.13.1 Create Qualitative Scoring Model	323
4.13.2 View Qualitative Scoring Model	331
4.14 Questionnaire	338
4.14.1 Create Questionnaire	338
4.14.2 View Questionnaire	342
4.15 Counter	347
4.15.1 Create Counter	347
4.15.2 View Counter	350
4.16 Charge Code	355
4.16.1 Create Charge Code	355
4.16.2 View Charge Code	361
4.17 Execution Summary	369
4.17.1 View Execution Summary	369
4.18 Integrating Decision Service with Oracle Banking Routing Hub	390
4.18.1 Oracle Banking Routing Hub Configuration	390
4.18.2 Service Providers	399
4.18.3 Oracle FLEXCUBE Onboarding to Decision Service Configuration	ion410
5 NLP Framework	412
5.1 Toolkit	412
5.1.1 Use Case Definition	412



	5.1.	.2	Annotator	415
	5.1.	.3	Model Training	422
	5.1.	.4	Model Management	423
	5.1.	.5	Model Import and Export Maintenance	426
	5.2	Ор	eration	428
	5.2.	.1	Document Upload	428
	5.2.	.2	Transaction Log	429
	5.3	3P	Service Integration	432
	5.3.	.1	Classification Training Service	432
	5.3.	.2	NER Training Service	434
	5.3.	.3	Classification Processing Service	436
	5.3.	.4	NER Processing Service	437
	5.3.	.5	Service Mapping	438
	5.3.	.6	Business Service Mapping	440
6	Ma	chin	ne Learning Framework	442
	6.1	Use	e Case On-Boarding	442
	6.2	Fra	meworks Supported	443
	6.2.	.1	Timeseries	443
	6.2.	.2	Timeseries Algorithms Supported	443
	6.2.	.3	Regression	444
	6.2.	.4	Regression Algorithms Supported	444
	6.2.	.5	Classification	445
	6.2.	.6	Classification Algorithms Supported	445
	6.3	Par	rtitioned Model	446
	6.4	On-	-Boarding Use Case	447
	6.4.	.1	Model Definition	447
	6.4.	.2	Model Training and Scoring	454
	6.5	On	line Single Record Prediction	455
	6.6	Use	e Case Modifications	455
	6.7	Dat	ta Extensibility	457
	6.8	Мо	del Explainability	457
	6.9	Tim	ne Series Forecast	458
	6.9.	.1	Forecast REST Service	458
	6.10	Мо	del Monitoring and Auto Training	459
		Inte	erest Rate File Upload	464
	6.11	464	4	
7	Rul	les F	Framework	467
	7.1	Fac	cts	467
	7.1.	.1	Create Fact	467



		7.1.	2	Create ENUM type Fact	469
		7.1.3	3	View Fact	470
	7.	2	Rule)	472
		7.2.	1	Create Rule	473
		7.2.	2	View Rule	475
		7.2.	3	Evaluate Rule	480
		7.2.	4	Rule Group	481
		7.2.	5	Audit Rule	483
8		Doc	ume	ent Verification Framework	485
	8.	1	Tex	t Extraction	486
	8.	2	Ima	ge Processing	487
	8.	3	Doc	ument Verification API Details	488
		8.3.	1	Passport Extraction	488
		8.3.2	2	Driving License Extraction	492
		8.3.	3	National Identification Extraction	495
		8.3.4	4	Voter Identity Card Extraction	498
	8.	4	Vali	date Information API details	500
		8.4.	1	Passport Validation	501
		8.4.	2	Driving License Validation	505
		8.4.	3	National Identification Validation	509
		8.4.	4	Voter Identity Card Validation	513
		8.4.	5	Pointers about Request and Response	516
		8.4.	6	Things to be taken care of	516



8	3.5	Recommendations for better performance	.517
9	File	Upload	518
9).1	Country Code File Upload	.518
g	9.2	Bank Core Parameters File Upload	.520
9	9.3	Branch Core Parameters File Upload	.521
g).4	Currency Definition File Upload	.523
g).5	BIC Directory File Upload	.526
g	9.6	Local Holiday File Upload	.529
g).7	Currency Holiday File Upload	.530
9	8.8	External Customer File Upload	.531
9	9.9	External Customer Account File Upload	.534
9	9.10	Exchange Rate File Upload	.536
10	Erro	or Codes and Messages	538
11	Fun	nctional Activity Codes	562
T	his to	opic contains the functional activity codes:	.562
12	Glo	ssary	582
13	List	of Menus	583
14	Fee	dback and Support	585



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

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
Core Maintenance	This topic describes about Core Maintenance module.
Bureau Integration Service	This topic describes about Bureau Integration Service.
Decision Service	This topic describes about Decision Service.
NLP Framework	This topic describes about NLP Framework.
Machine Learning Framework	This topic describes about Machine Learning Framework.



Topics	Description
Rules Framework	This topic describes about Rules Framework.
Document Verification Framework	This topic describes about Document Verification Framework.
File Upload	This topic describes about the various file upload features supported in common core maintenances.
Error Codes and Messages	This topic describes list of error codes and messages.
Functional Activity Codes	This topic contains the functional activity codes.
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
J L 7 F	Minimize
	Maximize
×	Close



Symbol/Icon	Function
Q	Perform Search
•	Open a list
1	Add a new record
К	Navigate to the first record
X	Navigate to the last record
1	Navigate to the previous record
)	Navigate to the next record
88	Grid view
H=	List view
Q.	Refresh
·	Click this icon to add a new row.
	Click this icon to delete an existing row.
Ð	Click to view the created record.
6	Click to modify the fields.
0 0 0	Click to unlock, delete, authorize or view the created record.

Table 4: Symbols and Icons – Audit Details

Symbol/Icon	Function
0	A user
	Date and time



Symbol/Icon	Function
Δ	Unauthorized or Closed status
~	Authorized or Open status

Table 5: Symbols and Icons - Widget

Symbol/Icon	Function
6	Open status
	Unauthorized status
a	Closed status
D	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:

Table 6: Basic Actions

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 marked 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 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:

- 2.1 Account Entitlement Group
- 2.2 Additional Field Maintenance
- 2.3 Advice
- 2.4 Amount Text Language
- 2.5 BIC Directory
- 2.6 Branch EOD
- 2.7 Checklists
- 2.8 Country Code
- 2.9 Currency Definition
- 2.10 Currency Exchange Rate
- 2.11 Currency Holiday Master
- 2.12 Currency Pair Definition
- 2.13 Currency Rate Type
- 2.14 Customer Access Group
- 2.15 Customer Category
- 2.16 ECA System
- 2.18 External Bank Parameters
- 2.19 External Branch Parameters
- 2.20 External Chart Account
- 2.21 External Customer
- 2.22 External Customer Account
- 2.23 External Customer Account Structured Address
- 2.24 External Virtual Account Structured Address
- 2.25 Forget Process
- 2.26 Host Code



- 2.27 Language Code
- 2.28 Local Holiday
- 2.29 Media
- 2.30 MIS Group
- 2.31 MIS Class
- 2.30 Multi-Currency Account Linkage
- 2.33 Process Code
- 2.34 Priority Code
- 2.35 Pricing Source System
- 2.36 Resource Class
- 2.37 SLA Maintenance
- 2.38 Screenclass
- 2.39 State Code
- 2.40 System Dates
- 2.41 Transaction Code
- 2.42 Upload Source
- 2.43 Upload Source Preference



2.1 Account Entitlement Group

You can configure an account entitlement group.

- 2.1.1 Account Entitlement Group Summary
- 2.1.2 Account Entitlement Group Maintenance

2.1.1 Account Entitlement Group Summary

The summary screen provides a list of configured account entitlement group. You can configure an account entitlement group using the Account Entitlement Group Maintenance. To process this screen, perform the following steps:

- 1. From Home screen, click Core Maintenance. Under Core Maintenance, click Account Entitlement Group.
- 2. Under Account Entitlement Group, click View Account Entitlement Group.
 - → The View Account Entitlement Group screen is displayed.

Figure 1: View Account Entitlement Group



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

Table 7: View Account Entitlement Group - Field Description

Field	Description
Account Entitlement Group Code	Displays the account entitlement group code.
Maker	Displays the name of the user who has configured the account entitlement group details.
Modification Number	Displays the number of modifications performed on the record.

2.1.2 Account Entitlement Group Maintenance

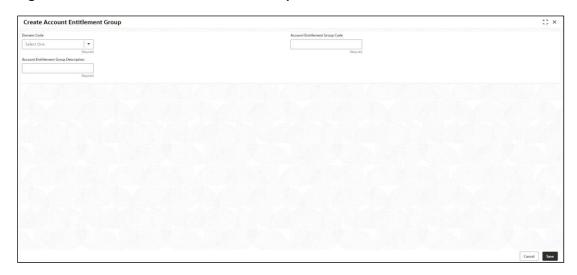
The maintenance screen allows you to configure amount text language. To process this screen, perform the following steps

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



- 2. Under Account Entitlement Group, click Create Account Entitlement Group.
 - → The Create Account Entitlement Group screen is displayed.

Figure 2: Create Account Entitlement Group



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

Table 8: Create Account Entitlement Group - Field Description

Field	Description
Domain Code	Select the Domain Code from the drop-down list.
Account Entitlement Group Code	Specify the code of the account entitlement group.
Account Entitlement Group Description	Specify the description of the account entitlement group.

4. Click **Save**. You can view the confirmation account entitlement group details in the Account Entitlement Group Summary.



2.2 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 3: Additional Field Maintenance Summary



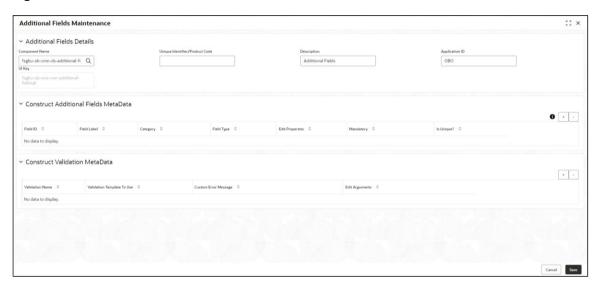
For more information on fields, refer to the field description table below.

Table 9: Additional Field Maintenance Summary - Field Description

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

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

Figure 4: Additional Fields Maintenance





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

Table 10: Additional Fields Maintenance - Field Description

Field	Description
Component Name	Click Search icon and select the component name from the list of
Unique Identifier/Product Code	Specify the unique identifier or product code.
Description	Displays the description as Additional Fields , and it can be modified.
Application ID	Displays the Application ID.
UI Key	Displays the UI Key.
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 Properties	Click this icon to edit the fields in the row.
Mandatory	Check this box if the field needs to be configured as mandatory.
Is Unique	Check this box if the field is unique.
Construct Validation MetaData	Specify the details under this section for validations to be applied on configured fields.
Select	Check this box to select/unselect a row.
Validation Name	Specify the validation name.
Validation Template To Use	Select the template to be used for the validation.
Custom Error Message	Specify the error message that needs to be displayed for the validation.
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.



2.3 Advice

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

This section contains following subsections:

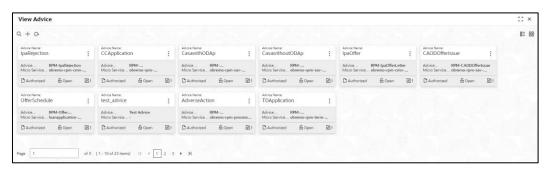
- 2.3.1 Advice Summary
- 2.3.2 Advice Maintenance

2.3.1 Advice Summary

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

- 1. From Home screen, click Core Maintenance. Under Core Maintenance, click Advice.
- 2. Under Advice, click View Advice.
 - → The **View Advice** screen is displayed.

Figure 5: View Advice



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

Table 11: 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.
Modification Number	Displays the number of modifications performed on the record.

2.3.2 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 6: Create Advice



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

Table 12: Create Advice - Field Description

Field	Description
Advice Name	Specify the name of the advice.
Advice Description	Specify the information about the advice.
Micro Service Name	Specify the name of the micro service.
Swift Micro Service	Specify the information about the swift micro service.
Micro Service Endpoint	Specify the endpoint micro service.
Application Name	Specify the application name for which advice is generated.
Application Description	Specify the additional information about the application.
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.



Field	Description
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.



2.4 Amount Text Language

You can configure an amount text language.

This section contains following subsections:

- 2.4.1 Amount Text Language Summary
- 2.4.2 Amount Text Language Maintenance

2.4.1 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 7: View Amount Text Language



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

Table 13: 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.
Modification Number	Displays the number of modifications performed on the record.

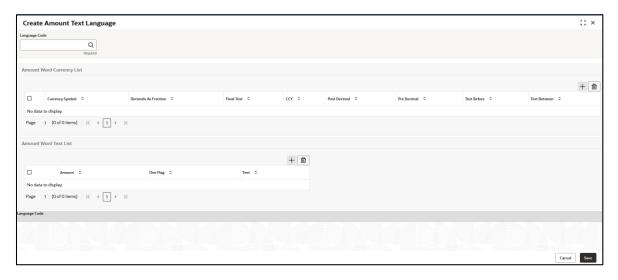


2.4.2 Amount Text Language Maintenance

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

- 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 8: Create Amount Text Language



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

Table 14: 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.
Final Text	Specify the final text for the amount word currency list.
CCY	Search and select the CCY.
Post Decimal	Specify the post decimal details.



Field	Description
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.



2.5 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:

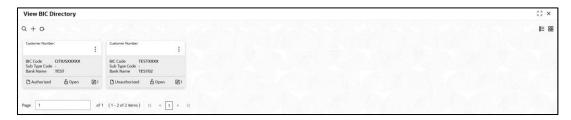
- 2.4.1 BIC Directory Summary
- 2.4.2 BIC Directory Maintenance

2.5.1 BIC Directory Summary

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

- 1. From Home screen, click Core Maintenance. Under Core Maintenance, click BIC Directory.
- 2. Under BIC Directory, click View BIC Directory.
 - → The View BIC Directory screen is displayed.

Figure 9: View BIC Directory



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

Table 15: View BIC Directory - Field Description

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

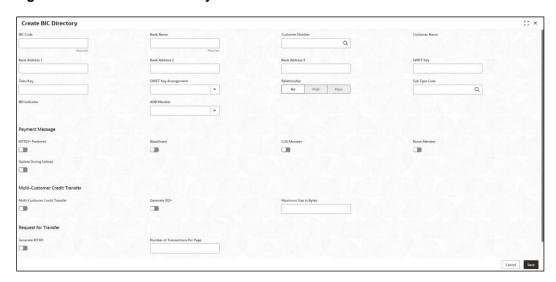


2.5.2 BIC Directory Maintenance

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

- 1. From Home screen, click Core Maintenance. Under Core Maintenance, click BIC Directory.
- 2. Under BIC Directory, click Create BIC Directory.
 - → The Create BIC Directory screen is displayed.

Figure 10: Create BIC Directory



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

Table 16: Create BIC Directory - Field Description

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



Field	Description
SWIFT Key Arrangement	Select the SWIFT key arrangement from the drop-down list.
Relationship	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.



Field	Description
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.
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.



2.6 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:

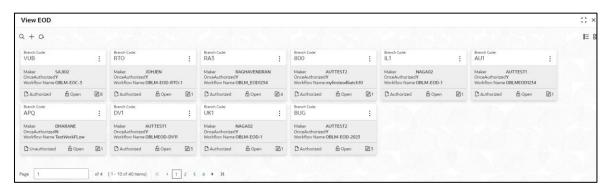
- 2.6.1 Branch EOD Summary
- 2.6.2 Branch EOD Maintenance
- 2.6.3 Branch EOD Invoke

2.6.1 Branch EOD Summary

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

- 1. From Home screen, click Core Maintenance. Under Core Maintenance, click Branch EOD.
- 2. Under Branch EOD, click View EOD.
 - → The View EOD screen is displayed.

Figure 11: View EOD



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

Table 17: 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.
Modification Number	Displays the number of modifications performed on the record.

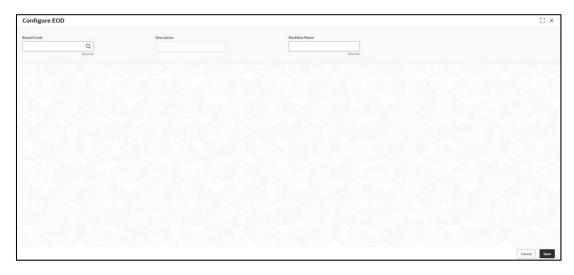


2.6.2 Branch EOD Maintenance

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

- 1. From Home screen, click Core Maintenance. Under Core Maintenance, click Branch EOD.
- 2. Under Branch EOD, click Configure EOD.
 - → The Configure EOD screen is displayed.

Figure 12: Configure EOD



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

Table 18: 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.

2.6.3 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



On Invoke EOD screen, specify the fields. The fields marked as Required are mandatory. For more information on fields, refer to the field description table below.

Table 19: Invoke EOD - Field Description

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

- 4. Click **Start** to invoke EOD for selected branch and Click **Refresh** to view the current status of batch.
- 5. Click **Retry** to restart the EOD workflow from the failed task.
 - NOTE: Retry button will be enabled only if the failed task status is encountered.
- 6. Click Reset to clear the branch selected.
- 7. Click **Refresh** to view the current status of batch.
- 8. Mouse-hover on the task to view the relevant details such as Start time, End time and Error if any.



Table 20: 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.



2.7 Checklists

You can configure the checklists details.

- 2.7.1 Checklists Linkage Maintenance
- 2.7.2 Checklist Maintenance

2.7.1 Checklists Linkage Maintenance

The summary screen provides a list of configured checklists linkage. You can configure a checklists linkage using the Checklists Linkage Maintenance. To process this screen, perform the following steps:

- 1. From Home screen, click Core Maintenance. Under Core Maintenance, click Checklists.
- 2. Under Checklists, click Checklists Linkage Maintenance.
 - → The Checklists Linkage Maintenance screen is displayed.

Figure 14: Checklists Linkage Maintenance



Table 21: Checklists Linkage Maintenance - Field Description

Field	Description
Process Code	Displays the process code.
Application Category Code	Displays the application category code.
Stage Code	Displays the stage code.
Status	Displays the status of the record.
Modification Number	Displays the number of modifications performed on the record.

- 3. Click '+' to configure the checklists linkage maintenance.
 - → The Checklist Linkage Maintenance screen is displayed.



Figure 15: Checklists Linkage Maintenance



4. On **Checklists Linkage Maintenance** screen, specify the fields. The fields marked as Required are mandatory. For more information on fields, refer to the field description table below.

Table 22: Checklists Linkage Maintenance – Field Description

Field	Description
Process Code	Click Search and select the process code to maintain the checklists.
Process Name	Displays the name of the process code.
Application Category Code	Select the application category code from the drop-down list.
Application Category Name	Displays the name of the application category.
Stage Code	Select the stage code from the drop-down list.
Stage Name	Displays the name of the stage code to be maintained.

- 5. Click '+' to add a row and provide the checklist code details.
- 6. Click Save. You can view the configured Checklists Linkage Maintenance.

2.7.2 Checklist Maintenance

The summary screen provides a list of configured checklist. You can configure a checklist using the Checklist Maintenance. To process this screen, perform the following steps:

- 1. From Home screen, click Core Maintenance. Under Core Maintenance, click Checklists.
- 2. Under Checklists, click Checklist Maintenance.
 - → The Checklist Maintenance screen is displayed.



Figure 16: Checklist Maintenance



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

Table 22: Checklist Maintenance - Field Description

Field	Description
Checklist Name	Displays the checklist name.
Checklist Code	Displays the code of the checklist maintained.
Status	Displays the status of the record.
Modification Number	Displays the number of modifications performed on the record.

- 3. Click '+' on Checklist Maintenance screen to configure the new checklist.
 - → The **Checklist** screen is displayed.

Figure 22: Checklist



4. On **Checklist** screen, specify the fields. The fields marked as Required are mandatory. For more information on fields, refer to the field description table below.



Table 22: Checklist - Field Description

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

5. Click **Save**, you can view the configured in **Checklist Maintenance**.



2.8 Country Code

You can configure a country code.

This section contains following subsections:

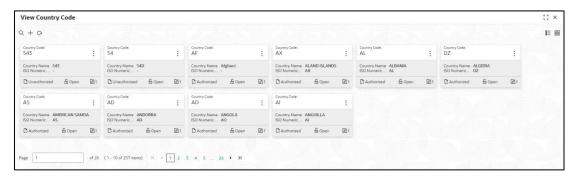
- 2.8.1 Country Code Summary
- 2.8.2 Country Code Maintenance

2.8.1 Country Code Summary

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

- 1. From Home screen, click Core Maintenance. Under Core Maintenance, click Country Code.
- 2. Under Country Code, click View Country Code.
 - → The View Country Code screen is displayed.

Figure 17: View Country Code



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.
Modification Number	Displays the number of modifications performed on the record.

2.8.2 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 18: Create Country Code



3. On **Create Country Code** screen, specify the fields. The fields marked as Required 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.
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.



Field	Description
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.



2.9 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:

- 2.9.1 Currency Definition Summary
- 2.9.2 Currency Definition Maintenance

2.9.1 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:

- From Home screen, click Core Maintenance. Under Core Maintenance, click Currency Definition.
- 2. Under Currency Definition, click View Currency Definition.
 - → The View Currency Definition screen is displayed.

Figure 19: View Currency Definition

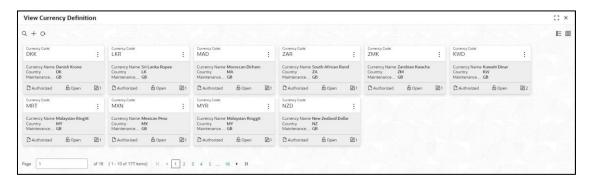


Table 25: View Currency Definition - Field Description

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.
Country	Displays the country associated with the currency.



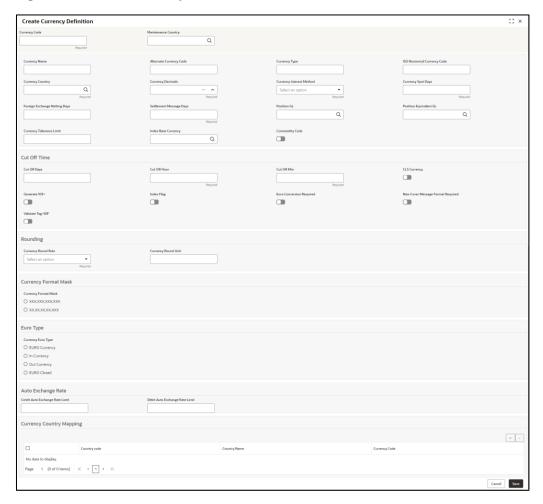
Field	Description
Maintenance Country	Displays the maintenance country.
Status	Displays the status of the record.
Modification Number	Displays the number of modifications performed on the record.

2.9.2 Currency Definition Maintenance

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

- From Home screen, click Core Maintenance. Under Core Maintenance, click Currency Definition.
- 2. Under Currency Definition, click Create Currency Definition.
 - → The Create Currency Definition screen is displayed.

Figure 20: Create Currency Definition



 On Create Currency Definition screen, specify the fields. The fields marked as Required 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.
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.



Field	Description
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.
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.



Field	Description
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.



2.10 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:

- 2.10.1 Currency Exchange Rate Summary
- 2.10.2 Currency Exchange Rate Maintenance



2.10.1 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:

- 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 21: View Currency Exchange Rate



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.
Modification Number	Displays the number of modifications performed on the record.

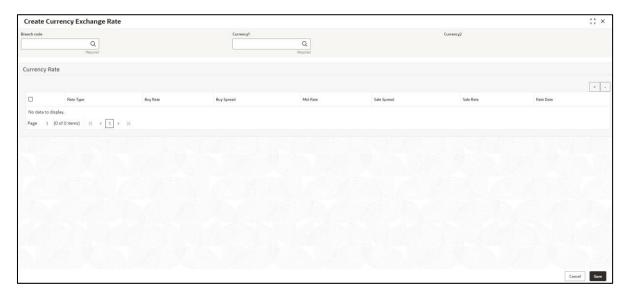


2.10.2 Currency Exchange Rate Maintenance

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

- 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 22: Create Currency Exchange Rate



3. On Create Entity screen, specify the fields. The fields marked as Required 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.



Field	Description
Buy Rate	Displays the Buy Rate for the Currency Exchange. Buy Rate is calculated based on Spread Definition maintained in the Currency Pair Maintenance screen.
	The effective spread is calculated using any of the following two methods:
	1. Percentage
	If the Spread Definition is selected as Percentage , then the buy rate is calculated as below:
	Buy Rate = Mid Rate-Buy Spread%
	Buy Spread% = Mid Rate*Buy Spread/100
	For example, 50*5/100 is 2.5 which is Buy Spread . Now Buy Rate will be 50-2.5 which is 47.5.
	2. Points
	If you select Spread Definition as Points then the buy rate is calculated as below:
	Buy Rate = Mid Rate-Buy Spread
	For example, if Buy Spread is 5, then Buy Rate is 50-5 = 45.
Buy Spread	Specify the buy spread details.
Mid Rate	Specify the mid-rate details.
Sale Spread	Specify the sale spread details.
Sale Rate	Displays the Sale Rate for the Currency Exchange. Sale Rate is calculated based on Spread Definition maintained in the Currency Pair Maintenance screen.
	The effective spread is calculated using any of the following two methods:
	1. Percentage
	If the Spread Definition is selected as Percentage , then the sale rate is calculated as below:
	Sale Rate = Mid Rate+Sale Spread%
	Sale Spread% = Mid Rate*Sale Spread/100
	For example, 50*5/100 is 2.5 which is Sale Spread. Now Sale Rate will be 50+2.5 which is 52.5.
	2. Points
	If you select Spread Definition as Points then the sale rate is calculated as below:
	Sale Rate = Mid Rate+Sale Spread
	For example, if Sale Spread is 5 then Sale Rate is 50+5 = 55.



Field	Description
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.



2.11 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:

- 2.11.1 Currency Holiday Master Summary
- 2.11.2 Currency Holiday Master Maintenance

2.11.1 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:

- 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 23: View Currency Holiday Master



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.



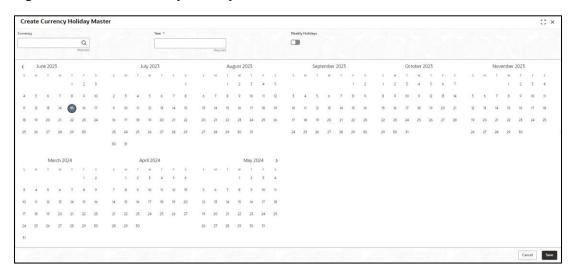
Field	Description
Modification Number	Displays the number of modifications performed on the record.

2.11.2 Currency Holiday Master Maintenance

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

- 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 24: Create Currency Holiday Master



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

Table 30: Create Currency Holiday Master - Field Description

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

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



2.12 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:

- 2.12.1 Currency Pair Definition Summary
- 2.12.2 Currency Pair Definition Maintenance

2.12.1 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:

- From Home screen, click Core Maintenance. Under Core Maintenance, click Currency Pair Definition.
- 2. Under Currency Pair Definition, click View Currency Pair Definition.
 - → The View Currency Pair Definition screen is displayed.

Figure 25: View Currency Pair Definition



Table 31: View Currency Pair Definition - Field Description

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



Field	Description
Status	Displays the status of the record.
Modification Number	Displays the number of modifications performed on the record.

2.12.2 Currency Pair Definition Maintenance

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

- 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 26: Create Currency Pair Definition



 On Create Currency Pair Definition screen, specify the fields. The fields marked as Required are mandatory. For more information on fields, refer to the field description table below.

Table 32: Create Currency Pair Definition - Field Description

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



Field	Description
	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	By default, this is disabled. If selected, indicates a check through
Currency	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
	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

4. Click **Save**. You can view the defined currency pair details in the Currency Pair Definition Summary.



2.13 Currency Rate Type

You can configure a currency rate type.

This section contains following subsections:

- 2.13.1 Currency Rate Type Summary
- 2.13.2 Currency Rate Type Maintenance

2.13.1 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:

- 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 27: View Currency Rate Type



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.
Modification Number	Displays the number of modifications performed on the record.

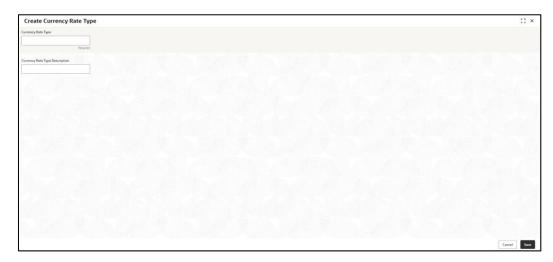
2.13.2 Currency Rate Type Maintenance

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



- 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 28: Create Currency Rate Type



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

Table 34: Create Currency Rate Type – Field Description

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

4. Click **Save**. You can view the configured currency rate type details in the Currency Rate Type Summary.



2.14 Customer Access Group

You can configure a customer access group.

This section contains following subsections:

- 2.14.1 Customer Access Group Summary
- 2.14.2 Customer Access Group Maintenance

2.14.1 Customer Access Group Summary

The summary screen provides a list of configured customer access group. You can configure a customer access group using the Customer Access Group Maintenance. To process this screen, perform the following steps:

- From Home screen, click Core Maintenance. Under Core Maintenance, click Customer Access Group.
- 2. Under Customer Access Group, click View Customer Access Group.
 - → The View Customer Access Group screen is displayed.

Figure 29: View Customer Access Group



Table 35: View Customer Access Group - Field Description

Field	Description
Access Group	Displays the access group.
Access Group Description	Displays additional information about the customer access group.
Status	Displays the status of the record.
Modification Number	Displays the number of modifications performed on the record.

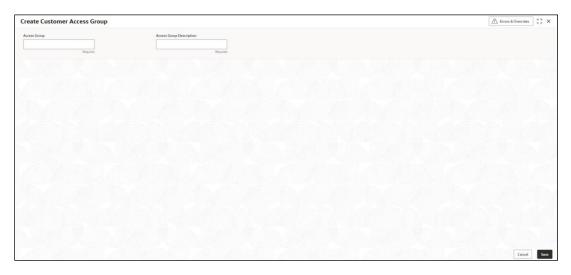


2.14.2 Customer Access Group Maintenance

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

- 1. From Home screen, click Core Maintenance. Under Core Maintenance, click Customer Access Group.
- 2. Under Customer Access Group, click Create Customer Access Group.
 - → The Create Customer Access Group screen is displayed.

Figure 30: Create Customer Access Group



3. On **Create Customer Access Group** screen, specify the fields. The fields marked as Required are mandatory. For more information on fields, refer to the field description table below.

Table 36: Create Customer Access Group - Field Description

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

4. Click **Save**. You can view the configured customer access group details in the Customer Access Group Summary.

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



2.15 Customer Category

You can configure a customer category.

This section contains following subsections:

- 2.15.1 Customer Category Summary
- 2.15.2 Customer Category Maintenance

2.15.1 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:

- From Home screen, click Core Maintenance. Under Core Maintenance, click Customer Category.
- 2. Under Customer Category, click View Customer Category.
 - → The View Customer Category screen is displayed.

Figure 31: View Customer Category



Table 37: View Customer Category - Field Description

Field	Description
Customer Category	Displays the customer category.
Description	Displays additional information about the customer category.
Status	Displays the status of the record.
Modification Number	Displays the number of modifications performed on the record.

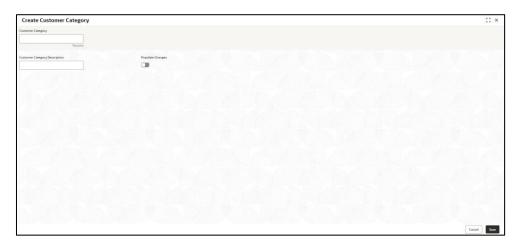


2.15.2 Customer Category Maintenance

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

- From Home screen, click Core Maintenance. Under Core Maintenance, click Customer Category.
- 2. Under Customer Category, click Create Customer Category.
 - → The Create Customer Category screen is displayed.

Figure 32: Create Customer Category



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

Table 38: 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.



2.16 Data Segment

You can configure the data segment details.

- 2.16.1 Data Segment Summary
- 2.16.2 Data Segment Maintenance

2.16.1 Data Segment Summary

The summary screen provides a list of configured data segment. You can configure a data segment using the Data Segment Maintenance. To process this screen, perform the following steps:

- 1. From Home screen, click Core Maintenance. Under Core Maintenance, click Data Segment.
- 2. Under Data Segment, click View Data Segment.
 - → The View Data Segment screen is displayed.

Figure 33: View Data Segment

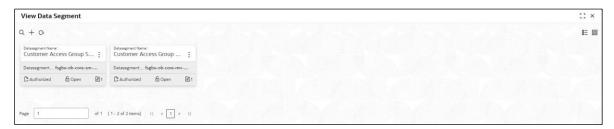


Table 39: View Data Segment - Field Description

Field	Description
Datasegment Name	Displays the datasegment name.
Datasegment Code	Displays the datasegment code.
Maker	Displays the name of the user who has configured the datasegment details.
Status	Displays the status of the record.
Modification Number	Displays the number of modifications performed on the record.



2.16.2 Data Segment Maintenance

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

- 1. From Home screen, click Core Maintenance. Under Core Maintenance, click Data Segment.
- 2. Under Data Segment, click Create Data Segment.
 - → The Create Data Segment screen is displayed.

Figure 34: Create Data Segment



3. On **Data Segment** screen, specify the fields. The fields marked as Required are mandatory. For more information on fields, refer to the field description table below.

Table 40: Create Data Segment - Field Description

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

4. Click Save. You can view the configured data segment in the Data Segment Summary.



2.17 ECA System

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

This section contains following subsections:

- 2.17.1 ECA System Summary
- 2.17.2 ECA System Maintenance

2.17.1 ECA System Summary

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

- 1. From Home screen, click Core Maintenance. Under Core Maintenance, click ECA System.
- 2. Under ECA System, click View ECA System.
 - → The View ECA System screen is displayed.

Figure 35: View ECA System



Table 41: 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.
Modification Number	Displays the number of modifications performed on the record.

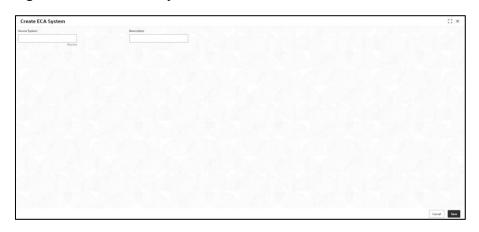


2.17.2 ECA System Maintenance

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

- 1. From Home screen, click Core Maintenance. Under Core Maintenance, click ECA System.
- 2. Under ECA System, click Create ECA System.
 - → The Create ECA System screen is displayed.

Figure 36: Create ECA System



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

Table 42: 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.



2.18 External Bank Parameters

You can configure bank level parameters.

This section contains following subsections:

- 2.18.1 External Bank Parameters Summary
- 2.18.2 External Bank Parameters Maintenance

2.18.1 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 37: View External Bank Parameters

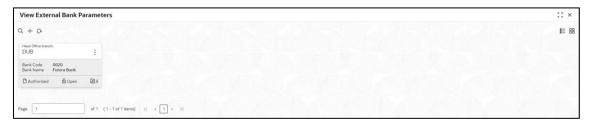


Table 43: View External Bank Parameters – Field Description

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



2.18.2 External Bank Parameters Maintenance

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

- 1. From Home screen, click Core Maintenance. Under Core Maintenance, click External Bank
 Parameters
- 2. Under External Bank Parameters, click Create External Bank Parameters.
 - → The Create External Bank Parameters screen is displayed.

Figure 38: Create External Bank Parameters



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

Table 44: Create External Bank Parameters – Field Description

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

4. Click **Save**. You can view the configure core bank parameter details in the External Bank Parameters Summary.



2.19 External Branch Parameters

You can configure branch level parameters.

This section contains following subsections:

- 2.19.1 External Branch Parameters Summary
- 2.19.2 External Branch Parameters Maintenance

2.19.1 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 39: View External Branch Parameters



Table 45: View External Branch Parameters - Field Description

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



NOTE: The Branch Parameters for the Head Office (HO) Branch of the entity will get auto-created when the entity is defined in the Multi-Entity Maintenance. Further changes/configuration of the HO Branch can be performed by modifying the record for the HO Branch's Parameterrs

2.19.2 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 40: Create External Branch Parameters



 On Create External Branch Parameters screen, specify the fields. The fields marked as Required are mandatory. For more information on fields, refer to the field description table below.

Table 46: Create External Branch Parameters – Field Description

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



Field	Description
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.
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.
Coniff Address	
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.



2.20 External Chart Account

You can configure an external chart.

This section contains following subsections:

- 2.20.1 Create External Chart Account
- 2,20,2 Chart Account Handoff
- 2.20.3 Inter Branch Entry Retry
- 2.20.4 Pre GL Balance Check
- 2.20.5 Transaction Log
- 2.20.6 Transaction Log Error Detail
- 2.20.7 Unbalanced Transaction Log
- 2.20.8 View External Chart Account

2.20.1 Create External Chart Account

This topics describes the systematic instructions to configure external chart accounts. To process this screen, perform the following steps:

- 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 41: Create External Chart Account



Specify the fields on Create External Chart Account screen. The fields marked as Required are mandatory.



Table 47: View External Chart Account – Field Description

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

4. Click **Save** to save the details. You can view the configured details in the View External Chart Account screen.

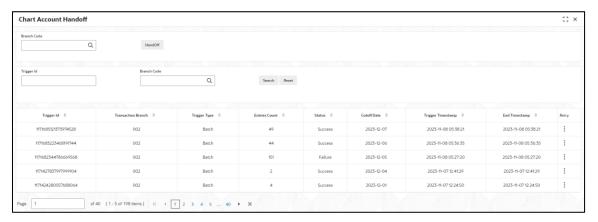


2.20.2 Chart Account Handoff

The maintenance screen allows you to initiate the handoff and view the handoff status. 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 Chart Account Handoff.
 - → The Chart Account Handoff screen is displayed.

Figure 42: Chart Account Handoff



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

Table 48: Chart Account Handoff - Field Description

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

- 6. Click **Search** button to search and view the account handoff details.
- 7. Click and select the **Retry** to re-initiate the account handoff for the given trigger id.
- 8. Click the Reset button to clear the account handoff filter criteria.



2.20.3 Inter Branch Entry Retry

The maintenance screen allows you to view failed inter branch entry details and initiate retry. 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 Inter Branch Entry Retry.
 - → The Inter Branch Entry Retry screen is displayed.

Figure 43: Inter Branch Entry Retry



3. Specify the fields on the Inter Branch Entry Retry screen.

Table 49: Inter Branch Entry Retry - Field Description

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

- 4. Click the **Search** button to search and view the inter branch entry retry.
- 5. Perform one of the following actions:
 - a) Click **Retry All** to re-initiate the inter branch entries.
 - b) Click **Retry** to re-initiate the inter branch entries.
 - → The Inter Branch Entry popup screen displays.
- 6. Click the Reset button to clear the search criteria.



2.20.4 Pre GL Balance Check

This topic describes the systematic instructions to view the GL Balance. 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 Pre GL Balance Check.
 - → The **Pre GL Balance Check** screen is displayed.

Figure 44: Pre GL Balance Check



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

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

Table 50: Pre GL Balance Check - Field Description

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

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

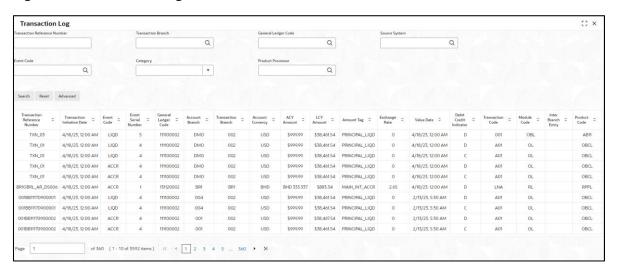


2.20.5 Transaction Log

This topic describes the systematic instructions to view all the transaction. 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 Transaction Log.
 - → The **Transaction Log** screen is displayed.

Figure 45: Transaction Log



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

Table 51: Inter Branch Entry Retry - Field Description

Field	Description
Transaction Reference Number	Specify the reference number of the transaction
Transaction Branch	Click Search icon and select branch code of the transaction
General Ledger Code	Click Search icon and select the general ledger code of the transaction.
Source System	Click Search icon and select source system of the transaction.
Event Code	Click Search icon and select event code of the transaction.
Category	Select the type of the category from the drop-down list. The available options are:



Field	Description
	Asset
	Liability
	Income
	Expense
	Contingent Asset
	Contingent Ledger
Product Processor	Click Search icon and select the product processor of the transaction.
Module Code	Click Search icon and select the module code of the transaction.
	NOTE: This filed appears when we click the Advanced button.
Product Code	Click Search icon and select the product code of the transaction.
	NOTE: This field appears when we click the Advanced button
Amount Tag	Click Search icon and select the amount tag of the transaction.
	NOTE: This field appears when we click the Advanced button.

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



2.20.6 Transaction Log Error Detail

This topic describes the systematic instructions to view all failed transactions failed during chart account handoff. 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 Transaction Log Error Detail.
 - → The Transaction Log Error Detail screen is displayed.

Figure 46: Transaction Log Error Detail



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

Table 52: Transaction Log Error Detail – Field Description

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

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

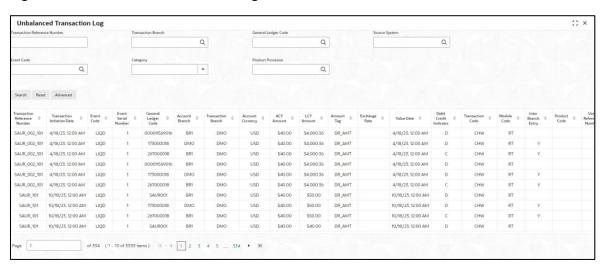


2.20.7 Unbalanced Transaction Log

This topic describes the systematic instructions to view all unbalanced transaction. 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 Unbalanced Transaction Log.
 - → The **Unbalanced Transaction Log** screen is displayed.

Figure 47: Unbalanced Transaction Log



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

Table 53: Unbalanced Transaction Log - Field Description

Field	Description
Transaction Reference Number	Specify the reference number of the transaction.
Transaction Branch	Click Search icon and select branch code of the transaction
General Ledger Code	Click Search icon and select general ledger code of the transaction
Source System	Click Search icon and select source system of the transaction.
Event Code	Click Search icon and select event code of the transaction.



Field	Description
Category	Select the type of the category from the drop-down list. The available options are:
	• Asset
	Liability
	• Income
	Expense
	Contingent Asset
	Contingent Ledger
Product Processor	Click Search icon and select the product processor of the transaction.
Module Code	Click Search icon and select the module code of the transaction.
	NOTE: This filed appears when we click the Advanced button.
Product Code	Click Search icon and select the product code of the transaction.
	NOTE: This field appears when we click the Advanced button
Amount Tag	Click Search icon and select the amount tag of the transaction.
	NOTE: This field appears when we click the Advanced button.

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



2.20.8 View External Chart Account

This topic describes the systematic instructions to view the list of configured 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 View External Chart Account.
 - → The View External Chart Account screen is displayed.

Figure 48: View External Chart Account



Table 54: View External Chart Account – Field Description

Field	Description
	-
General Ledger Code	Displays the code of the general ledger.
Source System	Displays the source system details.
Source System GL Code	Displays the GL code of the source system.
Authorization Status	Select the authorization status of the record.
	The options are:
	Authorized
	Rejected
	Unauthorized
Record Status	Select the record status of the record.
	The options are:
	Open
	• Closed
Modification Number	Displays the number of modifications performed on the record.



2.21 External Customer

You can configure the external customer details.

This section contains following subsections:

- 2.21.1 External Customer Summary
- 2.21.2 External Customer Maintenance

2.21.1 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:

- From Home screen, click Core Maintenance. Under Core Maintenance, click External Customer.
- 2. Under External Customer, click View External Customer.
 - → The View External Customer screen is displayed.

Figure 49: View External Customer

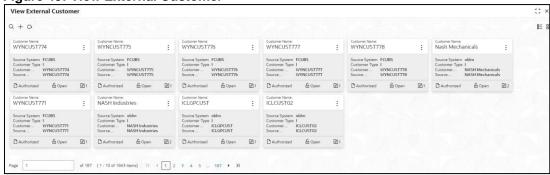


Table 55: View External Customer - Field Description

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.
Modification Number	Displays the number of modifications performed on the record.

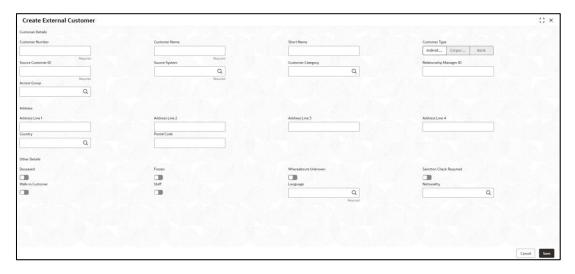


2.21.2 External Customer Maintenance

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

- From Home screen, click Core Maintenance. Under Core Maintenance, click External Customer.
- 2. Under External Customer, click Create External Customer.
 - → The Create External Customer screen is displayed.

Figure 50: Create External Customer



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

Table 56: 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.
Access Group	Search and select the required access group.
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.



Field	Description
Staff	By default, this is disabled. If selected, indicates a staff customer.
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.



2.22 External Customer Account

You can configure the external customer account details.

This section contains following subsections:

- 2.22.1 External Customer Account Summary
- 2.22.2 External Customer Account Maintenance

2.22.1 External Customer Account Summary

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

- From Home screen, click Core Maintenance. Under Core Maintenance, click External Customer Account.
- 2. Under External Customer Account, click View External Customer Account.
 - → The View External Customer Account screen is displayed.

Figure 51: View External Customer Account



Table 57: View External Customer Account - Field Description

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

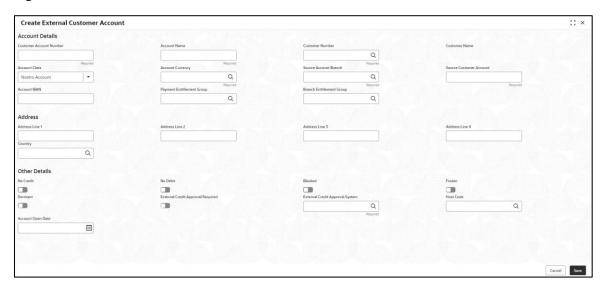


2.22.2 External Customer Account Maintenance

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

- 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 52: Create External Customer Account



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

Table 58: 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.



Field	Description
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.
Payment Entitlement Group	Search and select the payment entitlement group.
Branch Entitlement	Search and select the branch entitlement group.
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.
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.



Field	Description
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.



2.23 External Customer Account Structured Address

You can configure the external customer account structured address details.

This section contains following subsections:

- 2.23.1 View External Customer Account Structured Address
- 2.23.2 Create External Customer Account Structured Address

2.23.1 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:

- From Home screen, click Core Maintenance. Under Core Maintenance, click External Customer Account Structured Address.
- Under External Customer Account Structured Address, click View External Customer Account Structured Address.
 - → The View External Customer Account Structured Address screen is displayed.

Figure 53: View External Customer Account Structured Address



Table 59: 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.
Status	Displays the status of the record.
Modification Number	Displays the number of modifications performed on the record.

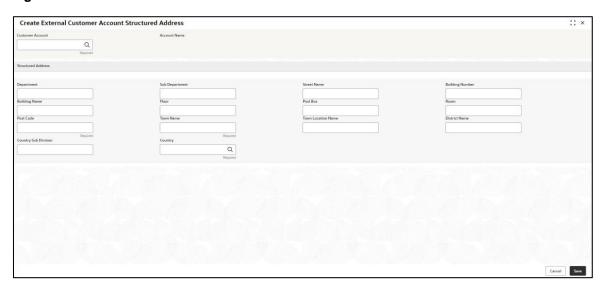


2.23.2 Create External Customer Account Structured Address

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.
- Under External Customer Account Structured Address, click Create External Customer Account Structured Address.
 - → The Create External Customer Account Structured Address screen is displayed.

Figure 54: Create External Customer Account Structured Address



On Create External Customer Account Structured Address screen, specify the fields. The
fields marked as Required are mandatory. For more information on fields, refer to the field
description table below.

Table 60: 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.



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

4. Click **Save**. You can view the configured external customer structured address details in View External Customer Account Structured Address.



2.24 External Virtual Account Structured Address

You can view the external virtual account structured address details.

This section contains following subsections:

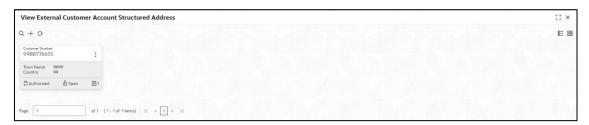
2.24.1 View External Virtual Account Structured Address

2.24.1 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:

- From Home screen, click Core Maintenance. Under Core Maintenance, click External Virtual Account Structured Address.
- 2. Under External Virtual Account Structured Address, click View External Virtual Account Structured Address.
 - → The View External Virtual Account Structured Address screen is displayed.

Figure 55: View External Virtual Account Structured Address



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

Table 61: 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.
Status	Displays the status of the record.
Modification Number	Displays the number of modifications performed on the record.

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



2.25 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:

- 2.25.1 Forgotten Customers Summary
- 2.25.2 Forget Customer Maintenance

2.25.1 Forgotten Customers Summary

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

- 1. From Home screen, click Core Maintenance. Under Core Maintenance, click Forget Process.
- 2. Under Forget Process, click View Forgotten Customer.
 - → The View Forgotten Customer screen is displayed.

Figure 56: View Forgotten Customers



Table 62: 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.
Modification Number	Displays the number of modifications performed on the record.

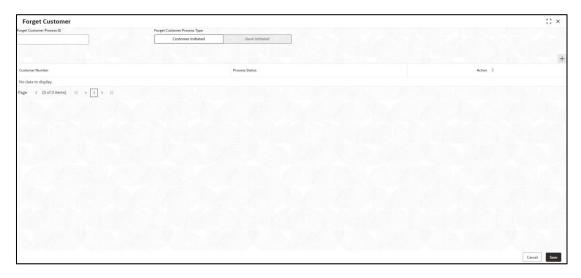


2.25.2 Forget Customer Maintenance

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

- 1. From Home screen, click Core Maintenance. Under Core Maintenance, click Forget Process.
- 2. Under Forget Process, click Forget Customer.
 - → The Forget Customer screen is displayed.

Figure 57: Forget Customer



On Forget Customer screen, specify the fields. The fields marked as Required are mandatory.For more information on fields, refer to the field description table below.

Table 63: Forget Customer - Field Description

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

- 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.



2.26 GL Parameter Maintenance

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:

- 2.26.1 Create GL Parameter
- 2.26.2 View GL Parameter

2.26.1 Create GL Parameter

This topic describes the systematic instructions to configure the GL parameter. To process this screen, perform the following steps:

- From Home screen, click Core Maintenance. Under Core Maintenance, click GL Parameter Maintenance.
- 2. Under GL Parameter Maintenance, click Create GL Parameter.
 - → The Create GL Parameter screen is displayed.

Figure 58: Create GL Parameter



Specify the fields on Create GL Parameter screen. The fields marked as Required are mandatory.

Table 64: Create GL Parameter - Field Description

Field	Description
Interbranch Entries	Select the toggle to enable the interbranch entries consolidation to GL
Consolidation	parameter.



Field	Description
Scheduler Frequency (in milliseconds)	Specify the time between two consecutive batch runs.
Consolidate Entries for Enterprise GL Handoff	Select the toggle to enable the consolidate entries for enterprise GL Handoff to GL Parameter.
Max Request Size	Specify the mx request size for GL parameter.

4. Click **Save** to save the details. You can view the configured GL parameter in the View GL Parameter

NOTE: The user can maintain only one set of GL Parameter.

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

2.26.2 View GL Parameter

The maintenance screen allows you to view the configured GL parameter. To process this screen, perform the following steps:

- From Home screen, click Core Maintenance. Under Core Maintenance, click GL Parameter Maintenance.
- 2. Under GL Parameter Maintenance, click View GL Parameter.
 - → The View GL Parameter screen is displayed.

Figure 59: View GL Parameter





Table 65: View GL Parameter – Field Description

Field	Description
IB Consolidation	Displays the IB Consolidation got GL Parameter.
Log Schedule	Displays the log schedule for GL parameter.
Authorization status	Select the authorization status of the record.
	The options are:
	Authorized
	Rejected
	Unauthorized
Record Status	Select the record status of the record.
	The options are:
	• Open
	Closed
Modification Number	Displays the number of modifications performed on the record.



2.27 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:

- 2.27.1 Host Code Summary
- 2.27.2 Host Code Maintenance

2.27.1 Host Code Summary

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

- 1. From Home screen, click Core Maintenance. Under Core Maintenance, click Host Code.
- 2. Under Host Code, click View Host Code.
 - → The View Host Code screen is displayed.

Figure 60: View Host Code



Table 66: 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.
Modification Number	Displays the number of modifications performed on the record.



2.27.2 Host Code Maintenance

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

- 1. From Home screen, click Core Maintenance. Under Core Maintenance, click Host Code.
- 2. Under Host Code, click Create Host Code.
 - → The Create Host Code screen is displayed.

Figure 61: Create Host Code



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

Table 67: 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.



2.28 Interest Rate

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

A base interest rate can be applied to a loan with or without spread to derive the final rate. The interest rate type maintained and further used in the product can be one of the following:

- Fixed
- Floating

This section contains following subsections:

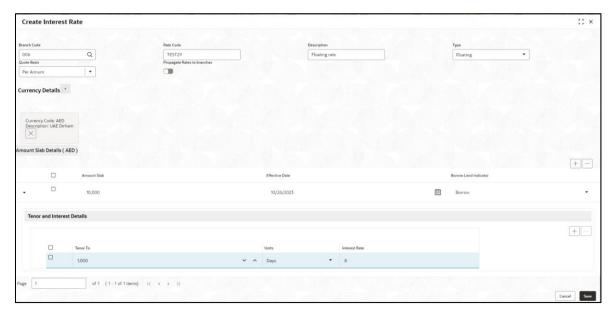
- 2.28.1 Create
- 2.28.2 View Inter

2.28.1 Create Interest Rate

The screen allows the user to configure the interest rates. To process this screen, perform the following steps:

- 1. From Home screen, click Core Maintenance. Under Core Maintenance, click Interest Rate Maintenance.
- 2. Under Interest Rate Maintenance, click Create Interest Rate.
 - → The Create Interest Rate screen is displayed.

Figure 62: Create Interest Rate



3. Specify the fields on **Create Interest Rate** screens, The fields which are marked as Required are mandatory.



Table 68: Create Interest Rate - Field Description

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

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



Table 69: Amount Slab Details - Field Description

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

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

Table 70: Tenor and Interest Details - Field Description

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

- b) Select the rows and click button to delete the rows added for tenor and interest details.
- 6. Click **Save** to save the details. You can view the configured interest rate details in the View Interest Rate



2.28.2 View Interest Rate

The maintenance screen allows you to view the configured Interest Rate. To process this screen, perform the following steps:

- 1. From Home screen, click Core Maintenance. Under Core Maintenance, click Interest Rate Maintenance.
- 2. Under Interest Rate Maintenance, click View Interest Rate.
 - → The View Interest Rate screen is displayed.

Figure 63: View Interest Rate

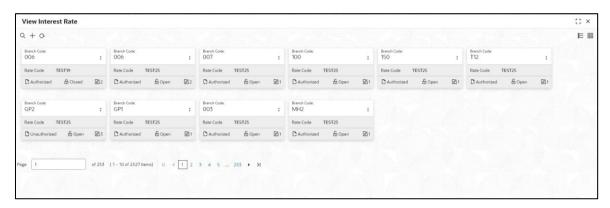


Table 71: View Interest Rate – Field Description

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



2.29 Inter Branch Parameter Maintenance

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

This section contains following subsections:

- 2.29.1 Create Inter Branch
- 2.29.2 View Inter Branch Parameters

2.29.1 Create Inter Branch Maintenance

The screen allows the user to configure the inter branch. To process this screen, perform the following steps:

- 1. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Inter Branch**Parameters.
- 2. Under Inter Branch Parameters, click Create Inter Branch Parameters.
 - → The Create Inter Branch Parameters screen is displayed.

Figure 64: Create Inter Branch Parameters



 Specify the fields on Create Inter Branch Parameters screens, The fields which are marked as Required are mandatory.

Table 72: Create Inter Branch Parameters – Field Description

Field	Description
Branch 1	Click the Search icon to view and select the branch code from branch 1.
Branch 1 Name	Auto populates the name of the branch 1 from the selected branch code.



Field	Description
Branch 2	Click the Search icon to view and select the branch code from branch 2.
Branch 2 Name	Auto populates the name of the branch 2 from the selected branch code.
Branch 1	Auto populates the branch 1 from the selected branch code.
Due to Branch 2	Click Search icon and select the GL code that will be the used for settling dues to Branch 2.
Due From Branch 2	Click Search icon and select the that will be the used for receiving dues from Branch 2.
Inter Branch Currency	Select the currency to be used for inter branch transaction from the drop-down list. The available options are:
	Account Currency
	Transaction Currency
Description (Due to Branch 2)	Auto populates the description of branch 2.
Description (Due From Branch 2)	Auto populates the description of branch 2.
Branch 2	Auto populates the branch 2 from the selected branch code.
Due to Branch 1	Click Search icon and select the GL code that will be the used for settling dues to Branch 1.
Due From Branch 1	Click Search icon and select the that will be the used for receiving dues from Branch 1.
Inter Branch Currency	Select the currency to be used for inter branch transaction from the drop-down list. The available options are:
	Account Currency
	Transaction Currency



- 4. Click **Save** to save the details. You can view the configured inter branch parameters details in the View Inter Branch Parameters.
- 5. Click **Cancel** to discard the changes and close the screen.

2.29.2 View Inter Branch Parameters

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

- 6. From **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Inter Branch**Parameters.
- 7. Under Inter Branch Parameters, click View Inter Branch Parameters.
 - → The View Inter Branch Parameters screen is displayed.

Figure 65: View Inter Branch Parameters



Table 73: View Inter Branch Parameters - Field Description

Field	Description
Branch 1	Displays the code of the branch 1.
Branch 2	Displays the code of the branch 2.
Authorization Status	Select the authorization status of the record.
	The options are:
	Authorized
	Rejected
	Unauthorized



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



2.30 Language Code

You can configure a language code.

This section contains following subsections:

- 2.30.1 Language Code Summary
- 2.30.2 Language Code Maintenance

2.30.1 Language Code Summary

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

- 1. From Home screen, Core Maintenance. Under Core Maintenance, click Language Code.
- 2. Under Language Code, click View Language Code.
 - → The View Language Code screen is displayed.

Figure 66: View Language Code



Table 74: 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.
Modification Number	Displays the number of modifications performed on the record.



2.30.2 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 67: Create Language Code



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

Table 75: 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.



2.31 Local Holiday

You can configure a local holiday.

This section contains following subsections:

- 2.31.1 Local Holiday Summary
- 2.31.2 Local Holidays Maintenance

2.31.1 Local Holiday Summary

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

- 1. From Home screen, click Core Maintenance. Under Core Maintenance, click Local Holiday.
- 2. Under Local Holiday, click View Local Holiday.
 - → The View Local Holiday screen is displayed.

Figure 68: View Local Holiday



Table 76: View Local Holiday - Field Description

Field	Description
Branch Code	Displays the code of the branch.
Unexpected Holiday	Indicates if the record is an unexpected holiday.
Year	Displays the year of the holiday.
Status	Displays the status of the record.
Modification Number	Displays the number of modifications performed on the record.

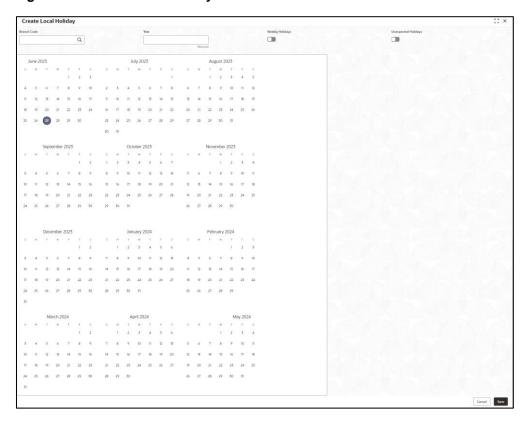


2.31.2 Local Holidays Maintenance

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 69: Create Local Holiday



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

Table 77: 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.



2.32 Media

You can configure media information.

This section contains following subsections:

- 2.32.1 Media Summary
- 2.32.2 Media Maintenance

2.32.1 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 70: View Media



Table 78: 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.
Modification Number	Displays the number of modifications performed on the record.



2.32.2 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 71: Create Media



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 79: 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.



2.33 MIS Group

You can configure the class into the MIS Group.

- 2.30.1 MIS Group Summary
- 2.30.2 MIS Group Maintenance

2.33.1 MIS Group Summary

The summary screen provides a list of configured MIS Group. You can configure the MIS Group details using the MIS Group Maintenance. To process this screen, perform the following steps:

- 1. From Home screen, click Core Maintenance. Under Core Maintenance, click MIS Class.
- 2. Under MIS Group, click View MIS Group.
 - → The View MIS Group screen is displayed.

Figure 72: View MIS Group



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

Table 80: View MIS Group - Field Description

Field	Description	
MIS Group	Displays the name of the MIS group.	
Description	Displays the description of the MIS group.	
Status	Displays the status of the record.	
Modification Number	Displays the number of modifications performed on the record.	

2.33.2 MIS Group Maintenance

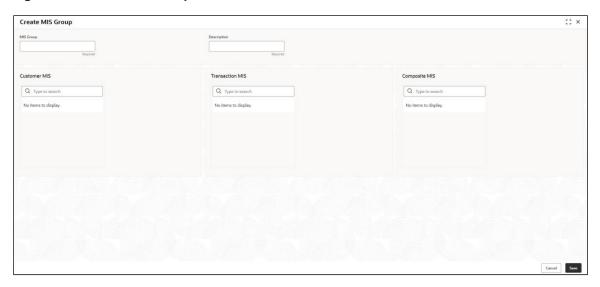
This maintenance screen allows you to configure the MIS Group. To process this screen, perform the following steps:

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



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

Figure 73: Create MIS Group



3. On **Create MIS Group** screen, specify the fields. The fields marked as Required are mandatory. For more information on fields, refer to the field description table below.

Table 22: Create MIS Group - Field Description

Field	Description	
MIS Group	Specify the MIS Group.	
Description	Specify the description of the MIS Group.	
Customer MIS	Click Search and select the customer MIS	
Transaction MIS	Click Search and select the transaction MIS	
Composite MIS	Click Search and select the composite MIS	

4. Click Save, you can view the configure details in MIS Group Summary.



2.34 MIS Class

You can configure the MIS Class.

- 2.31.1 MIS Class Summary
- 2.31.2 MIS Class Maintenance

2.34.1 MIS Class Summary

The summary screen provides a list of configured MIS Class. You can configure the MIS Class details using the MIS Class Maintenance. To process this screen, perform the following steps:

- 5. From Home screen, click Core Maintenance. Under Core Maintenance, click MIS Class.
- 6. Under MIS Class, click View MIS Class.
 - → The View MIS Class screen is displayed.

Figure 22: View MIS Class



Table 22: View MIS Class - Field Description

Field	Description	
MIS Class	Displays the Configured MIS Class.	
Description	Displays the description of MIS Class	
MIS Type	Displays the type of MIS Class.	
Status	Displays the status of the record.	
Modification Number	Displays the number of modifications performed on the record.	

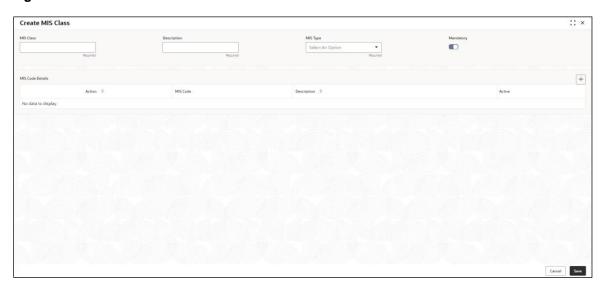


2.34.2 MIS Class Maintenance

This maintenance screen allows you to configure the MIS Class. To process this screen, perform the following steps:

- 1. From Home screen, click Core Maintenance. Under Core Maintenance, click MIS Class.
- 2. Under MIS Class, click Create MIS Class.
 - → The Create MIS Class screen is displayed.

Figure 22: Create MIS Class



3. On **Create MIS Class** screen, specify the fields. The fields marked as Required are mandatory. For more information on fields, refer to the field description table below.

Table 22: Create MIS Class - Field Description

Field	Description
MIS Class	Specify the MIS Class to be maintained.
Description	Specify the description of the MIS Class code.
MIS Type	Select the type of the MIS class from the drop-down list.
	The available options are:
	Transaction Class
	Composite Class
	Customer Class
Mandatory	Select the Toggle to make the MIS Code mandatory.

- 4. Click '+' icon to associate the MIS code to a class.
- 5. Click **Save**, you can view the configure details in MIS Class Summary.



2.35 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:

- 2.35.1 Create MCA Linkage
- 2.35.2 View MCA Linkage

2.35.1 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.
 - → The Create MCA Linkage screen is displayed.

Figure 74: Create MCA Linkage



3. 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 81: 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.	



Field	Description	
Account Number	Specify the account number of the sub account.	
Primary	Select Yes , if the sub account is Primary. If it is not Primary, select No .	

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

2.35.2 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.
 - → The View MCA Linkage screen is displayed.

Figure 75: View MCA Linkage



Table 82: View MCA Linkage - Field Description

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.
Modification Number	Displays the number of modifications performed on the record.



2.36 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:

- 2.36.1 View Process Code
- 2.36.2 Process Code Maintenance

2.36.1 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.
 - → The View Process Code screen is displayed.

Figure 76: View Process Code

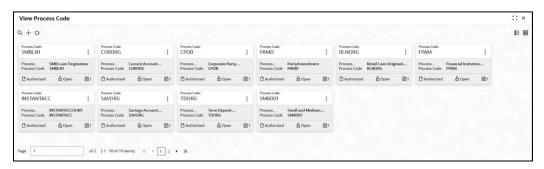


Table 83: View Process Code - Field Description

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



2.36.2 Process Code Maintenance

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

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

Figure 77: Process Code



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

Table 84: Process Code - Field Description

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.



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 an existing 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 an existing row with phase details.

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



2.37 Priority Code

You can configure the priority code.

- 2.34.1 Customer Priority Maintenance
- 2.34.2 Priority Code Maintenance

2.37.1 Customer Priority Maintenance

The summary screen provides a list of configured customer priority maintenance. To process this screen, perform the following steps:

- 1. From Home screen, click Core Maintenance. Under Core Maintenance, click Priority Code.
- 2. Under Priority Code, click Customer Priority Maintenance.
 - → The Customer Priority Maintenance screen is displayed.

Figure 22: Customer Priority Maintenance



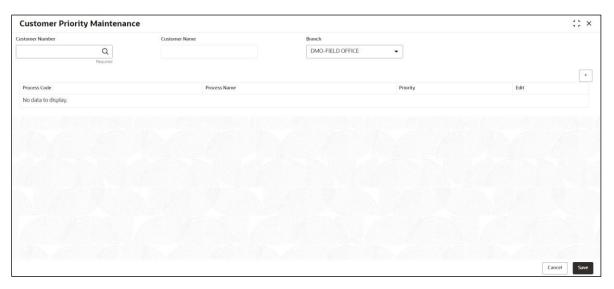
Table 85: Customer Priority Maintenance - Field Description

Field	Description
Customer Name	Displays the name of the customer.
Customer Code	Displays the code of the customer.
Maker	Displays the name of the user who has configured the customer priority details.
Status	Displays the status of the record.
Modification Number	Displays the number of modifications performed on the record.

- 3. Click '+' button to configure the new customer priority maintenance.
 - → The Customer Priority Maintenance screen is displayed.



Figure 78: Customer Priority Maintenance



4. On **Customer Priority Maintenance** screen, specify the fields. The fields marked as Required are mandatory. For more information on fields, refer to the field description table below.

Table 86: Customer Priority Maintenance - Field Description

Field	Description	
Customer Number	Click Search and select the customer number from the list.	
Customer Name	Displays the name of the selected customer.	
Branch	Select the branch of the customer from the drop-down list.	
4	Click '+' icon to add the new row for the process codes configuration.	
Process Code	Click Search and select the process code from the list.	
Process Name	Displays the name of the selected process code.	
Priority	Select the priority of the process code from the drop-down list.	
Edit	Click the 'Edit' action button to modify the details.	

5. Click **Save** to save the details capture for customer priority maintenance.



2.37.2 Priority Code Maintenance

The summary screen provides a configured priority code maintenance. To process this screen, perform the following steps:

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

Figure 79: Priority Code Maintenance



Table 87: Priority Code Maintenance

Field	Description
Name	Displays the name of the priority code configured.
Maker	Displays the name of the user who has configured the priority code details.
Status	Displays the status of the record.
Modification Number	Displays the number of modifications performed on the record.



2.38 Pricing Source System

You can configure the pricing source system.

This section contains following subsections:

- 2.35.1 Pricing Source System Summary
- 2.35.2 Pricing Source System Maintenance

2.38.1 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:

- From Home screen, click Core Maintenance. Under Core Maintenance, click Pricing Source System.
- 2. Under Pricing Source System, click View Pricing Source System.
 - → The View Pricing Source System screen is displayed.

Figure 80: View Pricing Source System



Table 88: View Pricing Source System - Field Description

Field	Description
Pricing Source System	Displays the name of the Pricing Source system.
Pricing Source System Description	Displays any additional information of the Pricing Source system.
Status	Displays the status of the record.
Modification Number	Displays the number of modifications performed on the record.

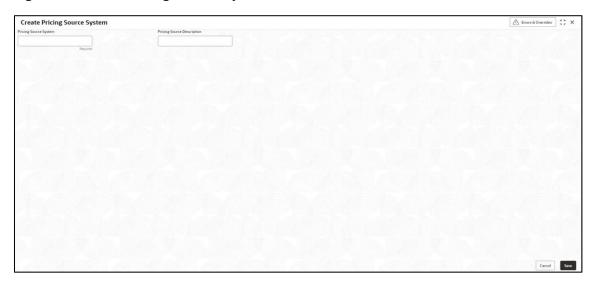


2.38.2 Pricing Source System Maintenance

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

- From Home screen, click Core Maintenance. Under Core Maintenance, click Pricing Source System.
- 2. Under Pricing Source System, click Create Pricing Source System.
 - → The Create Pricing Source System screen is displayed.

Figure 81: Create Pricing Source System



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

Table 89: 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.



2.39 Resource Class

You can configure the resource class details.

- 2.36.1 Resource Class Summary
- 2.36.2 Resource Class Maintenance

2.39.1 Resource Class Summary

The summary screen provides a list of configured Resource Class system. You can configure the resource class details using the Resource Class Maintenance. To process this screen, perform the following steps:

- 1. From Home screen, click Core Maintenance. Under Core Maintenance, click Resource Class.
- 2. Under Resource Class, click View Resource Class.
 - → The View Resource Class screen is displayed.

Figure 82: View Resource Class



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

Table 90: View Resource Class - Field Description

Field	Description
Resource Class Code	Displays the code of the resource class.
Resource Class Description	Displays the description of the resource class.
Status	Displays the status of the record.
Modification Number	Displays the number of modifications performed on the record.

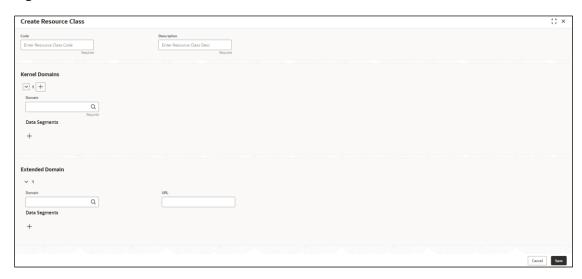
2.39.2 Resource Class Maintenance

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



- 1. From Home screen, click Core Maintenance. Under Core Maintenance, click Resource Class.
- 2. Under Resource Class, click Create Resource Class.
 - → The Create Resource Class screen is displayed.

Figure 83: Create Resource Class



3. On **Create Resource Class** screen, specify the fields. The fields marked as Required are mandatory. For more information on fields, refer to the field description table below.

Table 91: Create Resource Class - Field Description

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



Field	Description
URL	Specify the URL of the selected domain.
Data segments	Click '+' and select the required data segments for the domain to be configured.

4. Click Save. You can view the configure Resource Class details in the Resource Class Summary.



2.40 SLA Maintenance

You can configure the SLA Maintenance details.

- 2.37.1 View SLA
- 2.37.2 Create SLA

2.40.1 View SLA

The summary screen provides a list of configured SLA Maintenance. You can configure the Create SLA details using the. To process this screen, perform the following steps:

- 1. From Home screen, click Core Maintenance. Under Core Maintenance, click SLA Maintenance.
- 2. Under SLA Maintenance, click View SLA.
 - → The View SLA screen is displayed.

Figure 84: View SLA

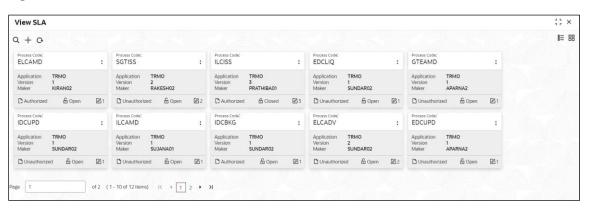


Table 92: Create SLA - Field Description

Field	Description
Process Code	Displays the process code of the SLA Maintenance configured.
Application	Displays the name of the application.
Maker	Displays the name of the user who has configured the SLA Maintenance details.
Status	Displays the status of the record.
Modification Number	Displays the number of modifications performed on the record.



2.40.2 Create SLA

The create screen allows you to configure SLA Maintenance details. To process this screen, perform the following steps:

- 1. From Home screen, click Core Maintenance. Under Core Maintenance, click SLA Maintenance.
- 2. Under SLA Maintenance, click Create SLA.
 - → The Create SLA screen is displayed.

Figure 85: Create SLA



3. On **Create SLA** screen, specify the fields. The fields marked as Required are mandatory. For more information on fields, refer to the field description table below.

Table 93: Create SLA - Field Description

Field	Description
Product/Application Code	Click Search icon and select the Product or Application Code.
Product/Application Name	Displays the name of the Product/Application.
Business Process Code	Click Search icon and select the Business Process Code for which the SLA maintenance has to be made.
Business Process Name	Displays the Business Process name based on the Business Process code selected.
Branch	Select the branch code for which SLA maintenance has to be done.



Field	Description
Branch Working Hours	Click the icon to view the branch working hours.
Include for SLA Calculation	Select the checkbox to consider the below options for the SLA calculation. Branch Holidays Currency Holidays Hold Time Customer Clarification Off Branch Time Transactions

4. Click **Calculate** to view data will appear for the selected Business process code, you can view the configure SLA Maintenance details in View SLA.



2.41 Screenclass

You can configure screenclass details:

- 2.38.1 View Screenclass
- 2.38.2 Create Screenclass

2.41.1 View Screenclass

The summary screen provides a list of configured Screenclass Maintenance. You can configure the Create Screenclass details using the. To process this screen, perform the following steps:

- 1. From Home screen, click Core Maintenance. Under Core Maintenance, click Screenclass.
- 2. Under Screenclass, click View Screenclass.
 - → The View Screenclass screen is displayed.

Figure 86: View Screenclass



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

Table 94: View Screenclass - Field Description

Field	Description
Screenclass Code	Displays the code of screenclass.
Screenclass Description	Displays the description of screenclass.
Status	Displays the status of the record.
Modification Number	Displays the number of modifications performed on the record.

2.41.2 Create Screenclass

The create screen allows you to configure screenclass details. To process this screen, perform the following steps:

- 1. From Home screen, click Core Maintenance. Under Core Maintenance, click Screenclass.
- 2. Under Screenclass, click Create Screenclass.



→ The Create Screenclass screen is displayed.

Figure 87: Create Screenclass



3. On **Create Screenclass** screen, specify the fields. The fields marked as Required are mandatory. For more information on fields, refer to the field description table below.

Table 22: Create Screenclass - Field Description

Field	Description
Code	Specify the code to configure the screenclass.
Description	Specify the description of the screenclass code.
Domain	Search and select the domain for the screenclass
Breadcrumb Position	Select the position of breadcrumb for the screenclass.
Resource Flag	Select the toggle to enable the resource class code.
Resource Class Code	Search and select the resource class code from the list.

4. Click Save. You can view the configure Screenclass details in the View Screenclass.



2.42 State Code

You can configure the State code details:

- 2.39.1 View State Code
- 2.39.2 Create State Code

2.42.1 View State Code

The summary screen provides a list of configured Screenclass Maintenance. You can configure the Create State Code details using the. To process this screen, perform the following steps:

- 1. From Home screen, click Core Maintenance. Under Core Maintenance, click State Code.
- 2. Under State Code, click View State Code.
 - → The View State Code screen is displayed.

Figure 88: View State Code

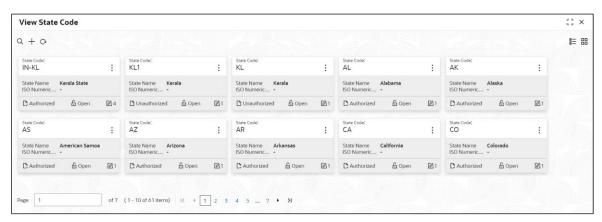


Table 95: View State Code - Field Description

Field	Description
State Code	Displays the State code.
State Name	Displays the name of state code.
ISO Numeric	Displays the ISO numeric.
Status	Displays the status of the record.
Modification Number	Displays the number of modifications performed on the record.



2.42.2 Create State Code

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

- 1. From Home screen, click Core Maintenance. Under Core Maintenance, click State Code.
- 2. Under State Code, click Create State Code.
 - → The Create State Code screen is displayed.

Figure 22: Create State Code



3. On **Create State Code** screen, specify the fields. The fields marked as Required are mandatory. For more information on fields, refer to the field description table below.

Table 22: Create State Code - Field Description

Field	Description
State Code	Specify the code of the state.
State Name	Specify the name of the state.
Country Code	Search and select the country code for the state to be configured.

4. Click **Save**. You can view the configure State Code details in the View State Code.



2.43 System Dates

You can view the system date details.

This section contains following subsections:

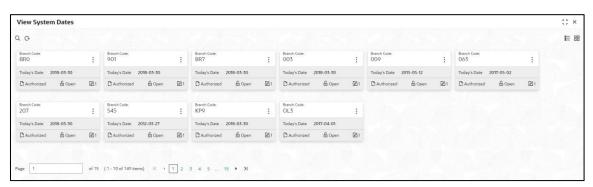
• 2.43.1 System Dates Summary

2.43.1 System Dates Summary

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

- 5. From Home screen, click Core Maintenance. Under Core Maintenance, click System Dates.
- 6. Under System Dates, click View System Dates.
 - → The View System Dates screen is displayed.

Figure 89: View System Dates



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

Table 96: View System Dates - Field Description

Field	Description
Branch Code	Displays the code of the branch.
Today's Date	Displays system's current date.
Today's Date in Text	Displays the system's current date in words.
Status	Displays the status of the record.
Modification Number	Displays the number of modifications performed on the record.

NOTE: When the entity is created from the Multi-Entity Maintenances, the System Dates for the Head Office (HO) Branch would be automatically created



2.44 Transaction Code

You can configure the transaction code.

This section contains following subsections:

- 2.44.1 Transaction Code Summary
- 2.44.2 Transaction Code Maintenance

2.44.1 Transaction Code Summary

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

- 1. From Home screen, click Core Maintenance. Under Core Maintenance, click Transaction Code.
- 2. Under Transaction Code, click View Transaction Code.
 - → The View Transaction Code screen is displayed.

Figure 90: View Transaction Code



Table 97: View Transaction Code - Field Description

Field	Description
Source System	Displays the source system details.
Transaction Code	Displays the transaction code details.
Source Transaction Code	Displays the source transaction code associated with the transaction code.
Status	Displays the status of the record,
Modification Number	Displays the number of modifications performed on the record.

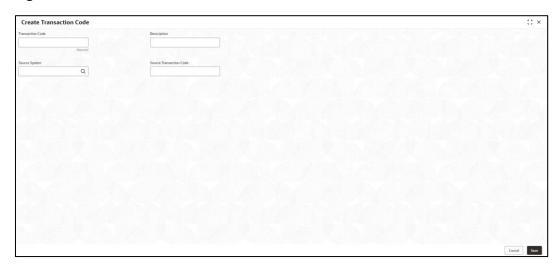


2.44.2 Transaction Code Maintenance

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

- 1. From Home screen, click Core Maintenance. Under Core Maintenance, click Transaction Code.
- 2. Under Transaction Code, click Create Transaction Code.
 - → The Create Transaction Code screen is displayed.

Figure 91: Create Transaction Code



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

Table 98: Create Transaction Code – Field Description

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

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



2.45 Upload Source

You can upload a source code.

This section contains following subsections:

- 2.45.1 Upload Source Summary
- 2.45.2 Upload Source Maintenance

2.45.1 Upload Source Summary

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

- 1. From Home screen, click Core Maintenance. Under Core Maintenance, click Upload Source.
- 2. Under Upload Source, click View Upload Source.
 - → The View Upload Source screen is displayed.

Figure 92: View Upload Source



Table 99: View Upload Source - Field Description

Field	Description
Upload Source	Displays the upload source details.
Source Description	Displays information about the source code.
Status	Displays the status of the record.
Modification Number	Displays the number of modifications performed on the record.

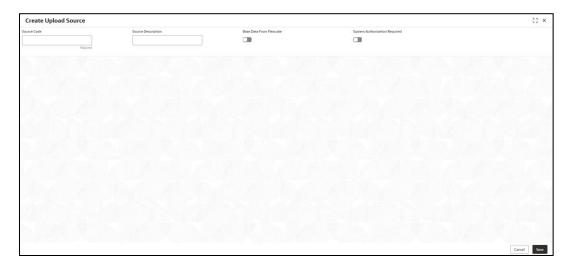


2.45.2 Upload Source Maintenance

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 93: Create Upload Source



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

Table 100: Create Upload Source – Field Description

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

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



2.46 Upload Source Preference

You can configure upload source preference.

This section contains following subsections:

- 2.46.1 Upload Source Preference Summary
- 2.46.2 Upload Source Preference Maintenance

2.46.1 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:

- 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 94: View Upload Source Preference



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

Table 101: 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.
Modification Number	Displays the number of modifications performed on the record.

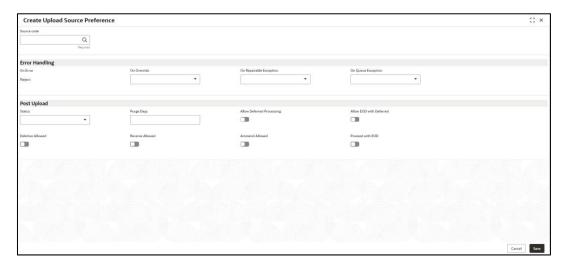
2.46.2 Upload Source Preference Maintenance

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



- From Home screen, click Core Maintenance. Under Core Maintenance, click Upload Source Preference.
- 2. Under Upload Source Preference, click Create Upload Source Preference.
 - → The Create Upload Source Preference screen is displayed.

Figure 95: Create Upload Source Preference



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

Table 102: Create Upload Source Preference – Field Description

Field	Description
Source Code	Search and select the required source code.
Error Handling	Specify the error handling details.
On Error	Select an error from the drop-down list.
On Override	Select an override from the drop-down list.
On Repairable Exception	Select the repairable exception from the drop-down list.
On Queue Exception	Select the queue exception from the drop-down list.
Post Upload	Specify the post upload details.
Status	Select a status from the dropdown list.
Purge Days	Specify the purging days if you want to maintain any days to be purged while processing interface.



Field	Description
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 Bureau Integration Service

3.1 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.
 - 5. The routing hub transforms the data and forwards the request to the bureau integration service.
 - 6. 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.
 - 7. Bureaus to be called are identified based on evaluation of the rules.
 - 8. The integration service then sends the request to the routing hub, which transforms the data and sends the request to the respective credit bureaus.
 - 9. The bureau processes the request and sends the credit report back.
 - 10. The routing hub receives the report and transforms the report as per the defined template and sends it back to bureau integration service.
 - 11. 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:

Bureau Integration Service Integration Product Credit Bureau Rule Engine Processor Input Application Oracle Oracle Banking Facts Banking Applicant Data System Routing Routing Hub Hub Rules Credit Credit Bure Request Data

Figure 96: Bureau Integration Service

Authorization process

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

- 1. Navigate to the required screen.
- 2. Click **Authorize**. The record pending for authorization are displayed.
 - 12. Select the required record and click Approve.



- 13. 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.
- 14. Specify remarks for approving the record in the **Remarks** field.
- 15. Click **Confirm** and authorize the record.

The record is authorized successfully.



3.2 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.

This section contains the following subsections:

- 3.2.1 Create System Parameter
- 3.2.2 View System Parameter

3.2.1 Create System Parameter

The **Create System Parameter** screen allows the user to create system parameter by updating various details.

- 1. On Homescreen, click Core Maintenance, under Core Maintenance, click Credit Bureau.
- 2. Under Credit Bureau, click Maintenance, under Maintenance, click System Parameter, under System Parameter, click Create System Parameter.
 - → The Create System Parameter screen displays.

Figure 97 : Create System Parameter



3. Specify the fields on Create System Parameter screen.

The fields, which are mentioned as required, are mandatory. For more information on fields, refer to the field description table below.

Table 103: 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.



Field	Description
Product Processor	Select the product processor from the drop-down list for which the parameter is being created.
Value	Specify the value for the parameter code.

4. Click Save to save the details.

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

3.2.2 View System Parameter

The **View System Parameter** screen allows the user to view the system parameter created using the **Create System Parameter** screen. The status of the created system parameter is displayed as **Unauthorized** and **Open**. Once the checker authorizes the parameter, the status is updated to **Authorized** and **Open**.

- 1. On Homescreen, click Core Maintenance, under Core Maintenance, click Credit Bureau.
- 2. Under Credit Bureau, click Maintenance, under Maintenance, click System Parameter, under System Parameter, click View System Parameter.
 - → The View System Parameter screen displays.

Figure 98 : View System Parameter



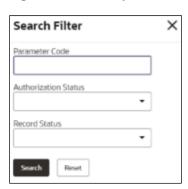
Table 104: View System Parameter - Field Description

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.
Status	Displays the status of the record.
Modification Number	Displays the number of modifications performed on the record.



- 3. On **View System Parameter** screen, click icon.
 - → The View System Parameter Search displays.

Figure 99 : View System Parameter - Search



4. On **View System Parameter – Search** screen, Specify the **Search Filter** to fetch the required parameter.

Table 105: View System Parameter - Search Filter - Field Description.

Field	Description
Parameter Code	Specify the parameter code.
Authorization Status	Select the authorization status of the criteria.
	The options are:
	Authorized
	Rejected
	Unauthorized
Record Status	Select the record status of the criteria.
	The options are:
	Open
	Closed

- 5. Click **Search** to display the required system parameter.
- 6. On View System Parameter screen, click icon to Unlock, Delete, Authorize, or View the created parameter code.
- 7. Click **Unlock** to modify the created parameter code.
 - → The **System Parameter Maintenance** screen displays.



Figure 100 : System Parameter Maintenance - Modify



Table 106: System Parameter Maintenance - Modify - Field Description.

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 created parameter.

- 8. Click **Save** to update the modified fields.
- 9. Click View to view the created parameter code.
 - → The System Parameter Maintenance View screen displays.

Figure 101 : System Parameter Maintenance - View



Table 107: 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.



3.3 Lookup

Lookup is 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.
 - 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.

This section contains the following subsections:

- 3.3.1 Create Lookup
- 3.3.2 View Lookup

3.3.1 Create Lookup

The **Create Lookup** screen allows the user to create lookup definitions by updating various details.

- 1. On Homescreen, click Core maintenance, under Core Maintenance, click Credit Bureau.
- Under Credit Bureau, click Maintenance, under Maintenance, click Lookup, under Lookup, click Create Lookup.
 - → The Create Lookup screen displays.

Figure 102: Create Lookup



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

The fields, which are mentioned as required, are mandatory. For more information on fields, refer the field description table.



Table 108: Create Lookup - Field Description

Field	Description
Lookup Type	Specify the unique lookup type name.
Description	Specify the short description for lookup.
+ button	Click to add a new row.
- button	Click to delete an existing row.
Lookup Code	Specify the unique lookup code.
Description	Specify the short description for lookup.
Sort Order	Specify the sort Order.
Dependent Identifier	Specify the dependent Identifier.
Enable	Click the toggle status to enable the parameter.

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

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



3.3.2 View Lookup

The **View Lookup** screen allows user to 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**.

- 1. On Homescreen, click Core Maintenance, under Core Maintenance, click Credit Bureau.
- Under Credit Bureau, click Maintenance, under Maintenance, click Lookup, under Lookup, click View Lookup.
 - → The View Lookup screen displays.

Figure 103: View Lookup



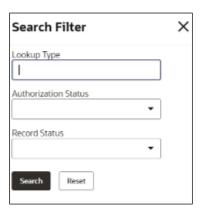
Table 109 View Lookup - Field Description

Field	Description
Lookup Type	Displays the lookup type.
Description	Displays the description of the lookup.
Status	Displays the status of the record.
Modification Number	Displays the number of modifications performed on the record.

- 3. On **View Lookup** screen, click icor
 - → The View Lookup Search screen displays.



Figure 104 : View Lookup - Search



4. On View Lookup - Search screen, Specify the Search Filter to fetch the required lookup.

Table 110: View Lookup - Search Filter - Field Description

Field	Description
Lookup Type	Displays the lookup type.
Authorization Status	Select the authorization status of the lookup.
	The options are:
	Authorized
	Rejected
	Unauthorized
Record Status	Select the record status of the lookup.
	The options are:
	Open
	Closed

- 5. Click **Search** to display the required lookup.
- 6. On View Lookup screen, click icon to Unlock, Delete, Authorize, or View the created lookup.
- 7. Click **Unlock** to modify the created lookup code.
 - → The Lookup Maintenance Modify screen displays.



Figure 105: Lookup Maintenance - Modify



Table 111: Lookup Maintenance - Modify - Field Description.

Field	Description
Basic Details	
Lookup Type	Displays the lookup type.
Description	Displays the description of the lookup.
Lookup Codes	
+ button	Click to add a new row.
- button	Click to delete an existing row.
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.

- 8. Click **Save** to update the modified fields.
- 9. Click View to view the created lookup code.
 - → The **Lookup Maintenance View** screen displays.



Figure 106: Lookup Maintenance - View



Table 112: Lookup Maintenance - View - Field Description.

Field	Description	
Basic Details		
Lookup Type	Displays the created lookup type.	
Description	Displays the description for the created lookup.	
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.	

3.4 Product Processor

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

This section contains the following subsections:

- 3.4.1 Create Product Processor
- 3.4.2 View Product Processor



3.4.1 Create Product Processor

The **Create Product Processor** screen allows the user to create product processor by updating various details.

- 1. On Homescreen, click Core Maintenance, under Core Maintenance, click Credit Bureau.
- Under Credit Bureau, click Maintenance, under Maintenance, click Product Processor, under Product Processor, click Create Product Processor.
 - → The Create Product Processor screen displays.

Figure 107 : Create Product Processor



3. Specify the fields on Create Product Processor screen.

The fields, which are mentioned as required, are mandatory. For more information on fields, refer to the field description table below.

Table 113: Create Product Processor - Field Description

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

4. Click Save to save the details.

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

3.4.2 View Product Processor

The **View Product Processor** screen allows the user to 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**.



- 1. On Homescreen, click Core Maintenance, under Core Maintenance, click Credit Bureau.
- 2. Under Credit Bureau, click Maintenance, under Maintenance, click Product Processor, under Product Processor, click View Product Processor.
 - → The View Product Processor screen displays.

Figure 108: View Product Processor

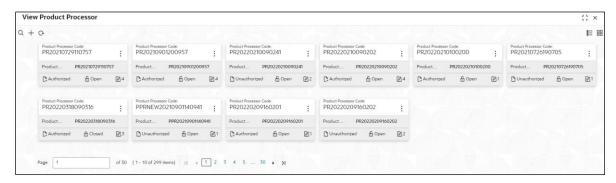
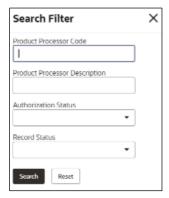


Table 114: View Product Processor - Field Description

Field	Description
Product Processor Code	Displays the product processor code.
Product Processor Description	Displays the product processor description.
Status	Displays the status of the record.
Modification Number	Displays the number of modifications performed on the record.

- 3. On View Product Processor screen, click
 - → The View Product Processor Search screen displays.

Figure 109: View Product Processor - Search



4. On **View Product Processor – Search** screen, Specify the **Search Filter** to fetch the required product processor.



Table 115 : View Product Processor - Search Filter - Field Description

Field	Description
Product Processor Code	Specify the product processor code.
Product Processor Description	Specify the product processor description.
Authorization Status	Select the authorization status of the product processor. The options are:
	AuthorizedRejected
	Unauthorized
Record Status	Select the record status of the product processor.
	The options are:
	• Open
	Closed

- 5. Click **Search** to display the required product processor.
- 6. On View Product Processor screen, click icon to Unlock, Delete, Authorize, or View the created product processor.
- 7. Click **Unlock** to modify the created product processor.
 - → The Product Processor Maintenance Modify screen displays.

Figure 110 : Product Processor Maintenance – Modify



Table 116: Product Processor Maintenance - Modify - Field Description

Field	Description
Basic Details	
Product Processor Code	Displays the product processor code.



Field	Description	
Product Processor Description Displays the product processor description.		
Description	User can modify the same.	
Effective Date	Displays the effective date of created product processor.	
	User can modify the same before authorization if it is future dated.	
Expiry Date	Displays the expiry date of created product processor.	
	User can modify the same.	

- 8. Click **Save** to update the modified fields.
- 9. Click View to view the created product processor.
 - → The Product Processor Maintenance View screen displays.

Figure 111 : Product Processor Maintenance - View



Table 117: Product Processor Maintenance - View - Field Description

Field	Description	
Basic Details		
Product Processor Code	Displays the product processor code.	
Product Processor Description	Displays the product processor description.	
Effective Date	Displays the effective date of the created product processor.	
Expiry Date	Displays the expiry date of the created product processor.	

3.5 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.

This section contains the following subsections:

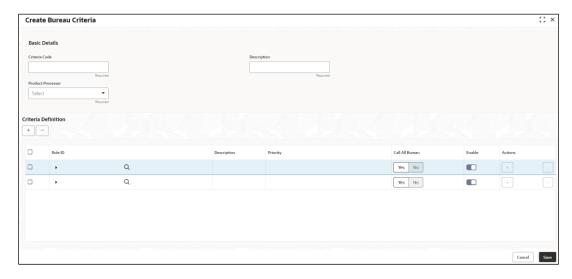
- 3.5.1 Create Bureau Criteria
- 3.5.2 View Bureau Criteria

3.5.1 Create Bureau Criteria

The **Create Bureau Criteria** screen allows the user to create bureau criteria by updating various details.

- 1. On Homescreen, click Core Maintenance, under Core Maintenance, click Credit Bureau.
- Under Credit Bureau, click Maintenance, under Maintenance, click Criteria, under Bureau
 Criteria, click Create Bureau Criteria.
 - → The Create Bureau Criteria screen displays.

Figure 112 : Create Bureau Criteria



3. Specify the fields on Create Bureau Criteria screen.

The fields, which are mentioned as required, are mandatory. For more information on fields, refer to the field description table.



Table 118: Create Bureau Criteria - Field Description.

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.	
+ button	Click to add a new row.	
- button	Click to delete an existing row.	
Rule ID	Specify the rule ID.	
6	Click 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	
+ button	Click this icon to add a new row.	
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 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.	

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

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



3.5.2 View Bureau Criteria

The View Bureau Criteria screen allows the user to 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 criteria, the status is updated to Authorized and Open.

- 1. On Homescreen, click Core Maintenance, under Core Maintenance, click Credit Bureau.
- 2. Under Credit Bureau, click Maintenance, under Maintenance, click Criteria, under Criteria, click View Bureau Criteria.
 - → The View Bureau Criteria screen displays.

Figure 113 : View Bureau Criteria



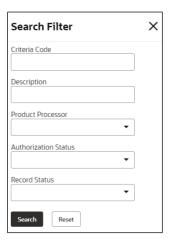
Table 119: View Bureau Criteria - Field Description.

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.	
Modification Number	Displays the number of modifications performed on the record.	

- 3. On **View Criteria** screen, click
 - → The View Criteria Search screen displays.



Figure 114 : View Criteria - Search



4. On View Criteria - Search screen, Specify the Search Filter to fetch the required criteria.

Table 120: View Criteria - Search Filter - Field Description.

Field	Description	
Criteria Code	Specify the criteria code.	
Description	Specify the criteria description.	
Product Processor	Select the product processor from the drop-down list.	
Authorization Status	Select the authorization status of the criteria.	
	The available options are:	
	Authorized	
	Rejected	
	Unauthorized	
Record Status	Select the record status from the drop-down list.	
	The available options are:	
	• Open	
	Closed	

- 5. Click **Search** to display the required bureau criteria.
- 6. On View Bureau Criteria screen, click icon to Unlock, Delete, Authorize, or View the created criteria.
- 7. Click **Unlock** to modify the created criteria.
 - → The Bureau Criteria Maintenance Modify screen displays.



Figure 115: Bureau Criteria Maintenance - Modify

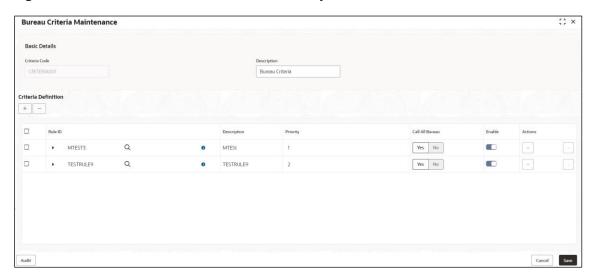


Table 121: Bureau Criteria Maintenance - Modify - Field Description.

Field	Description	
Basic Details		
Criteria Code	Displays the created criteria code.	
Description	Displays the description for the created criteria code.	
Product Processor	Displays the product processor for which the criteria being created.	
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. Click Save to update the modified fields.
- 9. Click View to view the created criteria code.
 - → The Bureau Criteria Maintenance View screen displays.



Figure 116 : Bureau Criteria Maintenance - View

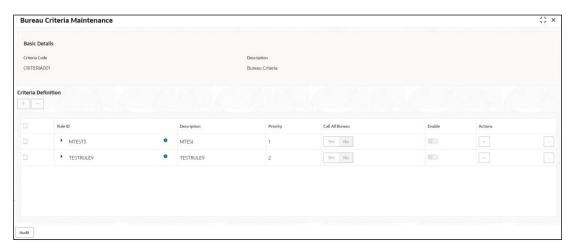


Table 122: Bureau Criteria Maintenance- View - Field Description.

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.	

3.6 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.

This section contains the following subsection:

• 3.6.1 View Credit Bureau Report



3.6.1 View Credit Bureau Report

The **Credit Bureau Display** screen allows the user to view the credit bureau report based on the various filter options provided.

- 1. On Homescreen, click Credit Bureau, under Credit Bureau, click Operations.
- 2. Under Operations, click Credit Bureau Display.
 - → The Credit Bureau Display screen displays.

Figure 117 : Credit Bureau Display



3. Specify the fields on Credit Bureau Display screen.

The fields, which are mentioned as required, are mandatory. For more information on fields, refer to the field description table below.

Table 123: Credit Bureau Display- Field Description

Field	Description	
Filter	Select the required option based on which you can search for the credit bureau reports from the drop-down list.	
	The options are:	
	External Reference Number	
	Inquiry ID	
	Inquiry Date	
	Bureau Name	
	Product Processor	
	Application Number	
	Bureau Report ID	
Value	Specify the required details or select the appropriate option for the selected filter option.	
	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 the user selects the filter option as Inquiry Date and value as Date Range .	



Field	Description
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** screen, specify the details and click **Search**.
 - → The Credit Bureau Display Report History screen displays showing a list of records based on the specified search criteria.

Figure 118 : Credit Bureau Display - Report History



Table 124: Credit Bureau Display - Field Description

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

- 5. Click the arrow icon to view the corresponding list of reports.
 - → The Credit Bureau Display View List of Report screen displays.



Figure 119: Credit Bureau Display - View List of Report

of 2 (1-5 of 7 items) | (4 1 2 > >)

Table 125: 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.	



Field	Description
The Following fields appear if you click	
Product	Displays the product of the credit bureau agency.
View	Click View to view the credit bureau report.

- 6. Click the View link to view the credit bureau report.
 - → The Credit Bureau Report displays.

Figure 120 : Credit Bureau Report



Table 126: Create Bureau Report - Field Description

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

3.7 Integrating Bureau Integration Service with Oracle Banking Routing Hub

3.7.1 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.

- 7. On Homescreen, click Core Maintenance, under Core Maintenance, click Routing Hub.
- 8. Under Routing Hub, click Service Consumers.
 - → The **Service Consumers** screen displays.

Figure 121: Service Consumers



Figure 122: Oracle Banking Routing Hub Configuration





Table 127: 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

This section contains the following subsections:

- 3.7.1.1 Add
- 3.7.1.2 Environment Variables
- 3.7.1.3 Import
- 3.7.1.4 View
- 3.7.1.5 Edit
- 3.7.1.6 Delete
- 3.7.1.7 JSON Export
- 3.7.1.8 SQL Export



3.7.1.1 Add

User can create service consumer manually.

On Service Consumers screen, click Add to create service consumer.

Figure 123: Add

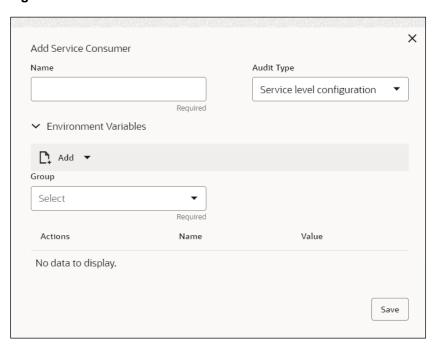


Table 128: Add

Component Name	Component Type	Is 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



3.7.1.2 Environment Variables

User 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 124: Environment Variables

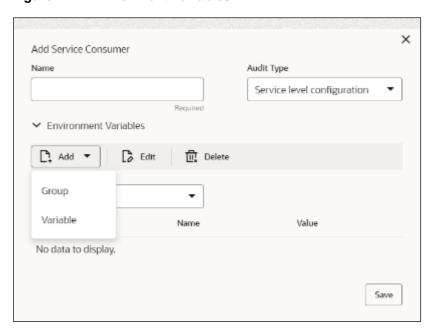


Figure 125: Environment Variables





Figure 126: Environment Variables

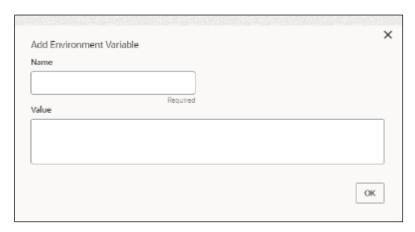


Table 129: Environment Variables

Component Name	Component Type	Is Mandatory	Data type	Validation	Comments
Add	Menu Item				
Group	Menu option				Pops up add group dialog
Variable	Menu option				Pops up add variable dialog
Navigation: Se	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				
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



3.7.1.3 Import

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

On Service Consumers screen, click Import.

Figure 127: Import

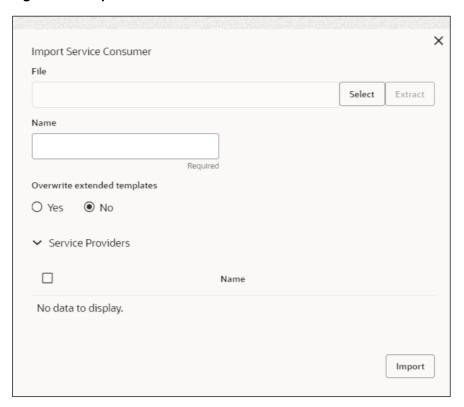


Table 130: Import

Compone nt Name	Compone nt Type	Is Mandator y	Data type	Validation	Conditio n	Comment
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.



Compone nt Name	Compone nt Type	Is Mandator y	Data type	Validation	Conditio n	Comment s
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 	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:

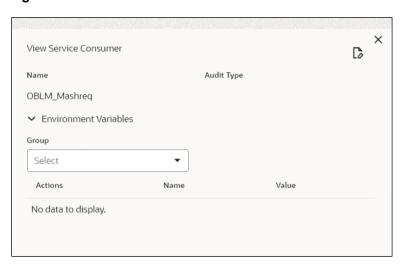
- Implementation Host and Port
- Implementation Authentication Password



3.7.1.4 View

User can view consumer details and can also switch to edit form by clicking on edit icon. On **Service Consumers** screen, click **Operation Menu (3 dot icon)**, and select **View.**

Figure 128: View

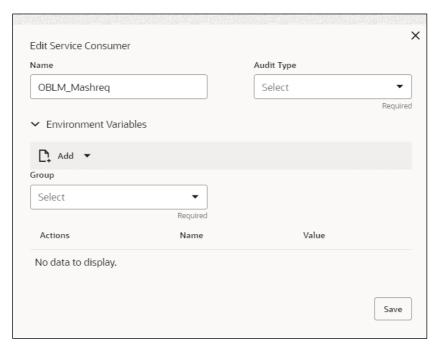


3.7.1.5 Edit

User can modify the consumer details.

On Service Consumers screen, click Operation Menu (3 dot icon), and select Edit.

Figure 129: Edit





3.7.1.6 Delete

User can delete the consumer.

On Service Consumers screen, click Operation Menu (3 dot icon), and select Delete.

Figure 130: Delete



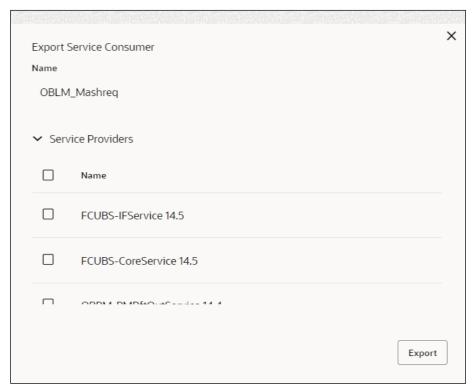
3.7.1.7 JSON Export

User can export the consumer configuration as JSON file.

On Service Consumers screen, click Operation Menu (3 dot icon), and select Export

Then, Click JSON.

Figure 131: JSON 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

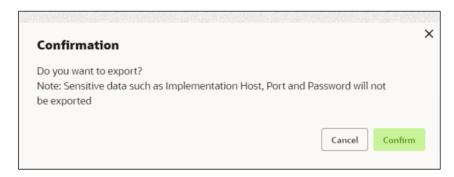
3.7.1.8 SQL Export

User can export the consumer configuration as SQL file.

On Service Consumers screen, click Operation Menu (3 dot icon), and select Export

Then, Click SQL.

Figure 132: SQL Export



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



3.7.2 Service Providers

Service Providers are the product processors configure to process request send by oracle banking routing hub on behalf of service consumers.

The Service Provider comprises of destination integration details.

- 1. On Home screen, click Core Maintenance, under Core Maintenance, click Routing Hub.
- 2. Under Routing Hub, click Service Consumers, under Service Consumers, click < Specific Service Consumer.
 - → The **Service Providers** screen displays.

Figure 133: Service Providers



Figure 134: Service Providers



Table 131: 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	s -> 3 dot icon	(onerati	on menu)		Provides search functionality with case insensitive (Service Provider Name)
navigation. Se	rvice Providers	s -> 3 dot icon	(operati	on menu)	<u> </u>	
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

This section contains the following subsections:

- 3.7.2.1 Add
- 3.7.2.2 Headers
- 3.7.2.3 Service
- 3.7.2.4 WSDL
- 3.7.2.5 SWAGGER
- 3.7.2.6 Import
- 3.7.2.7 View
- 3.7.2.8 Edit
- 3.7.2.9 Delete
- 3.7.2.10 Export



3.7.2.1 Add

User can create service provider manually.

On **Service Providers** screen, click **Add** to create service providers.

Figure 135: Add

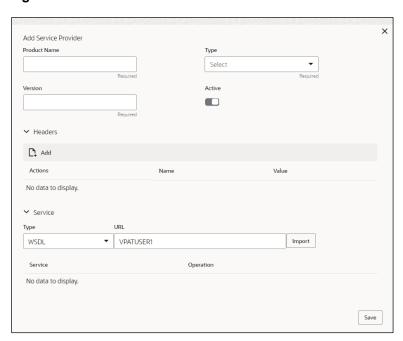


Table 132: Add

Component Name	Component Type	Is 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



3.7.2.2 Headers

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

User can specify the headers which are required by service endpoints for its all implementations but not present in swagger file.

These headers can be configured in oracle banking routing hub using the steps given below.

Figure 136: Headers



Figure 137: Headers

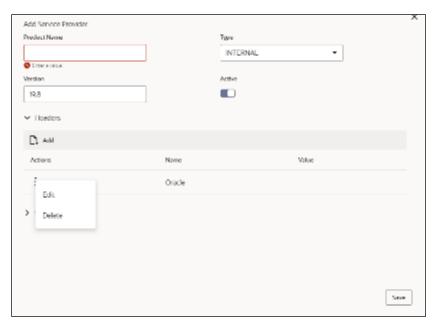


Table 133: Headers

Compone nt Name	Compone nt Type	Is Mandator y	Data type	Validation	Conditio n	Comment s
Add	Button					Pops up add dialog
Navigation: Service Providers -> Headers -> 3 dot icon (operation menu)						



Compone nt Name	Compone nt Type	Is Mandator y	Data type	Validation	Conditio n	Comment s
Edit	menu option					Pops up edit dialog
Delete	menu option					Deletes header
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



3.7.2.3 Service

Figure 138: Service

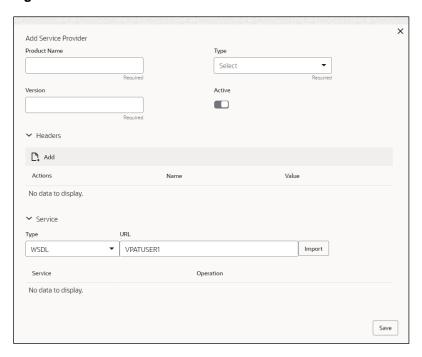


Table 134: Service

Component Name	Component Type	Is 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

3.7.2.4 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.



3.7.2.5 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.

3.7.2.6 Import

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

On Service Providers screen, click Import.

Figure 139: Import



Table 135: Import

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

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

- Implementation Host and Port
- Implementation Authentication Password



3.7.2.7 View

User can view provider details and can also switch to edit form by clicking on edit icon. On **Service Providers** screen, click **Operation Menu (3 dot icon)**, and click **View.**

Figure 140: View Service Provider



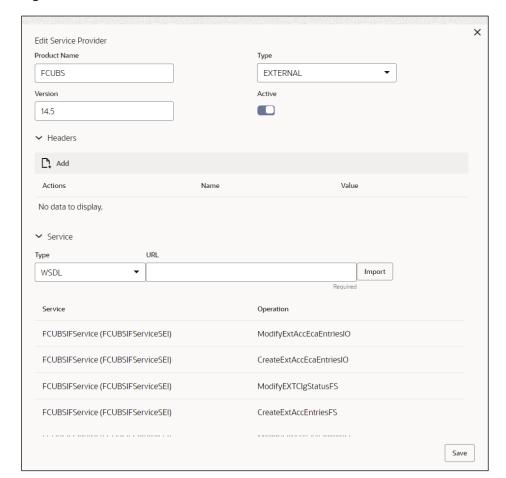
3.7.2.8 Edit

User can modify the provider details.

On Service Providers screen, click Operation Menu (3 dot icon), and click Edit.



Figure 141: Edit



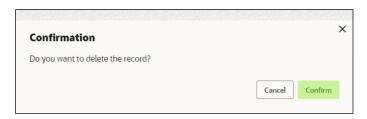


3.7.2.9 Delete

User can delete the provider.

On Service Providers screen, click Operation Menu (3 dot icon), and click Delete.

Figure 142: Delete



3.7.2.10 Export

User can export the provider configuration as JSON file.

On Service Providers screen, click Operation Menu (3 dot icon), and click Export.

Figure 143: Export



NOTE: Below data is not be exported:

- Implementation Host
- Implementation Port
- Implementation Authentication Password

The above data needs to be configured manually after importing the configuration file.

Same has been mentioned in Import section



3.7.3 Experian Configuration

3.7.3.1 Experian Fetch Credit Report

Figure 144: Experian Fetch Credit Report



Figure 145: Experian Fetch Credit Report

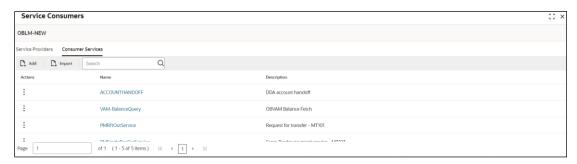




3.7.3.2 Experian Sandbox

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

Figure 146: Experian Sandbox



3.7.4 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.

3.7.4.1 Equifax Fetch Credit Report

Figure 147: Equifax Fetch Credit Report

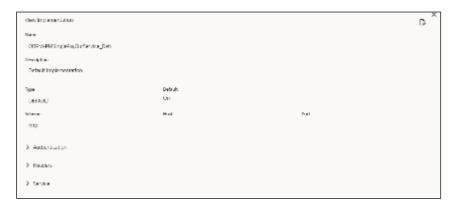


3.7.4.2 Equifax Sandbox

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



Figure 148: Equifax Sandbox



3.7.5 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.

3.7.5.1 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.

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

3.7.6 Troubleshooting

3.7.6.1 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.

3.7.6.2 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

3.7.6.3 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]



4 Decision Service

4.1 Overview

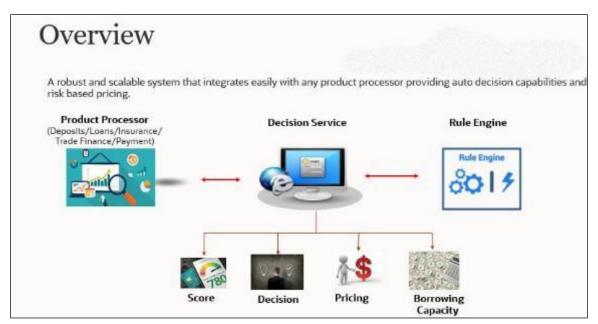
The decision service provides automatic decision-making capabilities that can allow lenders to develop simple business processes and strengthen the decision-making process.

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 149: 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.

4.2 Process Flow

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



Process Flow

Step 1: Fetch
Questionnaire

Qualitative
Scoring Model

Borrowing
Capacity
Scoring
Capacity

Step 2:
Execution

Logical Model Qualitative Scoring

Decision

Pricing

Figure 150: Decision Service Process Flow

4.2.1.1 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.

4.2.1.2 Validation Model

First step in execution of the credit decision is validation screening. In this application prescreening is done to check the basic eligibility of the application as per the bank's policy. For example, if the bank's policy is not to fund to property in flood prone area, then as a part of this step, if the property is in flood prone area, then the application will be rejected and the application will not be processed further. Or the 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.

4.2.1.3 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.



4.2.1.4 Qualitative Score

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

4.2.1.5 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.

4.2.1.6 Decision and Grade

The decision on the application is done based on the quantitative and qualitative scores. The decision can be approved, 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.

4.2.1.7 **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.

4.2.1.8 Strategy Configuration

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

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

- Score, Decision, and Pricing
- Score and Decision
- Scores



- Pricing and Borrowing Capacity
- Pricing
- Borrowing Capacity
- Decision
- Qualitative Score
- Quantitative Score



4.3 System Parameter

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

Example:

- qualitativeScore
- quantitativeScore
- applicant_score
- Requested Amount
- CDS GRADE

The fact associated to these system parameters are used programmatically and added in the pool of facts. To define the system parameters, the keys of the system parameters have to be defined in a lookup called SYSPARAM.

This section contains the following subsections:

- 4.3.1 Create System Parameter
- 4.3.2 View System Parameter

4.3.1 Create System Parameter

The **Create System Parameter** screen allows the user to create parameters by updating various details.

- 1. On Homescreen, click Core Maintenance, under Core Maintenance, click Credit Decision.
- 2. Under Credit Decision, click Maintenance, under Maintenance, click System Parameter, under System Parameter, click Create System Parameter.
 - → The Create System Parameter screen displays.

Figure 151: Create System Parameter



3. Specify the fields on Create System Parameter screen.

The fields, which are marked as required, are mandatory. For more information on fields, refer to the field description table below.



Table 136 : Create 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.
Parameter Description	Specify a short description for the parameter code.
Value	Specify the value for the parameter code.

4. Click Save to save the details.

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

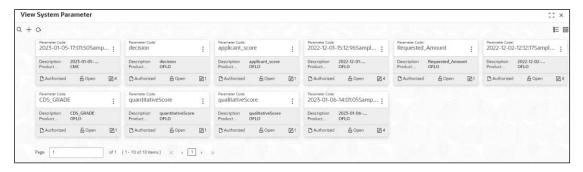


4.3.2 View System Parameter

The View System Parameter screen allows user to view the parameters created using the **Create System Parameter** screen. The status of the created system parameter is displayed as **Unauthorized** and **Open**. Once the checker authorizes the parameter, the status is updated to **Authorized** and **Open**. **Open**.

- 1. On Homescreen, click Core Maintenance, under Core Maintenance, click Credit Decision.
- 2. Under Credit Decision, click Maintenance, under Maintenance, click System Parameter, under System Parameter, click View System Parameter.
 - → The View System Parameter screen displays.

Figure 152: View System Parameter



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

Table 137: 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.
Status	Displays the status of the record.
Modification Number	Displays the number of modifications performed on the record.

- 3. On View System Parameter screen, click
 - → The View System Parameter Search screen displays.



Figure 153: View System Parameter - Search



4. On **View System Parameter – Search** screen, Specify the **Search Filter** to fetch the required system parameter.

Table 138 : View System Parameter - Search Filter - Field Description

Field	Description	
Parameter Code	Specify the parameter code.	
Authorization	Select the authorisation status of the parameters.	
Status	The options are:	
	Authorized	
	Rejected	
	Unauthorized	
Record Status	Select the record status of the parameters.	
	The options are:	
	Open	
	Closed	

- 5. Click **Search** to display the required system parameter.
- 6. On View System Parameter screen, click icon to Unlock, Delete, Authorize, or View the created system parameter.
- 7. Click **Unlock** to modify the created system parameter.
 - → The **System Parameter Maintenance Modify** screen displays.



Figure 154 : System Parameter Maintenance - Modify



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

Table 139: System Parameter Maintenance - Modify - Field Description

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

- 8. Click **Save** to update the modified fields.
- 9. Click **View** to view the created system parameter.
 - → The System Parameter Maintenance View screen displays.

Figure 155 : System Parameter Maintenance - View



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

Table 140 : System Parameter Maintenance - View - Field Description

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



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



4.4 Lookup

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
 - o Decision: Like Approve, Decline, Manual.
 - Color like red, green etc. Color is used to highlight the decision i.e. Approve to be highlighted in Green, Reject can be highlighted in Red. The color and decision combination is configurable
 - o Grade like A, B, C etc.
 - Strategy Configuration Code
 - ScoringModelType,
 - ExecutionSteps,
 - ExecutionModes.
 - BWCExecStage,
 - QuestionType,
 - QuestionSubType
- Dependent lookups based on another selection
 - Pricing lookup Based on decision, Pricing should have different behavior based on decision.

This section contains the following subsections:

- 4.4.1 Create Lookup
- 4.4.2 View Lookup

4.4.1 Create Lookup

The Create Lookup screen allows the user to create lookup definitions by updating various details.

- 1. On Homescreen, click Core Maintenance, under Core Maintenance, click Credit Decision.
- Under Credit Decision, click Maintenance, under Maintenance, click Lookup, under Lookup, click Create Lookup.
 - → The Create Lookup screen displays.



Figure 156 : Create Lookup Screen



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

The fields, which are mentioned as required, are mandatory. For more information on fields, refer to the field description table below.

Table 141: Create Lookups - Field Description

Field	Description	
Basic Details	Basic Details	
Lookup Type	Specify the unique lookup type name.	
Description	Specify the short description for lookup.	
+ button	Click to add a new row.	
- button	Click to delete an existing row.	
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 to save the details.

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



4.4.2 View Lookup

The **View Lookup** screen allows the user to 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**.

- 1. On Homescreen, click Core Maintenance, under Core Maintenance, click Credit Decision.
- 2. Under Credit Decision, click Maintenance, under Maintenance, click Lookup, under Lookup, click View Lookup.
 - → The View Lookup screen displays.

Figure 157: View Lookup



Table 142: View Product Processor - Field Description

Field	Description
Lookup Type	Displays the lookup type.
Description	Displays the description of the lookup.
Status	Displays the status of the record.
Modification Number	Displays the number of modifications performed on the record.

- 3. On **View Lookup** screen, click
 - → The View Lookup Search screen displays



Figure 158 : View Lookup - Search



4. On View Lookup - Search screen, Specify the Search Filter to fetch the required lookup.

Table 143: View Lookups - Search Filter - Field Description

Field	Description
Lookup Type	Displays the lookup type.
Authorization	Select the authorization status of the lookups.
Status	The options are:
	Authorized
	Rejected
	Unauthorized
Record Status	Select the record status of the lookups.
	The options are:
	Open
	Closed

- 5. Click **Search** to display the required lookup.
- 6. On View Lookup screen, click icon to Unlock, Delete, Authorize, or View the created lookup.
- 7. Click **Unlock icon** to modify the created lookup.
 - → The Lookup Maintenance Modify screen displays.



Figure 159: Lookup Maintenance - Modify



Table 144: Lookup Maintenance - Modify - Field Description

Field	Description
Basic Details	
Lookup Type	Displays the created lookup type.
Description	Displays the description of the created lookup.
	User can modify the same.
Lookup Codes	
+ button	Click to add a new row.
- button	Click to delete an existing row.
Lookup Code	Displays the lookup code for the created lookups.
	User can modify the same.
Description	Displays the description for the created lookups.
	User can modify the same.
Sort Order	Displays the sort order for the created lookups.
	User can modify the same.
Dependent Identifier	Displays the dependent identifier for the created lookups.
ideittilei	User can modify the same.
Enable	Displays the lookup code if enabled for the created lookup.
	User can modify the same.

- 8. Click **Save** to update the modified fields.
- 9. Click View to view the created lookup code.
 - → The Lookup Maintenance View screen displays.



Figure 160: Lookup Maintenance - View



Table 145: Lookup Maintenance - View - Field Description

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.	

4.5 Product Processor

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

This section contains the following subsections:

- 4.5.1 Create Product Processor
- 4.5.2 View Product Processor

4.5.1 Create Product Processor

The **Create Product Processor** screen allows the user to create product processor by updating various details.



- 1. On Homescreen, click Core Maintenance, under Core Maintenance, click Credit Decision.
- 2. Under Credit Decision, click Maintenance, under Maintenance, click Product Processor, under Product Processor, click Create Product Processor.
 - → The Create Product Processor screen displays.

Figure 161: Create Product Processor



Specify the fields on Create Product Processor screen.

The fields, which are mentioned as required, are mandatory. For more information on fields, refer to the field description table below.

Table 146: Create Product Processor - Field Description

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

4. Click Save to save the details.

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

4.5.2 View Product Processor

The **View Product Processor** screen allows the user to 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**.



- 1. On Homescreen, click Core Maintenance, under Core Maintenance, click Credit Decision.
- 2. Under Credit Decision, click Maintenance, under Maintenance, click Product Processor, under Product Processor, click View Product Processor.
 - → The View Product Processor screen displays.

Figure 162: View Product Processor



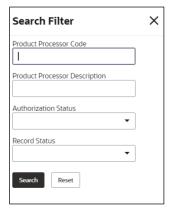
Table 147: View Product Processor - Field Description

Field	Description
Product Processor Code	Displays the product processor code.
Product Processor Description	Displays the product processor description.
Status	Displays the status of the record.
Modification Number	Displays the number of modifications performed on the record.

icon.

- 3. On View Product Processor screen, click
 - → The View Product Processor Search screen displays.

Figure 163: View Product Processor - Search



4. On **View Product Processor – Search** screen, Specify the **Search Filter** to fetch the required product processor.



Table 148: View Product Processor- Search Filter - Field Description

Field	Description
Product Processor Code	Specify the product processor code.
Product Processor Description	Specify the product processor description.
Authorization Status	Select the authorization status of the product processor. The options are: • Authorized
	RejectedUnauthorized
Record Status	Select the record status of the product processor. The options are: Open Closed

- 5. Click **Search** to display the required product processor.
- 6. On View Product Processor screen, click icon to Unlock, Delete, Authorize, or View the created product processor.
- 7. Click **Unlock** to modify the created product processor.
 - → The **Product Processor Maintenance Modify** screen displays.

Figure 164: Product Processor Maintenance - Modify





Table 149: Product Processor Maintenance - Modify - Field Description

Field	Description
Basic Details	
Product Processor Code	Displays the product processor code.
Product Processor Description	Displays the product processor description. User can modify the same.
Effective Date	Displays the effective date of created product processor. User can modify the same before authorization if it is future dated.
Expiry Date	Displays the expiry date of created product processor. User can modify the same.

- 8. Click **Save** to update the modified fields.
- 9. Click **View** to view the created product processor.
 - → The **Product Processor Maintenance View** screen displays.

Figure 165: Product Processor Maintenance - View



Table 150: Product Processor Maintenance - View - Field Description

Field	Description
Basic Details	
Product Processor Code	Displays the product processor code.
Product Processor Description	Displays the product processor description.
Effective Date	Displays the effective date of the created product processor.
Expiry Date	Displays the expiry date of the created product processor.



4.6 Borrowing Capacity

Borrowing capacity describes the total amount the applicant is eligible to borrow. Maximum loan amount is used for loans, credit cards, and line of credit accounts. The maximum credit amount depends on several 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

This section contains the following subsections:

- 4.6.1 Create Borrowing Capacity
- 4.6.2 View Borrowing Capacity



4.6.1 Create Borrowing Capacity

The **Create Borrowing Capacity** screen allows the user to define the borrowing capacity based on the various input.

- 1. On Homescreen, click Core Maintenance, under Core Maintenance, click Credit Decision.
- 2. Under Credit Decision, click Maintenance, under Maintenance, click Borrowing Capacity, under Borrowing Capacity, click Create Borrowing Capacity.
 - → The Create Borrowing Capacity screen displays.

Figure 166: Create Borrowing Capacity



3. Specify the fields on **Create Borrowing Capacity** screen.

The fields, which are mentioned as required, are mandatory. For more information on fields, refer to the field description table below.

Table 151: Create Borrowing Capacity - Field Description

Field	Description
Basic Details	
Borrowing Capacity Code	Specify the unique borrowing code.
Borrowing Capacity Description	Specify a short description for the borrowing code.
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.



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.

- 4. Click the **Selection Criteria** tab to define selection criteria rules.
 - → The Create Borrowing Capacity Selection Criteria screen displays.

Figure 167: Create Borrowing Capacity - Selection Criteria

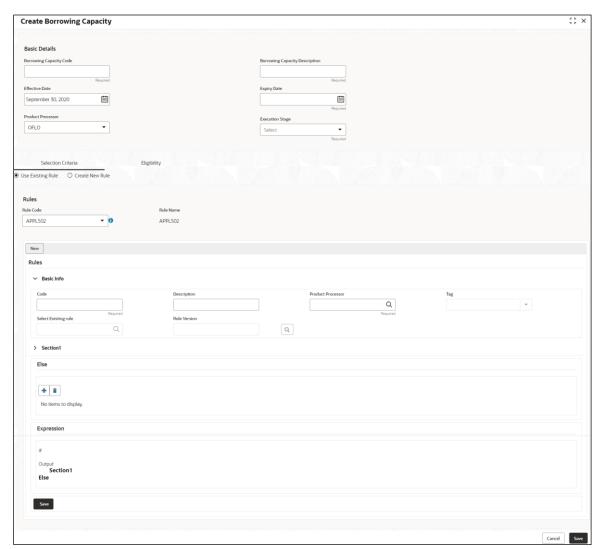




Table 152 : Create Borrowing Capacity - Selection Criteria - Field Description

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	Specify the rule code.		
Description	Specify the rule description.		
Select Existing Rule	Select existing rule from the drop-down list.		
Q	Click to view the existing rule.		
	Note: This is used when existing rule is to be used for some modification like copy of existing rule.		
Below fields appears of	Below fields appears once you click icon.		
Rule ID	Displays the rule ID.		
Rule Name	Displays the rule name.		
Description	Displays the rule description.		
Rule Version	Displays the rule version.		
Q	Click to view the rule version.		
	Note: This is used when existing rule is to be used for some modification like copy of existing rule.		
Below fields appears once you click icon.			
Version	Displays the rule version.		
Description	Displays the rule description.		



Field	Description
Creation Date	Displays the rule creation date.
Expression Builder	
+ Add Expression	Click 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 Matches Notmatches Notcontains Notin
Data Type	Select the data type for the fact or rule. Once you select the data type one more field opens adjacent to it, update the same based on the selected option. The options are:



Field	Description
Output	Select the output from the drop-down list. Once you select the output one more field opens adjacent to it, update the same based on the selected option.
	The options are:
	 Text Number Boolean Date Fact
	The below option appears if the Data Type is selected as Boolean .
	TrueFalse
Expression	View the expression updated in the expression builder.

- 5. Click the **Eligibility** tab to define eligibility.
 - → The Create Borrowing Capacity Eligibility screen displays.

Figure 168 : Create Borrowing Capacity - Eligibility



Table 153 : Create Borrowing Capacity - Eligibility - Field Description

Field	Description
The following fields appear if you click the Eligibility	
+ button	Click to add a new row.
- button	Click to delete an existing row.
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.



Field	Description
0	Click to get the information about the rule.

6. Click Save to save the details.

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



4.6.2 View Borrowing Capacity

The **View Borrowing Capacity** screen allows user to 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**.

- 1. On Homescreen, click Core Maintenance, under Core Maintenance, click Credit Decision.
- 2. Under Credit Decision, click Maintenance, under Maintenance, click Borrowing Capacity, under Borrowing Capacity, click View Borrowing Capacity.
 - → The View Borrowing Capacity screen displays.

Figure 169: View Borrowing Capacity



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

Table 154: View Borrowing Capacity - Field Description

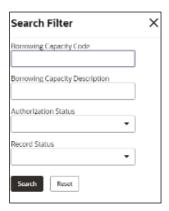
Field	Description
Borrowing Capacity Code	Displays the borrowing capacity code.
Borrowing Capacity Description	Displays the borrowing capacity description.
Product Processor	Displays the product processor.
Status	Displays the status of the record.
Modification Number	Displays the number of modifications performed on the record.



→ The View Borrowing Capacity - Search screen displays.



Figure 170: View Borrowing Capacity - Search



4. On **View Borrowing Capacity – Search** screen, Specify the **Search Filter** to fetch required borrowing capacity.

Table 155: View Borrowing Capacity - Search Filter - Field Description

Field	Description
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 borrowing capacity. The options are: • Authorized • Rejected • Unauthorized
Record Status	Select the record status of the borrowing capacity. The options are: Open Closed

- 5. Click **Search** to display the required borrowing capacity.
- 6. On View Borrowing Capacity screen, click icon to Unlock, Delete, Authorize, or View the created borrowing capacity.
- 7. Click **Unlock** to modify the created borrowing capacity.
 - → The Borrowing Capacity Maintenance Modify screen displays.



Borrowing Capacity Maintenance ;; × Basic Details BRC502 $\stackrel{\text{\tiny }}{=}$ Eligibility Selection Criteria Rules Rule Name BRC502 BRC502 Edit ✓ Basic Info -Q Q, + 🔒 No items to display Expression ((LoanTenure > 36) && (marketValue < 800000)) ((LoanTenur Output Section1 True Else

Figure 171: Borrowing Capacity Maintenance - Modify

Table 156: Borrowing Capacity Maintenance – Modify – Field Description.

Field	Description
Basic Details	
Borrowing Capacity Code	Displays the code for the created borrowing capacity.
Borrowing Capacity Description	Displays the description for the created borrowing capacity. User can modify the same.
Effective Date	Displays the effective date for the created borrowing capacity. User can modify the same if the date is future dated.
Expiry Date	Displays the expiry date for the created borrowing capacity. User can modify the same.



Field	Description
Product Processor	Displays the product processor of the created borrowing capacity.
Execution Stage	Displays 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 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
Select Existing Rule	Displays the existing rule.
Ruic	User can modify the same.
Version	Displays the rule version.
Expression Builder	
Fact / Rules	Displays the fact/rules of the created borrowing capacity.
Operator	Displays the comparison operator of the created borrowing capacity.
Data Type	Displays the data type for the fact or rule of the created borrowing capacity.
Output	Displays the output of the created borrowing capacity.
Expression	Displays the expression updated in the expression builder of the created borrowing capacity.
Eligibility	
Fact ID	Displays the fact ID of the created borrowing capacity.
	User can modify the same.
Rule ID	Displays the rule ID of the created borrowing capacity.
	User can modify the same.



Field	Description
6	Click to get the information about the rule.

- 8. Click **Save** to update the modified fields.
- 9. Click **View** to view the created borrowing capacity.
 - → The Borrowing Capacity Maintenance View screen displays.

Figure 172 : Borrowing Capacity Maintenance - View

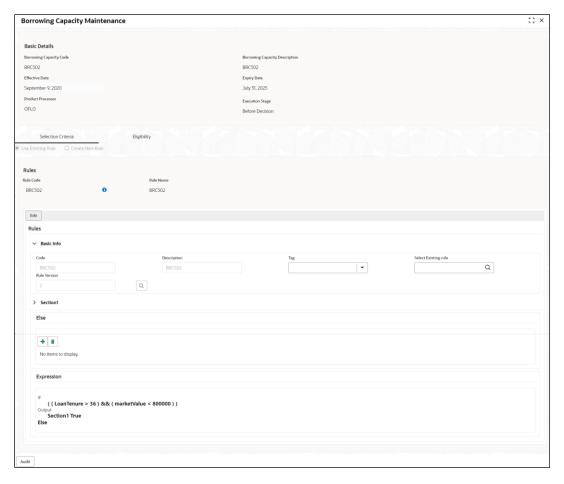


Table 157 : Borrowing Capacity Maintenance - View - Field Description.

Field	Description
Basic Details	
Borrowing Capacity Code	Displays the code for the created borrowing capacity.
Borrowing Capacity Description	Displays the description for the created borrowing capacity.



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



4.7 Strategy Configuration

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

This section contains the following subsections:

- 4.7.1 Create Strategy Configuration
- 4.7.2 View Strategy Configuration

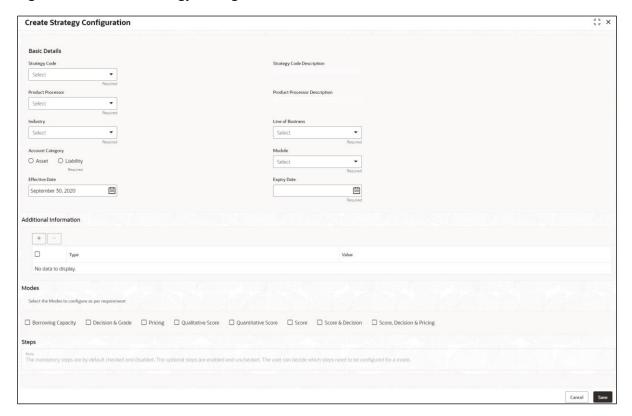
4.7.1 Create Strategy Configuration

The **Create Strategy Configuration** screen allows user to configure the strategy as per the requirement.

- 1. On Homescreen, click Core Maintenance, under Core Maintenance, click Credit Decision.
- 2. Under Credit Decision, click Maintenance, under Maintenance, click Strategy Configuration, under Strategy Configuration, click Create Strategy Configuration.
 - → The Create Strategy Configuration screen displays.



Figure 173: Create Strategy Configuration



3. Specify the fields on Create Strategy Configuration screen.

The fields, which are mentioned as required, are mandatory. For more information on fields, refer to the field description table below.

Table 158: Create Strategy Configuration - Field Description

Field	Description
Basic Details	
Strategy Code	Specify the unique strategy code.
Strategy Code Description	Displays the 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.



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	Select the category from the drop-down list.
	The options are:
	Asset
	Liability
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
+ button	Click to add a new fact.
- button	Click to delete an existing row.
Туре	Select the fact type from the drop-down list.



Field	Description
Value	Select the value configured for the fact type from the drop-down list. The values are configurable based on the lookup values maintained.
Modes	Select the modes from the 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.

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

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



4.7.2 View Strategy Configuration

The **View Strategy Configuration** screen allows the user to view the strategy configuration created using the **Create Strategy Configuration** screen. The status of the created strategy configuration is displayed as **Unauthorized** and **Open**. Once the checker authorizes the parameter, the status is updated to **Authorized** and **Open**.

- 1. On Homescreen, click Core Maintenance, under Core Maintenance, click Credit Decision.
- 2. Under Credit Decision, click Maintenance, under Maintenance, click Strategy Configuration, under Strategy Configuration, click View Strategy Configuration.
 - → The View Strategy Configuration screen displays.

Figure 174: View Strategy Configuration



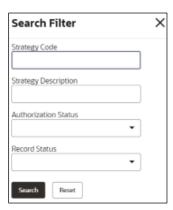
Table 159: View Strategy Configuration - Field Description

Field	Description
Strategy Code	Displays the strategy code.
Strategy Description	Displays the strategy description.
Product Processor	Displays the product processor.
Status	Displays the status of the record.
Modification Number	Displays the number of modifications performed on the record.

- 3. On View Strategy Configuration screen, Click
 - → The View Strategy Configuration Search screen displays.



Figure 175: View Strategy Configuration - Search



4. On **View Strategy Configuration – Search** screen, Specify the **Search Filter** to fetch the required strategy configuration.

Table 160 : View Strategy Configuration - Search Filter - Field Description

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

- 5. Click **Search** to display the required strategy configuration.
- 6. On View Strategy Configuration screen, click icon to Unlock, Delete, Authorize, or View the created strategy configuration.
- 7. Click **Unlock** to modify the created strategy configuration.
 - → The Strategy Configuration Maintenance Modify screen displays.



Figure 176 : Strategy Configuration Maintenance - Modify



Table 161: Strategy Configuration Maintenance - Modify - Field Description

Field	Description
Basic Details	
Strategy Code	Displays the strategy code.
Strategy Code Description	Displays the strategy code description.
Product Processor	Displays the product processor for the created strategy configuration.
Product Processor Description	Displays the product processor description for the created strategy configuration.
Industry	Displays the industry for the created strategy configuration.
Line of Business	Displays the line of business for the created strategy configuration.
Account Category	Displays the account category for the created strategy configuration.
Module	Displays the module for the created strategy configuration.
Effective Date	Displays the effective date for the created strategy configuration.
Expiry Date	Displays the expiry date for the created strategy configuration.
	User can modify the same.
Additional Information	



Field	Description
Туре	Displays the fact type for the created strategy configuration.
	User can modify the same.
Value	Displays the fact value for the created strategy configuration.
	User can modify the same.
Modes	Displays the modes defined for the created strategy configuration.
	User can modify the same.
Steps	Displays the steps defined for the created strategy configuration.
	User can modify the same.

- 8. Click Save to update the modified fields.
- 9. Click **View** to view the created strategy configuration.
 - → The Strategy Configuration Maintenance View screen displays.

Figure 177 : Strategy Configuration Maintenance - View



Table 162 : Strategy Configuration Maintenance - View - Field Description

Field	Description
Basic Details	
Strategy Code	Displays the strategy code.



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



4.8 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.

This section contains the following subsections:

- 4.8.1 Create Scoring Feature
- 4.8.2 View Scoring Feature

4.8.1 Create Scoring Feature

The **Create Scoring Feature** screen allows user to 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.

- 1. On Homescreen, click Core Maintenance, under Core Maintenance, click Credit Decision.
- Under Credit Decision click, Maintenance, under Maintenance, click Scoring Feature, under Scoring Feature, click Create Scoring Feature.
 - → The Create Scoring Feature screen displays.

Figure 178: Create Scoring Feature



3. Specify the fields on **Create Scoring Feature** screen.

The fields, which are mentioned as required, are mandatory. For more information on fields, refer to the field description table below.

Table 163 : Create Scoring Feature - Field Description

Field	Description
Basic Details	
Feature Code	Specify the unique feature code.



Field	Description
Feature Description	Specify a short description for the feature.
Product Processor	Specify the product processor for which the feature is being created.
Rule	Select the rule if it is required to define the feature.
	This option is used to decide whether the feature is rule based or fact based.
	The 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	Displays 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 .
6	Click this icon to get the information about the rule.
Rule Name	Displays the rule name for the selected rule.
	This field is enabled if the Rule is selected as Yes .

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

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



4.8.2 View Scoring Feature

The **View Scoring Feature** screen allows user to 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**.

- 1. On Homescreen, click Core Maintenance, under Core Maintenance, click Credit Decision.
- Under Credit Decision, click Maintenance, under Maintenance, click Scoring Feature, under Scoring Feature, click View Scoring Feature.
 - → The View Scoring Feature screen displays.

Figure 179: View Scoring Feature



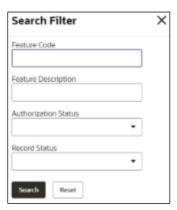
Table 164: View Scoring Feature - Field Description

Field	Description
Feature Code	Displays the feature code.
Feature Description	Displays the feature description.
Product Processor	Displays the product processor.
Status	Displays the status of the record.
Modification Number	Displays the number of modifications performed on the record.

- 3. On View Scoring Feature screen, click
 - → The View Scoring Feature Search screen displays.



Figure 180 : View Scoring Feature - Search



4. On **View Scoring Feature – Search** screen, Specify the **Search Filter** to fetch the required scoring feature.

Table 165: View Scoring Feature - Search Filter - Field Description

Field	Description
Feature Code	Displays the feature code.
Feature Description	Displays the feature description.
Authorization Status	Select the authorization status of the feature. The options are:
	Authorized
	Rejected
	Unauthorized
Record Status	Select the record status of the feature.
	The options are:
	Open
	Closed

- 5. Click **Search** to display the required scoring feature.
- 6. On View Scoring Feature screen, click icon to Unlock, Delete, Authorize, or View the created scoring feature.
- 7. Click **Unlock** to modify the created scoring feature.
 - → The Scoring Feature Maintenance Modify screen displays.



Figure 181 : Scoring Feature Maintenance - Modify



Table 166 : Scoring Feature Maintenance - Modify - Field Description

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



4.9 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.

This section contains the following subsections:

- 4.9.1 Create Quantitative Scoring Model
- 4.9.2 View Quantitative Scoring Model

4.9.1 Create Quantitative Scoring Model

The **Create Quantitative Scoring Model** screen allows user to 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.

- 1. On Homescreen, click Core Maintenance, under Core Maintenance, click Credit Decision.
- 2. Under Credit Decision, click Maintenance, under Maintenance, click Quantitative Scoring Model, under Quantitative Scoring Model, click Create Quantitative Scoring Model.
 - → The Create Quantitative Scoring Model screen displays.

Figure 182: Create Quantitative Scoring Model



3. Specify the fields on Create Quantitative Scoring Model screen.

The fields, which are mentioned as required, are mandatory. For more information on fields, refer to the field description table below.

Table 167: Create Quantitative Scoring Model - Field Description

Field	Description
Basic Details	



Field	Description	
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.	

- 4. Click the **Selection Criteria** tab to define scoring model.
 - → The Create Quantitative Scoring Model Selection Criteria screen displays.



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Figure 183 : Create Quantitative Scoring Model - Selection Criteria

Table 168 : Create Quantitative Scoring Model - Selection Criteria - Field Description

Field	Description
Use Existing Rule	By default, this option is enabled. Indicates if the existing rule is linked.
Rules	
Rule Code	Select the rule code from the drop-down list.
6	Click to get the information about the rule.
Rule Name	Displays the rule name of the rule code.
Create New Rule	Select this option to create new rule.
Rules	
Code	Specify the new rule code.



Field	Description	
Description	Specify the rule description.	
Select Existing Rule	Select the existing rule from the drop-down list.	
	Click to view the existing rule.	
	Note: This is used when existing rule is to be used for some modification like copy of existing rule.	
Below field appears once you click icon.		
Rule ID	Displays the rule ID.	
Rule Name	Displays the rule name.	
Description	Displays the rule description.	
Rule Version	Displays the rule version	
0	Click to view the existing rule version.	
	Note: This is used when existing rule is to be used for some modification like copy of existing rule.	
Below fields appears once you click icon.		
Version	Displays the rule version.	
Description	Displays the rule description.	
Creation Date	Displays the rule creation date.	
Expression Builder		
+ button	Click 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 it, update the same based on the selected option.	



Field	Description
Operator	Select the comparison operator from the drop-down list.
	The options are:
	• <
	• >
	• +
	• =
	• %
	• !=
	• -
	• >=
	• <=
	• *
	• /
	Contains
	• In
	Matches
	Notmatches
	Notcontains
	Notin
Data Type	Select the data type for the fact or rule. Once you select the data type one more field opens adjacent to it, update the same based on the selected option.
	The options are:
	• Text
	Number
	Boolean
	Fact
	• Date
	The below option appears if the Data Type is selected as Boolean .
	True
	• False



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

- 5. Click the **Scoring Rule** tab to define the rule. This tab is enabled if **Application Scoring Model** is selected.
 - → The Create Quantitative Scoring Model Scoring Rule screen displays.

Figure 184: Create Quantitative Scoring Model - Scoring Rule



Table 169 : Create Quantitative Scoring Model - Scoring Rule - Field Description

Field	Description
Score	
Rule Code	Select the rule code from the drop-down list.



Field	Description
6	Click to get the information about the rule.
Rule Name	Displays the rule name of the rule code.

- Click the Feature tab to define the feature. This tab is enabled if Applicant Scoring Model and Multiple Applicant Scoring Model is selected.
 - → The Create Quantitative Scoring Model Feature screen displays.

Figure 185 : Create Quantitative Scoring Model - Feature

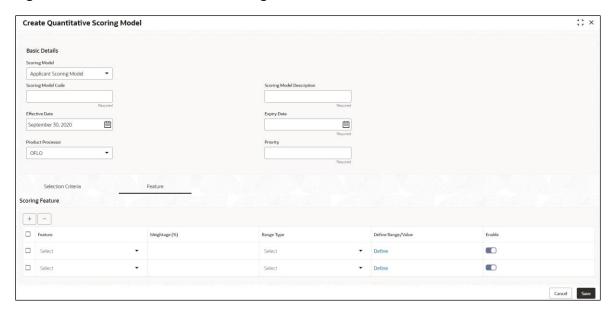


Table 170 : Create Quantitative Scoring Model – Feature - Field Description

Field	Description
Scoring Feature	
+ button	Click to add a new row.
- button	Click to delete an existing row.
Feature	Select the feature from the drop-down list.
Weightage (%)	Specify the weightage to be assigned to each feature code.



Field	Description
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 to define the feature.
Enable	By default, this option is enabled. Indicates if the scoring parameter is enabled or not.

- 7. Click the **Define** link to define a range or absolute values for each scoring feature to be considered for scoring model and score for that range or value. In case the data type of feature is numeric such as Bureau scores the below screen appears.
 - → The Create Quantitative Scoring Model Define Link Numeric Feature screen displays.

Figure 186 : Create Quantitative Scoring Model - Define Link - Numeric Feature

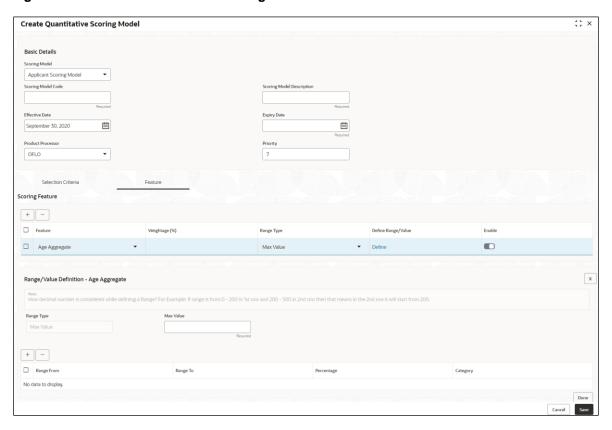




Table 171: Create Quantitative Scoring Model – Define Link – Numeric Feature - Field Description

Field	Description	
Range/Value Definition	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 %.	
+ button	Click to add a new row.	
- button	Click to delete an existing row.	
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	

8. In case the data type of feature is alphanumeric such as Employment Category the below screen appears.



Create Quantitative Scoring Model ;; × Basic Details Applicant Scoring Model September 30, 2020 OFLO Scoring Feature ☐ Feature ☐ Age Aggregate Max Value ▼ Defin Range/Value Definition - Age Aggregate + -□ 50 100

Figure 187: Create Quantitative Scoring Model - Define Link - Alphanumeric Feature

Table 172: Create Quantitative Scoring Model – Define Link – Alphanumeric Feature - Field Description

Field	Description	
Range/Value Definition	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.	
+ button	Click to add a new row.	
- button	Click to delete an existing row.	
Value	Specify the value of the feature.	
Score	Specify the score assigned for each range value.	



Field	Description
Category	Specify the category for each range or value from the drop-down list.
	The options are:
	• Strong
	Medium
	Weak

- 9. Click **Done** to save the data and close the range panel.
- 10. Click Save to save the details.

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



4.9.2 View Quantitative Scoring Model

The **View Quantitative Scoring Model** screen allows the user to 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**.

- 1. On Homescreen, click Core Maintenance, under Core Maintenance, click Credit Decision.
- Under Credit Decision, click Maintenance, under Maintenance, click Quantitative Scoring Model, under Quantitative Scoring Model, click View Quantitative Scoring Model.
 - → The View Quantitative Scoring Model screen displays.

Figure 188 : View Quantitative Scoring Model



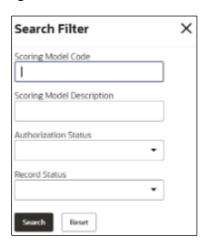
Table 173: View Quantitative Scoring Model - Field Description

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.
Status	Displays the status of the record.
Modification Number	Displays the number of modifications performed on the record.

- 3. On View Quantitative Scoring Model screen, click icon
 - → The View Quantitative Scoring Model Search screen displays.



Figure 189 : View Quantitative Scoring Model - Search



4. On **View Quantitative Scoring Model – Search** screen, Specify the **Search Filter** to fetch the required quantitative scoring model.

Table 174: View Quantitative Scoring Model - Search Filter - Field Description

Field	Description
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 • Rejected • Unauthorized
Record Status	Select the record status of the model. The options are: Open Closed

- 5. Click **Search** to display the required quantitative scoring model.
- 6. On View Quantitative Scoring Model screen, click icon to Unlock, Delete, Authorize, or View the created quantitative scoring model.
- 7. Click Unlock to modify the created quantitative scoring model.
 - → The Quantitative Scoring Model Maintenance Modify screen displays.



Quantitative Scoring Model Maintenance ;; × Scoring Model March 31, 2025 ⊞ Use Existing Rule O Create New Rule Rule Code CBSINT2 CBSINT2 Edit Rules | • Q Q > Section1 + 1 Expression (MIN (ALL_Transunion_Credit_Report) == 409) Section1 true Cancel Save

Figure 190: Quantitative Scoring Model Maintenance - Modify

Table 175 : Quantitative Scoring Model Maintenance - Modify - Field Description

Field	Description
Basic Details	
Application Scoring Model	Displays the application scoring model.
Scoring Model Code	Displays the scoring model code for the created quantitative scoring model.
Scoring Model Description	Displays the scoring model description for the created quantitative scoring model.
	User can modify the same
Effective Date	Displays the effective date for the created quantitative scoring model.
	User can modify the same before authorization.



Field	Description
Expiry Date	Displays the expiry date of the created quantitative scoring model.
	User can modify the same.
Product Processor	Displays the product processor for the created quantitative scoring model.
Priority	Displays the priority of the created quantitative scoring model.
	User can modify the same.
Selection Criteria	
Use Existing Rule	Indicates if the existing rule is linked.
	User can modify the same
Rules	
Rule Code	Displays the rule code for the created quantitative scoring model.
	User can modify the same.
0	Click to get the information about the rule.
Rule Name	Displays the rule name of the rule code for the created quantitative scoring model.
Create New Rule	Displays the rule code for the created quantitative scoring model.
	User 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.
Select existing Rule	Displays the existing rule.
Rule Version	Displays the rule version.
Expression Builder	•
+ button	Click to add new expression.
Fact / Rules	Displays the fact or rule for the created quantitative scoring model.
Operator	Displays the comparison operator for the created quantitative scoring model.
Data Type	Displays the data type for the fact or rule for the created quantitative scoring model.



Field	Description
Output	Displays the output for the created quantitative scoring model.
Expression	Displays the expression updated in the expression builder for the created quantitative scoring model.
Feature	
This tab is enabled f	or the Applicant Scoring Model.
Scoring Feature	
+ button	Click to add new row.
- icon	Click to delete an existing row.
Feature	Displays the feature for the created quantitative scoring model.
Weightage (%)	Displays the weightage assigned to each feature for the created quantitative scoring model.
	User can modify the same.
Range Type	Displays the range type for the created quantitative scoring model.
	The options are:
	Max Value
	Param Percent%
	• Value
Define Range/Value	Displays the range/value defined for the created quantitative scoring model.
Range From	Displays the minimum range of value based on which scoring is done.
	User can modify the same.
Range To	Displays the maximum range of value based on which scoring is done.
	User can modify the same.
Score	Displays the score assigned for each range or value.
	User can modify the same.



Field	Description
Category	Displays the category for each range or value for the created quantitative scoring model.
	The options are:
	• Strong
	Medium
	Weak
	User can modify the same.
Enable	Displays the parameter for the created quantitative scoring model.
	User can modify the same.
Scoring Rule	
This tab is enabled f	or the Application Scoring Model.
Score	
Rule Code	Displays the rule code for the created quantitative scoring model.
0	Click to get the information about the rule.
Rule Name	Displays the rule name of the rule code for the created quantitative scoring model.

- 8. Click **Save** to update the modified fields.
- 9. Click **View** to view the created quantitative scoring model.
 - → The Quantitative Scoring Model Maintenance View screen displays.



Quantitative Scoring Model Maintenance :: × Basic Details Souting Model Description Employ Date September 30, 2000 March 51, 2005 Product Processor Priority 08.0 Rules GH Select Extratografia C3914T2 Q) Section! Else No items to display. (MIN (ALL_Transunion_Credit_Report) == 409) Output Section1 true

Figure 191 : Quantitative Scoring Model Maintenance - View

Table 176: Quantitative Scoring Model Maintenance - View - Field Description

Field	Description
Basic Details	
Scoring Model	Displays the scoring Model for the created quantitative scoring model.
Scoring Model Code	Displays the scoring model code for the created quantitative scoring model.
Scoring Model Description	Displays the scoring model description for the created quantitative scoring model.
Effective Date	Displays the effective date for the created quantitative scoring model.
Expiry Date	Displays the expiry date of the created quantitative scoring model.
Product Processor	Displays the product processor for the created quantitative scoring model.



Field	Description
Priority	Displays the priority of the created quantitative scoring model.
Selection Criteria	
Use Existing Rule	Indicates if the existing rule is linked.
Rules	
Rule Code	Displays the rule code for the created quantitative scoring model.
6	Click to get the information about the rule.
Rule Name	Displays the rule name of the rule code for the created quantitative scoring model.
Create New Rule	Displays the rule code for the created quantitative scoring model.
Rules	
Code	Specify the new rule code for quantitative scoring model.
Description	Specify the rule description for the quantitative scoring model.
Select Existing Rule	Displays the existing rule.
Rule Version	Displays the rule version.
Expression Builder	
+ button	Click to add new expression.
Fact / Rules	Displays the fact or rule for the created quantitative scoring model.
Operator	Displays the comparison operator for the created quantitative scoring model.
Data Type	Displays the data type for the fact or rule for the created quantitative scoring model.
Output	Displays the output for the created quantitative scoring model.
Expression	Displays the expression updated in the expression builder for the created quantitative scoring model.
Feature	
This tab is enabled for the Applicant Scoring Model .	
Scoring Feature	
+ button	Click to add new row.
- button	Click to delete an existing row.



Field	Description
Feature	Displays the feature for the created quantitative scoring model.
Weightage (%)	Displays the weightage assigned to each feature for the created quantitative scoring model.
Range Type	Displays the range type for the created quantitative scoring model.
	The options are:
	Max Value
	Param Percent%
	Value
Define Range/Value	Displays the range/value defined for the created quantitative scoring model.
Range From	Displays the minimum range of value based on which scoring is done.
Range To	Displays the maximum range of value based on which scoring is done.
Score	Displays the score assigned for each range or value.
Category	Displays the category for each range or value for the created quantitative scoring model.
	The options are:
	• Strong
	Medium
	Weak
Enable	Displays the parameter for the created quantitative scoring model.
Scoring Rule	
This tab is enabled for	the Application Scoring Model.
Score	
Rule Code	Displays the rule code for the created quantitative scoring model.
0	Click to get the information about the rule.
Rule Name	Displays the rule name of the rule code for the created quantitative scoring model.



4.10 Decision Grade Matrix

The **Decision Grade Matrix** screen allows the user to define the decision and grade based on the score calculated by the scoring model.

This section contains following subsections:

- 4.10.1 Create Decision Grade Matrix
- 4.10.2 View Decision Grade Matrix

4.10.1 Create Decision Grade Matrix

The **Create Decision Grade Matrix** screen allows user to create decision and grade matrix by updating various details.

- 1. On Homescreen, click Core Maintenance, under Core Maintenance, click Credit Decision.
- Under Credit Decision, click Maintenance, under Maintenance, click Decision Grade Matrix, under Decision Grade Matrix, click Create Decision Grade Matrix.
 - → The Create Decision Grade Matrix screen displays.

Figure 192 : Create Decision Grade Matrix



3. Specify the fields on Create Decision Grade Matrix screen.

The fields, which are mentioned with required, are mandatory. For more information on fields, refer to the field description table below.

Table 177: 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.



Field	Description
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.

- 4. Click the **Selection Criteria** tab to configure the parameters based on which decision model is to be resolved.
 - → The Create Decision Grade Matrix Selection Criteria screen displays.

Figure 193: Create Decision Grade Matrix - Selection Criteria

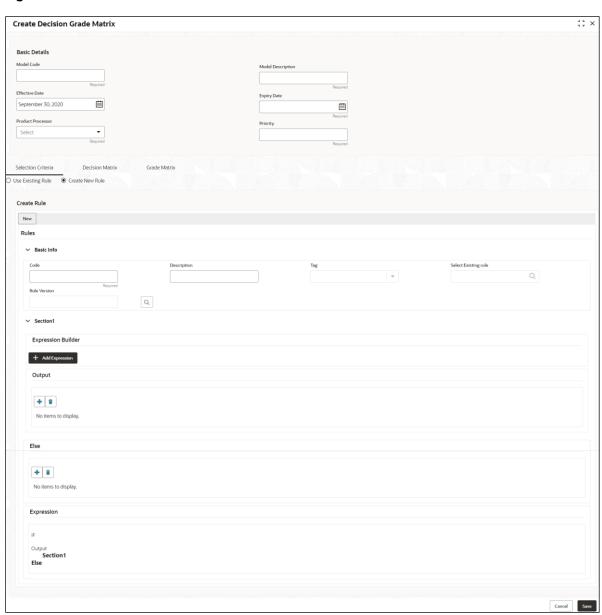




Table 178 : Decision and Grade Matrix - Selection Criteria - Field Description

Field	Description
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.
6	Click to get the information about the rule.
Rule Name	Displays the rule name.
Create New Rule	Select this option to create new rule.
Rules	
Code	Specify the new rule code.
Description	Specify the rule description.
Select Existing Rule	Select the existing rule from the drop-down list.
Q	Click to view the existing rule. Note: This is used when existing rule is to be used for some modification like copy of existing rule.
Below field appears once yo	ou click Q icon.
Rule ID	Displays the rule ID.
Rule Name	Displays the rule name.
Description	Displays the rule description.
Rule Version	Displays the rule version.
Q	Click icon to view the list of rule versions. Note: This is used when existing rule is to be used for some modification like copy of existing rule.
Below field appears once you click icon.	
Version	Displays the rule version.
Description	Displays the rule description.
Creation Date	Displays the rule creation date.



Field	Description
Expression Builder	
+ button	Click 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 it, update the same based on the selected option.
Operator	Select the comparison operator from the drop-down list.
	The options are:
	• <
	• >
	• +
	• =
	• %
	• !=
	• -
	• >=
	• <=
	•
	• /
	Contains
	InMatches
	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 it, update the same based on the selected option.
	The options are:
	• Text
	• Number
	Boolean
	• Date
	• Fact
	The below option appears if the Data Type is selected as Boolean .
	• True
	• False
Output	Select the output from the drop-down list. Once you select the output one more field opens adjacent to it, update the same based on the selected option.
	The options are:
	• Text
	• Number
	Boolean
	• Date
	• Fact
	The below option appears if the Data Type is selected as Boolean .
	• True
	• False
Expression	Displays the expression updated in the expression builder.

- 5. Click the **Decision Matrix** tab to define decision on the application. Select the feature for which the decision needs to be maintained like Quantitative/Qualitative.
 - ightarrow The Create Decision Grade Matrix Decision Matrix screen displays.



Figure 194 : Create Decision Grade Matrix - Decision Matrix

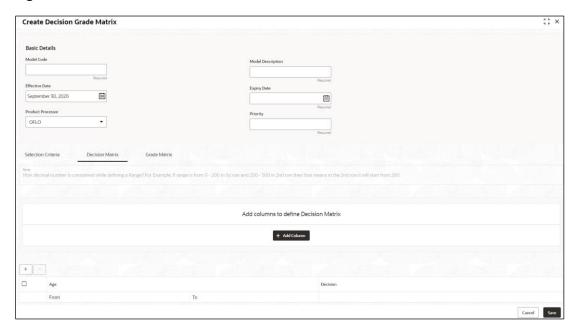


Table 179: Create Decision Grade Matrix - Decision Matrix - Field Description

Field	Description	
The following fields app	The following fields appear if you click Decision Matrix Tab.	
Add Column	Click for addition of features for which decision has to be maintained.	
	On click of Add Column , all the features are shown in the drop-down list. Select the feature to be added. Click save to add the feature.	
	If the feature is numeric type, two columns get added in the table From and To. If the feature is character/alphanumeric type one column Value gets added.	
	System should not save, if no feature has been added. User can click Cancel to close the window.	
Link a Rule?	User can link a rule to the features.	
	The options are:	
	Yes: If this option is selected, system displays the list of rules and based on rule mapped the decision is provided.	
	No: If this option is selected, system displays the list of decision lookup values.	
+ button	Click to add a new row.	
- button	Click to delete an existing row.	
Score From	Specify the minimum range of score for the decision.	
Score To	Specify the maximum range of score for the decision.	



Field	Description
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
Rule	Displays the rules based on which decision is to be made.
	This field is enabled if Link a Rule? Option is update as Yes .

- 6. Click the **Grade Matrix** tab to assign the grade to the application that is used during the pricing of the application. Select the feature for which the grade needs to be maintained like Quantitative/Qualitative.
 - → The Create Decision Grade Matrix Grade Matrix screen displays.

Figure 195 : Create Decision Grade Matrix - Grade Matrix

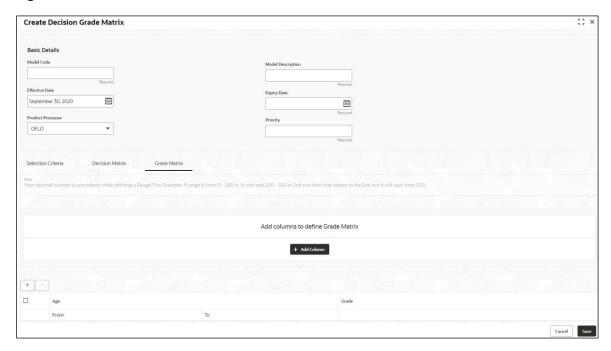


Table 180 : Create Decision Grade Matrix - Grade Matrix - Field Description

Field	Description
The following fields appear if you click Grade Matrix tab.	



Field	Description
Add Column	Click for addition of features for which decision has to be maintained.
	On click of Add Column , all the features are shown in the drop-down list. Select the feature to be added. Click save to add the feature.
	If the feature is numeric type, two columns get added in the table From and To. If the feature is character/alphanumeric type one column Value gets added.
	System should not save, if no feature has been added. User can click Cancel to close the window.
Link a Rule?	User can link a rule to the features.
	The options are:
	 Yes: If this option is selected, system displays the list of rules and based on rule mapped the decision is provided.
	No: If this option is selected, system displays the list of decision lookup values.
+ button	Click to add a new row.
- button	Click to delete an existing row.
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
Value	In case the data type of feature is numeric such as Age, FICO score the below field appears., specify the value for which the grade has to be maintained.
Rule	Displays the rules based on which decision is to be made.
	This field is enabled if Link a Rule? Option is updated as Yes .

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

The **Decision Grade Matrix** is successfully created and can be viewed using the **View Decision** and **Grade Matrix** screen.

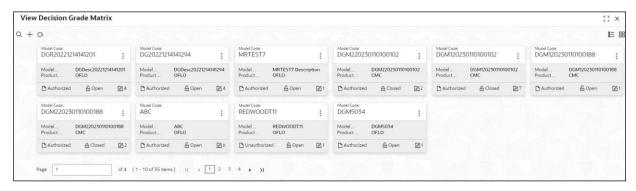


4.10.2 View Decision Grade Matrix

The **View Decision Grade Matrix** screen allows the user to 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**.

- 1. On Homescreen, click Core Maintenance, under Core Maintenance, click Credit Decision.
- 2. Under Credit Decision, click Maintenance, under Maintenance, click Decision Grade Matrix, under Decision Grade Matrix, click View Decision Grade Matrix.
 - → The View Decision Grade Matrix screen displays.

Figure 196: View Decision Grade Matrix



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

Table 181: View Decision Grade Matrix - Field Description

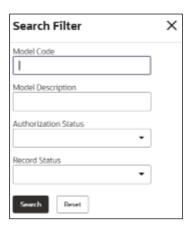
Field	Description
Model Code	Displays the model code.
Model Description	Displays the description of the model.
Product Processor	Displays the product processor for which the model is created.
Status	Displays the status of the record.
Modification Number	Displays the number of modifications performed on the record.



→ The View Decision Grade Matrix - Search screen displays.



Figure 197: View Decision Grade Matrix- Search



4. On **View Decision Grade Matrix – Search** screen, Specify the **Search Filter** to fetch the required decision grade matrix.

Table 182: View Decision Grade Matrix - Search Filter - Field Description

Field	Description
Model Code	Displays the model code.
Model Description	Displays the model description.
Authorization Status	Select the authorization status of the model.
	The options are:
	Authorized
	Rejected
	Unauthorized
Record Status	Select the record status of the model.
	The options are:
	Open
	Closed

- 5. Click **Search** to display the required decision grade matrix.
- 6. On View Decision Grade Matrix screen, click icon to Unlock, Delete, Authorize, or View the created decision grade matrix.
- 7. Click **Unlock** to modify the created decision grade matrix.
 - → The **Decision Grade Maintenance Modify** screen displays.



Decision Grade Maintenance ;; × Basic Details Model Code Model Description CBSINT3 Expiry Date $\stackrel{\text{\tiny }}{=}$ March 31, 2025 Rules CBSINT3 CBSINT3 Edit Q Rule Version Q > Section1 + 🛊 (MIN (ALL_Equifax_Consumer_Credit_Report) == 409) Section1 true Cancel

Figure 198: Decision Grade Maintenance - Modify

Table 183: View Decision Grade Matrix - Modify - Field Description

Field	Description
Basic Details	
Model Code	Displays the model code for created decision grade matrix.
Model Description	Displays the description of the model for the created decision grade matrix.
	User can modify the same.
Effective Date	Displays the effective date of the model for the created decision grade matrix.
Expiry Date	Displays the expiry date of the model for the created decision grade matrix.
	User can modify the same.



Field	Description	
Product Processor	Displays the product processor for the created decision grade matrix.	
Priority	Displays the priority of the model for the created decision grade matrix.	
	User can modify the same.	
Selection Criteria		
Use Existing Rule	Indicates if the existing rule is linked.	
Rules		
Rule Code	Displays the rule code of the created decision grade matrix.	
	User can modify the same.	
0	Click to get the information about the rule.	
Rule Name	Displays the rule name.	
Create New Rule	Displays the rule code for the created decision grade matrix.	
	User 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.	
Select Existing Rule	Displays the existing rule.	
	User can modify the same.	
Rule Version	Displays the rule version.	
Expression Builder		
+ button	Click to add new expression.	
Fact / Rules	Displays the fact or rule for the created decision grade matrix.	
Operator	Displays the comparison operator for the created decision grade matrix.	
Data Type	Displays the data type for the fact or rule for the created decision grade matrix.	
Output	Displays the output for the created decision grade matrix.	
Expression	Displays the expression updated in the expression builder for the created quantitative scoring model.	



Field	Description	
Decision Matrix		
Add Column	Click to add addition of features for which decision has to be maintained.	
Link a Rule?	User can link a rule to the features.	
	The options are:	
	Yes: This option displays the list of rules and based on rule mapped the decision is provided.	
	No: This option displays the list of decision lookup values.	
+ button	Click to add new row.	
- button	Click to delete row.	
Score From	Displays the minimum range of score for the decision.	
	User can modify the same.	
Score To	Displays the maximum range of score for the decision.	
	User can modify the same.	
Decision	Displays the decision of an application. The values are configurable based on the look up values maintained	
	The options are:	
	Approved	
	Manual	
	Rejected	
	User can modify the same.	
Rule	Displays the rule based on which decision is to be made.	
	This field is enabled if Link a Rule? Option is updated as Yes .	
Grade Matrix		
Add Column	Click to add addition of features for which decision has to be maintained.	
Link a Rule?	User can link a rule to the features.	
	The options are:	
	Yes: This option displays the list of rules and based on the rule's mapped decision is provided.	
	No: this option displays the list of decision lookup values.	



Field	Description
+ button	Click to add new row.
S- button	Click to delete row.
Score From	Displays the minimum range of score for the grade.
	User can modify the same.
Score To	Displays the maximum range of score for the grade.
	User can modify the same.
Grade	Displays 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
	User can modify the same.
Rule	Displays the rule based on which decision is to made.
	This field is enabled if Link a Rule? Option is updated as Yes .

- 8. Click **Save** to update the modified field.
- 9. Click **View** to view the created decision grade matrix.
 - → The **Decision Grade Maintenance View** screen displays.



Decision Grade Maintenance ;; × Basic Details Model Description CBSINT3 CBSINT3 Expiry Date March 31, 2025 OFLO CBSINT3 CBSINT3 Edit ✓ Basic Info Q Q, + 🛊 No items to display Expression (MIN (ALL_Equifax_Consumer_Credit_Report) == 409)

Figure 199 : Decision Grade Maintenance - View

Table 184: Decision Grade Maintenance - View - Field Description

Field	Description
Basic Details	
Model Code	Displays the model code for the created decision grade matrix.
Model Description	Displays the description for the created decision grade matrix.
Effective Date	Displays the effective date for the created decision grade matrix.
Expiry Date	Displays the expiry date for the created decision grade matrix.
Product Processor	Displays the product processor for the created decision grade matrix.
Priority	Displays the priority for the created decision grade matrix.
Selection Criteria	
Use Existing Rule	Indicates if the existing rule is linked.



Field	Description
Rules	
Rule Code	Displays the rule code of the created decision grade matrix.
0	Click to get the information about the rule.
Rule Name	Displays the rule name.
Create New Rule	Displays if new rule is linked to the created decision grade matrix.
Rules	
Code	Specify the new rule code for decision grade matrix.
Description	Specify the rule description for the decision grade matrix.
Select Existing Rule	Displays the existing rule.
Rule Version	Displays the rule version.
Expression Builder	
+ button	Click to add new expression.
Fact / Rules	Displays the fact or rule for the created decision grade matrix.
Operator	Displays the comparison operator for the created decision grade matrix.
Data Type	Displays the data type for the fact or rule for the created decision grade matrix.
Output	Displays the output for the created decision grade matrix.
Expression	Displays the expression updated in the expression builder for the created quantitative scoring model.
Decision Matrix	
Add Column	Click to add addition of features for which decision has to be maintained.
Link a Rule?	Displays if the rule is linked to the feature or not.
+ button	Click to add a new row.
- button	Click to delete a row.
Score From	Displays the minimum range of score for the decision.
Score To	Displays the maximum range of score for the decision.



Field	Description
Decision	Displays the decision of an application. The values are configurable based on the look up values maintained
	The options are:
	Approved
	Manual
	Rejected
Rule	Displays the rule based on which decision is made.
	This field is enabled if Link a Rule? Option is updated as Yes .
Grade Matrix	
Add Column	Click to add addition of features for which decision has to be maintained.
+ button	Click to add a new row.
- button	Click to delete a row.
Score From	Displays the minimum range of score for the grade.
Score To	Displays the maximum range of score for the grade.
Grade	Displays the grade of the application based on the score scored. The values are configurable based on the look up values maintained.
	The options are:
	• A
	• B
	• C
Rule	Displays the rule based on which decision is made.
	This field is enabled if Link a Rule? Option is updated as Yes.



4.11 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.

This section contains the following subsections:

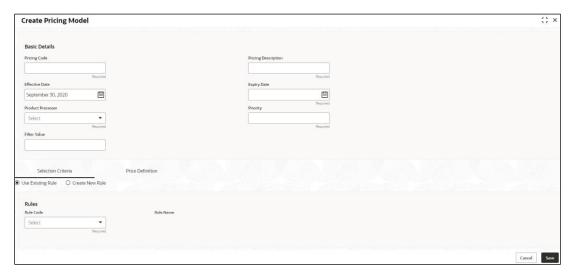
- 4.11.1 Create Pricing Model
- 4.11.2 View Pricing Model

4.11.1 Create Pricing Model

The **Create Pricing Model** screen allows user to create pricing model based on various pricing parameter by updating various details.

- 1. On Homescreen, click Core Maintenance, under Core Maintenance, click Credit Decision.
- Under Credit Decision, click Maintenance, under Maintenance, click Pricing, under Pricing, click Create Pricing Model.
 - → The Create Pricing Model screen displays.

Figure 200 : Create Pricing Model



3. Specify the fields on Create Pricing Model screen.

The fields, which are mentioned as required, are mandatory. For more information on fields, refer to the field description table below.

Table 185: Create Pricing Model - Field Description

Field	Description
Basic Details	



Field	Description
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.

- 4. Click the **Selection Criteria** tab to define pricing.
 - → The Create Pricing Model Selection Criteria screen displays.



Create Pricing Model ;; × Basic Details September 30, 2020 ∷ ⊞ Selection Criteria Price Definition New ∨ Basic Info Q Expression Builder Output + 🛊 + 🛊 Output Section1

Figure 201 : Create Pricing Model - Selection Criteria

Table 186 : Create Pricing Model - Selection Criteria - Field Description

Field	Description	
Use Existing Rule	By default, this option is enabled. Indicates if the existing rule is linked.	
Rules		
Rule Code	Select the rule code from the drop-down list.	
0	Click to get the information about the rule.	



Field	Description	
Rule Name	Displays the rule name.	
Create New Rule	Select this option to create new rule.	
Rules		
Code	Displays the rule code.	
Description	Displays the rule description.	
Select existing Rule	Select the existing rule from the drop-down list.	
Rule Version	Displays the rule version.	
0	Click to view the existing rule.	
	Note: This is used when existing rule is to be used for some modification like copy of existing rule.	
The below field appears once you click icon.		
Rule ID	Displays the rule ID.	
Rule Name	Displays the rule name.	
Description	Displays the rule description.	
Rule version	Displays the rule version.	
Q	Click to view the existing rule version. Note: This is used when existing rule is to be used for some modification like copy of existing rule.	
The below field appears once you click icon.		
Version	Displays the rule version.	
Description	Displays the rule description.	
Creation Date	Displays the rule creation date.	
Expression Builder		
+ button	Click 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 it, update the same based on the selected option.	



Field	Description
Operator	Select the comparison operator from the drop-down list.
	The options are:
	• <
	• >
	• +
	• =
	• %
	• !=
	• -
	• >=
	• <=
	• *
	• /
	Contains
	• In
	Matches
	Notmatches
	Notcontains
	Notin
Data Type	Select the data type for the fact or rule. Once you select the data type one more field opens adjacent to it, update the same based on the selected option.
	The options are:
	• Text
	Number
	Boolean
	• Fact
	• Date
	The below option appears if the Data Type is selected as Boolean .
	• True
	• False



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

- 5. Click the **Price Definition** tab to define pricing.
 - → The Create Pricing Model Price Definition (Flat) screen displays.

Figure 202 : Create Pricing Model - Price Definition (Flat)

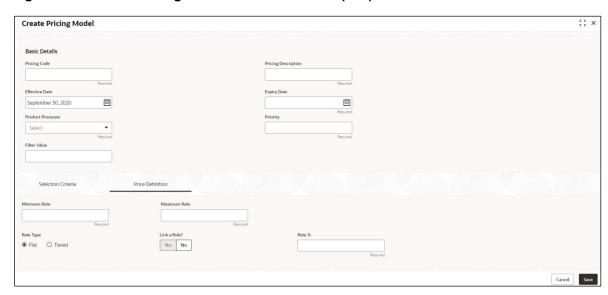


Table 187: Create Pricing Model - Price Definition (Flat) - Field Description

Field	Description
Minimum Rate	Specify the minimum rate applicable for the defined pricing code.



Field	Description
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
Link a Rule?	Select the option whether to link a rule to derive the price.
	The options are:
	• Yes
	• No
Rate %	Specify the interest rate application for the defined pricing.
	This field appears once you select the Rate Type option as Flat and Link a Rule? option as No .
Rule	Select the rule for the defined pricing from the drop-down list.
	This field appears once you select the Rate Type option as Flat and Link a Rule? option as Yes.

If the Rate Type is selected as Tiered, the user can link the list of features

6. Click **Add Columns** button.

ightarrow The **Add Features** popup screen displays.



Figure 203 : Add Features



- 7. Select the feature names from the list. ('n' number of features can be selected)
- 8. Select the option whether to **Link a Rule** for defining the interest rate.
- 9. Click **Save** to link the list of features for defining the tiered interest rate.
 - → The Create Pricing Model Price Definition (Tiered) screen displays.



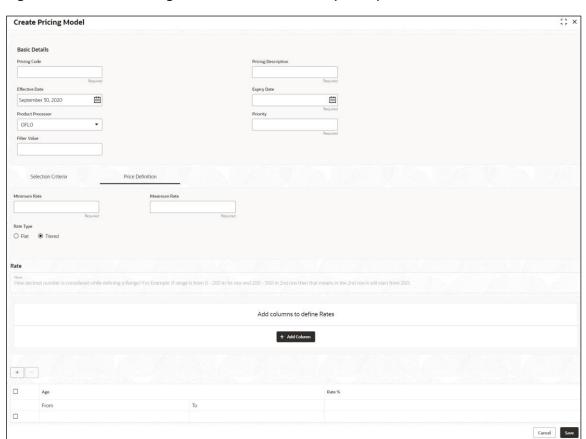


Figure 204 : Create Pricing Model - Price Definition (Tiered)

Table 188: Create Pricing Model - Price Definition (Tiered) - Field Description

Field	Description	
Minimum Rate	Specify the minimum rate applicable for the defined pricing code.	
Maximum Rate	Specify the maximum rate applicable for the defined pricing code.	
Rate Type	Specify the rate type from the drop-down list.	
	The options are:	
	• Flat	
	Tiered	
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.		
<numeric feature=""> From</numeric>	Specify the minimum numeric value of feature to which the interest rate is applicable.	
<numeric feature=""> To</numeric>	Specify the maximum numeric value of feature to which the interest rate is applicable.	
<character feature=""> Value</character>	Specify the alphabetic value for which the interest rate is applicable.	



Field	Description
Rate %	Specify the interest rate applicable for the defined tier. This field appears once you select the Rate Type option as Tiered and Link a Rule? option as No .
Rule	Select the rule for the defined tier from the drop-down list. This field appears once you select the Rate Type option as Tiered and Link a Rule? option as Yes.

10. Click Save to save the details.

The Pricing Model is successfully created and can be viewed using View Pricing Model Screen.

4.11.2 View Pricing Model

The **View Pricing Model** screen allows the user to 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**.

- 1. On Homescreen, click Core Maintenance, under Core Maintenance, click Credit Decision.
- Under Credit Decision, click Maintenance, under Maintenance, click Pricing, under Pricing, click View Pricing Model.
 - → The View Pricing Model screen displays.

Figure 205: View Pricing Model

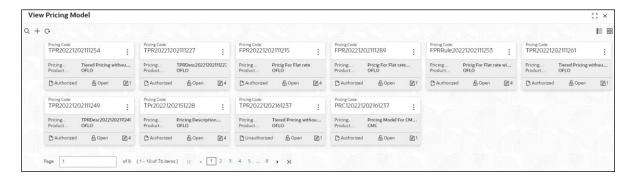


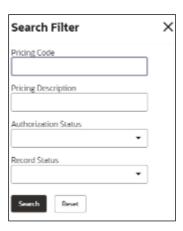
Table 189: View Pricing Model - Field Description

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.
Status	Displays the status of the record.
Modification Number	Displays the number of modifications performed on the record.



- 3. On View Pricing Model screen, click icon
 - → The View Pricing Model Search screens displays.

Figure 206 : View Pricing Model - Search



4. On **View Pricing Model – Search** screen, Specify the **Search Filter** to fetch the required pricing model.

Table 190: View Pricing Model - Search Filter - Field Description

Field	Description
Pricing Code	Displays the pricing code.
Pricing Description	Displays the description of the pricing model.
Authorization Status	Select the authorization status of the model.
	The options are:
	Authorized
	Rejected
	Unauthorized
Record Status	Select the record status of the model.
	The options are:
	Open
	Closed

- 5. Click **Search** to display the required pricing model.
- 6. On View Pricing Model screen, click icon to Unlock, Delete, Authorize, or View the created pricing model.
- 7. Click **Unlock** to modify the following fields.



→ The **Pricing Model Maintenance – Modify** screen displays.

Figure 207: Pricing Model Maintenance - Modify

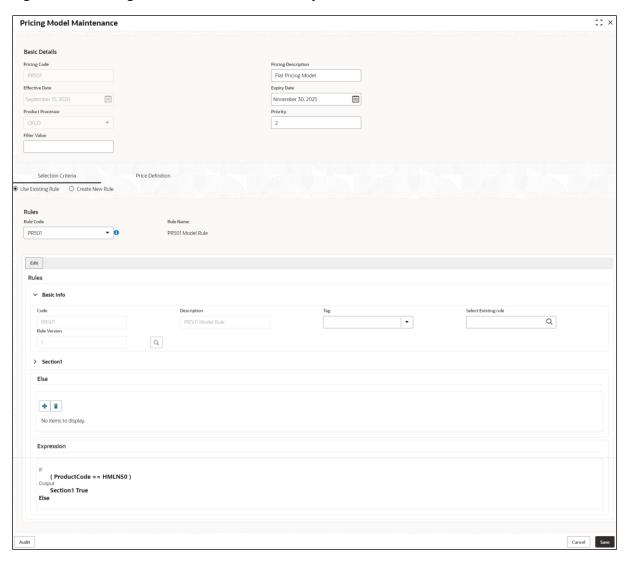


Table 191: Pricing Model Maintenance - Modify - Field Description

Field	Description
Basic Details	
Pricing Code	Displays the pricing code for created pricing model.
Pricing Description	Displays the description of the pricing for the created pricing model.
	User can modify the same.
Effective Date	Displays the effective date of the pricing for the created pricing model.
Expiry Date	Displays the expiry date of the pricing for the created pricing model.
	User can modify the same.



Field	Description
Product Processor	Displays the product processor for the created pricing model.
Priority	Displays the priority of the pricing for the created pricing model.
	User can modify the same.
Selection Criteria	I.
Use Existing Rule	Indicates if the existing rule is linked.
Rules	
Rule Code	Displays the rule code of the created pricing model.
	User can modify the same.
6	Click to get the information about the rule.
Rule Name	Displays the rule name.
Create New Rule	Displays if new rule is linked to the pricing model.
	User 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.
Select Existing Rule	Displays the existing rule.
	User can modify the same.
Rule Version	Displays the rule version.
Expression Builder	
+ button	Click to add new expression.
Fact / Rules	Displays the fact/rules of the created pricing model.
Operator	Displays the comparison operator of the created pricing model.
Data Type	Displays the data type for the fact or rule of the created pricing model.
Output	Displays the output of the created pricing model.
Expression	Displays the expression updated in the expression builder of the created pricing model.
Pricing Definition	



Field	Description
Minimum Rate	Displays the minimum rate applicable for the defined pricing model.
	User can modify the same.
Maximum Rate	Displays the maximum rate applicable for the defined pricing model.
	User can modify the same.
Rate Type	Displays the rate type from the drop-down list.
	The options are:
	• Flat
	Tiered
	User can modify the same.
Rate %	Displays the interest rate application for the defined pricing.
	User can modify the same.
	This field appears once you select the Rate Type option as Flat and Link a Rule? option as Yes.
Rule	Displays the rule for the defined pricing.
	User can modify the same.
	This field appears once you select the Rate Type option as Flat and Link a Rule? option as Yes .
The below field appears available as "Facts" in a	if the rate type is updated as Tiered . The below columns are drop down.
User can modify the sar	ne.
<numeric feature=""></numeric>	Displays the minimum numeric value of feature to which the interest rate is applicable.
	User can modify the same.
<numeric feature=""></numeric>	Displays the maximum numeric value of feature to which the interest rate is applicable.
	User can modify the same.
<character feature=""></character>	Displays the alphabetic value for which the interest rate is applicable.
Value	User can modify the same.



Field	Description
Rate %	Displays the interest rate applicable for the defined tier.
	User can modify the same.
	This field appears once you select the Rate Type option as Tiered and Link a Rule? option as No.
Rule	Displays the rule for the defined tier.
	User can modify the same.
	This field appears once you select the Rate Type option as Tiered and Link a Rule? option as Yes.

- 8. Click **Save** to update the modified fields.
- 9. Click View to view the created pricing model.
 - → The **Pricing Model Maintenance View** screen displays.

Figure 208 : Pricing Model Maintenance - View

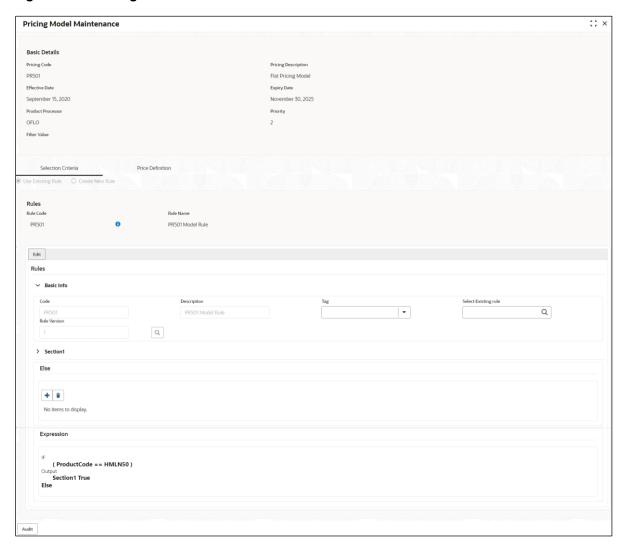




Table 192 : Pricing Model Maintenance - View - Field Description

Field	Description	
Basic Details		
Pricing Code	Displays the pricing code for created pricing model.	
Pricing Description	Displays the description of the pricing for the created pricing model.	
Effective Date	Displays the effective date of the pricing for the created pricing model.	
Expiry Date	Displays the expiry date of the pricing for the created pricing model.	
Product Processor	Displays the product processor for the created pricing model.	
Priority	Displays 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	Displays the rule code of the created pricing model.	
0	Click to get the information about the rule.	
Rule Name	Displays the rule name for the created pricing model.	
Create New Rule	Displays if new rule is linked to the pricing model.	
Rules		
Code	Displays the new rule code for created pricing model.	
Description	Displays the rule description for the created pricing model.	
Select Existing Rule	Displays the existing rule.	
Rule Version	Displays the rule version.	
Expression Builder	Expression Builder	
+ button	Click to add a new expression.	
Fact / Rules	Displays the fact/rules of the created pricing model.	
Operator	Displays the comparison operator of the created pricing model.	
Data Type	Displays the data type for the fact or rule of the created pricing model.	
Output	Displays the output of the created pricing model.	



Field	Description
Expression	Displays the expression updated in the expression builder of the created pricing model.
Pricing Definition	
Minimum Rate	Displays the minimum rate applicable for the defined pricing model.
Maximum Rate	Displays the maximum rate applicable for the defined pricing model.
Rate Type	Displays the rate type from the drop-down list.
	The options are:
	• Flat
	Tiered
Rate %	Displays the interest rate application for the defined pricing.
	This field appears once you select the Rate Type option as Flat and Link a Rule? option as Yes .
Rule	Displays the rule for the defined pricing.
	This field appears once you select the Rate Type option as Flat and Link a Rule? option as Yes.
The below field appears available as "Facts" in a	if the rate type is updated as Tiered . The below columns are drop down.
<numeric feature=""> From</numeric>	Displays the minimum numeric value of feature to which the interest rate is applicable.
<numeric feature=""></numeric>	Displays the maximum numeric value of feature to which the interest rate is applicable.
<character feature=""> Value</character>	Displays the alphabetic value for which the interest rate is applicable.
Rate %	Displays the interest rate applicable for the defined tier.
	This field appears once you select the Rate Type option as Tiered and Link a Rule? option as No .
Rule	Displays the rule for the defined tier.
	This field appears once you select the Rate Type option as Tiered and Link a Rule? option as Yes.

4.12 Validation Model

During credit decision, the system evaluates a credit score that represents the creditworthiness of an individual. Banks also do an initial evaluation by using some rules to decide whether to proceed with credit decisioning process or not. A bank can perform this evaluation by maintaining a validation model. Multiple levels of rule can be setup in validation model. The system will process the next step of credit



decisioning only if all the rules are satisfied. Based on the configuration, the system will run all the rules configured or stop execution of the further rules, if any rule fails and decline the request.

This section contains the following subsections:

- 4.12.1 Create Validation Model
- 4.12.2 View Validation Model



4.12.1 Create Validation Model

The **Create Validation Model** screen allows user to create validation model based on the various input. User can configure the strategy as per the requirement.

- 1. On Homescreen, click Core Maintenance, under Core Maintenance, click Credit Decision.
- 2. Under Credit Decision, click Maintenance, under Maintenance, click Validation Model, under Validation Model, click Create Validation Model.
 - → The Create Validation Model screen displays.

Figure 209 : Create Validation Model



3. Specify the fields on Create Validation Model screen.

The fields, which are mentioned as required, are mandatory. For more information on fields, refer to the field description table below.

Table 193: Create Validation Scoring Model - Field Description

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



Field	Description
Stop on Failure	By default, this option is disabled. Indicates whether system should stop execution of rules if any rules fail or continue ahead with the remaining rules as per the sequence.

- 4. Click the **Selection Criteria** tab to define selection criteria rules for validation model.
 - → The Create Validation Model Selection Criteria screen displays.

Figure 210 : Create Validation Model - Selection Criteria

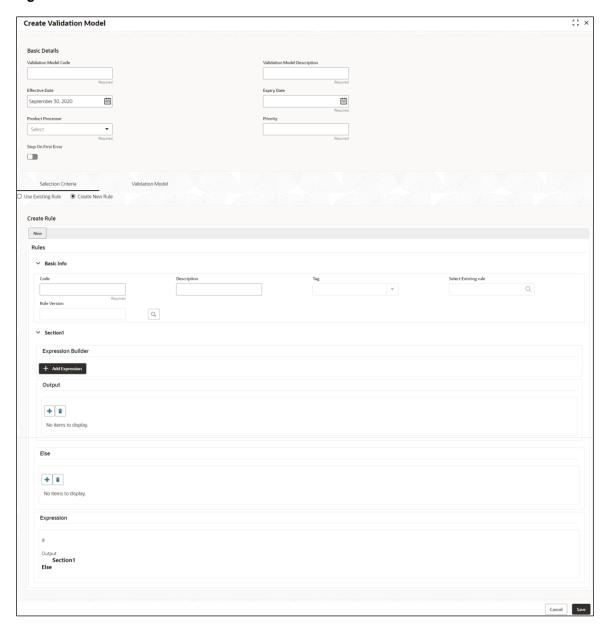


Table 194 : Create Validation Model - Selection Criteria - Field Description

Field	Description
The following fields appear if you click the Selection Criteria Tab	



Field	Description
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.
6	Click 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.
Select Existing Rule	Select the existing rule from the drop-down list.
Q	Click to view the existing rule.
Below field appears o	nce you click the con.
Rule ID	Displays the rule ID.
Rule Name	Displays the rule name.
Description	Displays the rule description.
Rule Version	Displays the rule version.
C	Click to view the list of rule versions.
<u> </u>	Note: This is used when existing rule is to be used for some modification like copy of existing rule.
The below field appears once you click the licon.	
List of Versions	
Version	Displays the rule version.
Description	Displays the rule description.



Field	Description
Creation Date	Displays the rule creation date.
	Note: This is used when existing rule is to be used for some modification like copy of existing rule.
Expression Builder	
+ button	Click 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 it, update the same based on the selected option.
Operator	Select the comparison operator from the drop-down list.
	The options are:
	• <
	• >
	• +
	• =
	• %
	• !=
	• -
	• >=
	• <=
	• *
	• /
	Contains
	• In
	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
	The below option appears if the Data Type is selected as Boolean .
	True
	• False
Expression	View the expression updated in the expression builder.

- 5. Click the **Validation Model** tab to define various validation modelling rules.
 - → The Create Validation Model Validation Model screen displays.



Figure 211 : Create Validation Model - Validation Model

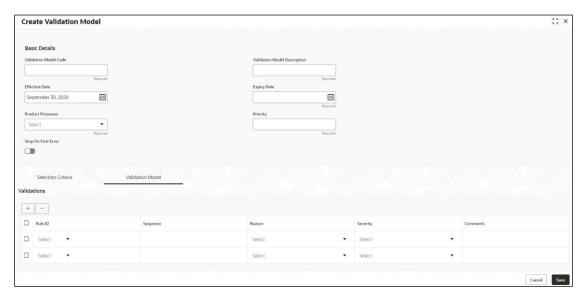


Table 195 : Create Validation Model - Validation Model - Field Description

Field	Description
The following fields appear if you click the Validation Model Tab	
+ button	Click to add a new row.
- button	Click to delete an existing row.
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 to get the information about the rule.
Sequence	Specify the sequence of execution of rules.
Reason	Select the reason from the drop-down list.
Severity	Select the severity from the drop-down list.
Comments	Specify the comments.

6. Click Save to save the details.

The **Validation Model** is successfully created and can be viewed using the **View Validation Model** screen.



4.12.2 View Validation Model

The View Validation Model screen allows the user to view the validation model created using the Create Validation Model screen. The status of the created validation model is displayed as Unauthorized and Open. Once the checker authorizes the model, the status is updated to Authorized and Open.

- 1. On Homescreen, click Core Maintenance, under Core Maintenance, click Credit Decision.
- 2. Under Credit Decision, click Maintenance, under Maintenance, click Validation Model, under Validation Model, click View Validation Model.
 - → The View Validation Model screen displays.

Figure 212 : View Validation Model

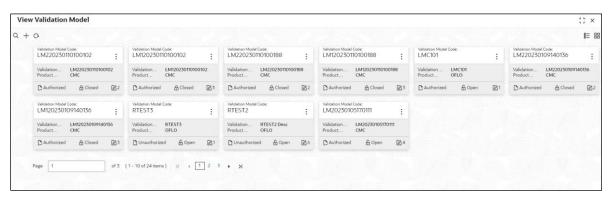


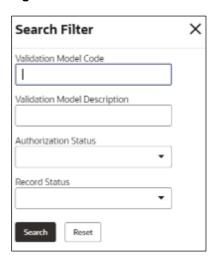


Table 196: View Validation Model – Field Description.

Field	Description
Validation Model Code	Displays the validation model code.
Validation Model Description	Displays the validation model description.
Product Processor Code	Displays the product processor code.
Status	Displays the status of the record.
Modification Number	Displays the number of modifications performed on the record.

- 3. On **View Validation Model** screen, click icon
 - → The View Validation Model Search screen displays.

Figure 213: View Validation Model - Search



4. On **View Validation Model – Search** screen, Specify the **Search Filter** to fetch the required validation model.

Table 197: View Validation Model - Search Filter - Field Description

Field	Description
Validation Model Code	Specify the validation model code.
Validation Model Description	Specify the description of the validation model.



Field	Description
Authorization Status	Select the authorization status of the validation model.
Otatus	The options are:
	Authorized
	Rejected
	Unauthorized
Record Status	Select the record status of the validation model.
	The options are:
	• Open
	Closed

- 5. Click **Search** to display the required validation model.
- 6. On View Validation Model screen, click icon to Unlock, Delete, Authorize, or View the created validation model.
- 7. Click **Unlock** to modify the created validation model.
 - → The Validation Model Maintenance Modify screen displays.



Validation Model Maintenance LM500 Expiry Date April 26, 2025 ⊞ Product Processor Stop On First Error QASMHL100Rule QASMHL100 Description Edit Rules Q Q + 1 Expression (ProductCode == QASMHL100) (ProductCode Output Section1 true Else Cancel

Figure 214: Validation Model Maintenance - Modify

Table 198: Validation Model Maintenance – Modify – Field Description.

Field	Description
Basic Details	
Validation Model Code	Displays the created validation model code.
Validation Model	Displays the description for the created validation model.
Description	User can modify the same.
Effective Date	Displays the effective date for the created validation model.
	User can modify the same if the date is future dated.
Expiry Date	Displays the expiry date for the created validation model.
	User can modify the same.



Field	Description
Product Processor	Displays the product processor of the created validation model.
Priority	Displays the priority of the validation model.
	User can modify the same.
Stop On Failure	Indicates whether system should stop execution of rules if any rules fails or continue ahead with the remaining rules as per the sequence.
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 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
Select Existing Rule	Displays the existing rule.
Rule Version	Displays the rule version.
Expression Builde	r
Fact / Rules	Displays the fact/rules of the created validation model.
Operator	Displays the comparison operator of the created validation model.
Data Type	Displays the data type for the fact or rule of the created validation model.
Output	Displays the output of the created validation model.
Expression	Displays the expression updated in the expression builder of the crated validation model.
Validation Model	
Rule ID	Displays the rule ID of the created validation model.
	You can modify the same.



Field	Description
0	Click to get the information about the rule.
Sequence	Displays the sequence of the created validation model.
	User can modify the same.
Reason	Displays the reason of the created validation model.
	User can modify the same.
Severity	Displays the severity of the created validation model.
	User can modify the same.
Comments	Displays the comments of the created validation model.
	User can modify the same.

- 8. Click **Save** to update the modified fields.
- 9. Click View to view the created validation model.
 - → The Validation Model Maintenance View screen displays.



Validation Model Maintenance ;; × Basic Details LMC500 LM500 Effective Date Expiry Date September 30, 2020 April 26, 2025 Product Processor OFLO Stop On First Error On QASMHL100Rule QASMHL100 Description Edit Rules -Q Q + 🛊 No items to display (ProductCode == QASMHL100) Output
Section1 true
Else

Figure 215: Validation Model Maintenance - View

Table 199 : Validation Model Maintenance - View - Field Description.

Field	Description
Basic Details	
Validation Model Code	Displays the created validation model code.
Validation Model Description	Displays the created validation model description.
Effective Date	Displays the effective date.
Expiry Date	Displays the expiry date.
Product Processor	Displays the product processor of the created validation model.
Priority	Displays the priority of the validation model.
Selection Criteria	



Field	Description	
Rules		
Use Existing Rule	Displays if the existing rule is linked to validation model.	
Rule Code	Displays the rule code of the created validation model.	
Rule Name	Displays the rule name of the created validation model.	
Create New Rule	Displays if new rule is linked to the validation model.	
Rules		
Code	Displays the rule code of the created validation model.	
Description	Displays the rule description of the created validation model.	
Select Existing Rule	Displays the existing rule.	
Rule Version	Displays the rule version.	
Expression Builder		
Fact / Rules	Displays the fact/rules of the created validation model.	
Operator	Displays the comparison operator of the created validation model.	
Data Type	Displays the data type for the fact or rule of the created validation model.	
Output	Displays the output of the created validation model.	
Expression	Displays the expression updated in the expression builder of the crated validation model.	
Validation Model		
Rule ID	Displays the rule ID of the created validation model.	
Sequence	Displays the sequence of the created validation model.	
Reason	Displays the reason of the created validation model.	
Severity	Displays the severity of the created validation model.	
Comments	Displays the comments of the created validation model.	

4.13 Qualitative Scoring Model

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

This section contains the following subsections:



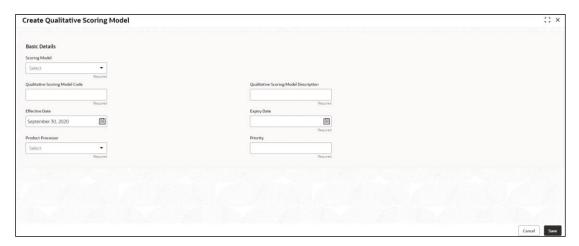
- 4.13.1 Create Qualitative Scoring Model
- 4.13.2 View Qualitative Scoring Model

4.13.1 Create Qualitative Scoring Model

The **Create Qualitative Scoring Model** screen allows user to define qualitative scoring model based on the various scoring parameters.

- 1. On Homescreen, click Core Maintenance, under Core Maintenance, click Credit Decision.
- 2. Under Credit Decision, click Maintenance, under Maintenance, click Qualitative Scoring Model, under Qualitative Scoring model, click Create Qualitative Scoring Model.
 - → The Create Qualitative Scoring Model screen displays.

Figure 216: Create Qualitative Scoring Model



3. Specify fields on Create Qualitative Scoring Model screen.

The fields, which are mentioned as required, are mandatory. For more information on fields, refer to the field description table below.

Table 200 : Create Qualitative Scoring Model - Field Description

Field	Description
Basic Details	
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.



Field	Description
Effective Date	Specify the effective date.
Expiry Date	Specify the expiry date.
Product Processor	Specify the product processor for which the model is being created.
Priority	Specify the priority of the model.

- 4. Click the **Selection Criteria** tab to define qualitative scoring model.
 - → The Create Qualitative Scoring Model Selection Criteria screen displays.

Figure 217 : Create Qualitative Scoring Model - Selection Criteria

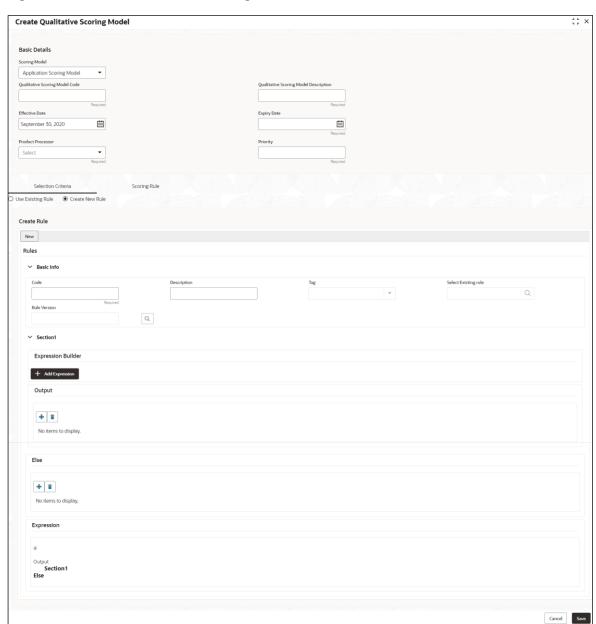




Table 201 : Create Qualitative Scoring Model - Selection Criteria - Field Description

Field	Description		
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.		
6	Click to get the information about the rule.		
Rule Name	Displays the rule name of the rule code.		
Create New Rule	Select this option to create new rule.		
Rules			
Code	Specify the rule code.		
Description	Specify the rule description.		
Select Existing Rule	Select the existing rule from the drop-down list.		
Q	Click to view the existing rule. Note: This is used when existing rule is to be used for some modification like copy of existing rule.		
Below fields appears or	Below fields appears once you click cicon.		
Rule ID	Displays the rule ID.		
Rule Name	Displays the rule name.		
Description	Displays the rule description.		
Rule Version	Displays the rule version.		
Q	Click to view the existing rule version.		
	Note: This is used when existing rule is to be used for some modification like copy of existing rule.		
Below fields appears once you click icon.			
Version	Displays the rule version.		
Description	Displays the rule description.		
Creation Date	Displays the rule creation date.		
Expression Builder			



Field	Description
+ button	Click 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 tit, update the same based on the selected option.
Operator	Select the comparison operator from the drop-down list.
	The options are:
	• <
	• >
	• +
	• =
	• %
	• !=
	• -
	• >=
	• <=
	• *
	• /
	Contains
	• In
	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 it, update the same based on the selected option.
	The options are:
	• Text
	Number
	Boolean
	• Fact
	Date
	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 it, update the same based on the selected option.
	The options are:
	• Text
	Number
	Boolean
	Date
	Fact
	The below option appears if the Data Type is selected as Boolean .
	True
	False
Expression	Displays the expression updated in the expression builder.

- 5. Click the **Scoring Rule** tab to define the rules. This tab is enabled if **Application Scoring Model** is selected.
 - → The Create Qualitative Scoring Model Scoring Rule screen displays.

Figure 218: Create Qualitative Scoring Model - Scoring Rule





Table 202 : Create Qualitative Scoring Model - Scoring Rule - Field Description

Field	Description
Score	
Rule Code	Select the rule code from the drop-down list.
0	Click to get the information about the rule.
Rule Name	Displays the rule name of the rule code.

- 6. Click the **Questionnaire** tab to define the scoring model based on the various questionnaires. This tab is enabled if **Applicant Scoring Model** is selected.
 - → The Create Qualitative Scoring Model Questionnaire screen displays.



Basic Details
Scoring Model
Applicant Scoring Model

Qualitative Scoring Model
Applicant Scoring Model

Qualitative Scoring Model
Applicant Scoring Model

Required

R

Figure 219 : Create Qualitative Scoring Model - Questionnaire

Table 203 : Create Qualitative Scoring Model - Questionnaire - Field Description

Field	Description
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	Displays the questionnaire name of the selected questionnaire code.
Question ID	Displays the question ID in the questionnaire.
Question	Displays the question description linked to the question ID.
Define Range/Value	Click to define the score for the expected response.
Enable	By default, this option is enabled. Indicates if the question ID is enabled or not.

- 7. Click the **Define** link to define a range or absolute values for questions.
 - → The Create Qualitative Scoring Model Define Link screen displays.



Cancel

Create Qualitative Scoring Model ;; × 曲 OFLO Scoring FeatureQuestionnaireSet3 Number of years the applicant staying at present address Define EmploymentDuration How many years in current employment Less than 2 year Done Cancel

Figure 220 : Create Qualitative Scoring Model - Define Link

Table 204: Create Qualitative Scoring Model - Define Link - Numeric Feature - Field Description

Field	Description	
Range/Value Definiti	Range/Value Definition	
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	

- 8. Click **Done** to save the data and close the range panel.
- 9. Click Save to save the details.



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

4.13.2 View Qualitative Scoring Model

The **View Qualitative Scoring Model** screen allows user to view the qualitative scoring model created using the **Create Qualitative Scoring Model** screen. The status of the created model is displayed as **Unauthorized** and **Open**. Once the checker authorizes the model, the status is updated to **Authorized** and **Open**.

- 1. On Homescreen, click Core Maintenance, under Core Maintenance, click Credit Decision.
- Under Credit Decision, click Maintenance, under Maintenance, click Qualitative Scoring Model, under Qualitative Scoring Model, click View Qualitative Scoring Model.
 - → The View Qualitative Scoring Model screen displays.

Figure 221: View Qualitative Scoring Model



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

Table 205: View Qualitative Scoring Model – Field Description.

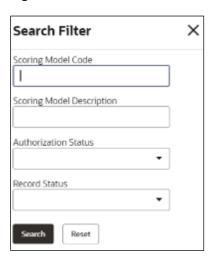
Field	Description
Scoring Model Code	Displays the scoring model code.
Scoring Model Description	Displays the scoring model description.
Product Processor Code	Displays the product processor code.
Status	Displays the status of the record.
Modification Number	Displays the number of modifications performed on the record.



→ The View Qualitative Scoring Model - Search screen displays.



Figure 222 : View Qualitative Scoring Model - Search



4. On **View Qualitative Scoring Model – Search** screen, Specify the **Search Filter** to fetch the required qualitative scoring model.

Table 206: View Qualitative Scoring Model - Search Filter - Field Description

Field	Description
Scoring Model Code	Specify the scoring model code.
Scoring Model Description	Specify the scoring model description.
Authorization Status	Select the authorization status of the scoring model. The options are: • Authorized • Rejected • Unauthorized
Record Status	Select the record status of the scoring model. The options are: Open Closed

- 5. Click **Search** to display the required qualitative scoring model.
- 6. On View Qualitative Scoring Model screen, click icon to Unlock, Delete, Authorize, or View the created qualitative scoring model.
- 7. Click **Unlock** to modify the created qualitative scoring model.



→ The Qualitative Scoring Model Maintenance – Modify screen displays.

Figure 223: Qualitative Scoring Model Maintenance - Modify

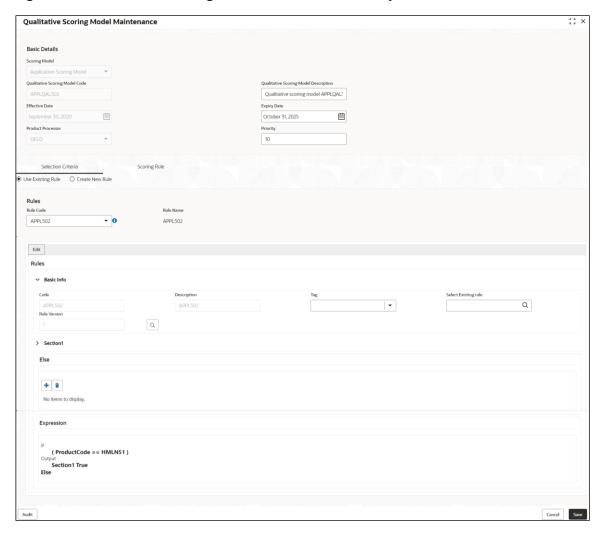


Table 207: Qualitative Scoring Model Maintenance – Modify – Field Description.

Field	Description
Basic Details	
Scoring Model	Displays the scoring model for the created qualitative scoring model.
Qualitative Scoring Model Code	Displays the qualitative scoring model code for the created qualitative scoring model.
Qualitative Scoring Model Description	Displays the qualitative scoring model description for the created qualitative scoring model.
•	User can modify the same.
Effective Date	Displays the effective date of the created qualitative scoring model.
	User can modify the same before authorization.



Field	Description
Expiry Date	Displays the expiry date of the created qualitative scoring model.
	User can modify the same.
Product Processor	Displays the product processor for the created qualitative scoring model.
Priority	Displays the priority of the created qualitative scoring model.
	User can modify the same.
Selection Criteria	
Use Existing Rule	Indicates if the existing rule is linked.
	User can modify the same.
Rules	
Rule Code	Displays the rule code for the created qualitative scoring model.
	User can modify the same.
0	Click to get the information about the rule.
Rule Name	Displays the rule name of the rule code for the created qualitative scoring model.
Rules	
Code	Displays the rule code.
Description	Displays the rule description.
Select Existing Rule	Displays the existing rule.
Rule Version	Displays the rule version.
Expression Builder	
+ button	Click to add new expression.
Fact / Rules	Displays the fact or rule for the created qualitative scoring model.
Operator	Displays the comparison operator for the created qualitative scoring model.
Data Type	Displays the data type for the fact or rule for the created qualitative scoring model.
Output	Displays the output for the created qualitative scoring model.



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

- 8. Click **Save** to update the modified fields.
- 9. Click **View** to view the created qualitative scoring model.
 - → The Qualitative Scoring Model Maintenance View screen displays.



Qualitative Scoring Model Maintenance ;; × Basic Details Application Scoring Model APPLQAL502 Qualitative scoring model APPLQAL502 Effective Date Expiry Date October 31, 2025 September 30, 2020 Product Processor OFLO Selection Criteria Rule Name APPL502 APPL502 Edit Rules Rule Version Q Else No items to display. (ProductCode == HMLN51) Section1 True

Figure 224 : Qualitative Scoring Model Maintenance - View

Table 208 : Qualitative Scoring Model Maintenance - View - Field Description.

Field	Description
Basic Details	
Scoring Model	Displays the scoring model for the created qualitative scoring model.
Qualitative Scoring Model Code	Displays the qualitative scoring model code for the created qualitative scoring model.
Qualitative Scoring Model Description	Displays the qualitative scoring model description for the created qualitative scoring model.
Effective Date	Displays the effective date of the created qualitative scoring model.
Expiry Date	Displays the expiry date of the created qualitative scoring model.
Product Processor	Displays the product processor for the created qualitative scoring model.



Field	Description
Priority	Displays the priority of the created qualitative scoring model.
Selection Criteria	
Rules	
Use Existing Rule	Indicates if the existing rule is linked.
Rules	
Rule Code	Displays the rule code for the created qualitative scoring model.
•	Click to get the information about the rule.
Rule Name	Displays 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	Displays the rule code of the created qualitative scoring model.
Description	Displays the rule description of the created qualitative scoring model.
Select Existing Rule	Displays the existing rule.
Rule Version	Displays the rule version.
Expression Builder	
+ button	Click this icon to add new expression.
Fact / Rules	Displays the fact/rules of the created qualitative scoring model.
Operator	Displays the comparison operator of the created qualitative scoring model.
Data Type	Displays the data type for the fact or rule of the created qualitative scoring model.
Output	Displays the output of the created qualitative scoring model.
Expression	Displays the expression updated in the expression builder of the crated qualitative scoring model.
Scoring Rule	
Applicable for the Application scoring Model .	
Score	
Rule Code	Displays the rule code for the created qualitative scoring model.



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

4.14 Questionnaire

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

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

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

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

This section contains the following subsections:

- 4.14.1 Create Questionnaire
- 4.14.2 View Questionnaire

4.14.1 Create Questionnaire

The **Create Questionnaire** screen allows the user to define qualitative questionnaire based on the various parameters. This questionnaire can be further linked to define qualitative scoring model.



- 1. On Homescreen, click Core Maintenance, under Core Maintenance, click Credit Decision.
- 2. Under Credit Decision, click Maintenance, under Maintenance, click Questionnaire, under Questionnaire, click Create Questionnaire.
 - → The Create Questionnaire screen displays.

Figure 225 : Create Questionnaire



3. Specify the fields on Create Questionnaire screen.

The fields, which are marked with asterisk, are mandatory. For more information on fields, refer to the field description table below.

Table 209 : 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.



Field	Description
Select Type	Select the type of response option from the drop-down list.
	The options are:
	Single Select
	Multi Select
	• Input
	• Date
Select Sub-Type	Select the sub-type from the drop-down list.
	The options are:
	Yes/No
	• Checkbox
	Rapid Button
	• Dropdown
Short Name	Specify the short name of the question. This will be displayed in the execution summary.
Answer Code	Displays the answer code.
Answer Option	Specify all the expected response for the question configured.
Add	Click to add the expected response to the question.
Update	Click Update to edit the response.
Remove	Click to remove the response.
Required	By default, this option is enabled. Indicates whether the question is mandatory or optional.
Done	Click to save the data.
Preview	Click Preview to view the questions configured for the questionnaire along with the response choice.
•	Click to view the responses configured for the questionnaire.
:::	Click to move the position of the questions.
. •	Click to expand, copy, or remove question.



Field	Description
Сору	Click to copy the question.
Remove Question	Click to remove the question.
Add Question	Click to add another question.

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

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



4.14.2 View Questionnaire

The **View Questionnaire** screen allows user to 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**.

- 1. On Homescreen, click Core Maintenance, under Core Maintenance, click Credit Decision.
- 2. Under Credit Decision, click Maintenance, under Maintenance, click Questionnaire, under Questionnaire, click View Questionnaire.
 - → The View Questionnaire screen displays.

Figure 226: View Questionnaire



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

Table 210: View Borrowing Capacity - Field Description.

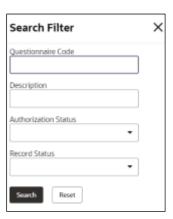
Field	Description
Questionnaire Code	Displays the questionnaire code.
Questionnaire Description	Displays the questionnaire description.
Product Processor Code	Displays the product processor code for which the questionnaire is created.
Modification Number	Displays the number of modifications performed on the record.

3. On **View Questionnaire** screen, click icor

→ The View Questionnaire - Search screen displays.



Figure 227: View Questionnaire - Search



4. On **View Questionnaire – Search** screen, Specify the **Search Filter** to fetch the required questionnaire.

Table 211: View Questionnaire - Search Filter - Field Description

Field	Description
Questionnaire Code	Specify the questionnaire code.
Questionnaire Description	Specify the questionnaire description.
Authorization Status	Select the authorization status of the questionnaire.
	The options are:
	Authorized
	Rejected
	Unauthorized
Record Status	Select the record status of the questionnaire.
	The options are:
	• Open
	Closed

- 5. Click **Search** to display the required questionnaire.
- 6. On View Questionnaire screen, click icon to Unlock, Delete, Authorize, or View the created questionnaire.
- 7. Click **Unlock** to modify the created questionnaire.
 - → The Questionnaire Maintenance Modify screen displays.



Figure 228 : Questionnaire Maintenance - Modify



Table 212: Questionnaire Maintenance – Modify – Field Description

Field	Description
Basic Details	
Questionnaire Code	Displays the questionnaire code.
Questionnaire Description	Displays the questionnaire description.
Description	User can modify the description.
Product Processor	Displays the product processor for the created questionnaire.
Category	Displays the category of the created questionnaire.
	User can modify the category.
Preview	Click to view the questions configured for the questionnaire along with the response choice.
	Click to expand, copy, or remove question.
:::	Click to move the position of the questions.
L J	Click to see the question details.
The following fields are displayed once you click this icon.	
Question Code	Displays the question code for the created questionnaire.



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

- 8. Click **Save** to update the modified fields.
- 9. Click **View** to view the created questionnaire.
 - → The Questionnaire Maintenance View screen displays.

Figure 229 : Questionnaire Maintenance - View



Table 213 : Questionnaire Maintenance - View - Field Description.

Field	Description
Basic Details	
Eligibility Code	Displays the eligibility code for the created questionnaire.
Eligibility Description	Displays the description for the created questionnaire.



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



4.15 Counter

In many scenarios, charges are levied based on the number of transactions like ATM Transaction, Branch Cash Withdrawal etc. System should be able to give charge benefit based on the count of transaction.

To support the charge based on count, PDS will be enhanced where the Count of transaction will be maintained for an event which later can be used to give relationship pricing

This section contains the following subsections:

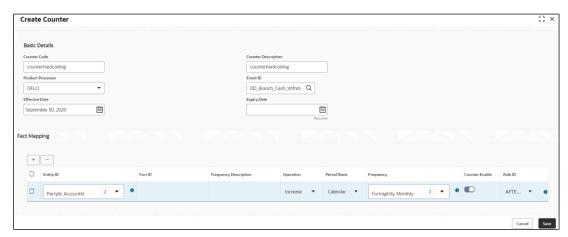
- 4.15.1 Create Counter
- 4.15.2 View Counter

4.15.1 Create Counter

The Create Counter screen allows the user to create parameters by updating various details.

- 1. On Homescreen, click Core Maintenance, under Core Maintenance, click Credit Decision.
- 2. Under Credit Decision, click Maintenance, under Maintenance, click Counter, under Counter, click Create Counter.
 - → The Create Counter screen displays.

Figure 230 : Create Counter



3. Specify the fields on Create Counter screen.

The fields, which are mentioned as required, are mandatory. For more information on fields, refer to the field description table below.

Table 214: Create Counter - Field Description

Field	Description
Basic Details	
Counter Code	Specify the unique code for the counter.



Field	Description
Counter Description	Specify a short description for the code.
Product Processor	Select the product processor from the drop-down list for which code is being created.
Event ID	Click on click on icon and select the id from the list.
Below fields appears of	once you click once
Code	Displays the event code.
Description	Displays the description for the code.
Effective Date	Specify the effective date.
Expiry Date	Specify the expiry date.
Fact Mapping	
Entity ID	Select the options from the drop-down list.
	The options are:
	Partyld
	AccountId
	CollateralId
3	Displays the number of entity id's selected.
0	Click this icon to get the information about the rule.
Fact ID	Specify the fact id for the selected entity.
Frequency Description	Specify the description of the fact id.
Operation	Select the value from the drop-down list.
	The options are:
	Increase
	Decrease



Field	Description
Period Basis	Select from the drop-down list.
	The options are:
	Calendar
	Anniversary
Frequency	Select the value from the drop-down list.
	The options are:
	• Daily
	Weekly
	Monthly
	Quarterly
	Half yearly
	Yearly
3	Displays the number of frequencies selected.
0	Click this icon to get the information about the rule.
Counter Enable	Click the toggle status to enable the counter.
Rule ID	Select the rule Id from the drop-down list.
0	Click this icon to get the information about the rule.

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

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



4.15.2 View Counter

The **View Counter** screen allows user to view the counter created using the **Create Counter** screen. The status of the created system parameter is displayed as **Unauthorized** and **Open**. Once the checker authorizes the parameter, the status is updated to **Authorized** and **Open**.

- 1. On Homescreen, click Core Maintenance, under Core Maintenance, click Credit Decision.
- 2. Under Credit Decision, click **Maintenance**, under **Maintenance**, click **Counter**, under **Counter**, click **View Counter**.
 - → The View System Counter screen displays.

Figure 231: View Counter



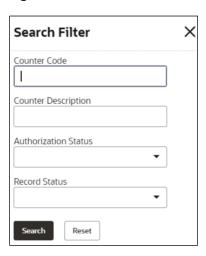
Table 215: View System Parameter - Field Description

Field	Description
Counter Code	Displays the counter code.
Counter Description	Displays the description of the counter code.
Product Processor	Displays the product processor of the counter.
Status	Displays the status of the record.
Modification Number	Displays the number of modifications performed on the record.

- 3. On **View Counter** screen, click icon.
 - → The View Counter Search screen displays.



Figure 232 : View Counter - Search



4. On View Counter - Search screen, Specify the Search Filter to fetch the required counter.

Table 216: View Counter - Field Description

Field	Description
Counter Code	Specify the counter code.
Counter Description	Specify the counter description.
Authorization Status	Select the authorisation status of the parameters.
	The options are:
	Authorized
	Rejected
	Unauthorized
Record Status	Select the record status of the parameters.
	The options are:
	Open
	Closed

- 5. Click **Search** to display the required created counter.
- 6. On **View Counter** screen, click icon to **Unlock**, **Delete**, **Authorize**, or **View** the created counter.
- 7. Click **Unlock** to modify the created counter.
 - → The Counter Maintenance Modify screen displays.



Figure 233 : Counter Maintenance - Modify



Table 217: Counter Maintenance - Modify - Field Description

Field	Description
Basic Details	
Counter Code	Displays the created counter code.
Counter Description	Displays the Counter Description.
Description	User can modify the same.
Product Processor	Displays the product processor of the created Counter code.
Effective Date	Displays the effective date of the created counter.
	User can modify the same before authorization if it is future dated.
Expiry Date	Displays the expiry date of the created counter.
	User can modify the same.
Fact Mapping	
Entity ID	Displays the Entity IDs selected for created counter.
	User can modify the same.
3	Displays the number of IDs selected.
0	Click to get the information about the rule.
Fact ID	Displays the Fact IDs selected for created counter
	User can modify the same.



Field	Description
Frequency	Displays the frequency description for the created counter.
Description	User can modify the same
Operation	Displays the frequency for the created counter.
	User can modify the same.
Period Basis	Displays the period basis selected.
Frequency	Displays the frequency for the created counter.
	User can modify the same.
3	Displays the number of frequencies selected.
0	Click to get the information about the rule.
Rule ID	Displays the Rule ID for selected for the created Counter.
0	Click to get the information about the rule.

- 8. Click **Save** to update the modified fields.
- 9. Click View to view the created counter.
 - → The Counter Maintenance View screen displays.

Figure 234 : Counter Maintenance - View





Table 218 : Counter Maintenance - View - Field Description

Field	Description
Basic Details	
Counter Code	Displays the created counter code.
Counter Description	Displays the created counter description.
Product Processor	Displays the product processor of the created counter.
Event ID	Displays the ID for the created counter.
Effective Date	Displays the effective date for the created counter.
Expiry Date	Displays the expiry date for the created counter.
Fact Mapping	
Entity ID	Displays the entity ids for the created counter.
3	Displays the number of the IDs selected.
0	Click to get the information about the rule.
Fact ID	Displays the fact IDs for the created counter.
Frequency Description	Displays the frequency description of the created counter.
Operation	Displays the operation for the created counter.
Period Basis	Displays the period basis.
Frequency	Displays the frequencies selected for the created counter.
3	Displays the number for frequencies selected.
0	Click to get the information about the rule.
Rule ID	Displays the rule ID for the created counter.
0	Click to get the information about the rule.



4.16 Charge Code

Fee definition can be simple like fixed amount or fixed percentage but can be complex which is based on various attributes like customer segment, count of transaction, amount of transaction etc.

This section contains the following subsections:

- 4.16.1 Create Charge Code
- 4.16.2 View Charge Code

4.16.1 Create Charge Code

The Create Charge Code screen allows the user to create definitions by updating various details.

- 1. On Homescreen, click Core Maintenance, under Core Maintenance, click Credit Decision.
- Under Credit Decision, click Maintenance, under Maintenance, click Charge Code, under Charge Code, click Create Charge Code.
 - → The Create Charge Code screen displays.

Figure 235 : Create Charge Code



3. Specify the fields on Create Charge Code screen.

The fields, which are mentioned as required, are mandatory. For more information on fields, refer to the field description table below.

Table 219: Create Charge Code - Field Description

Field	Description
Basic Details	



Field	Description
Advance Charging	Click the toggle status to enable the parameter. Indicates the definition is for advance or simple.
	By default, the status will be off.
Charge Code	Specify the unique code for the charge.
Charge Description	Specify a short description for the charge code.
Product processor Code	Select the product processor from the drop-down list for which the charge is being created.
Product Processor Description	Displays the description of the product processor code defined.
Effective Date	Specify the effective date.
Expiry Date	Specify the expiry date.
Charging Currency	Select the currency from the drop-down list.
Rate Code	Click on search and select from the list.
Rate Type	Select the rate type from the drop-down list.
	The options are:
	• Buy
	• Sell
	• Mid
Per Annum Basis	Select the days from the drop-down list.
(Days)	The options are:
	• 360
	• 365
	• 366
Charge In Txn Currency	Click the toggle status to enable this parameter. Indicates the charge is to be charged of fee currency or transaction currency.
	By default, the status will be off.
Charge Computation Details	



Field	Description
Charge Type	Select the type from the drop-down list.
	The options are:
	Fixed Amount
	Fixed Percentage
	• Tiered
Charge Amount	Specify the amount for the charge type.
	This field is visible if the Charge Type is selected as Fixed Amount .
Percentage (%)	Specify the percentage for the charge type.
	This field is visible if the Charge Type is selected as Fixed Percentage .
Minimum Amount	Specify the minimum amount to be charged.
	This field will not be visible if the Charge Type is selected as Fixed Amount .
Maximum Amount	Specify the maximum amount to be charged.
	This field will not be visible if the Charge Type is selected as Fixed Amount .
Tiered Charge Type	Select the tiered charge type from the drop-down list.
	The Options are:
	• Amount
	Percentage
	Amount or Percentage
	This field is visible if the Charge Type is selected as Tiered .
	The below option appears if the Advance Charging is enabled.
	• Rule
	Amount or Rule
	Percentage or Rule



Field	Description
Tier Type	Select from tier type the drop-down list.
	The options are:
	Cumulative
	Slab
	This field is visible if the Charge Type is selected as Tiered.
Charge Per Count	Click on toggle status to enable the parameter.
	This field is visible if the Charge Type is selected as Tiered and Tier Charge Type as Amount , Amount or Rule , and Rule .
Tier Criteria	Select the tier criteria from the drop-down list.
	The options are:
	Amount
	Period
	Amount or Period
	The system will not allow use to select the above options if the Tier Type is selected as Slab
+ button	Click to add a new row.
- button	Click to delete the row.
Amount / Period / Amount or Period -	Specify the start value of the count range.
From	This field is visible only if the Charge Type is selected as Tiered .
Amount / Period / Amount or Period - To	Specify the final value of the count range.
Amount of Period - To	This field is visible only if the Charge Type is selected as Tiered .
Amount	Specify the amount.
	This field is visible only if the Charge Type is selected as Tiered and Tiered Charge Type as Amount .
Percentage	Specify the charge percentage.
	This field is visible only if the Charge Type is selected as Tiered and Tiered Charge Type as Percentage .
Output Option	Select the option from which the output must be displayed.
	This field is visible only if the Charge Type is selected as Tiered and Tiered Charge Type as Amount or Percentage.



Field	Description
Output	Specify the output.
	This field is visible only if the Charge Type is selected as Tiered and Tiered Charge Type as Amount or Percentage .
Basis of	Select from the drop-down list.
	This field is visible only if Charge Type is selected as Tiered and Advance Charging is enabled.
Rule	Toggle to enable if the rule is applicable.
	This field is visible only if the Advance charging and Rule is enabled and Charge Type is selected as Fixed Amount or Fixed Percentage .
Rule ID	Select the rule from the drop-down list.
	This filed is visible if the Advance Charging and Rule is enabled.
0	Click this icon to get the information about the rule.

Toggle the **Advance Charging** to link the list of features. This Feature is visible if the **Charge Type** is selected as **Tiered**.

- 4. Click + Add/Edit column to select and link the facts.
 - → The **Add columns** popup screen displays.

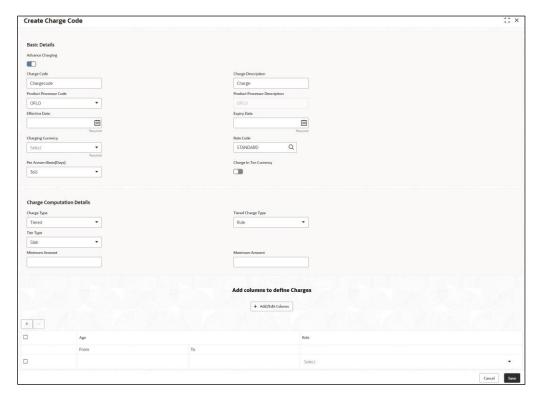
Figure 206: Add Columns



- 5. Select the facts names from the list. ('n' number of facts can be selected)
- 6. Click **Save** to link the features for defining the tiered charge type.
 - → The Create Charge Code Definition Tiered screen displays.



Figure 207: Create Charge Code Definition - Tiered



Field	Description
<numeric Feature>From</numeric 	Specify the minimum numeric value of the facts selected.
<numeric feature="">To</numeric>	Specify the maximum numeric value of the facts selected.
<numeric Feature>Value</numeric 	Specify the value of the facts selected.

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

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



4.16.2 View Charge Code

The **View Charge Code** screen allows user to view the code definition created using the **Create Charge Code** screen. The status of the created system parameter is displayed as **Unauthorized** and **Open**. Once the checker authorizes the parameter, the status is updated to **Authorized** and **Open**.

- 1. On Homescreen, click Core Maintenance, under Core Maintenance, click Credit Decision.
- Under Credit Decision, click Maintenance. Under Maintenance, click Charge Code, under Charge Code, click View Charge Code.
 - → The View Charge Code screen displays.

Figure 236 : View Charge Code



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

Table 220: View Charge Code - Field Description

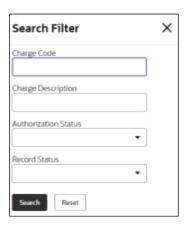
Field	Description
Charge Code	Displays the charge code.
Charge Code Description	Displays the description of the charge code.
Product Processor Code	Displays the product processor of the charge code.
Charging Currency	Displays the currency of the charge code.
Status	Displays the status of the record.
Modification Number	Displays the number of modifications performed on the record.



→ The View Charge Code - Search screen displays.



Figure 237 : View Charge Code - Search



4. On **View Charge Code – Search** screen, Specify the **Search Filter** to fetch the required charge code.

Table 221: View Charge Code - Search Filter - Field Description

Field	Description
Charge Code	Specify the charge code.
Charge Code Description	Specify the short description for the charge code.
Authorization Status	Select the authorisation status of the parameters.
	The options are:
	Authorized
	Rejected
	Unauthorized
Record Status	Select the record status of the parameters.
	The options are:
	Open
	Closed

- 5. Click **Search** to display the required charge code definition.
- 6. On View Charge Code screen, click icon to Unlock, Delete, Authorize, or View the created charge code.
- 7. Click **Unlock** to modify the created charge code.
 - → The Charge Code Maintenance Modify screen displays.



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Figure 238 : Charge Code Maintenance - Modify

Table 222: Charge Code Maintenance - Modify - Field Description

Field	Description
Basic Details	
Charge Code	Displays the created charge code.
Charge Description	Displays the description for the created charge code.
	User can modify the same.
Product Processor Code	Displays the product processor of the created charge code.
Product Processor Description	Displays the product processor of the created charge code.
Effective Date	Displays the effective date for the created charge code.
	User can modify the same if the date is future dated.
Expiry Date	Displays the expiry date for the created charge code.
	User can modify the same.
Charging Currency	Displays the type of the currency.
	User can modify the same.



Field	Description
Rate Code	Displays the rate code for the created charge code.
	User can modify the same.
Rate Type	Displays the rate type for the create charge code.
	User can modify the same.
Per Annum Basis	Displays the numbers of the days for the created code.
(Days)	User can modify the same.
Charge in Txn	Displays the toggle status for the created charge code.
Currency	User can modify the same.
Charge Computation D	etails
Charge Type	Displays the type for the created charge code.
	User can modify the same.
Charge Amount	Displays the amount for the created charge code.
	User can modify the same.
	This field is displayed if the Charge Type is selected as Fixed Amount.
Percentage (%)	Displays the percentage for the created charge code.
	User can modify the same.
	This field is displayed if the Charge Type is selected as Fixed Percentage.
Minimum Amount	Displays the minimum amount.
	User can modify the same.
	This field will be displayed if the Charge Type is selected as Fixed Percentage or Tiered and Tier Charge Type as Percentage or Amount or Percentage .
Maximum Amount	Displays the maximum amount.
	User can modify the same.
	This field will be displayed if the Charge Type is selected as Fixed Percentage or Tiered and Tier Charge Type as Percentage or Amount or Percentage .
Tiered Charge Type	Displays the charge type for the created charge code.
	User can modify the same.
	This field is displayed if the Charge Type is selected as Tiered.



Field	Description
Tier Type	Displays the tier type for the created charge code.
	User can modify the same.
	This field is displayed if the Charge Type is selected as Tiered.
Charge Per Count	Displays the toggle status for the created charge code.
	User can modify the same.
	This field is displayed if the Charge Type is selected as Tiered and Tier Charge Type as Amount , Amount or Rule , or Rule .
Tier Criteria	Displays the tier criteria for the created charge code.
	User can modify the same.
	This field is displayed if the Charge Type is selected as Tiered.
+ button	Click to add a new row.
- button	Click to delete the row.
Amount / Period / Amount or Period -	Displays the start value of the count range.
From	User can modify the same.
	This field is visible only if the Charge Type is selected as Tiered .
Amount / Period / Amount or Period -To	Displays the final value of the count range.
Amount of Feriod -10	User can modify the same.
	This field is visible only if the Charge Type is selected as Tiered .
Amount	Displays the charge amount.
	User can modify the same.
	This field is visible only if the Charge Type is selected as Tiered and Tiered Charge Type as Amount .
Percentage	Displays the charge percentage.
	User can modify the same.
	This field is visible only if the Charge Type is selected as Tiered and Tiered Charge Type as Percentage .
Output Option	Displays the output option selected.
	User can modify the same.
	This field is visible only if the Charge Type is selected as Tiered and Tiered Charge Type as Amount or Percentage .



Field	Description
Output	Displays the output.
	This field is visible only if the Charge Type is selected as Tiered and Tiered Charge Type as Amount or Percentage .
Basis of	Displays the basis of selected from the drop-down list.
	User can modify the same.
	This field is visible only if Charge Type is selected as Tiered and Advance Charging is enabled.
Rule ID	Displays the rule selected.
0	Click this icon to get the information about the rule.

- 8. Click **Save** to update the modified fields.
- 9. Click **View** to view the created charge code definition.
 - → The Charge Code Maintenance View screen displays.

Figure 239 : Charge Code Maintenance - View





Table 223 : Charge Code Maintenance - View - Field Description

Field	Description
Basic Details	
Charge Code	Displays the created charge code.
Charge Description	Displays the description for the created charge code.
Product Processor Code	Displays the product processor of the created charge code.
Product Processor Description	Displays the product processor of the created charge code.
Effective Date	Displays the effective date for the created charge code.
Expiry Date	Displays the expiry date for the created charge code.
Charging Currency	Displays the type of the currency.
Rate Code	Displays the rate code for the created charge code.
Rate Type	Displays the rate type for the create charge code.
Per Annum Basis (Days)	Displays the numbers of the days for the created code.
Charge in Txn Currency	Displays the toggle status for the created charge code.
Charge Computation I	Details
Charge Type	Displays the type for the created charge code.
Charge Amount	Displays the amount for the created charge code.
	This field is displayed if the Charge Type is selected as Fixed Amount.
Percentage (%)	Displays the percentage for the created charge code.
	This field is displayed if the Charge Type is selected as Fixed Percentage.
Minimum Amount	Displays the minimum amount.
	This field will be displayed if the Charge Type is selected as Fixed Percentage or Tiered and Tier Charge Type as Percentage or Amount or Percentage .
Maximum Amount	Displays the maximum amount.
	This field will be displayed if the Charge Type is selected as Fixed Percentage or Tiered and Tier Charge Type as Percentage or Amount or Percentage .



Field	Description
Tiered Charge Type	Displays the charge type for the created charge code.
	This field is displayed if the Charge Type is selected as Tiered.
Tier Type	Displays the tier type for the created charge code.
	This field is displayed if the Charge Type is selected as Tiered.
Charge per Count	Displays the toggle status for the created charge code.
	This field is displayed if the Charge Type is selected as Tiered and Tier Charge Type as Amount , Amount or Rule , or Rule .
Tier Criteria	Displays the tier criteria for the created charge code.
	This field is displayed if the Charge Type is selected as Tiered.
Amount / Period / Amount or Period –	Displays the start value of the count range.
From	This field is visible only if the Charge Type is selected as Tiered .
Amount / Period / Amount or Period -	Displays the final value of the count range
To Period -	This field is visible only if the Charge Type is selected as Tiered .
Amount	Displays the charge amount.
	This field is visible only if the Charge Type is selected as Tiered and Tiered Charge Type as Amount .
Percentage	Displays the charge percentage.
	This field is visible only if the Charge Type is selected as Tiered and Tiered Charge Type as Percentage .
Output Option	Displays the output option selected.
	This field is visible only if the Charge Type is selected as Tiered and Tiered Charge Type as Amount or Percentage .
Output	Displays the output.
	This field is visible only if the Charge Type is selected as Tiered and Tiered Charge Type as Amount or Percentage .
Basis of	Displays the basis of selected from the drop-down list.
	This field is visible only if Charge Type is selected as Tiered and Advance Charging is enabled.
Rule ID	Displays the rule selected.
0	Click this icon to get the information about the rule.



4.17 Execution Summary

Execution Summary screen enables the user to view the details of the processed application. Based on the request mode it displays details related to validation model, borrowing capacity, quantitative score, qualitative score, decision and grade details and pricing details. It also provides different type of filters to perform search for a specific record.

This section contains following subsection:

4.17.1 View Execution Summary

4.17.1 View Execution Summary

The **View Execution Summary** screen allows user to view the execution summary based on the various filter options provided.

- 1. On Homescreen, click Core Maintenance, under Core Maintenance, click Credit Decision.
- 2. Under Credit Decision, click Operations, under Operations, click Execution Summary.
 - → The Execution Summary screen displays.

Figure 240 : View Execution Summary



Table 224: Execution Summary - Field Description

Field	Description
Search Criteria	
+ button	Click to add a new row.
- button	Click to delete an existing row.



Field	Description
Filter	Select the required option based on which you can search for the execution summary.
	The options are:
	Request Reference Number
	Internal Reference Number
	Decision
	Batch/Online
	Product Processor
	Status
	Request Type
	Execution Date
	Contract ID
Value	Specify the required details or select an appropriate option for the selected filter option.
	This field 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 .

- 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.
- 4. Click **Reset** to reset the search criteria.



Figure 241: Execution Summary - Search



Table 225: Execution Summary - Search - Field Description

Field	Description	
Scoring Decision Summ	Scoring Decision Summary	
Product Processor	Displays the name of the product processor that sent the request.	
Request Type	Displays the request type sent by product processor.	
Contract ID	Displays the contract ID sent by the product processor.	
Request Reference Number	Displays the request reference number sent by product processor.	
Internal Reference Number	Displays the internal reference number of the application.	
Execution Date	Displays the execution date of the processing application.	
Mode	Displays the mode of execution of the application.	
Status	Displays the status of the processed application.	

- 5. 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, user 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.
- 6. When the status of processed application is **Failure**, on click of the 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 validation processing fails, then the status **Fail** is shown in the **Validation Model** widget and reason for failure is displayed on click of the widget.

Figure 242 View Execution Summary

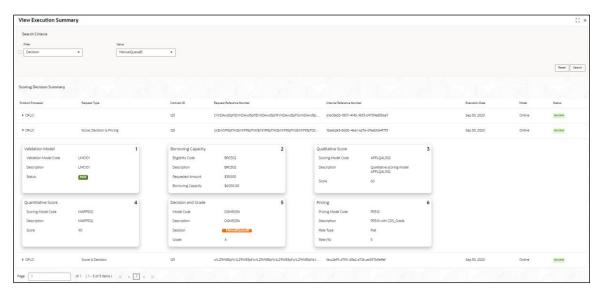


Table 226: View Execution Summary Field Description

Field	Description		
Validation Model Widget	Displays the status of the validation model processed.		
Validation Model Code	Validation Model Code		
Displays the validation m	Displays the validation model code, resolved for credit decision.		
The following fields appear in Validation Model widget.			
Description	Displays the validation model description, resolved for the credit decision.		
Status	Displays the status of the validation model processed.		
	For status Pass , the colour is shown as Green .		
	For status, Fail the colour is shown as Red.		
Borrowing Capacity Widget			
Displays the maximum lendable amount that can be given for an application.			
The following fields appear in Borrowing Capacity widget.			
Eligibility Code	Displays the eligibility model code, resolved for calculating the borrowing capacity.		



Field	Description
Description	Displays the eligibility model description, resolved for calculating the borrowing capacity.
Requested Amount	Displays the requested amount for the lending application.
Borrowing Capacity	Displays the maximum lendable amount that can be given for the application.
Qualitative Score Widg	et
Displays the qualitative of appear in Qualitative	credit score, post credit decision of the application. The following fields Score widget.
Scoring Model Code	Displays the scoring model code, resolved for credit decision.
	When Is Application Decision Required is Yes, the application level decision scoring code is displayed.
	When Is Application Decision Required is No, the applicant level decision scoring code is displayed.
	 When Is Application Decision Required is No, and Is Primary Applicant is No, the application level decision scoring code is displayed.
Description	Displays the scoring model description, resolved for credit decision.
Score	Displays the qualitative credit score post credit decision of the application.
	When Is Application Decision Required is Yes, the system performs the aggregation, which can be minimum, maximum or average of all applicant's score. The aggregation performed is defined as rules and linked at the application-level scoring model and this aggregated score is displayed.
	When Is Application Decision Required is No , the score is displayed by resolving the applicant level scoring model.
	When Is Application Decision Required is No, and Is Primary Applicant is No, the system performs the aggregation, which can be minimum, maximum or average of all applicant's score. The aggregation performed is defined as the application level seering model and this

Quantitative Score Widget

Displays the quantitative credit score post credit decision of the application. The following fields appear in **Quantitative Score** widget.

aggregated score is displayed.

rule and linked at the application-level scoring model and this



Field	Description
Scoring Model Code	Displays scoring model code, resolved for credit decision.
	When Is Application Decision Required is Yes, the application level decision scoring code is displayed.
	When Is Application Decision Required is No, the applicant level decision scoring code is displayed.
	 When Is Application Decision Required is No, and Is Primary Applicant is No, the multi applicant level scoring code is displayed.
Description	Displays the scoring model description, resolved for credit decision.
Score	Displays the quantitative credit score, post credit decision of the application.
	When Is Application Decision Required is Yes, the system performs the aggregation, which can be minimum, maximum or average of all applicant's score. The aggregation performed is defined as rules and linked at the application-level scoring model and this aggregated score is displayed.
	When Is Application Decision Required is No , the score is displayed by resolving the applicant level scoring model.
	When Is Application Decision Required is No, and Is Primary Applicant is No, score is displayed by resolving the multi applicant level scoring model.
Decision and Grade Wi	dget
Displays the credit decisi appear in Quantitative S	on and scoring grade, taken for the application. The following fields Score widget.
Model Code	Displays the model code, resolved for credit decision and grade.
Description	Displays the model description, resolved for credit decision and grade.
Decision	Displays the credit decision, taken for the application.
Grade	Displays the scoring grade, post credit decision of the application.
Pricing Widget	
Displays the rate applicable post credit decision. The following fields appear in Quantitative Score widget.	
Pricing Model Code	Displays the pricing model code, resolved for credit decision.
Description	Displays the pricing model description, resolved for credit decision.
Rate Type	Displays the rate type applicable post credit decision.
Rate %	Displays the rate applicable post credit decision.



The following fields are displayed once user click the **Validation Model** widget. The details for the request which was clicked on the landing page is displayed.

Figure 243: Validation Model Widget



Table 227: Validation Model Widget - Field Description

Field	Description
Internal Reference Number	Specify the internal reference number.
Product Processor	Displays the name of the product processor that sent the request.
	This field will be shown on click of each widget.
Request Type	Displays the request type sent by the product processor.
	This field will be shown on click of each widget.
Contract ID	Displays the contract ID sent by the product processor.
	This field will be shown on click of each widget.
Request Reference Number	Displays the request reference number sent by product processor.
	This field will be shown on click of each widget.
Internal Reference Number	Displays the internal reference number of the application.
Number	This field will be shown on click of each widget.
Execution Date	Displays the execution date of the processing application.
	This field will be shown on click of each widget.
Mode	Displays the mode of execution of the application.
	This field will be shown on click of each widget.
Status	Displays the status of the application.
	This field is shown on click of each widget.



Field	Description
The following fields appear once you click the Validation Model widget.	
<validation code="" model=""></validation>	Displays the validation model code that is resolved for credit decision.
	Click the hyper link to view the rule executed to resolve the model.
Show Rule Log	Click to see the rule log.
•	Click to expand the rule.
Expression	Displays the expression of the rule.
Input	Displays the input of the rule.
Value	Displays the value of the rule.
Description	Displays the description of the validation model.
Status	Displays the status of validation model.
Rule ID	Displays the rule ID executed for validation model processing.
	Click the hyperlink to view the rule executed.
Show Rule Log	Click to see the rule log.
•	Click to expand the rule.
Expression	Displays the expression of the rule.
Input	Displays the input of the rule.
Value	Displays the value of the rule.
Sequence	Displays the sequence in which the rules are executed for validation model processing.
Status	Displays the status of the rule execution. In case the status is failed, the reason for failure is displayed as Reason <> .
	The options are:
	 Pass Not Executed: This status is displayed against a rule if the Stop on Failure is set as ON and previous rule the sequence has failed.

The following fields are displayed once user click the **Borrowing Capacity** widget.



Figure 244 : Borrowing Capacity Widget



Table 228: Borrowing Capacity Widget - Field Description

Field	Description
The following fields appears in Borrowing Capacity widget.	
<eligibility code=""></eligibility>	Displays the eligibility code resolved for calculating the borrowing capacity.
	Click the hyperlink to view the rule executed to resolve the borrowing capacity.
Show Rule Log	Click to see the rule log.
•	Click to expand the rule.
Expression	Displays the expression of the rule.
Input	Displays the input of the rule.
Value	Displays the value of the rule.
Eligibility Description	Displays the eligibility description resolved for calculating the borrowing capacity.
Requested Amount	Displays the requested amount for the lending application.
Borrowing Capacity	Displays the maximum lendable amount that can be given for an application.
Fact	Displays the fact using which the maximum lendable amount was calculated.
Rule ID	Displays the rule ID executed for calculating the maximum lendable amount.
	Click the hyper link to view the rule executed.
Show Rule Log	Click to see the rule log.
•	Click to expand the rule.
Expression	Displays the expression of the rule.
Input	Displays the input of the rule.



Field	Description
Value	Displays the value of the rule.

The following fields are displayed once user click the **Qualitative Score** widget.



Figure 245 : Qualitative Score Widget – Bar Graph View

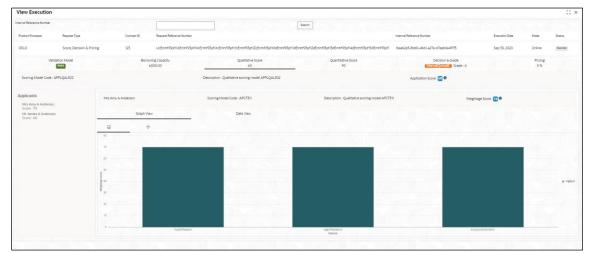


Figure 246 : Qualitative Score Widget - Pie Graph View

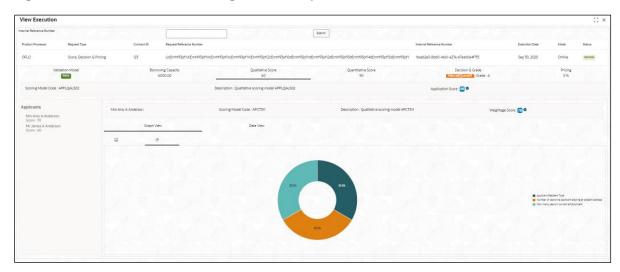


Figure 247 : Qualitative Score Widget - Data View



Table 229: Qualitative Score Widget - Field Description

Field	Description
The following fields appears in Qualitative Score widget.	



Field	Description
<scoring model<br="">Code></scoring>	 Displays the scoring model code resolved for credit decision. When Is Application Decision Required is Yes, the application level decision scoring code is displayed. When Is Application Decision Required is No, the applicant level decision scoring code is displayed. When Is Application Decision Required is No, and Is Primary Applicant is No, the application level scoring code is displayed.
Description	Displays the scoring model description resolved for credit decision.
Weightage Score/Application Score	 Displays the qualitative credit score post credit decision of the application. When Is Application Decision Required is Yes, the field name is displayed as Application Score. The system performs the aggregation, which can be minimum, maximum or average of all applicant's score. The aggregation performed is defined as rules and linked at the application-level scoring model and this aggregated score is displayed. When Is Application Decision Required is No, the field name is displayed as Weightage Score. The score is displayed by resolving the applicant level scoring model. When Is Application Decision Required is No, and Is Primary Applicant is No, the field name is displayed as Application Score. The system performs the aggregation, which can be minimum, maximum or average of all applicant's score. The aggregation performed is defined as rules and linked at the application-level scoring model and this aggregated score is displayed
•	Click to get the information about the formula for calculation of score.
Applicant details are sh	own at the left panel.
<applicant name=""></applicant>	Displays the applicant names present in the application.
<score></score>	Displays the weighted credit score post credit decision of the application. The score is calculated for each applicant by resolving the applicant level scoring model.
Below details are show	n at the right panel.
<applicant name=""></applicant>	Displays the applicant names present in the application.



Field	Description
Scoring Model Code	Displays the applicant level scoring model code resolved for credit decision.
Description	Displays the applicant scoring model description.
Weightage Score	Displays the weighted credit score post credit decision of the application.
0	Click to get the information about the formula for calculation of score.
Graph View	Two graphical views are available.
	Bar Graphs
	The details are shown as a graphical representation as bar charts.
	List of question ID on the X -axis
	o 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	Displays the question code resolved for the applicant in the scoring model.
Question	Displays the question description resolved for the applicant in the scoring model.
Value	Displays the response received for the question in the payload.
Score	Displays the score calculated for the question based on the range and the response.
	In case any question was optional for which the response was not received, NA will be displayed.

The following fields are displayed once user click the **Quantitative Score** widget.



Figure 248 : Quantitative Score Widget - Bar Graph View



Figure 249 : Quantitative Score Widget - Pie Graph View

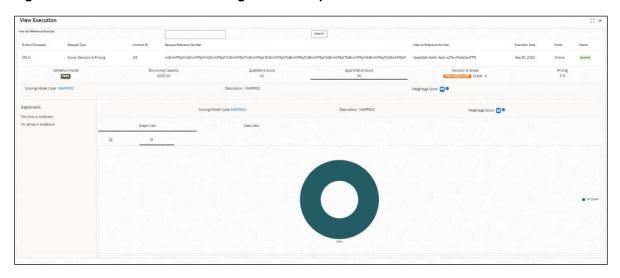


Figure 250 : Quantitative Score Widget - Data View



Table 230 : Quantitative Score Widget - Field Description

Field	Description
The following fields appears in Quantitative Score widget.	



Field	Description
<scoring model<br="">Code></scoring>	 Displays the scoring model code resolved for credit decision. When Is Application Decision Required is Yes, the application level decision scoring code is displayed. When Is Application Decision Required is No, the applicant level decision scoring code is displayed. When Is Application Decision Required is No, and Is Primary Applicant is No, the multi applicant level scoring code is displayed. Click the hyperlink to view the rule executed to resolve the quantitative score.
Show Rule Log	Click to see the rule log.
•	Click to expand the rule.
Expression	Displays the expression of the rule.
Input	Displays the input of the rule.
Value	Displays the value of the rule.
Description	Displays the scoring model description resolved for credit decision.
Weightage Score	 Displays the weightage score post credit decision of the application. When Is Application Decision Required is Yes, the system performs the aggregation, which can be minimum, maximum or average of all applicant's score. The aggregation performed is defined as rules and linked at the application level scoring model and this aggregated score is displayed. When Is Application Decision Required is No, the score is displayed by resolving the applicant level scoring model. When Is Application Decision Required is No, and Is Primary Applicant is No, the score is displayed by resolving multi applicant level scoring model. In case of Is Application Decision Required is Yes, system displays the hyperlink on the weightage score value. It shows the aggregate rule details.
Applicant details are sh	·
<applicant name=""></applicant>	Displays the applicant names present in the application.



Field	Description
<score></score>	Displays the weighted credit score post credit decision of the application.
	The score is calculated for each applicant by resolving the applicant level scoring model.
	In case of multi applicant scenario, weightage score per applicant is not shown.
Below details are show	n at the right panel.
<applicant name=""></applicant>	Displays the applicant names present in the application.
Scoring Model Code	Displays the applicant level scoring model code resolved for credit decision.
	Applicant level scoring model is applicable for below case.
	If Is Application Decision required is Yes
	If Is Application Decision Required is No, and Is Primary Applicant is Yes
	Multi applicant level scoring model is applicable in the below case.
	If Is Application Decision Required is No, and Is Primary Applicant is No
	Click the hyperlink to view the rule executed to resolve the quantitative score.
Show Rule Log	Click to see the rule log.
•	Click to expand the rule.
Expression	Displays the expression of the rule.
Input	Displays the input of the rule.
Value	Displays the value of the rule.
Description	Displays the applicant scoring model description.
Weightage Score	Displays the weighted credit score post credit decision of the application.
	The weightage score is calculated for each applicant by resolving the applicant scoring model.
	In case of multi applicant scoring model, for both the applicant the same score is shown since the score is not calculated per applicant.
0	Click 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	Displays the features resolved for the applicant in the scoring model.
	Click the hyperlink to view the rule executed to resolve the quantitative score.
Show Rule Log	Click to see the rule log.
•	Click to expand the rule.
Expression	Displays the expression of the rule.
Input	Displays the input of the rule.
Value	Displays the value of the rule.
Value	Displays the value of the feature.
Range Type	Displays the range type for the feature.
Range	Displays the range resolved for the feature value for score resolution.
Weightage %	Displays the weightage defined for the feature in the scoring model.
Score	Displays the score calculated for the feature based on the range and feature value.
Weightage Score	Displays the weighed credit score post credit decision of the application.



The following fields are displayed once user click the **Decision and Grade** widget.

Figure 251: Decision and Grade Widget



Table 231 : Decision and Grade Widget - Field Description

Field	Description					
The following fields appears in Decision and Grade widget.						
<model code=""></model>	Displays the model code resolved for credit decision and grade.					
	Click the hyper link to view the rule executed to resolve the decision and grade.					
Show Rule Log	Click to see the rule log.					
•	Click to expand the rule.					
Expression	Displays the expression of the rule.					
Input	Displays the input of the rule.					
Value	Displays the value of the rule.					
Model Description	Displays the model description resolved for credit decision and grade.					
Decision	Displays the credit decision taken for the application.					
Grade	Displays the scoring grade post credit decision of the application.					
Decision						
<feature name=""> Score</feature>	Displays the score calculated for the application based on the feature selected.					
	If the feature is rule based, system displays the hyper link.					
Show Rule Log	Click to see the rule log.					
•	Click to expand the rule.					
Expression	Displays the expression of the rule.					



Field	Description			
Input	Displays the input of the rule.			
Value	Displays the value of the rule.			
<feature name=""> Range</feature>	Displays the score resolved for the application based on the feature selected.			
Color Feature	Displays the color feature.			
Color Feature Range	Displays the color feature range.			
Decision	Displays the decision taken for the application.			
Rule ID	Displays the rule ID of the feature.			
	Click the hyperlink to view the rule executed.			
Show Rule Log	Click to see the rule log.			
•	Click to expand the rule.			
Expression	Displays the expression of the rule.			
Input	Displays the input of the rule.			
Value	Displays the value of the rule.			
Grade				
<feature name=""></feature>	Displays the score calculated for the application based on the feature selected.			
	If the feature is rule based, system displays the hyperlink.			
Show Rule Log	Click to see the rule log.			
•	Click to expand the rule.			
Expression	Displays the expression of the rule.			
Input	Displays the input of the rule.			
Value	Displays the value of the rule.			
<feature name=""> Range</feature>	Displays the score resolved for the application based on the feature selected.			
Grade	Displays the scoring grade taken for the application.			

The following fields are displayed once you click the **Pricing** widget.



Figure 252 : Pricing Widget



Table 232: Pricing Widget - Field Description

Field	Description				
The following fields appears in Pricing widget.					
<pricing code="" model=""></pricing>	Displays the pricing model code resolved for credit decision.				
Codes	Click the hyperlink to view the rule executed to resolve the pricing model.				
Show Rule Log	Click to see the rule log.				
•	Click to expand the rule.				
Expression	Displays the expression of the rule.				
Input	Displays the input of the rule.				
Value	Displays the value of the rule.				
Model Description	Displays the pricing model description resolved for credit decision.				
Rate Type	Displays the rate type applicable post credit decision.				
Rate Percentage	Displays the rate applicable post credit decision.				
Loan Amount	Displays the eligible loan amount for the application.				
Loan Tenure	Displays the loan tenure for the application.				
Loan Amount Range	Displays the range resolved for the loan amount value.				
Loan Tenure Range	Displays the range resolved for the loan tenure value.				
Rate %	Displays the rate applicable post credit decision.				





4.18 Integrating Decision Service with Oracle Banking Routing Hub

4.18.1 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.

- 1. On Homescreen, click Core Maintenance, under Core Maintenance, click Routing Hub.
- 2. Under Routing Hub, click Service Consumers.
 - → The **Service Consumers** screen displays.

Figure 253: Service Consumers



Figure 254: Oracle Banking Routing Hub Configuration

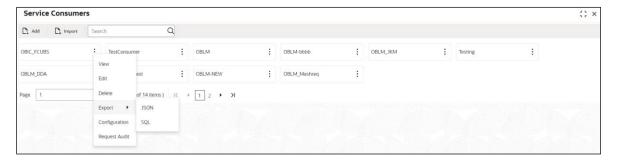


Table 233: Oracle Banking Routing Hub Configuration

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	ON menu option		Exports in JSON
SQL	menu option		Exports in SQL
Configuration	menu option	nenu option Pops up configuration	
Request Audit	menu option		Pops up request audit log

4.18.1.1 Add

User can create Service Consumer manually.

On Service Providers screen, click Add to create service providers.

Figure 255: Add

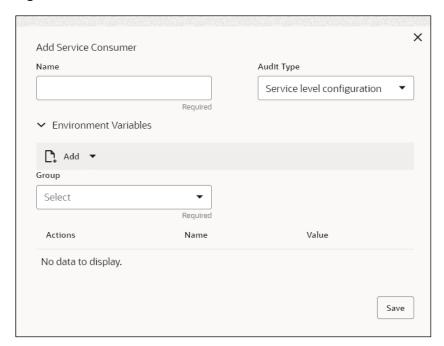




Table 234: Add

Component Name	Component Type	Is 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

4.18.1.1 Environment Variables

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

Below is the syntax for accessing environment variables:

 $\verb§env.Environment_Group_Name.Environment_Variable_Name$

such as: \$env.COMMON.BRANCH_CODE

Figure 256: Environment Variables

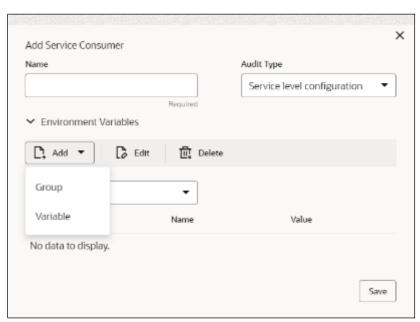




Figure 257: Environment Variables



Figure 258: Environment Variables



Table 235: 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	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.
OK	Button				Saves the group / variable and displays it in the list



4.18.1.2 Import

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

On Service Providers screen, click Import.

Figure 259: Import

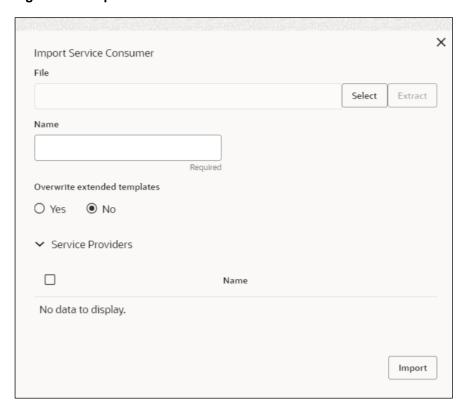


Table 236: Import

Compone nt Name	Compone nt Type	Is 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.



Compone nt Name	Compone nt Type	Is Mandator y	Data type	Validation	Conditio n	Comment s
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 	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:

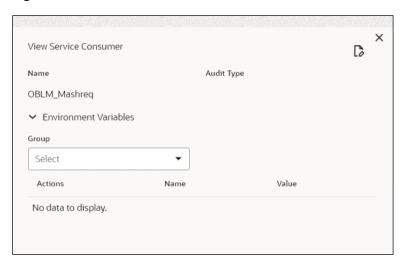
- Implementation Host and Port
- Implementation Authentication Password



4.18.1.3 View

User can view consumer details and can switch to edit form by clicking on edit icon. On **Service Providers** screen, click **Operation Menu (3-dot icon)**, and click **View**.

Figure 260: View

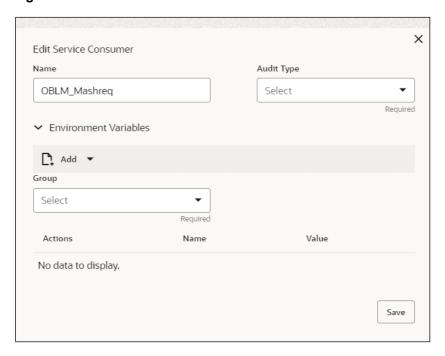


4.18.1.4 Edit

User can modify the consumer details.

On Service Providers screen, click Operation Menu (3-dot icon), and click Edit.

Figure 261: Edit



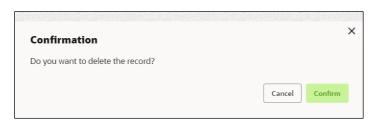


4.18.1.5 Delete

User can delete the consumer.

On Service Providers screen, click Operation Menu (3-dot icon), and click Delete.

Figure 262: Delete



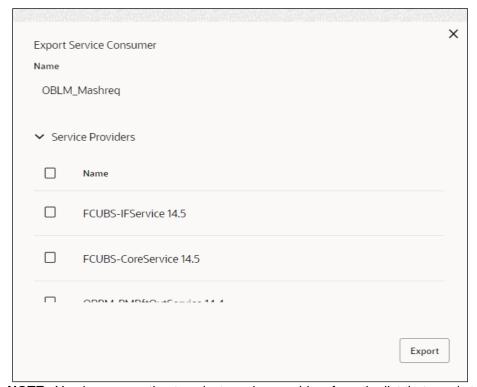
4.18.1.6 JSON Export

User can export the consumer configuration as JSON file.

On Service Providers screen, click Operation Menu (3-dot icon), and click Export.

and then, Click JSON.

Figure 263: JSON 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

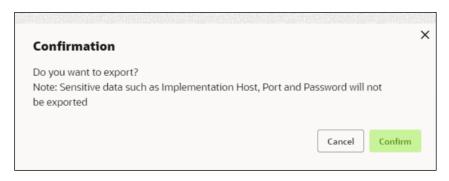
4.18.1.7 **SQL Export**

User can export the consumer configuration as SQL file.

On Service Providers screen, click Operation Menu (3-dot icon), and click Export.

and then, click SQL.

Figure 264: SQL Export



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

4.18.2 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.

- 1. On Homescreen, click Core Maintenance, under Core Maintenance, click Routing Hub.
- Under Routing Hub, click Service Consumers, under Service Consumers, click Service Providers.
 - → The Service Providers screen displays.

Figure 265: Service Providers





Figure 266: Service Providers



Table 237: 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	Navigation: Service Providers -> 3 dot icon (operation menu)				
View	menu option	Non- editable	Pops up view dialog		
Edit	menu option		Pops up edit dialog		
Delete	menu option				
Export	menu option		Exports in JSON		
Request Audit	menu option		Pops up request audit log		



4.18.2.1 Add

User can create service provider manually.

On **Service Providers** screen, click **Add** to create service providers.

Figure 267: Add

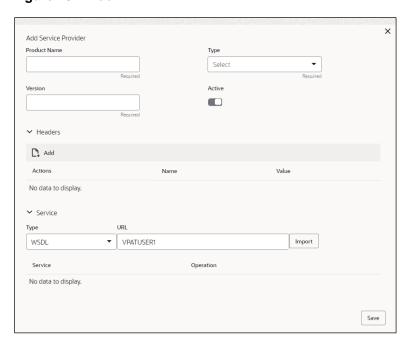


Table 238: Add

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



4.18.2.2 Headers

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

User can specify the headers which are required by service endpoints for its all implementations but not present in swagger file.

These headers can be configured in oracle banking routing hub using the steps given below.

Figure 268: Headers

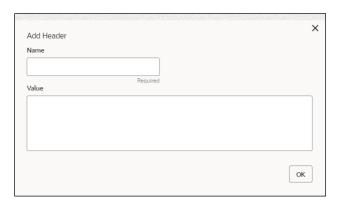


Figure 269: Headers

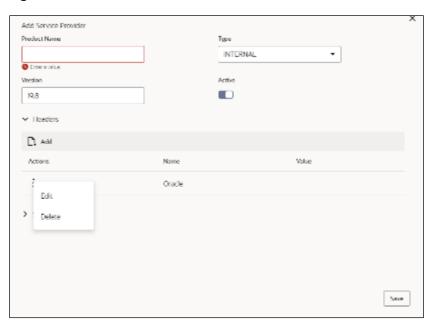


Table 239: Headers

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



Component Name	Component Type	Is Mandatory	Data type	Validation	Comments
Delete	menu option				Deletes header
Navigation: Se	ervice Providers	s -> 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



4.18.2.3 Service

Figure 270: Service

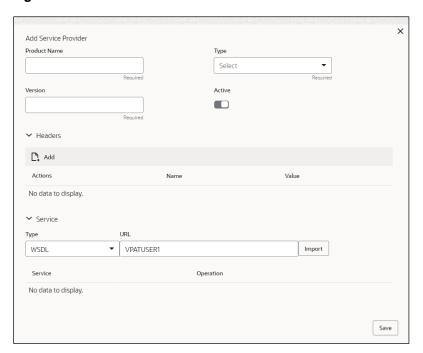


Table 240: Service

Component Name	Component Type	Is 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

4.18.2.4 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.



4.18.2.5 **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.

4.18.2.6 Import

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

On Service Providers screen, click Import.

Figure 271: Import



Table 241: Import

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

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

- Implementation Host and Port
- Implementation Authentication Password



4.18.2.7 View

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

On Service Providers screen, click Operation Menu (3-dot icon), and click View.

Figure 272: Oracle Banking Routing Hub Configuration



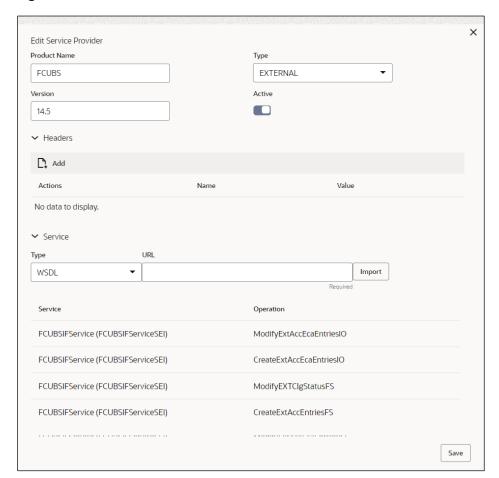
4.18.2.8 Edit

User can modify the provider details.

On Service Providers screen, click Operation Menu (3-dot icon), and click Edit.



Figure 273: Edit





4.18.2.9 Delete

User can delete the provider.

On Service Providers screen, click Operation Menu (3-dot icon), and click Delete.

Figure 274: Delete



4.18.2.10 Export

User can export the provider configuration as JSON file.

On Service Providers screen, click Operation Menu (3-dot icon), and click Export.

Figure 275: Export



NOTE: Below data is not be exported:

- Implementation Host
- Implementation Port
- Implementation Authentication Password

The above data needs to be configured manually after importing the configuration file.

Same has been mentioned in Import section



4.18.3 Oracle FLEXCUBE Onboarding to Decision Service Configuration

4.18.3.1 Fetch Credit Decision

Figure 276: Fetch credit decision - Header



Figure 277: Fetch credit decision - Transformation:





Figure 278: Consumer Services





5 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:

- 5.1 Toolkit
- 5.1.5 Operation
- 5.3 3P Service Integration

5.1 Toolkit

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

This section contains following subsections:

- 5.1.1 Use Case Definition
 - 5.1.1.1 Use Case Definition Summary
 - 5.1.1.2 Use Case Definition Maintenance
- 5.1.2 Annotator
- 5.1.2.1 Model Training
- 5.1.4 Model Management
 - 5.1.4.1 Model Management Summary
 - 5.1.4.2 Model Management Maintenance
- 5.1.5 Model Import and Export Maintenance
 - 5.1.5.1 Export Model
 - 5.1.5.2 Import Model

5.1.1 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.

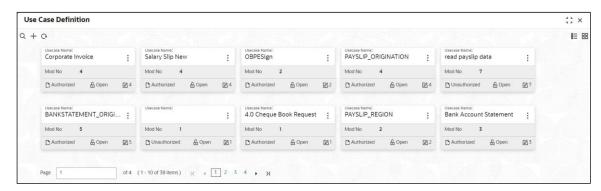


5.1.1.1 Use Case Definition Summary

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

- 1. From Home screen, click Machine Learning. Under Machine Learning, click NLP Toolkit.
- 2. Under NLP Toolkit, click Use Case Definition.
 - → The Use Case Definition screen is displayed.

Figure 279: Use Case Definition



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

Table 242: 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 or Rejected status
Record Status	Displays the status of the record.
Modification Number	Displays the number of modification performed on the record.



5.1.1.2 Use Case Definition Maintenance

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

Figure 280: Use Case Definition Maintenance



On **Tag Maintenance** screen, specify the fields. The fields marked as Required are mandatory. For more information on fields, refer to the field description table below.

Table 243: Tag Maintenance - Field Description

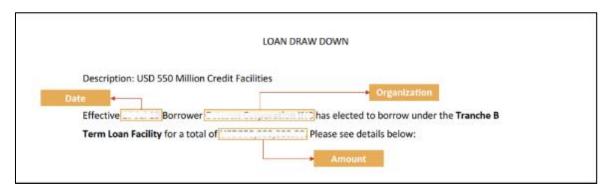
Field	Description
Use Case Name	Unique use case name. It gets populated on Save, from the last folder name from the "Training Corpus Path (DOC)"
Description	Use Case Description
Mod No	Automatic Modification Number
Straight Through Processing	yes = Unattended / No = Attended
Use Case Tags/Entities	Specifies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



5.1.2 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.

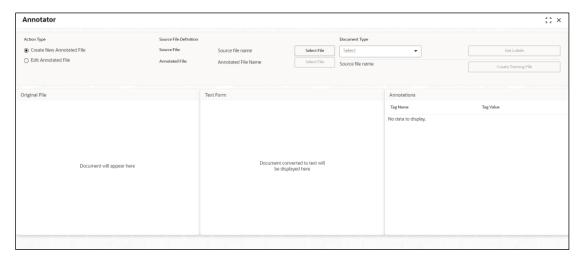
Figure 281: Annotator



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

- 1. From Home screen, click Machine Learning. Under Machine Learning, click NLP Toolkit.
- 2. Under NLP Toolkit, click Annotator.
 - → The **Annotator** screen is displayed.

Figure 282: Annotator





3. On **Annotator** screen, specify the fields. The fields marked as Required are mandatory. For more information on fields, refer to the field description table below.

Table 244: Annotator - Field Description

Field	Description		
Action Type	Select the action type. Available options are:		
	Create New Annotated File		
	Edit Created Annotated File		
Source File Definition	Select the source document from local windows explorer based on the Action Type .		
Document Type	Displays the list of all the use cases defined under the use case definition.		
Get Labels	For the selected Document Type, the maintained Tags/entities are displayed in the 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		

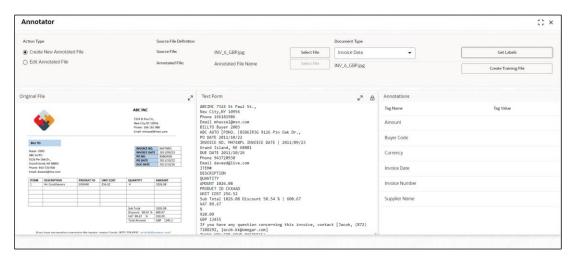
Follow the below mentioned steps to annotate the source files:

- 4. Select the Action Type as Create New Annotated File.
- 5. Select the **Document Type** from the dropdown list.
- 6. Click Select File button next to Source File field.
 - The **Windows Explorer** popup screen displays.
- 7. Navigate and select the source document to be annotated.
 - The **Original File** section displays the source document and the **Text Form** section displays the text version of the document.
- 8. Click Get Labels.

The **Annotations** section displays all the maintained tags for the selected Document Type.

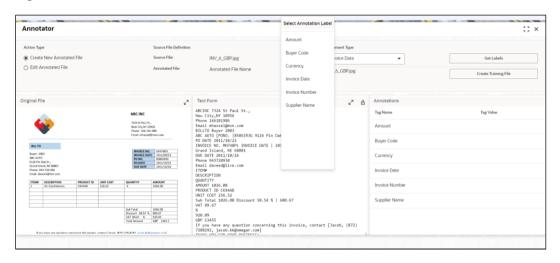


Figure 283: List of Tags



- 9. Identify and select the information within the **Text Form** section.
- 10. Right-click to display the list of tags.

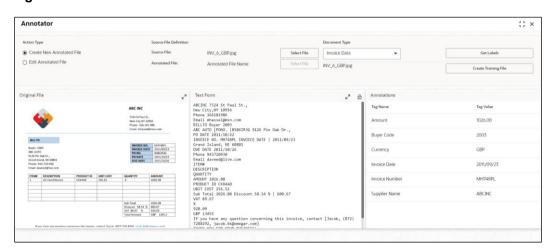
Figure 284: Select Annotation Label



11. Select the relevant tag.

The **Annotations** section displays the information under Tag Name and Tag Value.

Figure 285: Annotations





- 12. Repeat steps (9) to (11) for all the displayed tags as per availability of information in the source document.
- 13. Select a Tag Name from the **Annotations** section and Right-click to delete the Tag Value.
- 14. Once all the tags are assigned with the relevant information, click **Create Training File** to create the annotated file and end the process.



5.1.2.1 Edit Annotated File

The edit annotated file is a feature added Annotator screen to edit the annotations for the already created training files.

- 1. From Home screen, click Machine Learning. Under Machine Learning, click NLP Toolkit.
- 2. Under NLP Toolkit, click Annotator.
- 3. Select the Action Type as **Edit Annotated File**.
 - → The **Annotator** screen is displayed.

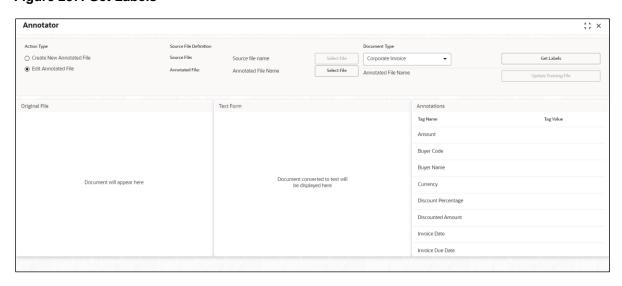
Figure 286: Annotator



4. Select the **Document type** from the drop down and click **Get labels.**

The **Annotations** section displays all the maintained tags for the selected Document Type.

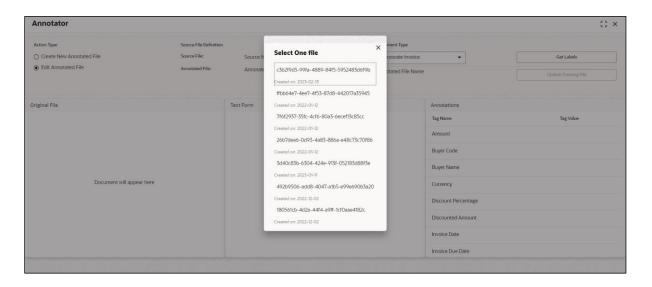
Figure 287: Get Labels



5. Click on Select file at Annotated File Name. Popup window will open with list of files.

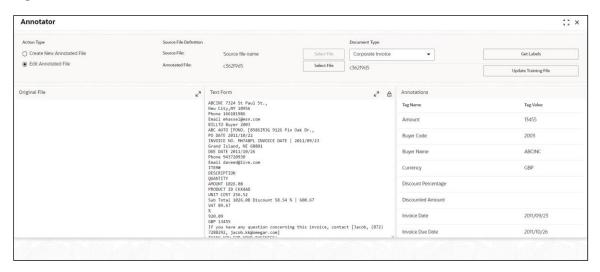
Figure 288: List of Files





6. Select any file, and it will be displayed on the screen.

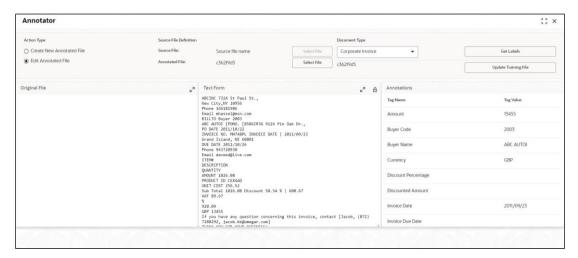
Figure 289: Text Form Preview



7. Identify and edit the information within the Text Form section.



Figure 290: Modified Text Form



8. Once all modifications have been completed, click Update Training File to save the existing annotated file and finish the process.



5.1.3 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 291: Model Training



Training NER Models:

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

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

Training Document Classifier Model:

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

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

The alternative is to add more annotated training files for the use case and repeat model training, till satisfactory parameters are achieved.



5.1.4 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:

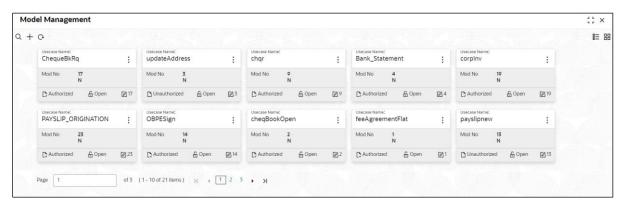
- 5.1.4.1 Model Management Summary
- 5.1.4.2 Model Management Maintenance

5.1.4.1 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 292: Model Management Summary



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

Table 245: 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 or Rejected.
Record Status	Displays the record status as Open or Closed.
Modification Number	Displays the number of modification performed on the record.



5.1.4.2 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 293: Model Management Maintenance



3. On **Model Management** screen, specify the fields. The fields marked as Required are mandatory. For more information on fields, refer to the field description table below.

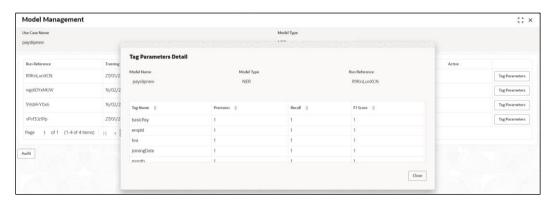
Table 246: Model Management Maintenance – Field Description

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 294: 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.



5.1.5 Model Import and Export Maintenance

Models can be moved from one environment to another environment using Model import and export. Using this functionality models can be trained in one environment and be used in another. To process this screen, perform the following steps:

- 1. From Home screen, click Machine Learning. Under Machine Learning, click NLP Toolkit.
- 2. Under NLP Toolkit, click Model Import Export
 - → The **Model Import Export** screen is displayed.

Figure 295: Model Import Export



5.1.5.1 Export Model

Use Export Model option on the screen for exporting a model. Model will be exported to a file. Use following steps for process:

 Select the Export Model section and the required Usecase and Run Reference on the Model Import Export screen.

Figure 296: Export Model



2. Click on the **Export Model** button and Model file will be downloaded.

Please note down the Model Import Code as it is required while importing model.



Figure 297: Export Model with Model Import Code

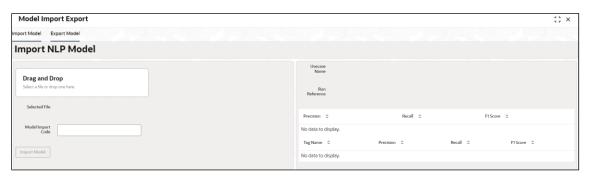


5.1.5.2 Import Model

Use Import Model option on the screen for importing a model. Model will be imported using model file created while exporting model. Use following steps for process.

1. On the Model Import Export screen select the Import Model section.

Figure 298: Import Model



- 2. Click on Drag and Drop option and select the export model to be uploaded.
- 3. Specify the Model Import code.
- 4. Click **Import Model** button to successfully upload the model.

Figure 299: Import Model Successful





5.2 Operation

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

This section contains following subsections:

- 5.2.1 Document Upload
- 5.2.2 Transaction Log

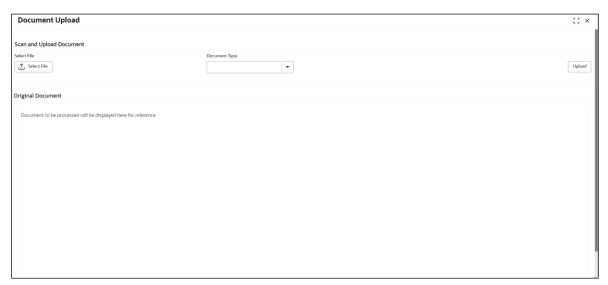
5.2.1 Document Upload

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:

- 5. From Home screen, click Machine Learning. Under Machine Learning, click Operation.
- 6. Under Operation, click Document Upload.
 - → The **Document Upload** screen is displayed.

Figure 300: Document Upload



- 7. Click **Select File** to select the source document.
- 8. Chose the Document Type from the pick list.
- 9. Click **Upload** to initiate business process.



5.2.2 Transaction Log

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

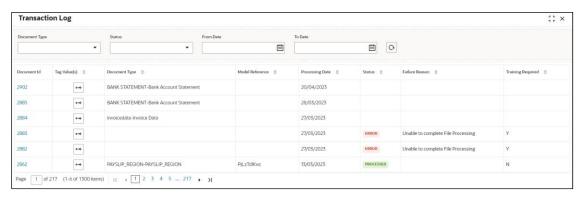
You can filter the displayed transactions based on the following:

- Document Type
- Status

To process this screen, perform the following steps:

- 1. From Home screen, click Machine Learning. Under Machine Learning, click Operation.
- 2. Under Operation, click Transaction Log.
 - → The **Transaction Log** screen is displayed.

Figure 301: Transaction Log



On Transaction Log screen, specify the fields. For more information on fields, refer to the field description table below.

Table 247: Transaction Log - Field Description

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

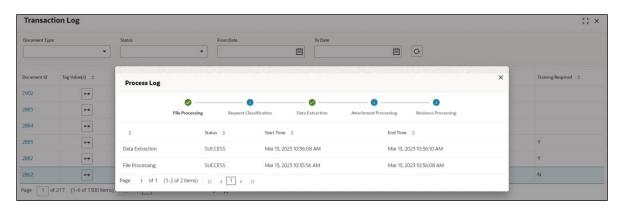


Field	Description
Failure Reason	Displays the reason for failed status.
Train. Reqd	Displays train required status.
Tag Values	Displays the tag values for the processed transactions and allow the correction for transactions with errors.

Execution Flow

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

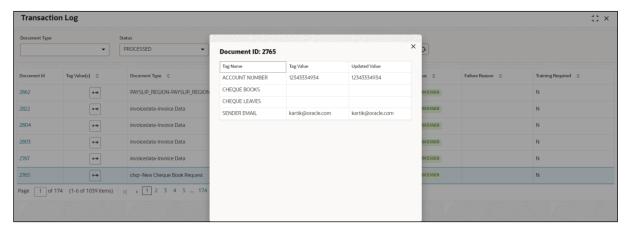
Figure 302: Execution Flow



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 303: Processed Status

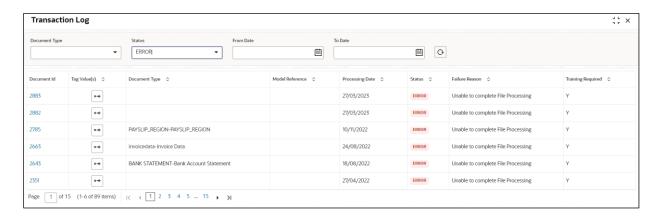


Error Status

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

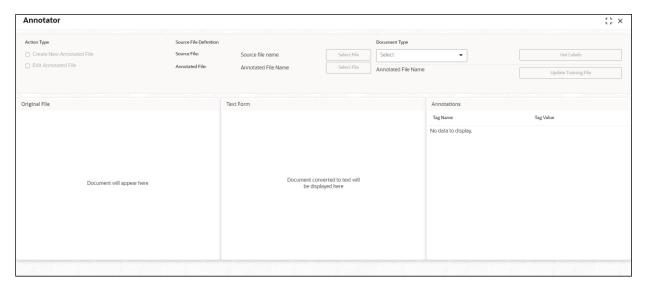
Figure 304: Error Status





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 305: Annotator





5.3 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 the following topics:

- 5.3.1 Classification Training Service
- 5.3.2 NER Training Service
- 5.3.3 Classification Processing Service
- 5.3.4 NER Processing Service
- 5.3.5 Service Mapping
- 5.3.6 Business Service Mapping

5.3.1 Classification Training Service

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

Input Payload

Table 248: 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"
```



5.3.2 NER Training Service

This section elaborates the payload details for NER model training service.

Input Payload

Table 249: 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 properties: name: type: string precision: type: number recall: type: number f1score: type: number



5.3.3 Classification Processing Service

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

Input Payload:

Table 250: 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

```
in: "formData"
type: string
required: true
- name: "file"
in: "formData"
type: file
required: true

Output Payload

{
  "data": {
  "docType": "string"
}
```

- name: "modelPath"

Output Payload data model definition

```
MltbNlpDTO:
type: object
properties:
data:
properties:
docType:
type: string
```



5.3.4 NER Processing Service

This section elaborates the payload details for NER model processing service

Input Payload:

Table 251: 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

5.3.5 Service Mapping

After creation of the model services, entries must be made into the table CMC_TM_ML_SERVICE_DEFN to enable the NLP framework to use these services.

Existing use case:

Update the highlighted column in table CMC_TM_ML_SERVICE_DEFN with the new service API.

Table 252: Existing Use Case

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	A	Α
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>



New use case

Insert a new record into the table CMC_TM_ML_SERVICE_DEFN.

Table 253: 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	<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	А		
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>		



5.3.6 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 254: For Each Use Case

Column name	Description	Remarks for Data		
ID	Unique ID	Ensure a Unique ID		
USECASE_NAME	Use Case Name	Must be one of the usecase_name from the table CMC_TM_ML_NER_TAG_MAS		
DESCRIPTION	Use Case Description			
SERVICE_TYPE	Service Type	'Business'	Use this value for business Service	
ADAPTER_CLASS	Fully qualified name of the adapter class	Use oracle.fsgbu.cmc.nlp.pipeline.services.adaptor.Gen ricAdaptor for all the business service calls Use oracle.fsgbu.cmc.nlp.pipeline.services.adaptor.OBF 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.



6 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.

6.1 Use Case On-Boarding

On-boarding a new business case onto the Machine Learning framework involves two broad stages as highlighted below.

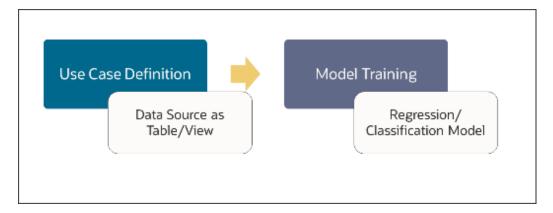
Model Definition

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.





6.2 Frameworks Supported

6.2.1 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

6.2.2 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.



6.2.3 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	Υ	15000	6723	1000
12346	BRT	N	17500	250	750
12347	CSR	D	25000	2654	1900
12348	CSR	N	16567	20	2500

NOTE: CASE ID MUST uniquely identify a row

6.2.4 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 MACHINES	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.



6.2.5 Classification

Classification is a statistical technique to discover relationships using independent variables to classify a target variable into a number of GROUPS or CLASSES. Mostly used for decision making.

Example: User needs to predict if a new CASE ID will churn(1) or not (0), given the data of branch, marital status, income and savings

CASE ID	BRANCH	MARITAL STATUS	INCOME	SAVING	CHURN
12345	BRT	Y	15000	6723	0
12346	BRT	N	17500	250	1
12347	CSR	D	25000	2654	1
12348	CSR	N	16567	20	0

NOTE: CASE ID MUST uniquely identify a row

6.2.6 Classification Algorithms Supported

The following algorithms are available as part of the framework.

S No	ALGORITHM	REMARKS
1	DECISION TREE	
2	NAÏVE BAYES	
3	RANDOM FOREST	
4	GENRALIZED LINEAR REGRESSION	Also handles RIDGE regression depending on the underlying pattern of data
5	SUPPORT VECTOR MACHINES	Supports both linear and gaussian kernels
6	NEURAL NETWORK	Uses default 1 layer with number of nodes <= 50

NOTE: Users have the flexibility to select a specific algorithm or keep it as NULL for the framework to evaluate and best fit the algorithm to the underlying data.



6.3 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	Υ	15000	6723	1000
12346	BRT	N	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.



6.4 On-Boarding Use Case

6.4.1 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.

6.4.1.1 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 306: Model Definition Summary



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

Table 255: Model Definition Summary – Field Description

Field	Description
Usecase Name	Displays the name of the use case
Mod No	Displays the modification number
Correlation	Displays the default 'N' for new records. On correlation validation in Model definition screen, it will change to 'Y'.
Authorized Status	Displays the Authorized or Unauthorized or Rejected status.
Record Status	Displays the status of the record.
Modification Number	Displays the number of modifications performed on the

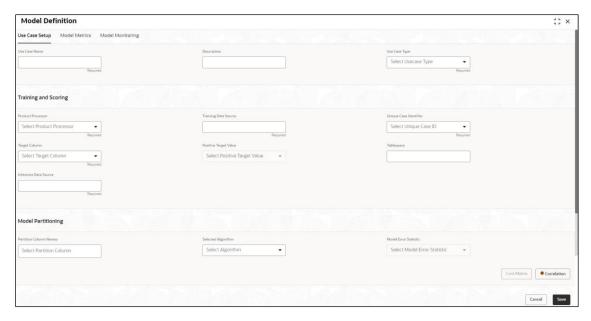


6.4.1.2 Model Definition Maintenance

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 to **Unlock** or click to create the new model definition.
 - → The Model Definition Maintenance screen is displayed.

Figure 307: Model Definition Maintenance



2. On **Model Definition Maintenance** screen, specify the fields. The fields marked as Required are mandatory. For more information on fields, refer to the field description table below.

Table 256: 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 – Regression or classification from the drop down.
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.



Field	Description
Unique Case Identifier	Select the column name to uniquely identify a record. NOTE: Column name is a function of table/view design and has to have unique constraint defined
Target Column	Select the value of the column which is to be predicted by training the model. It has to have unique constraint defined NOTE: Column name is a function of table/view design
Positive Target Value	If Use Case Type selected is CLASSIFICATION, then this field is enabled else disabled for REGRESSION. It will display distinct values from the target column
Tablespace	Specify the valid tablespace and all model related data will be persisted in this table space
Inference Data Source	Specify the Table or View that capture the data to be used for making predictions. Inference data source will be the current data where we are trying to predict the target using the built model, unlike the training data where target is already provided.
Partition Column Names	Specify the column names to slice data. Refer Partitioned Model for details
Selected Algorithm	Select the algorithm from the list and build the model. This field should be null to 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'. It will be disabled for CLASSIFICATION

Cost Matrix:

This button is enabled ONLY for CLASSIFICATION type of use cases.

Any classification model can make two kinds of error



Actual Value	Predicted Value	Error Type
1	0	False Negative
0	1	False Positive

This screen is used to bias the model into minimizing one of the error types, by adding a penalty cost. All penalty cost has to be positive.

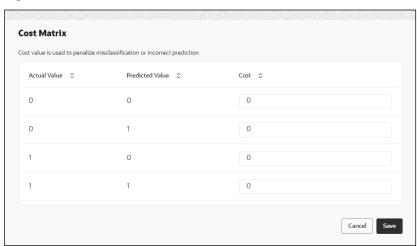
Actual Value	Predicted Value	Penalty Cost
1	0	6
0	1	2

The default is zero cost for all combinations.

Biasing the model is a trade-off with accuracy of prediction. Business determines if a classification model is required to be biased or not.

- 3. Click Cost Matrix button to launch the screen.
 - → The Cost Matrix screen is displayed.

Figure 308: Cost Matrix

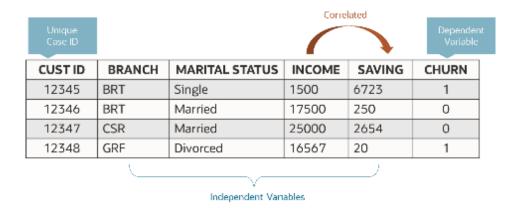


- 4. On Cost Value screen, specify the relevant penalty cost.
- 5. Click **Save** to save and close the **Cost Matrix** screen and back to the **Model Definition**Maintenance screen.

Correlation:

Multicollinearity occurs when two or more independent variables are highly correlated with one another in a model.





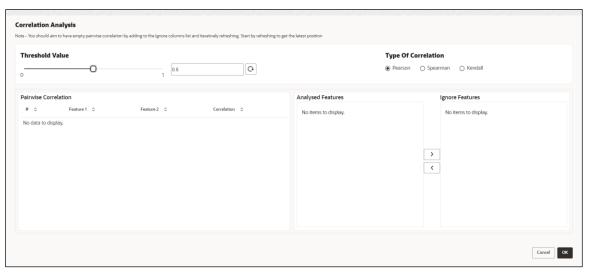
Multicollinearity may not affect the accuracy of the model as much, but we might lose reliability in model interpretation

Irrespective of CLASSIFICATION or REGRESSION, all use cases must be evaluated for Correlation.

This button will display Orange mark if evaluation is pending.

- 6. Click Correlation button to launch the screen.
 - → The Correlation Analysis screen is displayed.

Figure 309: Correlation Analysis



7. On **Correlation Analysis** screen, select the required fields. For more information on fields, refer to the field description table below.

Table 257: Correlation Analysis - Field Description

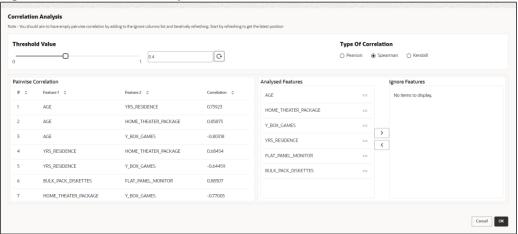
Field	Description
Threshold Value	Select the threshold value.
	By default, the value is set as 0.5.
	The Value can be set between 0.1 to 0.9.



Field	Description
Type of Correlation	Select the type of correlation. By default, the option is selected as Pearson. The formula used for calculation is different for each type
Pairwise Correlation	Displays the output of the Correlation Validation.
Analyzed Features	Displays the distinct analysed Features from Pairwise Correlation.
Ignore Features	User defined list created from Analysed Features.

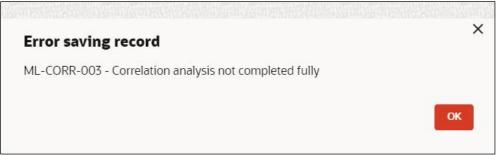
- 8. Click ^Q to initiate the evaluation process.
 - → The Correlation Analysis Pairwise Correlation screen is populated.

Figure 310: Correlation Analysis - Pairwise Correlation



- 9. Move ONE of the Analyzed Features to Ignore Features List
- 10. Click ^Q and re-evaluate Correlation as mentioned in Step 8.
- 11. Rinse & repeat Step 9 & 10 for each feature addition to the **Ignore feature** list, until **Pairwise**Correlation displays zero correlated pair.
- 12. Attempting to exit the screen midway without achieving zero Pairwise Correlation, will display the following error message.

Figure 311: Error Message



13. After successful **Correlation Evaluation**, the orange highlight on the **Correlation** button is removed.



14. After Correlation Evaluation and Cost Matrix definition (for CLASSIFICATION), click Save to create the new Model Definition. The user 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.

- 15. Click **Model Metrices** tab to view the Model Metrices details.
 - → The **Model Metrices** screen is displayed.

Figure 312: Model Metrices



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

Table 258: Model Metrices - Field Description

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.



Field	Description
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.

6.4.2 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 313: Model Training and Scoring



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

Table 259: Model Training and Scoring - Field Description



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		
Training Data Source	Displays the training data source.	
Unique Case Identifier	Displays the unique case identifier.	
Target Column	Displays the target column of the model.	
Partition Column(s)	Displays the partition column of the model.	
Model Batch Scoring		
Model Name	Displays the name of the model.	
Inference Data Source	Displays the Inference data source.	

- 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.

6.5 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 explain ability of the model outcome is also made available.

6.6 Use Case Modifications

Use case definition may undergo the following modification and would require model re-training. After each re-training run, you should review the model details discussed under Model Explainability.

Table 260: Use Case Modifications

Use Case Modification	Model Re-training Required	Correlation Analysis Required
Data Source replaced by another data source	Yes	Yes



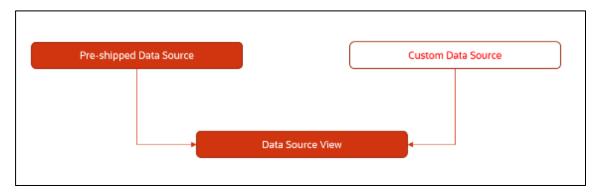
Use Case Modification	Model Re-training Required	Correlation Analysis Required
New column Added to existing data source	Yes	Yes
New columns Added to custom data source	Yes	Yes
Existing column removed from existing data source	Yes	Yes
Selected Algorithm Changed	Yes	No
Model Error statistic Changed	Yes	No
Partition Column Name list altered (added / removed)	Yes	Yes



6.7 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 314: 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.

6.8 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



6.9 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.

6.9.1 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.

Table 261: Forecast REST Service - Field Description

Field	Description
Use Case Name	Specify the Unique Use Case Name.
Data Source	Specify the Table or View name used as data source to train the model.
Target Column	Specify the model will train and forecast future values of this column. NOTE: Column name is a function of table/view design
Unique Identifier	Specify the column name to uniquely identify a sequence NOTE: Column name is a function of table/view design. 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



6.10 Model Monitoring and Auto Training

The underlying data on which a machine learning model is initially trained will eventually undergo changes in distribution over time. This shift in the data distribution away from the original distribution is referred to as data drift.

Not if, but when the underlying data drift is significant enough, the current model may lose its efficacy in predicting outcomes, onsetting model decay.

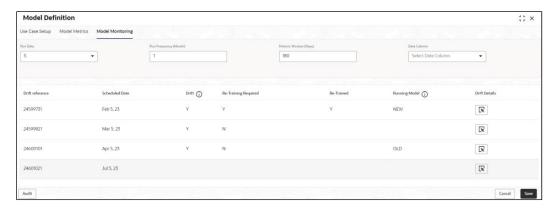
Monitoring of deployed models is required to detect data drift and trigger model re-build or re-training.

Regression and Classification use case types are eligible for setting up model monitoring.

Note: Model monitoring expects the presence of an existing trained model as a pre-requisite.

- From Home screen, click Machine Learning. Under Machine Learning, Click Model Definition,
 Under Model Definition, click Model Definition Summary.
- 2. Click button on the Use case tile to **Unlock**.
- 3. Select Model Monitoring tab to view the Model Definition screen.
 - → The **Model Monitoring** screen is displayed.

Figure 315: Model Monitoring



4. This screen allows you to setup Model monitoring for the use case. For more information on fields, refer to the field description table below.



Table 262: Model Monitoring – Field Description

Field	Description
Run Date	Run date is the calendar date used with 'Run Frequency (Month)' to set up a recurring monitoring schedule. On the schedule date, model monitoring routine will analyze the underlying data to detect presence/absence of data drift and trigger model re-build. Permissible values: 1 – 31 and default is 15 Note: This field is mandatory
Run Frequency (Month)	Specify the run frequency in months. Example: if we want to schedule a run on 17th of every 6 months, then we set up Run Date: 17 Run Frequency (Month): 6 6 is the set default, the value. Minimum value is 1 Note: This field is mandatory
Historic Window (Days)	Historic window in days determine how far back should we consider, to define the window of data evaluation. Example: A value of 90 would mean a historic window from T-90 days to T Day, T being the system date. Default is set at 180. Note: This field is mandatory
Date Column	This field captures the date column in the data source which should be considered for determining the historic window. Keep it empty If the data source does not have a date column. In the absence of a date column in the data source, system will consider the entire available data available in the data source.

5. The following fields are populated for reference once the model monitoring routine is executed on the scheduled date.



Table 263: Model Evaluation - Field Description

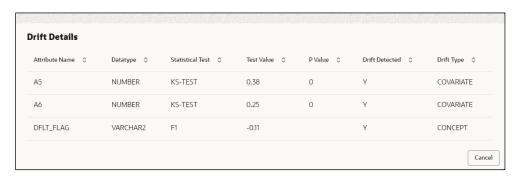
Field	Description
Drift Reference	Displays the Unique Drift Reference ID, populated by the model monitoring routine initial run
Scheduled Date	Displays the scheduled date after the initial run of the model monitoring routine.
Drift	Initially it will be empty and will get populated once the model monitoring routine runs and determines the presence or absence of drift. Display value is Y or N.
Re-Training Required	Model monitoring routine determines the re-training requirement and populates Y or N values.
Re-Trained	Model monitoring routine populates the status of re-training with Y or N values.
Running Model	The model monitoring routine evaluates both the existing and the new model, it re-trained, to determine which model best fits the contemporary changed data. Final values are OLD, if existing model is retained or NEW, for revised re-trained model

6. Click on the icon to view the **Drift Details**.

The Drift Details button will be enabled only if drift is detected; otherwise, it will continue to be disabled.

The model monitoring routine identifies the drift in the data distribution using statistical hypothesis tests. Drift is of two types - Concept drift for target and data drift for the data attributes. Concept drift decides if the current model is to be re-trained or not. If concept drift is detected, this screen displays the analysis and statistical test values for both the concept drift and data drift of the attributes that contribute to the model.

Figure 316: Drift Details



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



Table 264: Drift Details - Field Description

Field	Description		
Attribute Name	Displays the attributes used in the model		
Datatype	Displays the data type of the attribute.		
Statistical Test	Displays the statistical tests results.		
	The available options are:		
	F1 - concept drift		
	KS-TEST - Numerical feature attributes		
	CHI-SQR - categorical feature attributes		
Test Value	Displays the numerical statistical test result		
P Value	The P Value determines the statistical significance. Will be null for F1 statistical test.		
Drift Detected	Indicates whether drift has been detected with a Y or N.		
Drift Type	Displays either concept or covariate (data) drift type.		

7. Select the relevant **drift reference** record.

Click from **Drift** header to view the comparative Model Performance Screen to understand how the decision of drift is arrived at.

Existing model is used to predict on an earlier data sample and the current data sample. The results of both the prediction are captured and displayed.

Classification models are compared on F1, AUC and Prediction accuracy while Regression, models are evaluated on prediction error.



Existing Model Performance on Old Trained data and Current Data Classification Regression Earlier Data 🗘 Current Data 🗘 Earlier Data 🗘 Error Type 🗘 F1 Comparison **Error Comparison** 0.88 0.62 **AUC Comparison** 0.95 0.67 **Prediction Accuracy Comparison** Cancel

Figure 317: Existing Model Performance on Old Trained data and Current Data

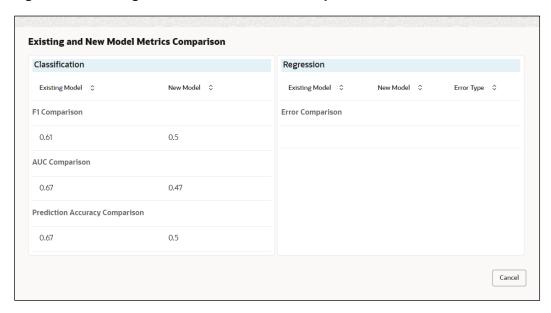
8. Select relevant Drift reference record.

Click from **Running Model** header to view the comparative performance of the re-trained model vs current model, in order to understand how the system decided on which model best fit the current data distribution.

Classification models are evaluated on F1, AUC and Prediction accuracy while Regression models, are evaluated on prediction error



Figure 318: Existing and New Model Metrics Comparison



6.11 Interest Rate File Upload

This topic describes the information to perform the bulk upload for the interest rate maintenance in common core.

File Type Suported - CSV

File Naming Convention - CmcIntRate<UniqueName>.csv

NOTE: Replace the <UniqueName> for each upload.

NOTE: The fields marked as Required are mandatory.

Table 265: Interest Rate File Upload – Master Records

Sequence	Field name	Туре	Size	Description
1	Rate Code*	String	10	Denotes the rate code
2	Description*	String	120	Denotes Rate description
3	Branch Code*	String	3	Displays the branch code
4	Quote Basis for Loans*	Number	1	Select the quote basis for loans from the drop-down list
5	Propagates Rate to Branches*	String	1	If this is checked then the rate code is propagated to all the other branches



				from head office branch
6	Type*	String	1	Denotes the Rate Code is of Fixed or Floating in the usage perspective
7	Maker ID*	String	12	Sender or maker of the external customer configuration create service.
8	Maker Date Stamp*	DATE	-	Timestamp of the creation
9	Checker ID*	String	12	Approver/authorizer of the external customer configuration
10	Checker Date Stamp*	DATE	-	Timestamp of the approval
11	Record Status*	CHAR	1	External customer configuration status – active/open or inactive/closed
12	Authorization Status*	CHAR	1	Authorization status – authorized or unauthorized
13	Once Authorized*	CHAR	1	Determines if the record has been authorized atleast once.
14	Modification Number*	Number	4	Modification

Table 266: Interest Rate File Upload – Child Records 1

Sequence	Field Name	Туре	Size	Description
1	Rate Code*	String	10	Denotes the rate
				code



2	Branch Code*	String	3	Denotes the branch code
3	Currency Code*	String	3	Denotes the Currency Code
4	Amount Slab*	Number	22,3	Denotes the Amount Slab
5	Effective Date*	DATE	-	Denotes the Effective Date
6	Borrow Lend Indicator*	CHAR	1	Denotes Borrow Lend Indicator

Table 267: Interest Rate File Upload - Child Records 2

Sequence	Field Name	Туре	Size	Description
1	Rate Code*	String	10	Denotes the rate code
2	Branch Code*	String	3	Displays the branch code
3	Currency Code*	String	3	Denotes the Currency Code
4	Amount Slab*	Number	22,3	Denotes the Amount Slab
5	Effective Date*	DATE	-	Denotes the Amount Slab
6	Borrow Lend Indicator*	CHAR	1	Denotes Borrow Lend Indicator
7	Tenor To*	Number	5	Denotes Tenor To
8	Units*	String	1	Denotes Tenor Units
9	Interest Rate*	Number	13,8	Denotes the Interest Rate



7 Rules Framework

This Rules framework is used for creation and evaluation of business rules, creation of facts, which are the building blocks in business rules.

This section contains the following topics:

- 7.1 Facts
- 7.2 Rule

7.1 Facts

Fact is the information-carrying block, used for creating the rules.

Fact can be of the following type:

- NUMBER
- TEXT
- BOOLEAN
- DATE
- ARRAY
- ENUM

This section contains the following topics:

- 7.1.1 Create Fact
- 7.1.3 View Fact

7.1.1 Create Fact

The **Create Fact** screen allows the user to create fact through single creation.

Prerequisite

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

- 1. From Home screen, Under Fact, click Create Fact.
 - 9. Click New to create a single fact.
 - → The Create Fact screen is displayed.

Figure 319: Create Fact



10. Specify the details in the relevant data fields.



The fields marked with asterisk are mandatory. For more information on fields, refer to the field description table below

Table 268: Create Fact - Field Description

Field	Description
Code	Specify the alphanumeric code without space for the fact.
Description	Specify the description of the fact.
Product Processor	Select the product processor.
Туре	Select the type of the fact from the dropdown list.
	The available options are:
	Number
	• Text
	Boolean
	• Date
	• Array
	• ENUM

- 11. Click Save to save the details of fact.
- 12. Click **Bulk Upload** to create a multiple fact.
 - → The Create Fact- Bulk Upload screen is displayed.

Figure 320: Create Fact - Bulk Upload



13. Click on **Download Template** to get the sample file.



- 14. Fill all the Facts details to be created in the template file and save the file.
- 15. Click **Drag and Drop** and select the file from the browser.
- 16. Click Upload.



7.1.2 Create ENUM type Fact

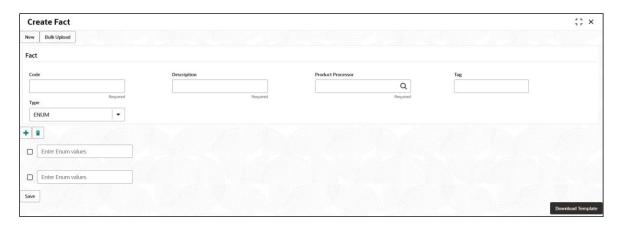
The Create Fact screen allows the user to create ENUM type of fact.

Prerequisite

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

- 1. From Home screen, Under Fact, click Create Fact.
- 2. Click **New** to create a ENUM type fact.
 - → The Create Fact ENUM Type Fact screen is displayed.

Figure 321: Create Fact – ENUM Type Fact



17. Specify the details in the relevant data fields. The fields marked with asterisk are mandatory. For more information on fields, refer to the field description table below.

Table 269: Create Fact - ENUM Type Fact - Field Description

Field	Description
Code	Specify the alphanumeric code without space for the fact.
Description	Specify the description of the fact.
Product Processor	Select the product processor.
Туре	Select the type of the fact as ENUM from the dropdown list.

- 18. Click on the * icon to add the list of ENUM fact values.
- 19. Click on the icon to delete any of the list of ENUM fact values.
- 20. Click Save to save the details.



7.1.3 View Fact

The View Fact screen allows the user to view and edit the facts.

Prerequisite

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

- 1. From Home screen, click Fact.
- 2. Under Fact, click View Fact.
 - → The **View Fact** screen is displayed.

Figure 322: View Fact



Table 270: View Fact - Field Description

Field	Description
Product Processor	Displays the product processor.
Fact ID	Displays the Fact ID.
Fact Name	Displays the name of the fact.
Description	Displays the description of the fact.
Product Processor	Displays the product processor.

- 22. Specify the Fact details in **Filter** textbox to filter the data.
- 23. Click Refresh to refresh the screen.



- 24. Right-click on the fact from the list and Click View Details.
 - → The **Fact Creation** screen is displayed.

Figure 323: Fact Creation



Table 271: Fact Creation - Field Description

Field	Description
Code	Specify the alphanumeric code without space for the fact.
Description	Specify the description of the fact.
Product Processor	Select the product processor.
Туре	Select the type of the fact from the dropdown list.
	The available options are:
	Number
	• Text
	• Boolen
	Date
	• Array
	• ENUM



7.2 Rule

Rule enables the user to build the expression to perform the calculation with the facts created.

The type of rules supported are:

- Logical: Example: (ACCOUNT_BAL > 124432) && (VALID_TILL < VALID_DATE)
- Arithmetic: Example: (CREDIT_BALANCE + TAX_CREDIT INTEREST_AMOUNT)
- Relational: Example: (FACT5 == ACCOUNT && TAX >= 10)
- Nested: Example:
- (RULE_ACCOUNT = TRUE) && (ACCOUNT_BAL > 21234)
- Multiple-If else: Example: IF (ACCOUNT_BAL > 124432) then OUTPUT1
 ELSE IF (ACCOUNT_BAL < 124432) then OUTPUT2
- Multiple Nesting: Example- INNERCHILDRULE : (ACC_BAL > 30000) then OUTPUT = true

CHILDRULE : ((INNERCHILDRULE == true) && (CBLSCORE > 5)) then OUTPUT = true

PARENTRULE: ((ACCTYPE == HOMELOAN) && (CHILDRULE == true))

Steps to build a Nested Rule expression is explained with the below example.

The Rule Expression for Loan to Value (LTV) is

Loan to Value (LTV) = (LOANAMOUNT /COLLATERAL_VALUE) *100

For now, the above expression is not supported directly, and LTV calculation is achieved by the below steps.

Step 1: Create a Rule1 - LOAN_TO_COLLATERAL

Expression - LOANAMOUNT/COLLATERAL_VALUE

Step 2: Create a rule2 - Loan to Value (LTV)

Expression - LOAN_TO_COLLATERAL *100

This section contains the following topics:

- 7.2.1 Create Rule
- 7.2.2 View Rule
- 7.2.3 Evaluate Rule
- 7.2.4 Rule Group
- 7.2.5 Audit Rule



7.2.1 Create Rule

The Create Rule screen allows the user to create the rule.

Prerequisite

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

- 1. From Home screen, Under Rule, click Create Rule.
 - → The Create Rule screen is displayed.

Figure 324: Create Rule

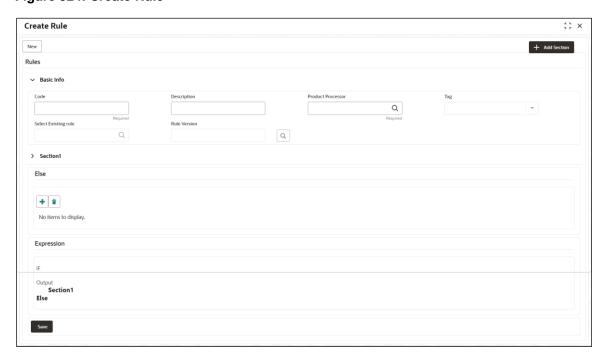


Table 272: Create Rule - Field Description

Field	Description
Code	Specify the alphanumeric code without space for the rule.
Description	Specify the description of the rule.
Product Processor	Displays the product processor.
Tag	Select the tag from the drop-down list.
Select Existing Rule	Click search and select the existing rule.
Add Section	Click Add Section to create the multiple rule condition



Field	Description
Expression Builder	Select the expressions to build the rule.
Add Expression	Click Add Expression to create the expression for the rule.
+ icon	Click this icon to add new expression.
Fact / Rules	Select the fact or rule from the drop-down list.
Operator	Select the comparison operator from the drop-down list.
Data Type	Select the data type for the fact or rule. Once you select the data type, the new field appears adjacent to the data type.
	Update the same based on the selected data type.
	The available options are:
	• Text
	Number
	Boolean
	• Date
	• Fact
Output	Select the output from the drop-down list. Once you select the output, the new field appears adjacent to the output.
	Update the same based on the selected output option.
	The available options are:
	• Text
	Number
	Boolean
	• Date
	• Fact
Expression	Displays the expression and output updated in the expression builder.

^{27.} Click **Save**, to save the details.



7.2.1.1 Create Rule with multiple Output

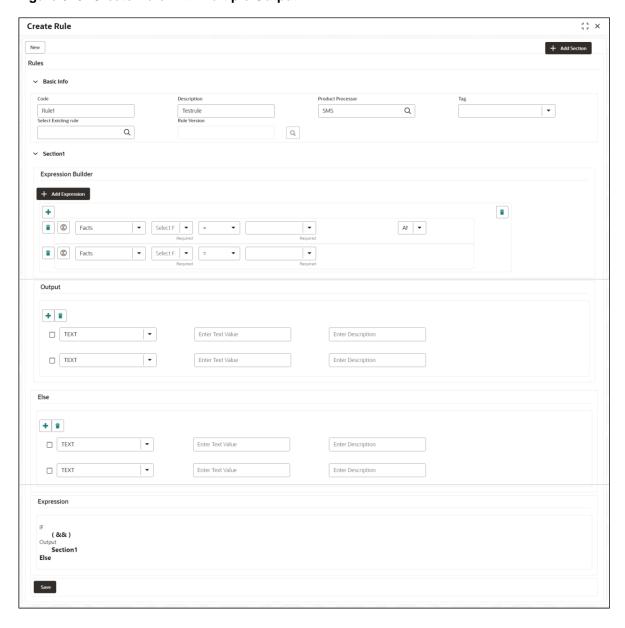
Steps to build a Rule with multiple output is explained with the below example.

The Rule Expression for Multiple output rule is:

IF (TotalIncome > 20000) && (TotalExpense < 8000)

then Eligible for loan, 10000, 2022-07-06

Figure 325: Create Rule with Multiple Output



7.2.2 View Rule

The View Rule screen allows the user to view and modify the existing rules.

Prerequisite

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



- 1. From Home screen, Under Rule, click Rule.
 - 28. Under Rule, click View Rule.
 - → The View Rule screen is displayed.

Figure 326: View Rule

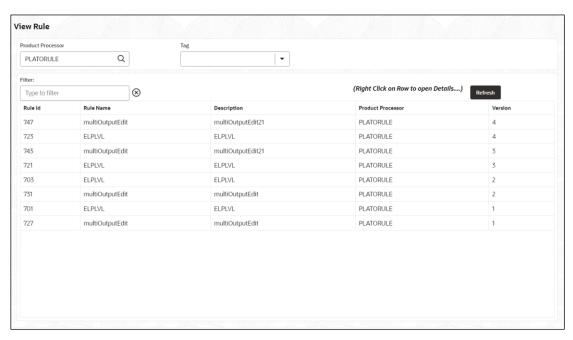


Table 273: View Rule - Field Description

Field	Description
Product Processor	Displays the product processor.
Rule ID	Displays the Rule ID.
Rule Name	Displays the name of the rule.
Description	Displays the description of the rule.
Product Processor	Displays the product processor.

- 30. Specify the Rule details in **Filter** textbox to filter the data.
- 31. Click Refresh to refresh the screen.
- 32. Right-click on rules from the list and Click View Details.
- 33. Click Edit to edit the rule.
 - → The Rule Creation screen is displayed.



Figure 327: Rule Creation

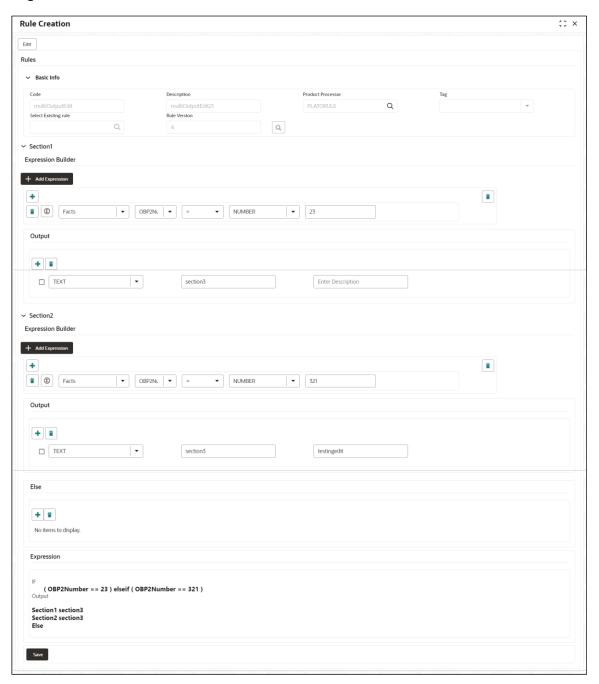


Table 274: Rule Creation - Field Description

Field	Description
Code	Specify the alphanumeric code without space for the rule.
Description	Specify the description of the rule.
Product Processor	Displays the product processor.



Field	Description
Add Section	Click Add Section to create the multiple rule condition
Expression Builder	Select the expressions to build the rule.
Add Expression	Click Add Expression to create the expression for the rule.
+ icon	Click this icon to add new expression.
Fact / Rules	Select the fact or rule from the drop-down list.
Operator	Select the comparison operator from the drop-down list.
Data Type	Select the data type for the fact or rule. Once you select the data type, the new field appears adjacent to the data type. Update the same based on the selected data type. The available options are: • Text • Number • Boolean • Date
	• Fact



Field	Description
Output	Select the output from the drop-down list. Once you select the output, the new field appears adjacent to the output.
	Update the same based on the selected output option.
	The available options are:
	• Text
	Number
	Boolean
	Date
	• Fact
Expression	Displays the expression and output updated in the expression builder.

35. Click Save to save the details.



7.2.3 Evaluate Rule

Once the rule has been created the evaluate API has to be invoked to evaluate the rule.

To evaluate a rule, **rule name & namespace** are the **mandatory** parameters passed to the API and **version** of the rule is an **optional** parameter. If the version of the rule is not passed to the API then by **default** the **latest version of the rule** is evaluated.

The evaluate API url to be invoked is:

/rule-service/rules/evaluate/{namespace}/{ruleName}

/rule-service/rules/evaluate/{namespace}/{ruleName}/{version}

```
Method→ POST
Headers Required→
appld: PLATORULE
userId: ASHISH
Content-Type: application/json
Request Body→
  "LOAN_AMOUNT": "15001",
  "LOAN_TYPE": "Auto_loan",
}
Response →
  "ruleEvaluated": true,
  "result": "true",
  "ruleId": 8161,
  "ruleName": "DIVYARULE1",
  "outputDescription": "null",
  "responseType": null,
  "error": null,
  "req_id": "reqld_1652082090755"
```



}

7.2.4 Rule Group

Grouping individual rules by name and priority into a RuleGroup.

For the evaluating a RuleGroup, user will pass all the required Fact data to evaluate API & if the evaluate Group flag is set to false, the API will evaluate rule one by one based on priority and return for the rule which evaluates to true. If the evaluate Group flag is set to true then the API will evaluate rule one by one based on priority for all rules in the RuleGroup and return the response of all the rules.

Please find below an example for a Rule Group:

RULEGROUP1:

RULE1: (ACC_BAL > 400)

RULE2: (ACC_BAL < 10000)

RULE3: MIN (FICOSCORE

7.2.4.1 Create Rule Group

The **Create Rule Group** screen allows the user to combine the rule.

Prerequisite

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

- 1. From Home screen, Under Rule, click Create Rule Group.
 - → The Create Rule Group screen is displayed.

Figure 328: Create Rule Group



Table 275: Create Rule Group – Field Description

Field	Description
Group Name	Specify the unique group name for the selected rules.
Product Processor	Click search and select the product processor.



Field	Description
Tag	Specify the tag for rule group.
Evaluate Group	Select the toggle to evaluate the expression in sequence.
	NOTE: If the toggle is disabled, the evaluation of the expression stops when the condition of expression is evaluated to True .
+ icon	Click this icon to add expression.

36. Click Save to save the details.

7.2.4.2 View Rule Group

The View Rule Group screen allows the user to view and modify the existing rules group.

Prerequisite

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

- 1. From Home screen, Under Rule, click View Rule Group.
 - → The View Rule Group screen is displayed.

Figure 329: View Rule Group

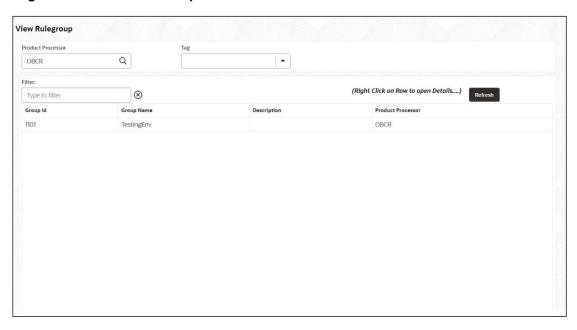


Table 276: View Rule Group - Field Description



Field	Description
Product Processor	Displays the product processor.
Tag	Displays the tag for rule group.
Group ID	Displays the Group ID.
Group Name	Displays the name of the group.
Description	Displays the description of the group.
Product Processor	Displays the product processor.

7.2.5 Audit Rule

The View Audit Rule screen allows the user to **View Rule log** after the evaluation of the expression through evaluate API.

Prerequisite

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

- 1. From Home screen, Under Rule, click View Audit Rule.
 - → The View Audit Rule screen is displayed.

Figure 330: View Audit Rule



2. Specify the details in the relevant data fields. For more information on fields, refer to the field description table below.



Table 277: View Audit Rule - Field Description

Field	Description	
Request ID	Specify the request ID available from the output of evaluate API.	

- 3. Click **Submit,** to view to details.
- 4. Click Show Rule log, to view the log rule for selected request ID.



8 Document Verification Framework

This section is designed to help the user quickly get acquainted with the Document verification framework.

Introduction:

In this digital age, there is still a strong reliance on physical document verification, especially in large organizations such as government, enterprise companies, banks, and universities/colleges.

Manual Verification of documents for Identification is laborious. Not only do we have to organize and categorize the files, extracting meaningful information manually takes a lot of time and effort.

These business organizations employ data entry teams whose sole purpose is to take these physical documents, manually re-type the information, and then save it into the system which is cumbersome. This can annoy customers as well as employees ultimately resulting in decreased productivity.

So, there is a strong need to digitize the information on the documents and extract the required data. This document verification framework has a set of APIs that allows you to extract required fields from the Identification documents automatically, thus saving a lot of time and effort.

Prerequisites:

Document Verification framework is designed to extract the detailed information from the uploaded documents like Passport, National ID card, driving license, etc.

This section contains the following topics:

- 8.1 Text Extraction
- 8.2 Image Processing
- 8.3 Document Verification API Details
- 8.4 Validate Information API details
- 8.5 Recommendations for better performance



8.1 Text Extraction

Optical character recognition or optical character reader (OCR) is the process of digitizing documents and extracting text from them. Widely used as a form of data entry from scanned documents – Here the text is first scanned, analyzed, and is finally translated into character codes. This machine-encoded text can be easily searched and edited electronically.

OCR has greatly improved the process of data entry. The need for the documents to be scanned is on a constant rise as it enables these documents to be viewed conveniently when required. The most popular application of OCR is Data entry for business documents, e.g. ID card, driving license, passport, cheque, invoice and salary slip.

Benefits of OCR:

- 100% Text-searchable Documents One of the huge advantages of OCR data processing is that it
 makes the digitized documents completely text searchable. This helps professionals to quickly lookup
 numbers, addresses, names, and various other parameters that differentiate the document being
 searched.
- 2. **Reduced Cost** Besides helping an organization in cutting down the cost of hiring manpower for data extraction, it also helps in reducing several other costs like printing, copying, shipping charge, etc.
- 3. Reduced Errors It resolves the problem of data loss and inaccuracy and helps in reducing errors.
- 4. **More Storage Space** -The lesser the documents, the larger space. Organizations have always wanted to take the 'Paperless' approach and OCR just makes it possible. Also, the expenses of file cabinets are saved with this approach.
- 5. Ready Availability By scanning the information of documents through OCR, the data can be made available in several different places. One can carry it in a USB drive and retrieve the wanted information with just a few clicks.
- 6. **Superior Data Security** Data security is of utmost importance for any organization. Paper documents are easily prone to loss or destruction. However, this is not the case with data that is scanned, analyzed, and stored in digital formats. Furthermore, access to these digital documents can also be minimized to prevent mishandling of the digitized data.
- 7. Massively Improves Customer Service Several inbound contact centers often provide information that their customers seek. While some call centers provide customers with the information they need, others will have to quickly access certain personal or order-related information of the customers to process their requests. Quick data accessibility becomes extremely important in such cases. This helps in systematically storing and retrieving the documents digitally at blazing speeds. With this, the waiting time is drastically reduced for the customers, thereby improving their experience.



8.2 Image Processing

Text Recognition depends on a variety of factors to produce good quality output. The text output highly depends on the quality of the input image. These guidelines help document extraction engine to produce accurate results.

Image Preprocessing comes into play to improve the quality of input image so that the engine gives an accurate output. The main objective of the Preprocessing phase is to make it easy for the system to distinguish a character from the background.

The preprocessing can be controlled using the configuration files and are explained at the bottom. The configuration varies between documents and country.

The following image processing operations are used to improve the quality of input image:

- Image Scaling OCR gives accurate output for images with 300 DPI which describes the resolution. Keeping DPI lower than 200 will give unclear and incomprehensible results while keeping the DPI above 600 will unnecessarily increase the size of the output file without improving the quality of the file. Thus, a DPI of 300 works best for this purpose.
- Image Skew Correction A Skewed image is defined as a document image that is not straight.
 Skewed images directly impact the line segmentation of the OCR engine which reduces its accuracy.
 These kinds of images are to be processed to correct text skew.
- **Background Cropping** Background is cropped from scanned images if it contains any. This is really important as we want to remove unwanted areas from the image that does not contain text at all.
- Noise Removal Noise is removed from images as it decreases the readability of text. The main
 objective of the Noise removal stage is to smoothen the image by removing small dots/patches which
 have high intensity than the rest of the image. Noise removal can be performed for both Colored and
 Binary images.
- **Binarization** This involves converting a colored image into black and white pixels which can be achieved by fixing a threshold value.



8.3 Document Verification API Details

Document Verification APIs are a function of image quality, image size, and Resolution. Each API has different requirements. The Framework is designed to extract details from documents like Passport, Driving License, National ID card, Salary slips etc.

This section contains the following topics:

- 8.3.1 Passport Extraction
- 8.3.2 Driving License Extraction
- 8.3.3 National Identification Extraction
- 8.3.4 Voter Identity Card Extraction

8.3.1 Passport Extraction

This section describes the payload details for Passport Details extraction service.

Passport Extraction module extracts details in the passport like Country, Document Type, Name, First Name, Last Name, Gender, Date of Birth, Date of Issue and Date of expiry of the passport, Passport No and Issuing Authority if present in the passport along with Image metadata information like Image DPI, Resolution and Image Size. This module provides support for passports of various countries listed below:

- USA passport and passport-card
- UAE
- INDIA
- CANADA
- AUSTRALIA
- BANGLADESH

All the details in the passport/ passport-card (Incase of USA) are extracted using "/extractInformation" API.

Brief of Working:

It takes "country", "document type" and "Base64 encoded image" of the passport as input. It internally generates processed text from the passport and extracts details like Name, First Name, Last Name, Gender, DOB, DOI and DOE, PP No. and Issuing Authority if present in the document. Along with the document details, it also gives image metadata information like Image DPI, Resolution and Size, etc. The output is represented in JSON format.



Table 278: Passport Extraction API Format

S No	Description	Comments
1	Format of input images it supports	jpg, jpeg, png, pdf
2	Output Format	JSON
3	Support multiple input files	Yes

Input Request:

For a single image: Base64 encoded image, Country, Document Type ("passport" in this case).

For multiple images: Array of the Base64 encoded images, Country, Document Type ("passport" in this case).

Sample Input Request:

```
{
    "country": "UAE",
    "docType": "passport",
    "docBase64s": [
        "-----base64 encoded image string-----"
    ]
}
```

Note: In case of USA, there are 2 types of document: passport and passport-card. If the input document is of type passport-card, the docType should be mentioned as passport-card.



[&]quot;/extractInformation" API -

Output Response:

Sample Output Response:

"firstName": "SHAMA",

"issuingAuthority": "",

"identificationNumber": "F0Z615883",

"issuedCountry": "UNITED ARAB EMIRATES",

"lastName": "RASHED ABDULIALIL MOHAMED ALFAHIM",

"name": "SHAMA RASHED ABDULIALIL MOHAMED ALFAHIM"

"gender": "F",

}

]

}

The output of "/extractInformation" API is the extracted details in the JSON format given below:

Note: Even if Country and DocType not provided in the input request, the service tries to extract the Country Name and Document Type automatically. In case, if it is not able to extract it returns an exception/ error. This means either the quality of the document is not enough to extract all the details or resolution is poor.



Things to be taken care of:

- Make sure the base64 encoded image string of the input image is correct.
- Document Type provided in the input should be "passport" only
- Specify the country name correctly for accurate extraction of details



8.3.2 Driving License Extraction

This section describes the payload details for Driving License Details extraction service.

Driving License Details Extraction module extracts information present in the Driving License such as Name, First Name, Last Name, Gender, Address, License No, Date of Birth, Date of Issue and Date of expiry of the license along with the image metadata information like Image DPI, Resolution and Size. Currently, we provide support for licenses of various countries listed below:

- UNITED STATES OF AMERICA
- UNITED KINGDOM
- CANADA
- AUSTRALIA
- BANGLADESH

All the details in the license are extracted using "/extractInformation" API.

Brief of Working:

The API accepts the "country", "document type" and "Base64 encoded image" of the license as input. It internally generates processed text from the license document and extracts details like Name, First Name, Last Name, Gender, DOB, DOI and DOE, License No. and Address, etc. Along with the document details, it also gives image metadata information like Image DPI, Resolution and Size. The output is represented in JSON format.

Input Request:

"/extractInformation" API -

- For a single image: Base64 encoded image, Country, Document Type ("License" in this
 case).
- For multiple images: Array of the Base64 encoded images, Country, Document Type ("License" in this case).

Sample Input Request:

```
"country": "US",

"docType": "license",

"docBase64s": [

"-----base64 encoded image------"

]
```



Output Response:

The output for "/extractInformation" API is the extracted details in the JSON format given below:

Sample Output Response:

```
{
"documentDetails":
   [
      {
      "ImageInfo": {
         "file_size": "579.26 KB",
         "image_dpi": "",
         "image_resolution": "736x419",
         "information": "dpi info not available. Average Image Resolution. File size is proper."
         },
      "address": "918 N ROXBURY BEVERLY HILS CA 90210",
      "dateOfBirth": "6/8/1911",
      "dateOfExpiry": "6/8/2012",
      "dateOfIssue": "2/7/2010",
      "docType": "license",
      "firstName": "LUCILLE",
      "gender": "F",
      "identificationNumber": "B2201793",
      "issuedCountry": "UNITED STATES OF AMERICA",
      "issuingAuthority": "CALIFORNIA",
      "lastName": "BALL",
      "name": "LUCILLE BALL"
      }
   ]
```

Note: Even if Country and DocType not provided in the input request, the service tries to extract the Country Name and Document Type automatically. In case, if it is not able to extract it returns an exception/ error. This means either the quality of the document is not enough to extract all the details or resolution is poor.



}

Things to be taken care of:

- Make sure the base64 encoded image string of the input image is correct.
- Document Type provided in the input should be "license" only
- Specify the country name correctly for accurate extraction of details



8.3.3 National Identification Extraction

This section elaborates the payload details for National ID Card Details extraction service.

National ID card Details Extraction module extracts details in the National Identity Card like Name, First Name, Last Name, Gender, Address (if present), Date of Birth, Date of Issue and Date of expiry of the NID, ID No, etc along with the image metadata information like Image DPI, Resolution and Size. This module provides support for NIDs of various countries listed below:

- USA
- South Africa
- Brazil
- Bangladesh
- Canada
- India
- Kenya
- Portugal

All the details in the ID are extracted using "/extractInformation" API.

Brief of working:

It takes "country", "document type" and "Base64 encoded image" of the NID as input. It internally generates processed text from the Identity document and extracts details like Name, First Name, Last Name, Gender, Address, DOB, DOI, DOE, and ID No. Along with the document details, it also gives image metadata information like Image DPI, Resolution and Size. The output is represented in JSON format.

Input Request:

"/extractInformation" API -

- For a single image: Base64 encoded image, Country, Document Type ("nid" in this case).
- **For multiple images**: Array of the Base64 encoded images, Country, Document Type ("nid" in this case).

Sample Input Request:

```
"country": "BR",
"docType": "nid",
"docBase64s": [
    "-----base64 encoded image-----"
]
```



Output Request:

The output for "/extractInformation" API is the extracted details in the JSON format given below:

```
Sample output response:
{
"documentDetails": [
   {
   "ImageInfo": {
      "file_size": "566.32 KB",
      "image_dpi": "72",
      "image_resolution": "680x453",
      "information": "Minimum 300 DPI is required. Poor Image Resolution. File size is proper."
      },
   "dateOfBirth": "12/7/1960",
   "dateOfExpiry": "20/8/2030",
   "dateOfIssue": "",
   "docType": "NID",
   "firstName": "FERNANDA",
   "gender": "F",
   "identificationNumber": "000000005-9",
   "issuedCountry": "BRAZIL",
   "issuingAuthority": "",
   "lastName": "DE CARVALHO DA SILVA",
   "name": "FERNANDA DE CARVALHO DA SILVA"
   }
 ]
```

Note: Even if Country and DocType not provided in the input request, the service tries to extract the Country Name and Document Type automatically. In case, if it is not able to extract it returns an exception/ error. This means either the quality of the document is not enough to extract all the details or resolution is poor.



}

Things to be taken care of:

- Make sure the base64 encoded image string of the input image is correct.
- Document Type provided in the input should be "nid" only
- Specify the country name correctly for accurate extraction of details



8.3.4 Voter Identity Card Extraction

This section elaborates the payload details for Voter ID Card Details extraction service.

Voter ID card Details Extraction module extracts details in the Voter ID Card like **Name**, **First Name**, **Last Name**, **Gender**, **Date of Birth** and, **ID No** along with the image metadata information like **Image DPI**, **Resolution** and **Size**. Currently, we provide support for Voter IDs of various countries listed below:

India

All the details in the ID are extracted using "/extractInformation" API.

It takes "country", "document type" and "Base64 encoded image" of the Voter ID as input. It internally generates processed text from the Identity document and extracts details like Name, First Name, Last Name, Gender, DOB, and ID No. Along with the document details, it also gives image metadata information like Image DPI, Resolution and Size. The output is represented in JSON format.

Input Request

"/extractInformation" API -

- For a single image: Base64 encoded image, Country, Document Type ("voterid" in this case).
- For multiple images: Array of the Base64 encoded images, Country, Document Type ("voterid" in this case).

Sample input request:

```
"country": "IND",
  "docType": "voterid",
  "docBase64s": [
    "-----base64 encoded image -----"
]
```



Output Request:

The output for "/extractInformation" API is the extracted details in the JSON format given below:

Sample output response:

```
{
  "documentDetails": [
     {
       "ImageInfo": {
          "file_size": "236.93 KB",
          "image_dpi": "300",
          "image_resolution": "317x500",
          "information": "Image DPI is proper. File size is proper."
       },
       "dateOfBirth": "15/2/1985",
       "dateOfExpiry": "",
       "dateOfIssue": "",
       "docType": "VOTERID",
       "firstName": "PREM",
       "gender": "M",
       "identificationNumber": "GDN0225185",
       "issuedCountry": "INDIA",
       "issuingAuthority": "",
       "lastName": "RAJ THAKUR",
       "name": "PREM RAJ THAKUR"
     }
  ]
}
```

Note: Even if Country and DocType are not provided in the input request, the service tries to extract the Country Name and Document Type automatically. In case, if it is not able to extract it returns an exception/ error. This means either the quality of the document is not enough to extract all the details or resolution is poor.

Things to be taken care of:

- Make sure the base64 encoded image string of the input image is correct.
- Document Type provided in the input should be "voterid" only
- Specify the country name correctly for accurate extraction of details



8.4 Validate Information API details

Validate Information APIs are a function of image quality, image size, and Resolution. Each API has different requirements. The Framework is designed to extract details from documents like Passport, Driving License, National ID card, Salary slips etc. and to calculate similarity score of the extracted details with input key value pairs. It uses fuzzy matching logic for calculating similarity of input value & extracted value based on given keys. For Date of Birth, Date of Issue and Date of expiry keys similarity score is calculated by exact matching logic.

This section contains the following topics:

- 8.4.1 Passport Validation
- 8.4.2 Driving License Validation
- 8.4.3 National Identification Validation
- 8.4.4 Voter Identity Card Validation
- 8.4.5 Pointers about Request and Response
- 8.4.6 Things to be taken care of

Table 279: Validate Information API Input format

Sl.no	Description	Comments
1	Format of input images it supports	jpg, jpeg, png, pdf
2	output format	JSON
3	Support multiple users' input key value pairs	Yes
4	Support multiple input files of different document types	Yes



8.4.1 Passport Validation

This section describes the payload details for Passport Details validation service.

Passport Validation module extracts details in the passport like Country, Document Type, Name, First Name, Last Name, Gender, Date of Birth, Date of Issue and Date of expiry of the passport, Passport No and Issuing Authority if present in the passport along with Image metadata information like Image DPI, Resolution and Image Size. Then it calculates similarity scores for each input key value pairs with the extracted details. This module provides support for passports of various countries listed below:

- USA passport and passport-card
- UAE
- INDIA
- CANADA
- AUSTRALIA
- BANGLADESH

All the details in the passport/ passport-card (in case of USA) are extracted and validated using "/validateInformation" API.

Brief of Working:

It takes "country", "key value pairs to be searched", "input documents" (including "document type" and "Base64 encoded image") of the passport as input. It internally generates processed text from the passport and extracts details like Name, First Name, Last Name, Gender, DOB, DOI and DOE, PP No. and Issuing Authority if present in the document. Along with the document details, it also gives image metadata information like Image DPI, Resolution and Size, etc. Then it calculates similarity scores for each input key value pairs with the extracted details. The output is represented in JSON format.

Input Request:

"/validateInformation" API -

Country, Array of key value pairs to be searched, Array of the documents (including Base64 encoded image and Document Type ("passport" in this case) for each document).

Sample input request:



```
"value": "-----value of key-----"
}

]

,

"docs": [

{

    "docType": "passport",

    "docBase64s": "-----base64 encoded image string-----"
}

]
```

NOTE: In case of USA, there are 2 types of documents: passport and passport-card. If the input document is of type passport-card, the docType should be mentioned as passport-card.



Output Response:

The output of "/validateInformation" API is the extracted details in the JSON format given below:

Sample output response:

```
{
  "documentDetails": [
    {
       "country": "UAE",
       "documents": {
          "document_1": [
            [
               {
                 "extractedValue": "7/11/2001",
                 "key": "dateOfBirth",
                 "similarityScore": 100.0,
                 "value": "7 Nov 2001"
              },
               {
                 "extractedValue": "12/6/2017",
                 "key": "dateOfissue",
                 "similarityScore": 100.0,
                 "value": "12 06 2017"
              },
               {
                 "extractedValue": "11/6/2022",
                 "key": "dateOfexpiry",
                 "similarityScore": 100.0,
                 "value": "11/06/2022"
              },
               {
                 "extractedValue": "SHAMA RASHED ABDULJALIL MOHAMED ALFAHIM",
                 "key": "nAME",
```



```
"similarityScore": 56.41,

"value": "SHAMA RASHED ABDULIALIL"

},

{

"extractedValue": "UNITED ARAB EMIRATES",

"key": "issuedCountry",

"similarityScore": 100.0,

"value": "UNITED ARAB EMIRATES"

}

]

]

}

}
```



}

8.4.2 Driving License Validation

This section describes the payload details for Driving License Details validation service.

Driving License Details Validation module extracts information present in the Driving License such as Name, First Name, Last Name, Gender, Address, License No, Date of Birth, Date of Issue and Date of expiry of the license along with the image metadata information like Image DPI, Resolution and Size. Then it calculates similarity scores for each input key value pairs with the extracted details. This module provides support for licenses of various countries listed below:

- UNITED STATES OF AMERICA
- UNITED KINGDOM
- CANADA
- AUSTRALIA
- BANGLADESH

All the details in the license are extracted and validated using "/validateInformation" API.

Brief of Working:

It takes "country", "key value pairs to be searched", "input documents" (including "document type" and "Base64 encoded image") of the passport as input. It internally generates processed text from the passport and extracts details like Name, First Name, Last Name, Gender, DOB, DOI and DOE, PP No. and Issuing Authority if present in the document. Along with the document details, it also gives image metadata information like Image DPI, Resolution and Size, etc. Then it calculates similarity scores for each input key value pairs with the extracted details. The output is represented in JSON format.

Input Request:

"/validateInformation" API -

Country, Array of key value pairs to be searched, Array of the documents (including Base64 encoded image and Document Type ("license" in this case) for each document).

Sample input request:

```
{
    "country": "US",
    "search": [
        [
```



```
"key": "-----name of key------"

"value": "-----value of key-----"

}

]

,

"docs": [

{

    "docType": "license",

    "docBase64s": "------base64 encoded image string------"

}

]
```

Output Response:

The output for "/validateInformation" API is the extracted details in the JSON format given below:

Sample output response:



```
{
  "extractedValue": "123 MAIN ST PHOENIX, AZ 85007",
  "key": "ADDress",
  "similarityScore": 80.0,
  "value": "787 Main st, phoenix, AZ 85007"
},
  "extractedValue": "1/1/1974",
  "key": "dateOfbirth",
  "similarityScore": 100.0,
  "value": "1/1/1974"
},
{
  "extractedValue": "1/3/2016",
  "key": "dateOfissue",
  "similarityScore": 100.0,
  "value": "03-01-16"
},
{
  "extractedValue": "M",
  "key": "gender",
  "similarityScore": 100.0,
  "value": "M"
},
{
  "extractedValue": "1/3/2024",
  "key": "dateOfexpiry",
  "similarityScore": 0.0,
```



```
"value": "03/03/24"

}

]

}

}
```



8.4.3 National Identification Validation

This section describes the payload details for National ID Card Details validation service.

National ID card Details Validation module extracts details in the National Identity Card like Name, First Name, Last Name, Gender, Address (if present), Date of Birth, Date of Issue and Date of expiry of the NID, ID No, etc along with the image metadata information like Image DPI, Resolution and Size. Then it calculates similarity scores for each input key value pairs with the extracted details. This module provides support for NIDs of various countries listed below:

- USA
- South Africa
- Brazil
- Bangladesh
- Canada
- India
- Kenya
- Portugal

All the details in the ID are extracted and validated using "/validateInformation" API.

Brief of Working:

It takes "country", "key value pairs to be searched", "input documents" (including "document type" and "Base64 encoded image") of the passport as input. It internally generates processed text from the passport and extracts details like Name, First Name, Last Name, Gender, DOB, DOI and DOE, PP No. and Issuing Authority if present in the document. Along with the document details, it also gives image metadata information like Image DPI, Resolution and Size, etc. Then it calculates similarity scores for each input key value pairs with the extracted details. The output is represented in JSON format.

Input Request:

"/validateInformation" API -

Country, Array of key value pairs to be searched, Array of the documents (including Base64 encoded image and Document Type ("nid" in this case) for each document).



Sample input request:

```
{
  "country": "BR",
  "search": [
    [
      {
        "key": "-----"
        "value": "-----value of key-----"
      }
    ]
  ],
  "docs": [
    {
     "docType": "nid",
       "docBase64s": "-----base64 encoded image string------"
    }
  ]
}
```



Output Request:

The output for "/validateInformation" API is the extracted details in the JSON format given below:

Sample output response:

```
{
   "documentDetails": [
    {
       "country": "BR",
       "documents": {
              {
                 "extractedValue": "FERNANDA DE CARVALHO DA SILVA",
                 "key": "name",
                 "similarityScore": 68.97,
                 "value": "FERNANDA DE CARVALHO"
              },
              {
                 "extractedValue": "000000005-9",
                 "key": "identificationNumber",
                 "similarityScore": 100.0,
                 "value": "00000005-9"
              },
              {
                 "extractedValue": "NA",
                 "key": "date",
                 "similarityScore": 0.0,
                 "value": "12/7/1960"
              },
              {
                 "extractedValue": "BRAZIL",
                 "key": "issuedCountry",
```





8.4.4 Voter Identity Card Validation

This section describes the payload details for Voter ID Card Details validation service.

Voter ID card Details Validation module extracts details in the Voter ID Card like Name, First Name, Last Name, Gender, Date of Birth and, ID No along with the image metadata information like Image DPI, Resolution and Size. Then it calculates similarity scores for each input key value pairs with the extracted details. This module provides support for Voter IDs of various countries listed below:

India

All the details in the ID are extracted and validated using "/validateInformation" API.

Brief of Working:

It takes "country", "key value pairs to be searched", "input documents" (including "document type" and "Base64 encoded image") of the passport as input. It internally generates processed text from the passport and extracts details like Name, First Name, Last Name, Gender, DOB, DOI and DOE, PP No. and Issuing Authority if present in the document. Along with the document details, it also gives image metadata information like Image DPI, Resolution and Size, etc. Then it calculates similarity scores for each input key value pairs with the extracted details. The output is represented in JSON format.

Input Request:

"/validateInformation" API -

Country, Array of key value pairs to be searched, Array of the documents (including Base64 encoded image and Document Type ("voterid" in this case) for each document).

Sample input request:



```
"docType": "voterid",

"docBase64s": "-----base64 encoded image string-----"
}
]
```

Output Request:

The output for "/validateInformation" API is the extracted details in the JSON format given below:

Sample output response:

```
{
 "documentDetails": [
   {
      "country": "IND",
      "documents": {
        "document_1": [
          [
             {
                "extractedValue": "PREM",
                "key": "firstName",
                "similarityScore": 100.0,
                "value": "PREM"
             },
             {
                "extractedValue": "PREM RAJ THAKUR",
                "key": "name",
                "similarityScore": 100.0,
                "value": "Prem RAJ Thakur"
             },
             {
                "extractedValue": "NA",
```



```
"key": "aDDress",
                  "similarityScore": 0.0,
                  "value": "Kanpur, India"
               },
               {
                  "extractedValue": "M",
                  "key": "GENDER",
                  "similarityScore": 0.0,
                  "value": "F"
               },
               {
                  "extractedValue": "GDN0225185",
                  "key": "identificationNumber",
                  "similarityScore": 90.0,
                  "value": "GAN0225185"
               }
            ]
          ]
       }
     }
  ]
}
```



8.4.5 Pointers about Request and Response

If "Country" is provided as empty string in the input request, the service return a message "Country is not provided in the input". If key "Country" is not provided/ is missing in the request, the service returns an exception/ error.

If input documents "Docs" are provided as empty list, the service return a message "Input documents are not provided". If key "Docs" is not provided/ is missing in the request, the service returns an exception/ error.

If either "DocType" is provided as empty string or key "DocType" not provided in the input request, the service returns an exception/ error.

If either the quality of the document is not enough to extract all the details or resolution is poor, the service returns an exception/error.

If input key value pairs list "Search" is provided as empty list, the service returns empty result along with input country. If key "Search" is not provided/ is missing in the request, the service returns an exception/ error.

8.4.6 Things to be taken care of

- Make sure the base64 encoded image string of the input image is correct.
- Make sure the document type of the input image is correct.
- Specify the country name correctly for accurate extraction of details



8.5 Recommendations for better performance

The better the quality of the source image, the higher the accuracy of extraction will be.

Keeping DPI lower than 200 will give unclear and incomprehensible results while keeping the DPI above 600 will unnecessarily increase the size of the output file without improving the quality of the file. Thus, a DPI of 300 works best for this purpose.

Following parameters determines the image quality

- Min text-size 10 pts (below 8pts are removed by noise)
- Min resolution (dpi) of 300 works best for Text Extraction.
- Sharp and visible characters
- Min image size of 200 kb
- Less image noise e.g., the image with shadows
- Image with background noise e.g., image containing background with text data in foreground.



9 File Upload

The following File Upload features are available in the respective common core maintenances

- Country Code File Upload
- Bank Core Parameters File Upload
- Branch Core Parameters File Upload
- Currency Definition File Upload
- BIC Directory File Upload
- Local Holiday File Upload
- Currency Holiday File Upload
- External Customer File Upload
- External Customer Account File Upload
- Exchange Rate File Upload

9.1 Country Code File Upload

Country Code File Upload is used to perform country code maintenance in common core.

File Type Supported - CSV

File Naming Convention - CmcCountryMaint_<UniqueName>.csv

Table 280: Country Code File Upload - Records

Sequence	Attribute Name	Туре	Size	Description	
Master record					
1	Action	String	10	Denotes file operation type. Allowed values are new/modify	
2	Country Code	String	3	Country Code	
3	Description	String	105	Name of the country	
4	Alt Country Code	String	10	Alternate Country Code	
5	Region Code	String	3	Region Code	



Sequence	Attribute Name	Туре	Size	Description
6	Blacklisted	String	1	Indicates the country is blacklisted
7	IBAN Check Reqd	String	1	Indicates check required for an IBAN is mandatory
8	Intra European	String	1	Denotes the country is an intra European country.
9	Clr Code Bic	String	1	BIC Clearing Code Indicates the National ID in the BIC plus file is the clearing code.
10	Clearing Network	String	6	Indicates the Clearing Network
11	ISO Num Country Code	String	3	Denotes the ISO Country Code
12	Gen Mt205	String	1	Indicates the cover message 205COV or 205
13	ISD Code	Number	10	Denotes the ISD Code
14	EU Country	String	1	Indicates the country is recognized by Swift as a part of the Intra European countries

- Action
- Country Code
- Description
- Alt Country Code
- Region Code
- Blacklisted
- IBAN Check Reqd
- Intra European
- Clr Code Bic
- ISO Num Country Code
- Gen Mt205
- ISD Code
- EU Country



9.2 Bank Core Parameters File Upload

Bank Core Parameters File Upload is used to perform bank core maintenance in common core.

File Type Supported - CSV

File Naming Convention - CmcBankMaint_<UniqueName>.csv

NOTE: Replace the <UniqueName> for each file upload.

Table 281: Bank Core Parameters File Upload - Records

Sequence	Attribute Name	Туре	Size	Description		
Master reco	Master record					
1	Action	String	10	Denotes file operation type. Allowed values are new/modify		
2	Days To Forget Customer	Number	4	Denotes Number of Days to inactive/Forget Customer		
3	HO Branch	String	3	Head Office Branch		
4	Bank Name	String	35	Name of the bank		
5	Bank Code	String	4	Denotes code for the bank		

- Action
- Days To Forget Customer
- HO Branch
- Bank Name
- Bank Code



9.3 Branch Core Parameters File Upload

Branch Code Parameters File Upload is used to perform branch code maintenance in common core.

File Type Supported - CSV

File Naming Convention - CmcBranchMaint_<UniqueName>.csv

Table 282: Branch Core Parameters File Upload - Records

Sequence	Attribute Name	Туре	Size	Description
Master reco	rd			
1	Discriminator	String	1	Denotes master record type. Default value is always "P"
2	Action	String	10	Denotes file operation type. Allowed values are new/modify
3	Source Branch Code	String	20	Code of the Source Branch
4	Source System	String	35	Source System
5	Week Hol2	String	1	Denotes the weekly holiday 2
6	Week Hol1	String	1	Denotes the weekly holiday 1
7	Auto Auth	String	1	Auto Authorization
8	Walkin Customer	String	20	Denotes Walk-in customer
9	Branch Lcy	String	3	Branch Local Currency
10	Branch Addr3	String	105	Denotes the branch address details - Address Line 1
11	Branch Addr2	String	105	Denotes the branch address details - Address Line 2
12	Branch Addr1	String	105	Denotes the branch address details - Address Line 3
13	Branch Name	String	105	Name of the branch
14	Country Code	String	3	Country Code



Sequence	Attribute Name	Туре	Size	Description			
15	Host Code	String	8	Host Code			
16	Branch Code	String	3	Denotes the Code of Branch			
Child record	Child record 1						
1	Discriminator	String	10	Denotes the first child record type. Default value is always "BranchPref"			
2	Report DSN	String	35	Denotes the details of the report DSN			
3	DSN Name	String	35	Name of the DSN			
4	Host Name	String	35	Host Name			
5	Branch Code	String	3	Denotes the Branch Code			
Child record	12						
1	Discriminator	String	12	Denotes the second child record type. Default value is always "SwiftAddress"			
2	Default BIC	String	1	Denotes the Default BIC			
3	Swift Address	String	12	Denotes the swift address details			
4	Branch Code	String	3	Branch Code			

- Discriminator
- Action
- Source Branch Code
- Source System
- Auto Auth
- Branch Lcy
- Branch Addr3
- Branch Addr2
- Branch Addr1
- Branch Name
- Country Code
- Host Code
- Branch Code



- Discriminator (Child record 1)
- Branch Code (Child record 1)
- Discriminator (Child record 2)
- Default BIC (Child record 2)
- Swift Address (Child record 2)
- Branch Code (Child record 2)

9.4 Currency Definition File Upload

Currency Definition Upload is used to perform currency definition maintenance in common core.

File Type Supported - CSV

File Naming Convention - CmcCurrencyMaint_<UniqueName>.csv

Table 283: Currency Definition File Upload - Records

Sequence	Attribute Name	Туре	Size	Description
Master reco	rd			
1	Discriminator	String	1	Denotes master record type. Default value is always "P"
2	Action	String	10	Denotes file operation type. Allowed values are new/modify
3	Currency Code	String	3	Denotes Currency Code
4	Currency Name	String	105	Name of the currency
5	Country	String	3	Currency Country
6	Currency Decimals	Number	1	Currency Decimals
7	Currency Round Rule	String	1	Denotes Currency Round Rule
8	Currency Round Unit	Number	7	Denotes Currency Round Unit
9	Currency Format Mask	String	1	Denotes Currency Format Mask



Sequence	Attribute Name	Туре	Size	Description
10	Currency Spot Days	Number	3	Number of spot working days applicable for the currency
11	Currency Int Method	Number	1	Currency Interest Method
12	Position GI	String	9	Position GL
13	Position Eqvgl	String	9	Position Equivalent GL
14	Currency Eur Type	String	1	Currency Euro Type
15	Currency Tol Limit	Number	7	Currency Tolerance Limit
16	Settlement Msg Days	Number	3	Settlement Message Days
17	Index Flag	String	1	Derives index rate of the currency
18	Index Base Currency	String	3	Index Base Currency
19	Cut Off Hr	Number	2	Hour of the day for the cut off
20	Cut Off Min	Number	2	Minute of the hour for the cut of
21	Alt Currency Code	String	10	Code of the alternate currency
22	Eur Conversion Reqd	String	1	Euro Conversion Required
23	Cut Off Days	Number	2	Cut Off Days for the payment transaction involving the currency
24	Cr Auto Ex Rate Lmt	Number	22	Credit Auto Exchange Rate Limit
25	Dr Auto Ex Rate Lmt	Number	22	Debit Auto Exchange Rate Limit
26	Currency Type	String	3	Denotes Currency Type



Sequence	Attribute Name	Туре	Size	Description
27	Gen 103p	String	1	Generate outgoing MT 103 messages in the MT 103 + format
28	Cls Currency	String	1	CLS Currency
29	Fx Netting Days	Number	3	Foreign Exchange Netting Days
30	Iso Num Currency Code	String	3	International Standardization Organization numerical currency code
31	Gen Cust Cov	String	1	New Cover Message Format Required
32	Validate 50f	String	1	Validate Tag-50F
33	Maintenance Country	String	3	Maintenance Country
34	Commodity Code	String	1	Denotes Commodity Code
Child record	I			
1	Discriminator	String	1	Denotes child record type. Default value is always "C"
2	Maintenance Country	String	3	Maintenance Country
3	Country Code	String	3	Denotes Country Code
4	Country Desc	String	105	Name of the Country
5	Currency Code	String	3	Denotes Currency Code

- Discriminator
- Action
- Currency Code
- Currency Name
- Country
- Currency Decimals
- Currency Round Rule
- Currency Round Unit
- Currency Spot Days



- Currency Int Method
- Currency Eur Type
- Settlement Msg Days
- Index Flag
- Cut Off Hr
- Cut Off Min
- Alt Currency Code
- Eur Conversion Reqd
- Cut Off Days
- Gen 103p
- Cls Currency
- Fx Netting Days
- Gen Cust Cov
- Validate 50f
- Maintenance Country
- Commodity Code
- Discriminator (Child Record)
- Maintenance Country (Child Record)
- Country Code (Child Record)
- Country Desc (Child Record)
- Currency Code (Child Record)

9.5 BIC Directory File Upload

BIC Directory File Upload is used to perform BIC directory maintenance in common core.

File Type Supported - CSV

File Naming Convention - CmcBICDirectory_<UniqueName>.csv

Table 284: BIC Directory File Upload – Records

Sequence	Attribute Name	Туре	Size	Description	
Master record					
1	Action	String	10	Denotes file operation type. Allowed values are new/modify	
2	BIC Code	String	11	Indicates the unique BIC Code by which the bank is identified by SWIFT.	
3	Bank Name	String	35	Name of the bank	



Sequence	Attribute Name	Туре	Size	Description
4	Customer No	String	20	Customer Number
5	Sk Arrangement	String	1	Denotes the SWIFT key arrangement
6	Bank Address1	String	35	Indicates the bank address details of the customer - Address Line 1
7	Bank Address2	String	35	Indicates the bank address details of the customer - Address Line 2
8	Bank Address3	String	90	Indicates the bank address details of the customer - Address Line 3
9	Relationship	String	1	Relationship
10	Swift Key	String	50	Denotes the swift key details
11	Telex Key	String	50	Indicates the unique telex key for the BIC directory
12	Upload Flag	String	1	Upload Flag for the BIC directory
13	Upload Update	String	1	Updated the BIC directory during an upload
14	Gen Mt103	String	1	Indicates the counter party whose BIC code details you are capturing capacitate to receive payment messages in the MT 103 format
15	Blacklisted	String	1	Indicates the BIC entity is blacklisted
16	CUG Member	String	1	Indicates the BIC entity is a closed user group member
17	Gen Mt103p	String	1	Indicates the counter party whose BIC code details you are capturing capacitate to receive payment messages in the MT 103 format
18	Multi Cust Transfer	String	1	Denotes the Multi-Customer Credit Transfer details



Sequence	Attribute Name	Туре	Size	Description
19	Max Size	Number	38	Indicates the maximum size
				Indicates the customer is registered with MT 103 extended remittance
20	Remit Member	String	1	information multiple user group
21	Sub Type Code	String	4	Denotes the Sub-Type Code
22	Gen Mt102p	String	1	Generates 102+ message
23	Gen Mt101	String	1	Indicates MT101 can be sent/received from this BIC
	Transaction Per			
24	Msg	Number	40	Number of Transactions Per Page
25	ADB Member	String	1	Denotes the ADB member
26	BE Indicator	String	1	Denotes the BEI Indicator

- Action
- BIC Code
- Bank Name
- Sk Arrangement
- Bank Address1
- Bank Address2
- Bank Address3
- Relationship
- Swift Key
- Telex Key
- Upload Flag
- Upload Update
- Gen Mt103
- Blacklisted
- CUG Member
- Gen Mt103p
- Multi Cust Transfer
- Max Size
- Remit Member
- Gen Mt102p



- Gen Mt101
- Transaction Per Msg
- ADB Member
- BE Indicator

9.6 Local Holiday File Upload

Local Holiday File Upload is used to perform local holiday maintenance in common core.

File Type Supported - CSV

File Naming Convention - CmcBranchLocalHoliday_<UniqueName>.csv

NOTE: Replace the <UniqueName> for each file upload.

Table 285: Local Holiday File Upload - Records

Sequence	Attribute Name	Туре	Size	Description			
Master reco	Master record						
1	Discriminator	String	1	Denotes master record type. Default value is always "P"			
2	Action	String	10	Denotes file operation type. Allowed values are new/modify			
3	Branch Code	String	3	Branch Code			
4	Year	Number	4	Indicates the year details			
5	Weekly Holidays	String	7	Defines weekly holidays			
6	Unexp Hol	String	1	Define unexpected holidays			
Child record	I						
1	Discriminator	String	1	Denotes child record type. Default value is always "C"			
2	Branch Code	String	3	Branch Code			
3	Year	Number	4	Indicates the year details			
4	Month	Number	2	Indicates the month details			
5	Holiday List	String	31	Denotes the Holiday List			



- Discriminator
- Action
- Branch Code
- Year
- Weekly Holidays
- Unexp Hol
- Discriminator (Child record)
- Branch Code (Child record)
- Year (Child record)
- Month (Child record)
- Holiday List (Child record)

9.7 Currency Holiday File Upload

Country Code File Upload is used to perform country code maintenance in common core.

File Type Supported - CSV

File Naming Convention - CmcCurrencyHoliday_<UniqueName>.csv

Table 286: Country Code File Upload - Records

Sequence	Attribute Name	Туре	Size	Description			
Master reco	Master record						
1	Discriminator	String	1	Denotes master record type. Default value is always "P"			
2	Action	String	10	Denotes file operation type. Allowed values are new/modify			
3	Currency	String	3	Currency			
4	Year	Number	4	Indicates the year details			
5	Weekly Holidays	String	7	Defines weekly holidays			
Child record	Child record						
1	Discriminator	String	1	Denotes child record type. Default value is always "C"			
2	Currency	String	3	Currency			



Sequence	Attribute Name	Туре	Size	Description
3	Year	String	4	Indicates the year details
4	Month	Number	2	Indicates the month details
5	Holiday List	String	31	Denotes the Holiday List

- Discriminator
- Action
- Currency
- Year
- Weekly Holidays
- Discriminator (Child record)
- Currency (Child record)
- Year (Child record)
- Month (Child record)
- Holiday List (Child record)

9.8 External Customer File Upload

External Customer File Upload is used to perform external customer maintenance in common core.

File Type Supported - CSV

File Naming Convention - CmcCustomerMaint_<UniqueName>.csv

Table 287: External Customer File Upload - Records

Sequence	Attribute Name	Туре	Size	Description
Master reco	rd			
1	Action	String	10	Denotes file operation type. Allowed values are new/modify
2	Country	String	3	Country of the customer
3	Language	String	3	Denotes the Language of the customer
4	Nationality	String	3	Denotes the Nationality of the customer



Sequence	Attribute Name	Туре	Size	Description
5	Locale	String	10	Indicates the Locale of the customer
6	Deceased	String	1	Indicates the customer is deceased
7	Frozen	String	1	Denotes the customer account is frozen
8	Whereabouts Unknown	String	1	Indicates the customer's whereabouts are unknown
9	Rmld	String	12	Relationship Manager ID
10	Sanctions Checks Required	String	1	Indicates the sanction check is required
11	Staff	String	1	Indicates a staff customer
12	Walkin Customer	String	1	Indicates a walk-in customer
13	Source System	String	35	Source System
14	Source System Cust No	String	35	Denotes the Source System Customer Number
15	Customer No	String	20	Number for the customer
16	Host Code	String	8	Denotes the Host Code
17	Customer Type	String	1	Type of Customer
18	Customer Category	String	10	Denotes the Customer Category
19	Customer Name1	String	105	Name of the customer
20	Short Name	String	20	Short name of the customer
21	Address Line1	String	105	Indicates the customer address details - Address Line 1
22	Address Line2	String	105	Indicates the customer address details - Address Line 2



Sequence	Attribute Name	Туре	Size	Description
23	Address Line3	String	105	Indicates the customer address details - Address Line 3
24	Address Line4	String	105	Indicates the customer address details - Address Line 4
25	Pincode	String	15	Denotes the postal code details of the customer

- Action
- Country
- Language
- Nationality
- Deceased
- Frozen
- Whereabouts Unknown
- Sanctions Checks Required
- Staff
- Walkin Customer
- Source System
- Source System Cust No
- Customer No
- Customer Type
- Customer Name1
- Short Name
- Address Line1
- Address Line2
- Address Line3
- Address Line4
- Pincode



9.9 External Customer Account File Upload

External Customer Account File Upload is used to perform external customer account maintenance in common core.

File Type Supported - CSV

File Naming Convention - CmcAccountMaint_<UniqueName>.csv

Table 288: External Customer Account File Upload - Records

Sequence	Attribute Name	Туре	Size	Description		
Master reco	Master record					
1	Action	String	10	Denotes file operation type. Allowed values are new/modify		
2	Country Code	String	10	Country Code		
3	Address4	String	105	Denotes the address details - Address Line 4		
4	Address3	String	105	Denotes the address details - Address Line 3		
5	Address2	String	105	Denotes the address details - Address Line 2		
6	Address1	String	105	Denotes the address details - Address Line 1		
7	Eca Check Req	String	1	Indicates External Credit Approval Required check is required for the external customer account		
8	Account Class	String	6	Denotes the Account Class		
9	Ac Stat Dormant	String	1	Indicates the account status is dormant		
10	Ac Stat Frozen	String	1	Indicates the account status is frozen		
11	GI Stat Blocked	String	1	Indicates the account status is blocked		



Sequence	Attribute Name	Туре	Size	Description
12	Ac Stat No Dr	String	1	Indicates the account does not have any debit facility
13	Ac Stat No Cr	String	1	Indicates the account does not have any credit facility
14	Ac Open Date	String	35	Denotes the Account Open Date (Date format should be yyyy-MM-dd, i.e. 2018-03-30)
15	Cust Ac Name	String	105	Account Name of the customer
16	Cust Ac Ccy	String	3	Account Currency of the customer
17	Customer No	String	20	Indicates the Customer Number
18	Source System Acc Brn	String	20	Denotes the Source Account Branch
19	Source System Acc No	String	35	Denotes the Source Customer Account Number
20	Source System	String	35	Source System
21	Cust Ac IBAN	String	35	Indicates the account IBAN details
22	Host Code	String	8	Denotes the host code details
23	Cust Account No	String	20	Indicates the Customer Account Number

- Action
- Country Code
- Address4
- Address3
- Address2
- Address1
- Eca Check Req
- Account Class
- Ac Stat Dormant
- Ac Stat Frozen



- Gl Stat Blocked
- Ac Stat No Dr
- Ac Stat No Cr
- Ac Open Date
- Cust Ac Name
- Cust Ac Ccy
- Customer No
- Source System Acc Brn
- Source System Acc No
- Source System
- Host Code
- Cust Account No

9.10 Exchange Rate File Upload

Exchange Rate File Upload is used to perform exchange rate maintenance in common core.

File Type Supported - CSV

File Naming Convention - CmcCurrencyExchangeRate_<UniqueName>.csv

Table 289: Exchange Rate File Upload - Records

Sequence	Attribute Name	Туре	Size	Description			
Master reco	Master record						
1	Discriminator	String	1	Denotes master record type. Default value is always "P"			
2	Action	String	10	Denotes file operation type. Allowed values are new/modify			
3	Branch Code	String	3	Branch for which exchange rate is applicable			
4	Currency1	String	3	From currency pair			
5	Currency2	String	3	To currency pair			
Child record							
1	Discriminator	String	1	Denotes child record type. Default value is always "C"			



Sequence	Attribute Name	Туре	Size	Description
2	Branch Code	String	3	Branch for which exchange rate is applicable
3	Currency1	String	3	From currency pair
4	Currency2	String	3	To currency pair
5	Rate Type	Number	8	Denotes rate type defined in the system
6	Mid Rate	Number	25	Mid rate applicable for the current pair
7	Buy Spread	Number	40	Buy spread applicable for the currency
8	Sale Spread	Number	40	Sell spread applicable for the currency
9	Buy Rate	Number	25	Buy rate applicable for the currency
10	Sale Rate	Number	25	Sell rate applicable for the currency
11	Rate Date	String	35	Effective date applicable for the rate

- Discriminator
- Action
- Branch Code
- Currency1
- Currency2
- Discriminator
- Branch Code
- Currency1
- Currency2
- Rate Type
- Mid Rate
- Buy Spread
- Sale Spread
- Buy Rate
- Sale Rate
- Rate Date



10 Error Codes and Messages

This topic contains the error codes and messages:

Table 290: 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



Messages
Euro Conversion required cannot be changed for the currency types out, Euro and Euro closed
Spot days is less than fx netting days
Currency Cut Off days cannot be greater than spot days for currency
Spot Days for currency cannot be lesser than cut off days for currency
Value should be in range of 1 and 99 for Cut Off Days
Value should be in range of 1 and 23 for Cut Off Hour
Value should be in range of 1 and 59 for Cut Off Min
Value cannot be less than .00000 for Currency Total limit
Value should be in range of 0 and 3 for Currency Decimal
Country Code is Mandatory
Duplicate records exists in Currency Country Mapping
Mandatory field Country is not entered in Currency Country Mapping
Currency Code is NULL
Date is NULL
Date is Invalid (should be in yyyy-mm-dd format)
No record found
Next/Previous indicator is NULL (should be either N or P)
Next/Previous indicator is Invalid (should be either N or P)
Lower Limit Date is Invalid (should be in yyyy-mm-dd format)
Upper Limit Date is Invalid (should be in yyyy-mm-dd format)
Offset is NULL
Offset is Invalid (should be > 0)



Messages
Input date should be between Upper limit date and Lower limit date
Duplicate records exists in CurrencyHolidays
Mandatory Through Currency Code is not entered
Cannot change spread definition option for through currency pair
Through currency should be blank if the through currency is unchecked
Through currency has to be of type Euro
Through Currency is not allowed for Euro In Currency Pair
Points multiplier should be in the range 0 - 1
MidRate is invalid
BuySpread is invalid
SaleSpread is invalid
Atleast one Currency Rate Should be Maintained
Duplicate records exists in Rate
Currency Code is NULL
Currency Code is Empty
Amount is NULL
Option is NULL
Option is Empty
Method is NULL
Method is Empty
Decimal is NULL
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



Messages
Record successfully deleted
User doesnt have access to PII data, cannot perform create or modify operations
Invoked EOD successfully
Failed while resolving current date
EOD flow is not maintained for \$1 branch
EOD already invoked for today
Unable to invoke EOD
Retried EOD successfully
Failed to retry EOD
Pending maintenances exist. Failed to start EOD
Failed during pending maintenance check
Pending transactions exist. Failed to start EOD
Failed during pending transaction check
Marked cutoff for the branch successfully
Branch not in Transaction Input. Cannot mark cutoff
Branch not in BOD stage. Cannot release cutoff
Released cutoff for the branch successfully
Branch cutoff not released. Cannot mark Transaction Input
Branch cutoff not marked. Cannot mark End of Transaction Input
Request is null, not valid.
Forget customers request created successfully.
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-000	Failed with error - \$1
CMC-INDBML-001	Usecase already exists with a same name
CMC-INDBML-002	Target Column cannot be null
CMC-INDBML-003	Unique Case Identifier Column cannot be null
CMC-INDBML-004	Invalid Partition column value
CMC-INDBML-005	Duplicate Column Values
CMC-INDBML-006	Partition Columns cannot be same as either of target, usecase identifier or prediction column.
CMC-INDBML-007	\$1 and \$2 are not similar
CMC-INDBML-008	Invalid Table Name
CMC-INDBML-009	Unable to save model monitoring details
CMC-LOV-001	Invalid Source Code
CMC-LOV-002	Invalid Currency
CMC-LOV-003	Cannot Close the record for which rates are maintained
CMC-LOV-004	Invalid Language Code



Error Codes	Messages
CMC-LOV-005	Invalid Country
CMC-LOV-006	Invalid GLCode
CMC-LOV-007	Invalid Limit Currency
CMC-LOV-008	Invalid Year
CMC-LOV-009	Invalid Month
CMC-LOV-010	Amount Limit Exceeds
CMC-LOV-011	Invalid Version
CMC-LOV-012	Rate Type \$1 is invalid
CMC-NLP-000	System is unable to process the request
CMC-NLP-001	Training File created successfully
CMC-NLP-002	Training File creation failed
CMC-NLP-003	Service definition not found for \$1 for use case \$2
CMC-NLP-004	Unsupported file type uploaded please upload supported file type
CMC-NLP-005	You 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-NLP-010	Run Reference is already mapped with Usecase
CMC-NLP-011	Usecase is not present. Cannot import model
CMC-NLP-012	Model Import code is not valid. Please check again.
CMC-OBRH-001	Record already exists.
CMC-OBRH-002	Record saved successfully.



Error Codes	Messages
CMC-OBRH-003	Record does not exist.
CMC-OBRH-004	Invalid Payload
CMC-OBRH-005	Record deleted successfully.
CMC-OBRH-006	Record modified successfully.
CMC-OBRH-007	Data fetched successfully.
CMC-OBRH-008	Data exported successfully.
CMC-OBRH-009	Failed to get data.
CMC-OBRH-010	Cannot start disabled route.
CMC-OBRH-011	Data imported successfully.
CMC-OBRH-012	Failed to import.
CMC-OBRH-013	Failed to parse [\$1]
CMC-OBRH-014	Data extracted successfully.
CMC-OBRH-015	Route state cannot be changed to Start as Consumer Service / Provider is inactive.
CMC-OBRH-016	Modified/Deleted attribute is already in use by route.
CMC-OBRH-017	Something went wrong!
CMC-OBRH-018	Imported WSDL successfully
CMC-OBRH-019	Imported Swagger successfully
CMC-OBRH-020	Failed to import [\$1]
CMC-OBRH-021	Failed to export [\$1]
CMC-OBRH-022	Request failed [\$1]
CMC-OBRH-023	Request is being processed
CMC-ORCH-001	Failed to initiate.



Error Codes	Messages
CMC-ORCH-002	Transaction is successfully initiated.
CMC-ORCH-003	Invalid action, failed to initiate.
CMC-ORCH-004	\$1 is not submitted, transaction remains the same.
CMC-ORCH-005	Cannot proceed with submit as the action is not initiated.
CMC-ORCH-006	Cannot proceed with submit as the information is incomplete.
CMC-ORCH-007	Failed to submit.
CMC-ORCH-008	Record successfully submitted.
CMC-ORCH-009	\$1 is in-progress, failed to initiate.
CMC-ORCH-010	Aw, snap! An unexpected exception occurred, try again.
CMC-ORCH-011	Invalid request.
CMC-ORCH-012	Cannot proceed with submit as the action is not initiated.
CMC-ORCH-013	Cannot find the provided information.
CMC-ORCH-014	Record is not yet submitted by \$1, cannot initiate the action.
CMC-ORCH-015	Record already unlocked by \$1.
CMC-ORCH-016	One record can be authorized at a time. Please close the screen and try again
CMC-ORCH-017	Current operation terminated
CMC-ORCH-018	Current operation could not be terminated
CMC-OV-001	Override Codes must not be empty
CMC-OV-002	Business Overrides Saved Successfully
CMC-OV-003	Business Overrides Updated Successfully
CMC-OV-004	Business Overrides Authorized Successfully
CMC-OV-005	Business Overrides Approval Pending



Error Codes	Messages
CMC-OV-006	Maker Cannot Authorize
CMC-OV-007	Multiple Authorizations not allowed for checker
CMC-OV-008	No Records found for approval
CMC-OV-009	Maker should approve the records
CMC-OV-010	Reference number is not valid
CMC-OV-011	Exception Occurred while converting string to number
CMC-OV-012	Server Error Occurred during API call
CMC-OV-013	Client Error Occurred during API call
CMC-OV-014	Illegal State Exception Occurred
CMC-OV-015	JTA Transaction unexpectedly rolled back
CMC-OV-016	Exception Occurred while creating Bean
CMC-OV-017	Unexpected Exception Occurred
CMC-OV-018	Exception Occurred while Executing Query
CMC-STR-001	mandatory fields are missing
CMC-STR-002	invalid real account number
CMC-STR-003	Real Account No cannot be modified
CMC-STR-004	Structured Address is already created for this Real Account
CMC-STR-005	Structured Address is already created for this External Virtual Account
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



Error Codes	Messages
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
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



Error Codes	Messages	
GCS-DEL-004	Send all unauthorized modifications to be deleted for record that is no 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	
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-TS-001	Invalid Data Source	



Error Codes	Messages
ML-TS-002	Invalid datatype for case ID
ML-TS-003	Timeseries Model Training Failed
ML-TS-004	Use Case Name cannot have dash
ML-RG-001	Regression Model Build Failed
ML-RG-002	Regression Model Statistics Calculation Failed
ML-RG-003	Cross Validation Failed
ML-RG-004	Model Selection Failed
ML-RG-005	Model Successfully Trained
ML-RG-006	Invalid Use Case Selected
ML-RG-007	No Trained Model found
ML-RG-008	Batch Scoring Failed
ML-RG-009	Successfully completed Batch scoring
ML-CLS-001	Mandatory IN Parameters are NULL
ML-CLS-002	Stratified Sampling Failed
ML-CLS-003	Stratified dataset Split Failed
ML-CLS-004	Correlation Check Failed
ML-CLS-005	Model Metrics Computation Failed
ML-CLS-006	Only Binary Target Class Supported for Generalized Linear Model
ML-CLS-007	Failed to Select Final Algorithm
ML-CLS-008	Dynamic Execute Statement Failed
ML-CLS-009	Classification Model Build Failed
ML-CLS-010	Classification Model Successfully Built
ML-CLS-011	No Trained Classification Model Found



Error Codes	Messages	
ML-CLS-012	Failed to Predict	
ML-CLS-013	Classification Batch Scoring Failed	
ML-CLS-014	Successfully completed Batch scoring. Result are available at \$1	
ML-CORR-001	Correlation completed successfully	
ML-CORR-002	Correlation Failed	
ML-CORR-003	Correlation analysis not completed fully	
ML-UTIL-001	Invalid Table Name	
ML-UTIL-002	Invalid column Name(s)	
ML-UTIL-003	Failed in Random Sampling	
ML-UTIL-004	Too less data for model building	
ML-UTIL-005	Failed in Splitting Data	
ML-UTIL-006	Failed in Selecting Feature	
ML-UTIL-007	Failed to Drop Model(s)	
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	



Error Codes	Messages	
CBS-CRITERIA-008	Enter a valid number for Priority	
CBS-CRITERIA-009	Duplicate entries found for Rule ID	
CBS-CRITERIA-010	Duplicate entries found for Priority	
CBS-CRITERIA-011	Enter valid Parent Rule ID for	
CBS-CRITERIA-012	Duplicate entries found for Rule ID	
CBS-CRITERIA-013	Cannot add child Rule when Call All Bureau is enabled	
CBS-CRITERIA-014	Duplicate entries found for Priority	
CBS_ERR_004	Parameter description cannot be modified	
CBS_LKUP_01 Duplicate entries found for Lookup Code		
CBS_500	Error occurred at Bureau Call	
CB3_300	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	
050_100	Empty response from Oracle Banking Routing Hub from bureau call	
	Bureau identification Rule not found for given facts	
CBS-CRTR-015	Criteria Code has exceeded the max length specified	
CBS-CRTR-016	Description has exceeded the max length specified	
CBS-CRTR-017	Rule Id has exceeded the max length specified	
CBS-CRTR-018	Rule Description has exceeded the max length specified	
CBS_BR_DTLS_NOT_ FOUND	Bureau Details are not provided	
CBS_BR_DTLS_NOT_ MNT	Bureau Details are not maintained for +{reqBureauProductType} (variable, value will be replaced at runtime from payload)	



Error Codes	Messages		
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		
CDS-DML-002	Maintain at least one record in \$1		
CDS-DML-014	Effective date cannot be less than the Product Processor Effective date.		
CDS-PRC-014	Effective date cannot be less than the Product Processor Effective Date.		
CDS-DML-017	if dmlAppEnabledInd is selected as N then dmlFeature can not be null		
CDS-DML-018	if dmlAppEnabledInd is selected as y then dmlScoreRuleId can not be null		
CDS-DML-022	Input parameter is missing or incorrect. Unable to resolve any scoring model		
CDS-DML-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	nput parameter is missing or incorrect. Unable to resolve any pricing etup		



Error Codes	Messages		
CDS-QFT-001	if qftRuleApplicableInd is selected as y then qftRuleName and qftRuleId cannot be null		
CDS-QFT-002	if qftRuleApplicableInd is selected as N then qftFactName and qftFactId cannot be null		
CDS-QFT-005	qftCode cannot be other than alphanumeric		
CDS-QFT-004	Fact or rule not found		
CDS-DML-008	Invalid rule name		
CDS-PRC-0010	Fact or rule not found		
CDS-PRC-007	Pricing Rate definition should be greater than or equal to minimum rate and less than or equal to maximum rate		
CDS-PRC-009	rate percentage of range cannot be equal to zero or less than the previous one		
CDS-PRC-005	\$1 should be equal to or greater than the System date		
CDS-PRC-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		



Error Codes	Messages	
CDS-DML-019	Unable to resolve the best fit scoring model. Multiple scoring model resolved	
CDS-DML-016	Unable to resolve the best fit pricing model. Multiple pricing model resolved	
CDS-DML-004	The sum of weightage assigned to the feature code should be 100	
CDS-PPR-002	Effective date should be less than Expiry Date	
CDS-PRC-013	Rate definition should be greater than or equal to minimum rate and less than or equal to maximum rate	
CDS-DML-020	Unable to resolve the best fit application scoring model Multiple application scoring model resolved	
CDS-DML-021	Unable to resolve the best fit decision and grade matrix. Multiple decision and grade matrix resolved	
CDS-BWC-001	\$1 should be equal to or greater than the System date	
CDS-BWC-002	Maintain at least one record in \$1	
CDS-BWC-003	Effective date should be less than the Expiry Date	
CDS-BWC-014	Effective date cannot be less than the Product Processor Effective date	
CDS-STG-006	Effective Date cannot be null or blank	
CDS-STG-007	Expiry Date cannot be null or blank	
CDS-STG-008	Industry cannot be null or blank	
CDS-STG-009	Module cannot be null or blank	
CDS-STG-010	Line of Business cannot be null or blank	
CDS-STG-011	Effective date should be less than the Expiry Date	
CDS-STG-012	Expiry Date should be equal to or greater then the System date	
CDS-STG-013	Invalid Strategy Code	
CDS-STG-014	Invalid Industry	
CDS-STG-015	Invalid Module	
CDS-STG-016	Invalid Line of Business	
CDS-STG-017	Invalid product processor	



Error Codes	Messages		
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-043	Invalid \$1 sent		
CDS-DML-040	FeatureDTO missing. Kindly enter the details		
CDS-LML-029	Logical Model Reason Code is Invalid		
CDS-DML-024	Negative values not allowed		
CDS-DML-025	Category not allowed in case of multi applicant scoring model		
CDS-DML-026	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		
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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 Rule Id cannot be duplicate CDS-LML-027 Rule Id cannot be duplicate CDS-QUR-001 Invalid Input for Questionnaireld, can not be null or blank CDS-QUR-002 Invalid Input for Questionnaireld, null or blank required Invalid Input for Questionnaireld, null or blank required CDS-QUR-003 Invalid Input for Questionnaireld, null or blank required CDS-QUR-004 Invalid Input for Questionnaire on the null or empty 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 Type 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 Code size must be between 1 and 240 Question Sequence Number cannot be null, empty or zero, negetive CDS-QUR-016 Question Sequence Number cannot be null, empty or zero, negetive CDS-QUR-017 Answer Option Sequence Number cannot be duplicate for a questionnaire CDS-QUR-019 Answer Option Sequence Number cannot be duplicate for a Question Sequence Number cannot be duplicate for a Question CDS-QUR-019 Answer Option Sequence Number cannot be duplicate for a Question CDS-QUR-020 Answer Option Sequence Number cannot be duplicate for a Question CDS-QUR-020 Answer Option Sequence Number cannot be duplicate for a Question CDS-QUR-020 Answer Option Sequence Number cannot be duplicate for a Question CDS-QUR-020 Answer Option Sequence Number cannot be duplicate for a Question CDS-	Error Codes	Messages		
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 CDS-QUR-003 Invalid Input for Questionld, null or blank required CDS-QUR-004 Invalid Input for Questionld, 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 Short Name cannot be null or empty CDS-QUR-010 Question Description cannot be null or empty CDS-QUR-011 Question Description 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 Sequence Number cannot be null, empty or zero, negetive CDS-QUR-016 Question Sequence Number cannot be duplicate for a questionnaire CDS-QUR-018 Question Sequence Number cannot be duplicate for a Question Sequence Number cannot be duplicate for a Question Sequence Number cannot be duplicate for a Question Answer Option Sequence Number cannot be duplicate for a Question Sequence Number cannot be duplicate for a Question Answer Option Sequence Number cannot be duplicate for a Question Answer Option Sequence Number cannot be duplicate for a Question Answer Option Sequence Number cannot be duplicate for a Question CDS-QUR-019 Answer Option Sequence Number cannot be duplicate for a Question CDS-QUR-020 Answer Option Sequence Number cannot be duplicate for a Question CDS-QUR-021 Answer Option Sequence Number cannot be duplicate for a Question CDS-QUR-020 Answer Option Sequence Number can	CDS-LML-021	Reason Code cannot be null		
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 Priority must be in the range of 1 to 100 CDS-LML-027 Rule Id cannot be duplicate CDS-LML-028 Invalid Rule Id CDS-QUR-001 Invalid Input for QuestionnaireId, can not be null or blank CDS-QUR-002 Invalid Input for QuestionnaireId, null or blank required CDS-QUR-003 Invalid Input for Questionld, null or blank required CDS-QUR-004 Invalid Input for Questionld, 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 Short Name cannot be null or empty CDS-QUR-010 Question Description cannot be null or empty CDS-QUR-011 Question Description 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 duplicate for a questionnaire 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 Sequence Number cannot be duplicate for a Questionnaire CDS-QUR-019 Answer Option Sequence Number cannot be duplicate for a Questionnaire CDS-QUR-019 Answer Option Sequence Number cannot be duplicate for a Questionnaire CDS-QUR-019 Answer Option Sequence Number cannot be duplicate for a Question CDS-QUR-019 Answer Option Sequence Number cannot be duplicate for a Question CDS-QUR-019 Answer Option Sequence Number cannot be duplicate for a Question CDS-QUR-020 Answer Option Sequence Number cannot be duplicate for a Question CDS-QUR-020 Answer Optio	CDS-LML-022	Logical Model comments size must be between 1 and 80		
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 Rule Id cannot be duplicate 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 CDS-QUR-003 Invalid Input for Questionld, null or blank required CDS-QUR-004 Invalid Input for Questionld, 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 Question Code cannot be duplicate for a product processor 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 duplicate for a Questionnaire CDS-QUR-018 Question Sequence Number cannot be duplicate for a Question Sequence Number cannot be duplicate for a Question Answer Optionl Sequence Number cannot be duplicate for a Question CDS-QUR-019 Answer Optionl cannot be null or empty CDS-QUR-020 Answer Optionl cannot be duplicate for a question CDS-QUR-021 Answer Optionl cannot be duplicate for a question CDS-QUR-020 Answer Optionl cannot be duplicate for a question CDS-QUR-020 Answer Optionl cannot be duplicate for a question CDS-QUR-020 Answer Optionl cannot be duplicate for a question	CDS-LML-023	Logical Model Sequence must be in the range of 1 to 999		
CDS-LML-026 Logical Model Details cannot be null or empty CDS-LML-027 Rule Id cannot be duplicate Invalid Rule Id CDS-LML-028 Invalid Rule Id CDS-QUR-001 Invalid Input for QuestionnaireId, can not be null or blank CDS-QUR-002 Invalid Input for QuestionnaireId, null or blank required CDS-QUR-003 Invalid Input for QuestionId, null or blank required CDS-QUR-004 Invalid Input for QuestionId, and 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 Code cannot be duplicate for a product processor CDS-QUR-015 Question Sequence Number cannot be null, empty or zero, negetive CDS-QUR-017 Answer Option Sequence Number cannot be duplicate for a questionnaire CDS-QUR-018 Question Sequence Number cannot be duplicate for a Question Sequence Number cannot be duplicate for a Question CDS-QUR-019 Answer Option Sequence Number cannot be duplicate for a Question CDS-QUR-019 Answer Option Sequence Number cannot be duplicate for a Question CDS-QUR-020 Answer OptionId cannot be duplicate for a question CDS-QUR-021 Answer OptionId cannot be duplicate for a question CDS-QUR-021 Answer OptionId cannot be duplicate for a question CDS-QUR-020 Incorrect execution stage CDS-BWC-004 Incorrect execution stage	CDS-LML-024	Logical Model Sequence is Incorrect		
CDS-LML-027 Rule Id cannot be duplicate CDS-LML-028 Invalid Rule Id CDS-QUR-001 Invalid Input for QuestionnaireId, can not be null or blank CDS-QUR-002 Invalid Input for QuestionnaireId, null or blank required CDS-QUR-003 Invalid Input for QuestionId, null or blank required CDS-QUR-004 Invalid Input for QuestionId, and 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 duplicate for a questionnaire CDS-QUR-019 Answer Option Sequence Number cannot be duplicate for a Questionnaire CDS-QUR-020 Answer Option Sequence Number cannot be duplicate for a Question CDS-QUR-020 Answer Option Sequence Number cannot be duplicate for a Question CDS-QUR-020 Answer Option Sequence Number cannot be duplicate for a Question CDS-QUR-021 Answer Option Sequence Number cannot be duplicate for a Question CDS-QUR-020 Answer Option Sequence Number cannot be duplicate for a Question CDS-QUR-020 Answer Option Sequence Number cannot be duplicate for a Question CDS-BWC-004 Incorrect execution stage S1 fact or rule not found	CDS-LML-025	Logical Model Priority must be in the range of 1 to 100		
CDS-LML-028 Invalid Rule Id CDS-QUR-001 Invalid Input for QuestionnaireId, can not be null or blank CDS-QUR-002 Invalid Input for QuestionnaireId, null or blank required CDS-QUR-003 Invalid Input for Questionld, null or blank required CDS-QUR-004 Invalid Input for Questionld, 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 duplicate for a questionnaire 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 Optionld cannot be duplicate for a question CDS-QUR-021 Answer Optionld cannot be duplicate for a question CDS-QUR-021 Answer Optionld cannot be duplicate for a question CDS-BWC-004 Incorrect execution stage S1 fact or rule not found	CDS-LML-026	Logical Model Details cannot be null or empty		
CDS-QUR-001 Invalid Input for QuestionnaireId, can not be null or blank CDS-QUR-002 Invalid Input for QuestionnaireId, null or blank required CDS-QUR-003 Invalid Input for QuestionId, null or blank required CDS-QUR-004 Invalid Input for QuestionId, can not be null or blank CDS-QUR-005 Questionnaire Code cannot be null or empty CDS-QUR-006 Questionnaire Description cannot be null or empty CDS-QUR-007 Product Processor cannot be null or empty CDS-QUR-008 Question Code cannot be null or empty CDS-QUR-009 Question Short Name cannot be null or empty CDS-QUR-010 Question Description cannot be null or empty CDS-QUR-011 Question Type cannot be null or empty CDS-QUR-012 Answer Description cannot be null or empty CDS-QUR-013 Questionnaire Code size must be between 1 and 30 CDS-QUR-014 Questionnaire Description size must be between 1 and 240 CDS-QUR-015 Question Code cannot be duplicate for a product processor CDS-QUR-016 Question Sequence Number cannot be null, empty or zero, negetive CDS-QUR-017 Answer Option Sequence Number cannot be duplicate for a questionnaire CDS-QUR-019 Answer Option Sequence Number cannot be duplicate for a Question CDS-QUR-019 Answer Option Sequence Number cannot be duplicate for a Question CDS-QUR-020 Answer Optionld cannot be duplicate for a question CDS-QUR-021 Answer Optionld cannot be duplicate for a question CDS-QUR-020 Answer Optionld cannot be duplicate for a question CDS-BWC-004 Incorrect execution stage CDS-BWC-004 Incorrect execution stage	CDS-LML-027	Rule Id cannot be duplicate		
CDS-QUR-002 Invalid Input for QuestionnaireId, null or blank required CDS-QUR-003 Invalid Input for QuestionId, null or blank required CDS-QUR-004 Invalid Input for QuestionId, can not be null or blank CDS-QUR-005 Questionnaire Code cannot be null or empty CDS-QUR-006 Questionnaire Description cannot be null or empty CDS-QUR-007 Product Processor cannot be null or empty CDS-QUR-008 Question Code cannot be null or empty CDS-QUR-009 Question Short Name cannot be null or empty CDS-QUR-010 Question Description cannot be null or empty CDS-QUR-011 Question Type cannot be null or empty CDS-QUR-012 Answer Description cannot be null or empty CDS-QUR-013 Questionnaire Code size must be between 1 and 30 CDS-QUR-014 Questionnaire Description size must be between 1 and 240 CDS-QUR-015 Question Code cannot be duplicate for a product processor CDS-QUR-016 Question Sequence Number cannot be null, empty or zero, negetive CDS-QUR-017 Answer Option Sequence Number cannot be duplicate for a questionnaire CDS-QUR-019 Answer Option Sequence Number cannot be duplicate for a Question CDS-QUR-019 Answer Option Sequence Number cannot be duplicate for a Question CDS-QUR-020 Answer Option Sequence Number cannot be duplicate for a Question CDS-QUR-020 Answer Option Sequence Number cannot be duplicate for a Question CDS-QUR-020 Answer Option Sequence Number cannot be duplicate for a Question CDS-QUR-021 Answer Option Sequence Number cannot be duplicate for a Question CDS-QUR-020 Answer Option Sequence Number cannot be duplicate for a Question CDS-QUR-020 Answer Option Sequence Number cannot be duplicate for a Question CDS-QUR-020 Answer Option Sequence Number cannot be duplicate for a Question CDS-BWC-004 Incorrect execution stage Stact or rule not found	CDS-LML-028	Invalid Rule Id		
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-009 Question Description 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 Option Sequence Number cannot be duplicate for a Question CDS-QUR-021 Answer Option Icannot be duplicate for a question CDS-BWC-004 Incorrect execution stage S1 fact or rule not found	CDS-QUR-001	Invalid Input for Questionnaireld, can not be null or blank		
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 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 \$1 fact or rule not found	CDS-QUR-002	Invalid Input for Questionnaireld, null or blank required		
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 duplicate for a questionnaire CDS-QUR-019 Answer Option Sequence Number cannot be duplicate for a Question CDS-QUR-020 Answer Optionld cannot be null or empty CDS-QUR-021 Answer Optionld cannot be duplicate for a question CDS-QUR-021 Answer Optionld cannot be duplicate for a question CDS-BWC-004 Incorrect execution stage S1 fact or rule not found	CDS-QUR-003	Invalid Input for QuestionId, null or blank required		
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-004	Invalid Input for QuestionId, can not be null or blank		
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 Optionld cannot be null or empty CDS-QUR-021 Answer Optionld cannot be duplicate for a question CDS-BWC-004 Incorrect execution stage \$1 fact or rule not found	CDS-QUR-005	Questionnaire Code 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 Optionld cannot be null or empty CDS-QUR-021 Answer Optionld cannot be duplicate for a question CDS-BWC-004 Incorrect execution stage CDS-BWC-005 \$1 fact or rule not found	CDS-QUR-006	Questionnaire Description 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 Optionld cannot be null or empty CDS-QUR-021 Answer Optionld cannot be duplicate for a question CDS-BWC-004 Incorrect execution stage CDS-BWC-005 \$1 fact or rule not found	CDS-QUR-007	Product Processor 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-008	Question Code 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-009	Question Short Name 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-010	Question 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-011	Question Type cannot be null or empty		
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-012	Answer Description cannot be null or empty		
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-013	Questionnaire Code size must be between 1 and 30		
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-014	Questionnaire Description size must be between 1 and 240		
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-015	Question Code cannot be duplicate for a product processor		
CDS-QUR-017 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-016	Question Sequence Number cannot be null, empty or zero, negetive		
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-017	· · · · · · · · · · · · · · · · · · ·		
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-018	Question Sequence Number cannot be duplicate for a questionnaire		
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-019	Answer Option Sequence Number cannot be duplicate for a Question		
CDS-BWC-004 Incorrect execution stage CDS-BWC-005 \$1 fact or rule not found	CDS-QUR-020	Answer OptionId cannot be null or empty		
CDS-BWC-005 \$1 fact or rule not found	CDS-QUR-021	Answer OptionId cannot be duplicate for a question		
	CDS-BWC-004	Incorrect execution stage		
CDS-QUR-022 Input for whether Question Mandatory cannot be null or empty	CDS-BWC-005	\$1 fact or rule not found		
	CDS-QUR-022	Input for whether Question Mandatory cannot be null or empty		



Error Codes	Messages	
CDS-QUR-023	System will not allow to add questions where response choice has not been captured, At least 2 record should be available	
CDS-QUR-024	System will not allow to save the questionnaire without any question configured, Atleast 1 question should be configured in the questionnaire	
CDS-QUR-025	Question Code cannot be duplicate for a questionnaire.	
CDS-STG-024	Invalid type and value for additional info	
CDS-STG-025	Selection of atleast 1 mode is mandatory	
CDS-STG-026	Effective date cannot be updated after authorisation	
CDS-STG-027	Multiple values of same type are not allowed under Additional Information	
CDS-LOOKUP-001	Lookup Type must be alphanumeric	
CDS-LOOKUP-002	Lookup Type must be between 1 and 30	
CDS-LOOKUP-003	Lookup Description must be between 1 and 240	
CDS-LOOKUP-004	Duplicate lookup codes not allowed	
CDS-STG-001	Strategy Code cannot be null or blank	
CDS-STG-002	Strategy Code Description cannot be null or blank	
CDS-STG-003	Product Processor cannot be null or blank.	
CDS-STG-004	Product Processor Description cannot be null or blank.	
CDS-STG-005	Account Category cannot be null or blank.	
CDS-DML-041	Iultiple Range definitions not allowed in case of MultiApplicant Scoring lodel	
CDS-DML-042	Incorrect Range Definition. \$1	



11 Functional Activity Codes

This topic contains the functional activity codes:

Table 291: Functional Activity Codes

Screen Name	Functional Activity Codes	Action	Description
External Chart	CMC_FA_EXT_CHART_ACC_NEW	Create	Create external chart account
Account	CMC_FA_EXT_CHART_ACC_AMEND	Unlock	Modify external chart account
	CMC_FA_EXT_CHART_ACC_AUTHORIZ E	Authorize	Authorize external chart account
	CMC_FA_EXT_CHART_ACC_CLOSE	Close	Close external chart account
	CMC_FA_EXT_CHART_ACC_DELETE	Delete	Delete external chart account
	CMC_FA_EXT_CHART_ACC_VIEW	View	View external chart account
	CMC_FA_EXT_CHART_ACC_REOPEN	Reopen	Reopen external chart account
MIS Class	CMC_FA_MIS_CLASS_NEW	Create	Create MIS class
	CMC_FA_MIS_CLASS_AMEND	Unlock	Modify MIS class
	CMC_FA_MIS_CLASS_AUTHORIZE	Authorize	Authorize MIS class
	CMC_FA_MIS_CLASS_CLOSE	Close	Close MIS class
	CMC_FA_MIS_CLASS_DELETE	Delete	Delete MIS class
	CMC_FA_MIS_CLASS_REOPEN	Reopen	Reopen MIS class
	CMC_FA_MIS_CLASS_VIEW	View	View MIS class
MIS Group	CMC_FA_MIS_GROUP_NEW	Create	Create MIS group
	CMC_FA_MIS_GROUP_AMEND	Unlock	Modify MIS group
_	CMC_FA_MIS_GROUP_AUTHORIZE	Authorize	Authorize MIS group
	CMC_FA_MIS_GROUP_DELETE	Delete	Delete MIS group
	CMC_FA_MIS_GROUP_CLOSE	Close	Close MIS group
	CMC_FA_MIS_GROUP_REOPEN	Reopen	Reopen MIS group
	CMC_FA_MIS_GROUP_VIEW	View	View MIS group
Pricing Source System	CMC_FA_PRC_SRC_SYS_SAVE	Create	Create pricing source
	CMC_FA_PRC_SRC_SYS_MODIFY	Unlock	Modify pricing source
	CMC_FA_PRC_SRC_SYS_AUTH	Authorize	Authorize pricing source
	CMC_FA_PRC_SRC_SYS_DELETE	Delete	Delete pricing source
	CMC_FA_PRC_SRC_SYS_CLOSE	Close	Close pricing source
	CMC_FA_PRC_SRC_SYS_REOPEN	Reopen	Reopen pricing source
	CMC_FA_PRC_SRC_SYS_GETBYID	View	View pricing source
Transaction Code	CMC_FA_TRN_CODE_CREATE	Create	Create transaction code
_	CMC_FA_TRN_CODE_MODIFY	Unlock	Modify transaction code
	CMC_FA_TRN_CODE_AUTHORIZE	Authorize	Authorize transaction code
	CMC_FA_TRN_CODE_DELETE	Delete	Delete transaction code
	CMC_FA_TRN_CODE_CLOSE	Close	Close transaction code
	CMC_FA_TRN_CODE_REOPEN	Reopen	Reopen transaction code
	CMC_FA_TRN_CODE_VIEW	View	View transaction code



Resource Class	CMC_FA_RESOURCE_CLASS_AMEND	Unlock	Modify resource class
	CMC_FA_RESOURCE_CLASS_AUTHORI ZE	Authorize	Authorize resource class
	CMC_FA_RESOURCE_CLASS_AUTHQU ERY	View	Get all unauthorized records
	CMC_FA_RESOURCE_CLASS_CLOSE	Close	Close resource class
	CMC_FA_RESOURCE_CLASS_DELETE	Delete	Delete resource class
	CMC_FA_RESOURCE_CLASS_REOPEN	Reopen	Reopen resource class
	CMC_FA_RESOURCE_CLASS_NEW	New	Create new resource
	CMC_FA_RESOURCE_CLASS_VIEW	View	View resource class
	CMC_FA_RESOURCE_CLASS_VIEW CMC_FA_RESOURCE_CLASS_VIEWALL	Viewall	Viewall resource class
cmc-	CMC_FA_ORCHESTRATOR_CON_JSON	View	Orchestrator Con Json
resource- segment- orchestrato r (API)	CWC_FA_ORCHESTRATOR_CON_JSON	View	Orchestrator Corrason
	CMC_FA_ORCHESTRATOR_INITIATE	Initiate	Orchestrator initiate
	CMC_FA_ORCHESTRATOR_INITIATE_E XIST_TXN	Initiate	Orchestrator initiate exist transaction
	CMC_FA_ORCHESTRATOR_SUBMIT	New	Orchestrator submit
Borrowing	CMC_OBCDS_FA_BWC_ACTIONS	Action	Action borrowing capacity
Capacity (cmc-opds- services)		7.686.1	reactive and a superconv
,	CMC_OBCDS_FA_BWC_AMEND	Unlock	Modify borrowing capacity
	CMC_OBCDS_FA_BWC_AUTHORIZE	Authorize	Authorize borrowing capacity
	CMC_OBCDS_FA_BWC_AUTHQUERY	Authorize query	Authorize query borrowing capacity
	CMC_OBCDS_FA_BWC_CLOSE	Close	Close borrowing capacity
	CMC_OBCDS_FA_BWC_DELETE	Delete	Delete borrowing capacity
	CMC_OBCDS_FA_BWC_HISTORY	History	History borrowing capacity
	CMC_OBCDS_FA_BWC_NEW	Create	Create borrowing capacity
	CMC_OBCDS_FA_BWC_REOPEN	Reopen	Reopen borrowing capacity
	CMC_OBCDS_FA_BWC_VALIDATE_LOV	Validate LOV	Validate LOV borrowing capacity
	CMC_OBCDS_FA_BWC_VIEW	View	View borrowing capacity
	CMC_OBCDS_FA_BWC_VIEWALL	View all	View all borrowing capacity
	CMC_OBCDS_FA_BWC_VIEWCHANGES	View changes	View changes borrowing capacity
Counter (cmc-opds- services)	CMC_OBCDS_FA_COUNTERCONFIG_A MEND	Unlock	Unlock counter
	CMC_OBCDS_FA_COUNTERCONFIG_A UTHORIZE	Authorize	Authorize counter
	CMC_OBCDS_FA_COUNTERCONFIG_A UTHQUERY	Authorize query	Authorize query counter
	CMC_OBCDS_FA_COUNTERCONFIG_CLOSE	Close	Close counter
	CMC_OBCDS_FA_COUNTERCONFIG_D ELETE	Delete	Delete counter



	CMC_OBCDS_FA_COUNTERCONFIG_HI STORY	History	History counter
	CMC_OBCDS_FA_COUNTERCONFIG_N EW	Create	Create counter
	CMC_OBCDS_FA_COUNTERCONFIG_R EJECT	Reject	Reject counter
	CMC_OBCDS_FA_COUNTERCONFIG_R EOPEN	Reopen	Reopen counter
	CMC_OBCDS_FA_COUNTERCONFIG_V ALIDATE LOV	Validate LOV	Validate LOV counter
	CMC_OBCDS_FA_COUNTERCONFIG_VI EW	View	View counter
	CMC_OBCDS_FA_COUNTERCONFIG_VI EWALL	View all	View all counter
	CMC_OBCDS_FA_COUNTERCONFIG_VI EWCHANGES	View changes	View changes counter
Product Processor (cmc-opds- services)	CMC_OBCDS_FA_PPR_ACTIONS	Action	Action product processor
	CMC_OBCDS_FA_PPR_AMEND	Unlock	Unlock product processor
	CMC_OBCDS_FA_PPR_AUTHORIZE	Authorize	Authorize product processor
	CMC_OBCDS_FA_PPR_AUTHQUERY	Authorize query	Authorize query product processor
	CMC_OBCDS_FA_PPR_CLOSE	Close	Close product processor
	CMC_OBCDS_FA_PPR_DELETE	Delete	Delete product processor
	CMC_OBCDS_FA_PPR_HISTORY	History	History product processor
	CMC_OBCDS_FA_PPR_NEW	Create	Create product processor
	CMC_OBCDS_FA_PPR_REOPEN	Reopen	Reopen product processor
	CMC_OBCDS_FA_PPR_VALIDATE_LOV	Validate LOV	Validate LOV product processor
	CMC_OBCDS_FA_PPR_VIEW	View	View product processor
	CMC_OBCDS_FA_PPR_VIEWALL	View all	View all product processor
	CMC_OBCDS_FA_PPR_VIEWCHANGES	View changes	View changes product processor
Pricing Model (cmc-opds- services)	CMC_OBCDS_FA_PRC_ACTIONS	Action	Action pricing model
Services)	CMC_OBCDS_FA_PRC_AMEND	Unlock	Unlock pricing model
	CMC_OBCDS_FA_PRC_AUTHORIZE	Authorize	Authorize pricing model
	CMC_OBCDS_FA_PRC_AUTHQUERY	Authorize query	Authorize query pricing model
	CMC OBCDS FA PRC CLOSE	Close	Close pricing model
	CMC_OBCDS_FA_PRC_DELETE	Delete	Delete pricing model
	CMC_OBCDS_FA_PRC_HISTORY	History	History pricing model
	CMC_OBCDS_FA_PRC_NEW	Create	Create pricing model
	CMC_OBCDS_FA_PRC_REOPEN	Reopen	Reopen pricing model
	CMC_OBCDS_FA_PRC_VALIDATE_LOV	Validate LOV	LOV pricing model
	CMC_OBCDS_FA_PRC_VIEW	View	View pricing model
	CMC_OBCDS_FA_PRC_VIEWALL	View all	View all pricing model
	CMC_OBCDS_FA_PRC_VIEWCHANGES	View changes	View changes pricing model
Charge Code (cmc-	CMC_OBCDS_FA_PRICINGDETAILS_AM END	Unlock	Unlock charge code



opds-			
services)			
	CMC_OBCDS_FA_PRICINGDETAILS_AU THORIZE	Authorize	Authorize charge code
	CMC_OBCDS_FA_PRICINGDETAILS_AU THQUERY	Authorize query	Authorize query charge code
	CMC_OBCDS_FA_PRICINGDETAILS_CL OSE	Close	Close charge code
	CMC_OBCDS_FA_PRICINGDETAILS_DE LETE	Delete	Delete charge code
	CMC_OBCDS_FA_PRICINGDETAILS_GE TBYCODE	Getbycode	Getbycode charge code
	CMC_OBCDS_FA_PRICINGDETAILS_HIS TORY	History	History charge code
	CMC_OBCDS_FA_PRICINGDETAILS_NE W	Create	Create charge code
	CMC_OBCDS_FA_PRICINGDETAILS_RE JECT	Reject	Reject charge code
	CMC_OBCDS_FA_PRICINGDETAILS_RE OPEN	Reopen	Reopen charge code
	CMC_OBCDS_FA_PRICINGDETAILS_VA LIDATE_LOV	Validate LOV	LOV charge code
	CMC_OBCDS_FA_PRICINGDETAILS_VIE W	View	View charge code
	CMC_OBCDS_FA_PRICINGDETAILS_VIE WALL	View all	View all charge code
	CMC_OBCDS_FA_PRICINGDETAILS_VIE WCHANGES	View changes	View changes charge code
	CMC_OBCDS_FA_GET_CHARGES	Get Charges	Get Charges charge code
Scoring Feature (cmc-opds- services)	CMC_OBCDS_FA_QFT_ACTIONS	Action	Action scoring feature
	CMC_OBCDS_FA_QFT_AMEND	Unlock	Unlock scoring feature
	CMC_OBCDS_FA_QFT_AUTHORIZE	Authorize	Authorize Scoring Feature
	CMC_OBCDS_FA_QFT_AUTHQUERY	Authorize query	Authorize query Scoring Feature
	CMC_OBCDS_FA_QFT_CLOSE	Close	Close scoring feature
	CMC_OBCDS_FA_QFT_DELETE	Delete	Delete scoring feature
	CMC_OBCDS_FA_QFT_HISTORY	History	History scoring feature
	CMC_OBCDS_FA_QFT_NEW	Create	Create scoring feature
	CMC_OBCDS_FA_QFT_REOPEN	Reopen	Reopen scoring feature
	CMC_OBCDS_FA_QFT_VALIDATE_LOV	Validate LOV	Validate LOV scoring feature
	CMC_OBCDS_FA_QFT_VIEW	View	View scoring feature
	CMC_OBCDS_FA_QFT_VIEWALL	View all	View all scoring feature
	CMC_OBCDS_FA_QFT_VIEWCHANGES	View changes	View changes scoring feature
Qualitative Scoring Model (cmc-opds- services)	CMC_OBCDS_FA_QUAL_ACTIONS	Action	Action on qualitative scoring model
351 VICES)	CMC_OBCDS_FA_QUAL_AMEND	Unlock	Unlock qualitative scoring model
	CMC_OBCDS_FA_QUAL_AUTHORIZE	Authorize	Authorize qualitative scoring model



CMC_OBCDS_FA_QUAL_AUTHQUERY CMC_OBCDS_FA_QUAL_CLOSE Close Close Close qualitative scoring model CMC_OBCDS_FA_QUAL_DELETE Delete Delete qualitative scoring model CMC_OBCDS_FA_QUAL_HISTORY History History qualitative scoring model CMC_OBCDS_FA_QUAL_NEW New Create qualitative scoring model CMC_OBCDS_FA_QUAL_REOPEN Reopen Reopen qualitative scoring model	ing
CMC_OBCDS_FA_QUAL_CLOSE Close Close qualitative scoring model CMC_OBCDS_FA_QUAL_DELETE Delete Delete qualitative scoring model CMC_OBCDS_FA_QUAL_HISTORY History History qualitative scoring model CMC_OBCDS_FA_QUAL_NEW New Create qualitative scoring model CMC_OBCDS_FA_QUAL_REOPEN Reopen Reopen qualitative scoring model	ing
CMC_OBCDS_FA_QUAL_HISTORY History History qualitative score model CMC_OBCDS_FA_QUAL_NEW New Create qualitative score model CMC_OBCDS_FA_QUAL_REOPEN Reopen Reopen qualitative scoring model	
CMC_OBCDS_FA_QUAL_NEW CMC_OBCDS_FA_QUAL_REOPEN CMC_OBCDS_FA_QUAL_REOPEN Reopen Reopen qualitative scoring model	ring
CMC_OBCDS_FA_QUAL_REOPEN Reopen Reopen qualitative scoring model	
scoring model	ring
CMC_OBCDS_FA_QUAL_VALIDATE_LOV	
CMC_OBCDS_FA_QUAL_VIEW View View qualitative scorin model	ng
CMC_OBCDS_FA_QUAL_VIEWALL View all View all qualitative scoring model	
CMC_OBCDS_FA_QUAL_VIEWCHANGE View View qualitative scorin model	ng
Questionna ire (cmc- opds- services) CMC_OBCDS_FA_QUESTIONNAIRESEE D_Action Action questionnaire seed	
CMC_OBCDS_FA_QUESTIONNAIRESEE Unlock Unlock questionnaire seed	
CMC_OBCDS_FA_QUESTIONNAIRESEE Authorize Authorize questionnair D_AUTHORIZE seed	re
CMC_OBCDS_FA_QUESTIONNAIRESEE Authorize query Questionnaire seed	
CMC_OBCDS_FA_QUESTIONNAIRESEE Close Close questionnaire se D_CLOSE	eed
CMC_OBCDS_FA_QUESTIONNAIRESEE Delete D_DELETE Delete seed	
CMC_OBCDS_FA_QUESTIONNAIRESEE History History questionnaire seed	
CMC_OBCDS_FA_QUESTIONNAIRESEE Create Create questionnaire seed	
CMC_OBCDS_FA_QUESTIONNAIRESEE Reopen Reopen questionnaire seed)
CMC_OBCDS_FA_QUESTIONNAIRESEE Validate LOV Validate LOV questionnaire seed	
CMC_OBCDS_FA_QUESTIONNAIRESEE View View questionnaire ser D_VIEW	
CMC_OBCDS_FA_QUESTIONNAIRESEE View all View all questionnaire p_VIEWALL view all view all view all questionnaire seed)
CMC_OBCDS_FA_QUESTIONNAIRESEE View changes View changes questionnaireseed	
CMC_OBCDS_FA_QUES_ACTIONS Action Action questionnaire	
CMC_OBCDS_FA_QUES_AMEND Unlock Unlock questionnaire	
CMC_OBCDS_FA_QUES_AUTHORIZE Authorize Authorize questionnair	re
CMC_OBCDS_FA_QUES_AUTHQUERY Authorize query Authorize query questionnaire	
CMC_OBCDS_FA_QUES_CLOSE Close Close questionnaire	
CMC_OBCDS_FA_QUES_DELETE Delete Delete questionnaire	
CMC_OBCDS_FA_QUES_DISPLAY Display Display question display	lay
CMC_OBCDS_FA_QUES_DISPLAY_DUM Display Display question display	_ •
CMC_OBCDS_FA_QUES_HISTORY History History questionnaire	



			T
	CMC_OBCDS_FA_QUES_NEW	Create	Create questionnaire
	CMC_OBCDS_FA_QUES_REOPEN	Reopen	Reopen questionnaire
	CMC_OBCDS_FA_QUES_VALIDATEQUS CODE	Validate	Validate questionnaire
	CMC_OBCDS_FA_QUES_VALIDATE_LO	Validate LOV	Validate LOV questionnaire
	CMC_OBCDS_FA_QUES_VIEW	View	View questionnaire
	CMC_OBCDS_FA_QUES_VIEWALL	View all	View all questionnaire
	CMC_OBCDS_FA_QUES_VIEWCHANGE	View changes	View changes
	S	view originges	questionnaire
	CMC_OBCDS_FA_QUES_VIEWPPR	View PPR	View PPR questionnaire
	CMC_OBCDS_FA_QUES_VIEWQURCOD	View	View questionnaire
	E		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	CMC_OBCDS_FA_FETCH_QUESTIONNA IRE	Fetch	Fetch questionnaire
	CMC_OBCDS_FA_FETCH_QUEST_REG	Fetch	Fetch questionnaire
Strategy Configurati on (cmc- opds-	CMC_OBCDS_FA_STRATEGYCONFIG_A CTIONS	Action	Action strategy configuration
services)	CMC_OBCDS_FA_STRATEGYCONFIG_A MEND	Unlock	Unlock strategy
	CMC_OBCDS_FA_STRATEGYCONFIG_A	Authorize	configuration Authorize strategy
	UTHORIZE	7.00101/20	configuration
	CMC_OBCDS_FA_STRATEGYCONFIG_A UTHQUERY	Authorize query	Authorize query strategy configuration
	CMC_OBCDS_FA_STRATEGYCONFIG_C LOSE	Close	Close strategy configuration
	CMC_OBCDS_FA_STRATEGYCONFIG_D ELETE	Delete	Delete strategy configuration
	CMC_OBCDS_FA_STRATEGYCONFIG_H ISTORY	History	History strategy configuration
	CMC_OBCDS_FA_STRATEGYCONFIG_N EW	Create	Create strategy configuration
	CMC_OBCDS_FA_STRATEGYCONFIG_R EOPEN	Reopen	Reopen strategy configuration
	CMC_OBCDS_FA_STRATEGYCONFIG_V ALIDATE_LOV	Validate LOV	Validate LOV strategy configuration
	CMC_OBCDS_FA_STRATEGYCONFIG_V IEW	View	View Strategy Configuration
	CMC_OBCDS_FA_STRATEGYCONFIG_V IEWALL	View all	View all strategy configuration
	CMC_OBCDS_FA_STRATEGYCONFIG_V IEWCHANGES	View changes	View changes strategy configuration
View Execution Summary (cmc-opds- services)	CMC_OBCDS_FA_SERVICE_LOG_VIEW ALL	View all	View all view execution summary
•	CMC_OBCDS_FA_FETCH_CREDIT_DECI SION	Fetch	Fetch view execution summary
Decision Grade Matrix (cmc-opds- services)	CMC_OBCDS_FA_DGM_ACTIONS	Action	Action decision grade matrix
	CMC_OBCDS_FA_DGM_AMEND	Unlock	Unlock decision grade matrix



	CMC_OBCDS_FA_DGM_AUTHORIZE	Authorize	Authorize decision grade matrix
	CMC_OBCDS_FA_DGM_AUTHQUERY	Authorize query	Authorize query decision grade matrix
	CMC_OBCDS_FA_DGM_CLOSE	Close	Close decision grade matrix
	CMC_OBCDS_FA_DGM_DELETE	Delete	Delete decision grade matrix
	CMC_OBCDS_FA_DGM_HISTORY	History	History decision grade matrix
	CMC_OBCDS_FA_DGM_NEW	Create	Create decision grade matrix
	CMC_OBCDS_FA_DGM_REOPEN	Reopen	Reopen decision grade matrix
	CMC_OBCDS_FA_DGM_VALIDATE_LOV	Validate LOV	Validate LOV decision grade matrix
	CMC_OBCDS_FA_DGM_VIEW	View	View decision grade matrix
	CMC_OBCDS_FA_DGM_VIEWALL	View all	View all decision grade matrix
	CMC_OBCDS_FA_DGM_VIEWCHANGES	View changes	View changes decision grade matrix
Quantitativ e Scoring Model (cmc-opds- services)	CMC_OBCDS_FA_DML_ACTIONS	Action	Action quantitative scoring model
	CMC_OBCDS_FA_DML_AMEND	Unlock	Unlock quantitative scoring model
	CMC_OBCDS_FA_DML_AUTHORIZE	Authorize	Authorize quantitative scoring model
	CMC_OBCDS_FA_DML_AUTHQUERY	Authorize query	Authorize query quantitative scoring model
	CMC_OBCDS_FA_DML_CLOSE	Close	Close quantitative scoring model
	CMC_OBCDS_FA_DML_DELETE	Delete	Delete quantitative scoring model
	CMC_OBCDS_FA_DML_HISTORY	History	History quantitative scoring model
	CMC_OBCDS_FA_DML_NEW	Create	Create quantitative scoring model
	CMC_OBCDS_FA_DML_REOPEN	Reopen	Reopen quantitative scoring model
	CMC_OBCDS_FA_DML_VALIDATE_LOV	Validate LOV	Validate LOV quantitative scoring model
	CMC_OBCDS_FA_DML_VIEW	View	View quantitative scoring model
	CMC_OBCDS_FA_DML_VIEWALL	View all	View all quantitative scoring model
	CMC_OBCDS_FA_DML_VIEWCHANGES	View changes	View changes quantitative scoring model
Validation Model (cmc-opds- services)	CMC_OBCDS_FA_LML_ACTIONS	Action	Action validation model
	CMC_OBCDS_FA_LML_AMEND	Unlock	Unlock validation model
	CMC_OBCDS_FA_LML_AUTHORIZE	Authorize	Authorize validation model



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	. ,	Authorize query validation model
CMC_OBCDS_FA_LML_CLOSE	Close	Close validation model
CMC_OBCDS_FA_LML_DELETE	Delete	Delete validation model
CMC_OBCDS_FA_LML_HISTORY	History	History validation model
CMC_OBCDS_FA_LML_NEW	Create	Create validation model
CMC_OBCDS_FA_LML_REOPEN	Reopen	Reopen validation model
CMC_OBCDS_FA_LML_VALIDATE_LOV	Validate LOV	Validate LOV validation model
CMC_OBCDS_FA_LML_VIEW	View	View validation model
CMC_OBCDS_FA_LML_VIEWALL	View all	View all validation model
CMC_OBCDS_FA_LML_VIEWCHANGES	View changes	View changes validation model
	Action	Action lookup
	Unlock	Unlock lookup
E	Authorize	Authorize lookup
RY	Authorize query	Authorize query lookup
CMC_OBCDS_FA_LOOKUPS_CLOSE	Close	Close lookup
W	Code View	Code View lookup
	Delete	Delete lookup
CMC_OBCDS_FA_LOOKUPS_HISTORY	History	History lookup
CMC_OBCDS_FA_LOOKUPS_NEW	Create	Create lookup
CMC_OBCDS_FA_LOOKUPS_REOPEN	Reopen	Reopen lookup
CMC_OBCDS_FA_LOOKUPS_VALIDATE _LOV	Validate LOV	Validate LOV lookup
CMC_OBCDS_FA_LOOKUPS_VIEW	View	View lookup
CMC_OBCDS_FA_LOOKUPS_VIEWALL	View all	View all lookup
CMC_OBCDS_FA_LOOKUPS_VIEWCHA NGES	View changes	View changes lookup
CMC_OBCDS_FA_PMT_ACTIONS	Action	Action system parameter
CMC OBCDS FA PMT AMEND	Unlock	Unlock system parameter
CMC_OBCDS_FA_PMT_AUTHORIZE	Authorize	Authorize system parameter
CMC_OBCDS_FA_PMT_AUTHQUERY	Authorize query	Authorize query system parameter
CMC_OBCDS_FA_PMT_CLOSE	Close	Close system parameter
CMC_OBCDS_FA_PMT_DELETE	Delete	Delete system parameter
CMC_OBCDS_FA_PMT_HISTORY	History	History system parameter
CMC_OBCDS_FA_PMT_NEW	Create	Create system parameter
CMC_OBCDS_FA_PMT_REOPEN	Reopen	Reopen system parameter
CMC_OBCDS_FA_PMT_VALIDATE_LOV	Validate LOV	Validate LOV system parameter
CMC_OBCDS_FA_PMT_VIEW	View	View system parameter
CMC_OBCDS_FA_PMT_VIEWALL	View all	View all system parameter
CMC_OBCDS_FA_PMT_VIEWCHANGES	View changes	View changes system parameter
	CMC_OBCDS_FA_LML_DELETE CMC_OBCDS_FA_LML_HISTORY CMC_OBCDS_FA_LML_NEW CMC_OBCDS_FA_LML_REOPEN CMC_OBCDS_FA_LML_VALIDATE_LOV CMC_OBCDS_FA_LML_VIEW CMC_OBCDS_FA_LML_VIEWALL CMC_OBCDS_FA_LML_VIEWCHANGES CMC_OBCDS_FA_LOOKUPS_ACTIONS CMC_OBCDS_FA_LOOKUPS_AUTHORIZ E CMC_OBCDS_FA_LOOKUPS_AUTHQUE RY CMC_OBCDS_FA_LOOKUPS_CODE_VIE W CMC_OBCDS_FA_LOOKUPS_CODE_VIE W CMC_OBCDS_FA_LOOKUPS_DELETE CMC_OBCDS_FA_LOOKUPS_DELETE CMC_OBCDS_FA_LOOKUPS_NEW CMC_OBCDS_FA_LOOKUPS_NEW CMC_OBCDS_FA_LOOKUPS_NEW CMC_OBCDS_FA_LOOKUPS_VIEW CMC_OBCDS_FA_LOOKUPS_VIEW CMC_OBCDS_FA_LOOKUPS_VIEW CMC_OBCDS_FA_LOOKUPS_VIEW CMC_OBCDS_FA_LOOKUPS_VIEW CMC_OBCDS_FA_LOOKUPS_VIEW CMC_OBCDS_FA_LOOKUPS_VIEW CMC_OBCDS_FA_LOOKUPS_VIEW CMC_OBCDS_FA_LOOKUPS_VIEWCHA NGES CMC_OBCDS_FA_PMT_ACTIONS CMC_OBCDS_FA_PMT_ACTIONS CMC_OBCDS_FA_PMT_AUTHQUERY CMC_OBCDS_FA_PMT_NEW CMC_OBCDS_FA_PMT_NEW CMC_OBCDS_FA_PMT_NEW CMC_OBCDS_FA_PMT_NEW CMC_OBCDS_FA_PMT_NEW CMC_OBCDS_FA_PMT_NEW CMC_OBCDS_FA_PMT_VIEWALL	CMC_OBCDS_FA_LML_CLOSE CMC_OBCDS_FA_LML_DELETE Delete CMC_OBCDS_FA_LML_HISTORY History CMC_OBCDS_FA_LML_NEW Create CMC_OBCDS_FA_LML_NEW CMC_OBCDS_FA_LML_NEW CMC_OBCDS_FA_LML_VALIDATE_LOV Validate LOV CMC_OBCDS_FA_LML_VIEW CMC_OBCDS_FA_LML_VIEW CMC_OBCDS_FA_LML_VIEWALL CMC_OBCDS_FA_LML_VIEWALL CMC_OBCDS_FA_LML_VIEWCHANGES View changes CMC_OBCDS_FA_LOOKUPS_ACTIONS CMC_OBCDS_FA_LOOKUPS_ACTIONS CMC_OBCDS_FA_LOOKUPS_AUTHORIZ E CMC_OBCDS_FA_LOOKUPS_AUTHORIZ E CMC_OBCDS_FA_LOOKUPS_AUTHQUE RY CMC_OBCDS_FA_LOOKUPS_CLOSE CMC_OBCDS_FA_LOOKUPS_CODE_VIE CMC_OBCDS_FA_LOOKUPS_CODE_VIE CMC_OBCDS_FA_LOOKUPS_DELETE CMC_OBCDS_FA_LOOKUPS_NEW CMC_OBCDS_FA_LOOKUPS_NEW CMC_OBCDS_FA_LOOKUPS_NEW CMC_OBCDS_FA_LOOKUPS_VALIDATE LOV CMC_OBCDS_FA_LOOKUPS_VIEWALL CMC_OBCDS_FA_DMT_ACTIONS Action CMC_OBCDS_FA_PMT_ACTIONS Action CMC_OBCDS_FA_PMT_AUTHORIZE CMC_OBCDS_FA_PMT_AUTHORIZE CMC_OBCDS_FA_PMT_AUTHORIZE CMC_OBCDS_FA_PMT_AUTHORIZE CMC_OBCDS_FA_PMT_AUTHORIZE CMC_OBCDS_FA_PMT_AUTHORIZE CMC_OBCDS_FA_PMT_BLETE Delete CMC_OBCDS_FA_PMT_NEW Create CMC_OBCDS_FA_PMT_VALIDATE_LOV Validate LOV View all View CMC_OBCDS_FA_PMT_VALIDATE_LOV Validate LOV



cmc- charges- calculation-	CMC_FA_GET_PRC_METHODS	GetPrcMethods	Provides all pricing categories
services (API)			
(*)	CMC_FA_PRC_CATEGORY	GetPrcCategory	Provides price methods for given price category
	CMC_FA_CHG_CALCULATE_CHARGES	GetCharges	Performs charge calculation
	CMC_FA_PRC_SRC_SYS_GETBYID	GetByResourceId	Retrieves the datasegment details by resource Id.
	CMC_FA_PRC_SRC_SYS_ACTIONS	GetPermittedAction sOnRes	Provides action for Resource Id.
	CMC_FA_PRC_SRC_SYS_AGGREGATE	GetResourceAggre gate	Get aggregate details of the resource
	CMC_FA_PRC_SRC_SYS_HISTORY	GetResourceHistor y	Retrieves the history by given Resource Id
	CMC_FA_PRC_SRC_SYS_GETALL	GetSummary	Get all valid master datasegment details
	CMC_FA_PRC_SRC_SYS_GET_UNAUTH	GetUnAuthResourc e	Retrieves the unauthorized resource by given resource id
	CMC_FA_PRC_SRC_SYS_UNLOCK	RemoveResourceL ock	Removes the advisory lock on the resource.
	CMC_FA_PRC_SRC_SYS_SUBMIT	SubmitResource	Submit for the Resource.
	CMC_FA_PRC_SRC_SYS_ISVALID	ValidateResource	Validates the resource by Resource Id.
Price Rule	CMC_FA_CHARGERULE_AUTHORIZE_R ESOURCE	AuthorizeResource	Authorize the price rule with given resource id
	CMC_FA_CHARGERULE_CLOSE	CloseResource	Closes the price rule with given resource id
	CMC_FA_CHARGERULE_CREATE_RES OURCE	CreateResource	Creates new price rule
	CMC_FA_CHARGERULE_DELETE_RESO URCE	DeleteResource	Deletes the price rule record for given resource id
	CMC_FA_CHARGERULE_GET_BY_RES OURCEID	GetByResourceId	Provides price rule for given resource id
	CMC_FA_CHARGERULE_ACTION	GetPermittedAction sOnRes	Provides all applicable actions for price rule of given resource id
	CMC_FA_CHARGERULE_RESOURCE_A GGREGATE	GetResourceAggre gate	Get aggregate details of the price rule
	CMC_FA_CHARGERULE_RESOURCE_HI STORY	GetResourceHistor y	Retrieves the history for price rule with given Resource Id
	CMC_FA_CHARGERULE_SUMMARY	GetSummary	Get all price rules details
	CMC_FA_CHARGERULE_UNAUTHORIZE _RESOURCE	GetUnAuthResourc e	Retrieves the unauthorized price rule for given resource id
	CMC_FA_CHARGERULE_AUTHORIZE_R ESOURCE	RejectResource	Rejects the resource by given resource Id
	CMC_FA_CHARGERULE_REMOVE_RES OURCE_LOCK	RemoveResourceL ock	Unlocks the price rule with given resource id
	CMC_FA_CHARGERULE_REOPEN_RES OURCE	ReopenResource	Reopens the price rule with given resource id
	CMC_FA_CHARGERULE_SUBMIT_RESO URCE	SubmitResource	Submits the price rule for provided resource id



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	CMC_FA_CHARGERULE_UPDATE_RES OURCE	UpdateResource	Updates existing price rule
	CMC_FA_CHARGERULE_VALIDATE_RE SOURCE	ValidateResource	Validates the price rule with provided resource id
cmc- transaction controller- services (API)	CMC_FA_TXN_CONTROLLER_GET_ADV ICE	GetEventAdviceTy peSummary	Get the event advice type summary filtered from transaction controller details for the specified event
	CMC_FA_TXN_CONTROLLER_GET_CHE CKLIST	GetEventCheckList Summary	Get the event Checklist summary filtered from transaction controller details for the specified event
	CMC_FA_TXN_CONTROLLER_GET_CLA USE	GetEventClauseSu mmary	Get the event clauses summary filtered from transaction controller details for the specified event
	CMC_FA_TXN_CONTROLLER_GET_DAT ASEGMENT	GetEventDataSeg mentSummary	Get the Event Data Segment Summary filtered from Transaction controller Details for the specified event
	CMC_FA_TXN_CONTROLLER_GET_DOC UMENT	GetEventDocument summary	Get the Event Document Summary filtered from Transaction controller Details for the specified event
	CMC_FA_TXN_CONTROLLER_GET	GetTransactionCon trollers	Get the complete Transaction Controller details for the given query params
	CMC_FA_TXN_CONTROLLER_NEW	SaveTransactionCo ntroller	Based on the business process code, fetches the event and data segment details and posts it into the transaction controller table.
	CMC_FA_TXN_CONTROLLER_PUT_DAT ASEGMENT	UpdateDataSegme ntStatus	For the specified reference Number, update status to COMPLETE/INCOMPLE TE/WIP for specified data segment in Transaction Controller.
	CMC_FA_TXN_CONTROLLER_PUT_ADV ICE	UpdateEventAdvice TypeStatus	For the specified reference number and event, update status to COMPLETE/INCOMPLE TE/WIP for specified advice Type in Transaction Controller.
	CMC_FA_TXN_CONTROLLER_PUT_CHE CKLIST	UpdateEventAllChe ckListStatus	For the specified reference number and event, update status to COMPLETE/INCOMPLE TE/WIP for specified check List in transaction Controller.



	CMC_FA_TXN_CONTROLLER_PUT_EVE NT	UpdateEventAllDat aSegmentStatus	For the specified reference Number and event, update status to COMPLETE/INCOMPLE TE/WIP for all data segments in TransactionController.
	CMC_FA_TXN_CONTROLLER_PUT_CHE CKLIST	UpdateEventCheck ListStatus	For the specified reference Number and event, update status to COMPLETE/INCOMPLE TE/WIP for specified check List in transaction Controller.
	CMC_FA_TXN_CONTROLLER_PUT_CLA USE	UpdateEventClaus eStatus	For the specified reference Number and event, update status to COMPLETE/INCOMPLE TE/WIP for specified clause in transaction Controller.
	CMC_FA_TXN_CONTROLLER_PUT_EVE NT_DS	UpdateEventDataS egmentStatus	For the specified reference Number and event, update status to COMPLETE/INCOMPLE TE/WIP for specified data segment in TransactionController.
	CMC_FA_TXN_CONTROLLER_PUT_DOC UMENT	UpdateEventDocu mentStatus	For the specified reference Number and event, update status to COMPLETE/INCOMPLE TE/WIP for specified document Type in transaction Controller.
Priority Code - Priority Code Maintenanc e	CMC_MENU_FA_PRIORITY_CODE_MAIN T_AMND	Unlock	Modify priority code maintenance
	CMC_MENU_FA_PRIORITY_CODE_MAIN T_AUTHORIZE	Authorize	Authorize priority code maintenance
	CMC_MENU_FA_PRIORITY_CODE_MAIN T_CLOSE	Close	Close priority code maintenance
	CMC_MENU_FA_PRIORITY_CODE_MAIN T_REOPEN	Reopen	Reopen priority code maintenance
	CMC_MENU_FA_PRIORITY_CODE_MAIN T_VIEW	View	View priority code maintenance
Priority Code - Customer Priority Maintenanc e	CMC_MENU_FA_CUSTOMER_PRIORITY _MAINT_CREATE	Create	Create customer priority maintenance
	CMC_MENU_FA_CUSTOMER_PRIORITY _MAINT_AMND	Unlock	Modify customer priority maintenance
	CMC_MENU_FA_CUSTOMER_PRIORITY _MAINT_CLOSE	Close	Close customer priority maintenance
	CMC_MENU_FA_CUSTOMER_PRIORITYMAINT_REOPEN	Reopen	Reopen customer priority maintenance



	ONG MENULEA CHOTOMED DDIODITY		
	CMC_MENU_FA_CUSTOMER_PRIORITY	Authorize	Authorize customer
	MAINT_AUTHORIZE CMC MENU FA CUSTOMER PRIORITY	Delete	priority maintenance Delete customer priority
	_MAINT_DELETE		maintenance
	CMC_MENU_FA_CUSTOMER_PRIORITY _MAINT_VIEW	View	View customer priority maintenance
Checklist - Checklist Maintenanc e	TFPM_FA_SVR_COMM	Create	Create checklist maintenance
-	TFPM_FA_SVR_COMM	Unlock	Unlock checklist maintenance
	TFPM_FA_SVR_COMM	Authorize	Authorize checklist maintenance
	TFPM_FA_SVR_COMM	Close	Close checklist maintenance
	TFPM_FA_SVR_COMM	Reopen	Reopen checklist maintenance
	TFPM_FA_SVR_COMM	View	View checklist maintenance
	TFPM_FA_SVR_COMM	Delete	Delete checklist maintenance
Checklist - Checklist Linkage Maintenanc e	TFPM_FA_SVR_COMM	Create	Create checklist linkage maintenance
	TFPM_FA_SVR_COMM	Unlock	Unlock checklist linkage maintenance
	TFPM_FA_SVR_COMM	Authorize	Authorize checklist linkage maintenance
	TFPM_FA_SVR_COMM	Close	Close checklist linkage maintenance
	TFPM_FA_SVR_COMM	Reopen	Reopen checklist linkage maintenance
	TFPM_FA_SVR_COMM	View	View checklist linkage maintenance
	TFPM_FA_SVR_COMM	Delete	Delete checklist linkage maintenance
Float Rate Maintenanc e	CMC_FA_FLOAT_RATE_NEW	Create	Create new float rate record
	CMC_FA_FLOAT_RATE_AMEND	Unlock	Unlock to modify float rate record
	CMC_FA_FLOAT_RATE_AUTHORIZE	Authorize	Authorize float rate record
	CMC_FA_FLOAT_RATE_CLOSE	Close	Close float rate record
	CMC_FA_FLOAT_RATE_DELETE	Delete	Delete float rate record
	CMC_FA_FLOAT_RATE_REOPEN	Reopen	Reopen closed float rate record
	CMC_FA_FLOAT_RATE_VIEW	View	View float rate record
	CMC_FA_FLOAT_RATE_CODE_LOV	LOV	Get rate code details in LOV
	CMC_FA_FLOAT_RATE_PICKUP	Rate Pickup	Pickup float rate based on data related to rate code, branch code, effective date, amount slab etc.,
Currency Definition	CMC_FA_CURRENCY_DEFN_AMEND	Unlock	Modify currency definition



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	CMC_FA_CURRENCY_DEFN_AUTHORIZ E	Authorize	Authorize currency definition
	CMC_FA_CURRENCY_DEFN_CLOSE	Close	Close currency definition
	CMC_FA_CURRENCY_DEFN_DELETE	Delete	Delete currency definition
	CMC_FA_CURRENCY_DEFN_NEW	Create	Create currency definition
	CMC_FA_CURRENCY_DEFN_REOPEN	Reopen	Reopen currency
	CMC_FA_CURRENCY_DEFN_VIEW	View	definition View currency definition
	CMC FA CURRENCY DEFN VIEW NE	View	View currency definition
	W	V.0.11	view duriency deminion
Currency Pair Definition	CMC_FA_CURRENCY_PAIR_DEFN_AME ND	Unlock	Modify currency pair definition
	CMC_FA_CURRENCY_PAIR_DEFN_AUT HORIZE	Authorize	Authorize currency pair definition
	CMC_FA_CURRENCY_PAIR_DEFN_CLO SE	Close	Close currency pair definition
	CMC_FA_CURRENCY_PAIR_DEFN_DEL ETE	Delete	Delete currency pair definition
	CMC_FA_CURRENCY_PAIR_DEFN_NEW	Create	Create currency pair definition
	CMC_FA_CURRENCY_PAIR_DEFN_REO PEN	Reopen	Reopen currency pair definition
	CMC_FA_CURRENCY_PAIR_DEFN_VIE	View	View currency pair definition
Currency Exchange Rate	CMC_FA_CURRENCY_RATE_MASTER_ AMEND	Unlock	Modify currency exchange rate
	CMC_FA_CURRENCY_RATE_MASTER_ AUTHORIZE	Authorize	Authorize currency exchange rate
	CMC_FA_CURRENCY_RATE_MASTER_ CLOSE	Close	Close currency exchange rate
	CMC_FA_CURRENCY_RATE_MASTER_ DELETE	Delete	Delete currency exchange rate
	CMC_FA_CURRENCY_RATE_MASTER_ NEW	Create	Create currency exchange rate
	CMC_FA_CURRENCY_RATE_MASTER_ REOPEN	Reopen	Reopen currency exchange rate
	CMC_FA_CURRENCY_RATE_MASTER_ VIEW	View	View currency exchange rate
	CMC_FA_CURRENCY_RATE_MASTER_ NEW_SERVICE	Create Service	Create currency exchange rate
	CMC_FA_CURRENCY_RATE_MASTER_ AMEND_SERVICE	Unlock Service	Modify currency exchange rate
	CMC_FA_CURRENCY_RATE_MASTER_ SERVICE_CLOSE	Close Service	Close currency exchange rate
	CMC_FA_CURRENCY_RATE_MASTER_ SERVICE_REOPEN	Reopen Service	Reopen currency exchange rate
	CMC_FA_CURRENCY_RATE_PURGE_T O_HISTORY	Purge	Purge To history
Currency Rate Type	CMC_FA_CURRENCY_RATE_TYPE_AME ND	Unlock	Modify currency rate type
	CMC_FA_CURRENCY_RATE_TYPE_AUT HORIZE	Authorize	Authorize currency rate type
	CMC_FA_CURRENCY_RATE_TYPE_CLO SE	Close	Close currency rate type
	CMC_FA_CURRENCY_RATE_TYPE_DEL ETE	Delete	Delete currency rate type
	CMC_FA_CURRENCY_RATE_TYPE_NE W	Create	Create currency rate type



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	CMC_FA_CURRENCY_RATE_TYPE_REO PEN	Reopen	Reopen currency rate type
	CMC_FA_CURRENCY_RATE_TYPE_VIE W	View	View currency rate type
External Deposit Account	CMC_FA_EXTERNALDEPOSIT_REOPEN _RESOURCE	Reopen Resource	Reopen external deposit account
	CMC_FA_EXTERNALDEPOSIT_CREATE	Create	Create external deposit account
	CMC_FA_EXTERNALDEPOSIT_SUMMAR Y	Summary	Summary external deposit account
	CMC_FA_EXTERNALDEPOSIT_UPDATE	Update	Update external deposit account
	CMC_FA_EXTERNALDEPOSIT_CLOSE	Close	Close external deposit account
	CMC_FA_EXTERNALDEPOSIT_FETCH_B Y_RESOURCEID	Fetch by Resourceld	View external deposit account
	CMC_FA_EXTERNALDEPOSIT_DELETE_ RECORD	Delete	Delete external deposit account
	CMC_FA_EXTERNALDEPOSIT_VALIDAT	Validate	Validate external deposit account
	CMC_FA_EXTERNALDEPOSIT_RESOUR CE_AGGREGATE	Resource Aggregate	Retrieve aggregate data for external deposit account
	CMC_FA_EXTERNALDEPOSIT_PERMITT ED_ACTIONS	Permitted Actions	External deposit account entity actions
	CMC_FA_EXTERNALDEPOSIT_REMOVERESOURCELOCK	Remove Resource Lock	Remove lock of resource for an external deposit account
	CMC_FA_EXTERNALDEPOSIT_GET_RE SOURCE_HIST	GetResourceHist	Get resource history for an external deposit account
	CMC_FA_EXTERNALDEPOSIT_GET_UN AUTH_RESOURCES	GetUnauthResourc es	Retrieve unauthorized external deposit account
	CMC_FA_EXTERNALDEPOSIT_AUTHORI ZE	Authorize	Authorize external deposit account
	CMC_FA_EXTERNALDEPOSIT_SUBMIT	Submit	Submit external deposit account
External Virtual Account (API)	CMC_FA_EXT_VIRTUAL_ACCOUNT_CR EATE	Create	Create external virtual account
	CMC_FA_EXT_VIRTUAL_ACCOUNT_MO DIFY	Modify	Modify external virtual account
	CMC_FA_EXT_VIRTUAL_ACCOUNT_GE TBYNATURALKEY	Get by natural key	Retrieve a specific external virtual account
	CMC_FA_EXT_VIRTUAL_ACCOUNT_VIE WALL	Get All	Retrieve all external virtual account
	CMC_FA_EXT_VIRTUAL_ACCOUNT_CL OSE	Close	Close an external virtual account
	CMC_FA_EXT_VIRTUAL_ACCOUNT_RE OPEN	Reopen	Reopen a closed external virtual account
External Virtual Account Structured Address (API)	CMC_FA_EXT_VA_SERVICE_STR_ADDR _NEW	Create	Create structured address for an external virtual account
	CMC_FA_EXT_VA_SERVICE_STR_ADDR _AMEND	Modify	Modify structured address of external virtual account



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	CMC_FA_EXT_VA_SERVICE_STR_ADDR _VIEWALL	Get all	Summary view
	CMC_FA_EXT_VA_SERVICE_STR_ADDR _VIEW	Get by natural key	Specific virtual account's structured address view
	CMC_FA_EXT_VA_SERVICE_STR_ADDR _CLOSE	Close	Closing structured address of a specific virtual account
	CMC_FA_EXT_VA_SERVICE_STR_ADDR _REOPEN	Reopen	Reopen structured address of virtual account
GL Parameter	CMC_FA_MIS_PARAMETER_NEW	Create	Create GL parameters
	CMC_FA_MIS_PARAMETER_VIEW	Get All	Get All GL parameters
	CMC_FA_MIS_PARAMETER_AUTHORIZ E	Authorize	Authorize GL parameters
	CMC_FA_MIS_PARAMETER_CLOSE	Close	Close GL parameters
	CMC_FA_MIS_PARAMETER_REOPEN	Reopen	Reopen GL parameters
	CMC_FA_MIS_PARAMETER_AMEND	Modify	Modify GL parameters
	CMC_FA_MIS_PARAMETER_DELETE	Delete	Delete GL parameters
Inter Branch Parameters	CMC_FA_INTERBRANCH_NEW	Create	Create inter branch parameters
	CMC_FA_INTERBRANCH_VIEW	Get All	Get all inter branch parameters
	CMC_FA_INTERBRANCH_AUTHORIZE	Authorize	Authorize inter branch parameters
	CMC_FA_INTERBRANCH_CLOSE	Close	Close inter branch parameters
	CMC_FA_INTERBRANCH_REOPEN	Reopen	Reopen inter branch parameters
	CMC_FA_INTERBRANCH_AMEND	Modify	Modify inter branch parameters
	CMC_FA_INTERBRANCH_DELETE	Delete	Delete inter branch parameters
External System Services (ECA System APIs)	CMC_FA_ECA_SYSTEM_AUTHORIZE	Authorize	Authorize ECA system
	CMC_FA_ECA_SYSTEM_CLOSE	Close	Close ECA system
	CMC_FA_ECA_SYSTEM_CREATE	Create	Create ECA system
	CMC_FA_ECA_SYSTEM_DELETE	Delete	Delete ECA system
	CMC_FA_ECA_SYSTEM_LOV	LOV	ECA system LOV
	CMC_FA_ECA_SYSTEM_MODIFY	Modify	Modify ECA system
	CMC_FA_ECA_SYSTEM_REOPEN	Reopen	Reopen ECA system
	CMC_FA_ECA_SYSTEM_VIEW	View	View ECA system
External System Services (Upload Source APIs)	CMC_FA_UPLOAD_SOURCE_AMEND	Amend	Amend upload source
	CMC_FA_UPLOAD_SOURCE_AUTHORIZ E	Authorize	Authorize upload source
	CMC_FA_UPLOAD_SOURCE_CLOSE	Close	Close upload source
	CMC_FA_UPLOAD_SOURCE_DELETE	Delete	Delete upload source
	CMC_FA_UPLOAD_SOURCE_NEW	New	Create upload source
	CMC_FA_UPLOAD_SOURCE_VIEW	View	View upload source



External System Services (Upload	CMC_FA_UPLOAD_SOURCE_PREF_AM END	Amend	Amend upload source preference
Source Preference APIs)			
	CMC_FA_UPLOAD_SOURCE_PREF_AUT HORIZE	Authorize	Authorize upload source preference
	CMC_FA_UPLOAD_SOURCE_PREF_CLO SE	Close	Close upload source preference
	CMC_FA_UPLOAD_SOURCE_PREF_DEL ETE	Delete	Delete upload source preference
	CMC_FA_UPLOAD_SOURCE_PREF_NE W	New	Create New upload source preference
	CMC_FA_UPLOAD_SOURCE_PREF_RE OPEN	Reopen	Reopen upload source preference
	CMC_FA_UPLOAD_SOURCE_PREF_VIE W	View	View upload source preference
cmc- additional- attribute- services	CMC_MENU_FA_ADDNL_FIELDS_MAINT	Menu	Additional Fields Maintenance
cmc-sla- services	CMC_FA_SLA_MAINT	Create	Create SLA
	CMN_WDFA_DASHBOARD_DEF	Dashboard	Service for SLA breach
cmc- datasegme nt-services	CFPM_FA_DATA_SEGMENT_AMEND	Modify	API to modify data segment details
	CFPM_FA_DATA_SEGMENT_AUTHORIZ	Authorize	API to authorize data segment details
	CFPM_FA_DATA_SEGMENT_AUTHQUE	Verify	API to authorize query data segment details
	CFPM_FA_DATA_SEGMENT_CLOSE	Close	API to close data segment details
	CFPM_FA_DATA_SEGMENT_DELETE	Delete	API to delete new data segment details
	CFPM_FA_DATA_SEGMENT_GETBY_DA TA_SEGCODE	Save	API to save new data segment details
	CFPM_FA_DATA_SEGMENT_GETBY_DO MAIN	Fetch	API to get data segment list by domain name
	CFPM_FA_DATA_SEGMENT_GETDSLIB YDOM	Fetch	API to get data segment details list by domain name
	CFPM_FA_DATA_SEGMENT_NEW	Save	API to save new data segment details
	CFPM_FA_DATA_SEGMENT_REOPEN	Reopen	API to reopen data segment details
	CFPM_FA_DATA_SEGMENT_VIEW	Fetch	API to view data segment details
	CFPM_FA_DATA_SEGMENT_VIEWALL	Fetch	API to get all data segment details
	CFPM_FA_DATA_SEGMENT_GETBY_SU BDOMAIN	Fetch	API to get data segment list by domain name categorized by subdomains
cmc- settlements -services	CMC_FA_BIC_DIRECTORY_AUTHORIZE	Authorize	Bic directory authorize
	CMC_FA_BIC_DIRECTORY_CLOSE	Close	Bic directory close



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	CMC_FA_BIC_DIRECTORY_CREATE	Create	Bic directory create
	CMC_FA_BIC_DIRECTORY_DELETE	Delete	Bic directory delete
	CMC_FA_BIC_DIRECTORY_LOV	Validation	Bic directory LOV Validation
	CMC_FA_BIC_DIRECTORY_MODIFY	Update	Bic directory amendment
	CMC_FA_BIC_DIRECTORY_REOPEN	Reopen	Bic directory reopen
	CMC_FA_BIC_DIRECTORY_VIEW	Fetch	Bic directory view
	CMC FA BIC DIRECTORY CREATE SE	Create	Bic directory create
	RVICE		service
	CMC_FA_BIC_DIRECTORY_MODIFY_SE RVICE	Update	Bic directory amendment service
	CMC_FA_BIC_DIRECTORY_REOPEN_SE RVICE	Reopen	Bic directory reopen Service
	CMC_FA_BIC_DIRECTORY_CLOSE_SER VICE	Close	Bic directory close service
	CMC_FA_BIC_DIRECTORY_VIEW_SERVICE	Fetch	Bic directory view all service
	CMC_FA_BIC_DIRECTORY_AUTHORIZE	Reject	Bic directory rejection API
cmc- checklist- services	CFPM_FA_CHECKLIST_CREATE	Create	Checklist create
	CFPM_FA_CHECKLIST_DELETE	Delete	Checklist submit
	CFPM_FA_CHECKLIST_FINAL_GET	Fetch	Checklist latest get
	CFPM_FA_CHECKLIST_ID_GET	Fetch	Checklist get by Id
	CFPM_FA_CHECKLIST_SUBMIT	Submit	Checklist submit
	CFPM_FA_CHECKLIST_UPDATE	Update	Checklist update
	CMC_FA_CHECKLIST_GET_BY_ID	Fetch	Fetch checklist details by
			ID
	CMC_FA_CHECKLIST_GET_FINAL	Fetch	Fetch submitted checklist details by ID
cmc- processcod e-services	TFPM_FA_CMC_PRCODE_MA_AUTHORIZE	Authorize	TFPM_SA_CMC_PRCO DE_MA_AUTHORIZE
	TFPM_FA_CMC_PRCODE_MA_CLOSE	Close	TFPM_SA_CMC_PRCO DE_MA_CLOSE
	TFPM_FA_CMC_PRCODE_MA_CREATE	Create	TFPM_SA_CMC_PRCO DE_MA_NEW
	TFPM_FA_CMC_PRCODE_MA_DELETE	Delete	TFPM_SA_CMC_PRCO DE_MA_DELETE
	TFPM_FA_CMC_PRCODE_MA_LOV	Validation	TFPM_SA_CMC_PRCO DE_MA_LOV
	TFPM_FA_CMC_PRCODE_MA_MODIFY	Update	TFPM_SA_CMC_PRCO DE_MA_AMND
	TFPM_FA_CMC_PRCODE_MA_REOPEN	Reopen	TFPM_SA_CMC_PRCO DE_MA_REOPEN
	TFPM_FA_CMC_PRCODE_MA_VIEW	Fetch	TFPM_SA_CMC_PRCO DE_MA_VIEW
	CMC_FA_PROCESSCODE_PHASES	Fetch	CMC_SA_PROCESSCO DE_PHASES
	TFPM_FA_CMC_PRCODE_MA_AUTHORIZE	Reject	Rejection API
cmc-ml- indb- services	CMC_FA_ML_TS_USECASE_MODIFY	Unlock	Modifies specific use case setting
	CMC_FA_ML_TS_USECASE_GETBYID	View	Fetches specific use case setting
	CMC_FA_ML_TS_USECASE_GETALL	Get Summary	Fetches all use case settings



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	CMC_FA_ML_TS_USECASE_DELETE	Delete	Deletes specific use case setting
	CMC_FA_ML_TS_USECASE_AUTHORIZ E	Authorize	Approves use case Setting Record
	CMC_FA_ML_TS_USECASE_UNAUTHOR	GetUnauthResourc	Fetches unauthorized
	IZE	es	data of specific use case
			setting
	CMC_FA_ML_TS_USECASE_CLOSE	Close	Closes use case setting record
	CMC_FA_ML_TS_USECASE_GETHISTO	History	Fetches history of
	RY	l motory	specific use case setting
	CMC_FA_ML_TS_USECASE_REOPEN	Reopen	Reopen use case setting record
	CMC_FA_ML_TS_USECASE_CREATE	Create	Saves New use case setting
	CMC_FA_ML_TS_USECASE_FETCH_DA TACOLUMNS	GetDataColumns	Fetches data columns
	CMC_FA_ML_TS_USECASE_METRIC	Geometrics	Metrics of Specific use case
	CMC_FA_ML_TS_USECASE_FETCH_MINING_FUNCTIONS	GetUseCaseTypes	Fetches Supported Mining Functions
	CMC_FA_ML_TS_USECASE_FETCH_AL	GetSupportedAlgori	Fetches Algorithms
	GORITHMS	thms	Supported by Mining Functions
	CMC_FA_ML_TS_USECASE_FETCH_PR ODUCTS	GetProductList	Fetches Preconfigured OBMA Products
	CMC_FA_ML_TS_MODEL_TRAIN	Train Model	Trains The Model for Specified use case
	CMC_FA_ML_TS_MODEL_BATCH_SCOR	Batch Score	Score The Model for
	ING		Specified use case
	CMC_FA_ML_CORRELATION	Correlation	Perform Correlation
	CMC_FA_ML_POSITIVE_TARGET	Get Positive Target	Get Positive Target Value
	CMC FA ML COST MATRIX	GetCostMatrix	Fetch Cost Matrix
	CMC FA ML SAVE COST MATRIX	Save Cost Matrix	Save Cost Matrix
	CMC_FA_ML_TS_USECASE_MONITORI	GetModelMonitorin	Model Monitoring
	NG	g	C
	CMC_FA_ML_TS_USECASE_MONITORI NG DETAILS	Get Model Monitoring Details	Model Monitoring Details
	CMC_FA_ML_TS_USECASE_SAVE_AUT OMOD	GetAutomodDetails	Save Model Monitoring Auto mod
	CMC_FA_ML_TS_USECASE_GET_AUTO	Save Auto mods	Get Model Monitoring
	MOD		Auto mod
	CMC_FA_ML_TS_USECASE_TRAIN_INF _CHECK	TrainInfCheck	Check Train and Inference Data Source
cmc-fc-ai- ml-services	CMC_FA_POLLER_FLAG	SetPollerFlag	Sets the polar flag
cmc-nlp-	CMC_NLP_FA_TEXT_EXTRACTION_PRO	ProcessFile	Text Extraction Process
text-	CESS		
extraction-			
services	CMC NI D EA MADD MANDAMIT OFT	CotAll	Model Managers and Oat
cmc-nlp- maintenanc	CMC_NLP_FA_MOD_MNGMNT_GET	GetAll	Model Management Get all
e-services			an an
3 00.71003	CMC_NLP_FA_MOD_MNGMNT_GETBY_I	GetByld	Model Management
	D	J. -	Getting by ID
	CMC_NLP_FA_MOD_MNGMNT_POST	Save Record	Model Management Saving
	CMC_NLP_FA_MOD_MNGMNT_AUTHOR	Authorize	Model Management
	IZE		Authorize
		· · · · · · · · · · · · · · · · · · ·	



CMC_NLP_FA_MOD_MNGMNT_AUTHQU	Authorize Query	Model Management Auth
CMC_NLP_FA_MOD_MNGMNT_CLOSE	Close Record	Model Management Close
CMC_NLP_FA_MOD_MNGMNT_DELETE	Delete	Model Management Delete
CMC_NLP_FA_MOD_MNGMNT_HISTOR Y	Get History	Model Management History
CMC_NLP_FA_MOD_MNGMNT_REOPEN	Reopen Record	Model Management Open Record
CMC_NLP_FA_MOD_MNGMNT_TAGPAR AMS	tagParams	Model Management Tag Parameters
CMC_NLP_FA_ANNOTATOR_ERROR_D ATA	fetch Error Data	Annotator service to return Doc id and file name for Error status.
CMC_NLP_FA_ANNOTATOR_CLASS_FIL E	Upload Class File	Annotator service to save classification file
CMC_NLP_FA_ANNOTATOR_ANNOTATE D_FILE	Upload Annotated File	Annotator service to save annotated file
CMC_NLP_FA_MOD_MNGMNT_PUT	Modify Record	Model Management Modifying
CMC_NLP_FA_ONL_PRCSNG_PROCES S	Process File	Online Processing Process File
CMC_NLP_FA_ONL_PRCSNG_TRAIN	Train Model	Online Processing Model Train
CMC_NLP_FA_ONL_PRCSNG_SAVE	Save Model	Online Processing Model Save
CMC_NLP_FA_ONL_PRCSNG_SERV	Process File	Online Processing Process File
CMC_NLP_FA_TAG_CREATION_GET	Get All	Tag Creation Get all
CMC_NLP_FA_TAG_CREATION_GETBY_ ID	GetById	Tag Creation Getting By Id
CMC_NLP_FA_TAG_CREATION_POST	Save Record	Tag Creation Saving
CMC_NLP_FA_TAG_CREATION_PUT	Modify Record	Tag Creation Modifying
CMC_NLP_FA_TAG_CREATION_AUTHO RIZE	Authorize	Tag Creation Authorize
CMC_NLP_FA_TAG_CREATION_AUTHQ UERY	Authorize Query	Tag Creation Auth
CMC_NLP_FA_TAG_CREATION_CLOSE	Close Record	Tag Creation Close
CMC_NLP_FA_TAG_CREATION_DELETE	Delete	Tag Creation Delete
CMC_NLP_FA_TAG_CREATION_HISTOR Y	Get History	Tag Creation History
CMC_NLP_FA_TAG_CREATION_REOPE N	Reopen Record	Tag Creation Open Record
CMC_NLP_FA_TXN_LOG_UPDATE	UpdateTxnLog	Transaction Log Update Service
CMC_NLP_FA_TXN_LOG_FETCH_LOGD ATA	FetchLogTableData	Transaction Log Fetch Log Data Service
CMC_NLP_FA_TXN_LOG_FETCH_TAGV ALS	FetchTagVals	Transaction Log Fetch Tag values Service
CMC_NLP_FA_UTIL_USECASES	GetUsecases	Util Service usecasenames
CMC_NLP_FA_UTIL_TAGS	GetTags	Util Service tags
CMC_NLP_FA_MODMNGMNT_GET_RUN REF	GetrunRefs	Get Run Reference By use case
CMC_NLP_FA_MODMNGMNT_EXPORT_ MODEL	Export Model	Export NLP Models
CMC_NLP_FA_MODMNGMNT_IMPORT_ MODEL	Import Model	Import NLP Models



CMC_NLP_FA_ANNOTATOR_GET_FILE_ BY_ID	GetFileById	Get File IDs
CMC_NLP_FA_ANNOTATOR_GET_FILE_ IDS	GetFileIds	Get File IDs
CMC_NLP_FA_MOD_MNGMNT_AUTHOR IZE	Reject	Rejection API
CMC_NLP_FA_TAG_CREATION_AUTHO RIZE	Reject	Rejection API



12 Glossary

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

Accounts

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

Reports

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

Pareto Chart

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

Sunburst Chart

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

Virtual Account

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

Virtual Identifier

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



13 List of Menus

- 1. 3P Service Integration 5.3 3P Service Integration (pg. 329)
- 2. Account Entitlement Group 2.1 Account Entitlement Group (pg. 18)
- 3. Additional Field Maintenance 2.2 Additional Field Maintenance (pg. 20)
- 4. Advice 2.3 Advice (pg.24)
- 5. Amount Text Language 2.4 Amount Text Language (pg. 27)
- 6. BIC Directory 2.5 BIC Directory (pg. 30)
- 7. Borrowing Capacity 4.6 Borrowing Capacity (pg. 227)
- 8. Branch EOD 2.5 Branch EOD (pg. 30)
- 9. Bureau Integration Service 3 Bureau Integration Service (pg. 153)
- 10. Country Code 2.6 Country Code (pg. 38)
- 11. Create Questionnaire 4.14.1 Questionnaire (pg. 319)
- 12. Credit Bureau Display 3.6.1 Credit Bureau Display (pg.Error! Bookmark not defined.)
- 13. Criteria 3.5 Criteria (pg. 150Error! Bookmark not defined.)
- 14. Currency Definition 2.9 Currency Definition (pg. 45)
- 15. Currency Exchange Rate 2.10 Currency Exchange Rate (pg. 50)
- 16. Currency Holiday Master 2.11 Currency Holiday Master (pg. 55)
- 17. Currency Pair Definition 2.12 Currency Pair Definition (pg. 57)
- 18. Currency Rate Type 2.13 Currency Rate Type (pg. 60)
- 19. Customer Category 2.15 Customer Category (pg. 64)
- 20. Decision Grade Matrix 4.10 Decision Grade Matrix (pg. 255)
- 21. Decision Service 4 Decision Service (pg. 207)
- 22. ECA System 2.17 ECA System (pg. 68)
- 23. Execution Summary 4.17 View Execution Summary (pg. 348Error! Bookmark not defined.)
- 24. External Bank Parameters 2.18 External Bank Parameters (pg. 70)
- External Branch Parameters 2.19 External Branch Parameters (pg. 72)
- 26. External Chart Account 2.20 External Chart Account (pg. 75)
- 27. External Customer 2.21 External Customer (pg. 86)
- 28. External Customer Account 2.22 External Customer Account (pg. 90)
- 29. External Customer Account Structured Address 2.23 External Customer Account Structured Address (pg. 94)
- 30. External Virtual Account Structured Address 2.24 External Virtual Account Structured Address (p. 97)
- 31. Forget Process 2.25 Forget Process (pg. 98)
- 32. Host Code 2.27 Host Code (pg. 103)
- 33. Integrating Bureau Integration Service with Oracle Banking Routing Hub 3.7 Integrating Bureau Integration Service with Oracle Banking Routing Hub (pg. 160)
- 34. Integrating Decision Service with Oracle Banking Routing Hub 4.18 Integrating Decision Service with Oracle Banking Routing Hub (pg. 369)
- 35. Language Code 2.30 Language Code (pg. 113)
- 36. Local Holiday 2.31 Local Holiday (pg. 115)



- 37. Validation Model 4.12 Validation Model (pg. 288)
- 38. Lookup 4.4 Lookup (pg. 198)
- 39. Media 2.32 Media (pg. 118)
- 40. Multi-Currency Account Linkage 2.35 Multi-Currency Account Linkage (pg. 125)
- 41. Operation 5.2 Operation (pg. 407)
- 42. Process Code 2.36 Process Code (pg. 108)
- 43. Pricing 4.11 Pricing (pg. 272)
- 44. Pricing Source System 2.35 Pricing Source System (pg. 133)
- 45. Product Processor 3.4 Product Processor (pg.165)
- 46. Qualitative Scoring Model 4.13 Qualitative Scoring Model (pg. 303)
- 47. Quantitative Scoring Model 4.9 Quantitative Scoring Model (pg. 235)
- 48. Scoring Feature 4.8 Scoring Feature (pg. 230)
- 49. Strategy Configuration 4.7 Strategy Configuration (pg. 221)
- 50. System Dates 2.40 System Dates (pg. 126)
- 51. System Parameter 3.2 System Parameter (pg. 137)
- 52. Transaction Code 2.44 Transaction Code (pg. 127)
- 53. Toolkit 5.1 Toolkit (pg. 412)
- 54. Upload Source 2.45 Upload Source (pg. 129)
- 55. Upload Source Preferences 2.46 Upload Source Preference (pg. 131)
- 56. Customer Access Group 2.14 Customer Access Group (pg. 62)



14 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.

