Oracle Banking Common Core User Guide

Oracle Banking Supply Chain Finance

Release 14.7.0.0.0

Part Number F72110-01

November 2022



Oracle Banking Common Core User Guide

Oracle Financial Services Software Limited Oracle Park Off Western Express Highway Goregaon (East) Mumbai, Maharashtra 400 063 India Worldwide Inguiries:

Phone: +91 22 6718 3000 Fax: +91 22 6718 3001 https://www.oracle.com/industries/financial-services/index.html

Copyright © 2021, 2022, Oracle and/or its affiliates. All rights reserved.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

U.S. GOVERNMENT END USERS: Oracle programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, delivered to U.S. Government end users are "commercial computer software" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, shall be subject to license terms and license restrictions applicable to the programs. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate failsafe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited. The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

This software or hardware and documentation may provide access to or information on content, products and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services.



Contents

1 Pre	eface	9
1.1	Introduction	9
1.2	Audience	9
1.3	Document Accessibility	9
1.4	Acronyms and Abbreviations	9
1.5	List of Topics	9
1.6	Related Documents	10
1.7	Symbols and Icons	10
1.8	Basic Actions	13
2 Co	re Maintenance	15
2.1	Additional Field Maintenance	17
2.2	Advice	19
2.2.	2.1 Advice Summary	19
2.2.	2.2 Advice Maintenance	20
2.3	Amount Text Language	22
2.3.	Amount Text Language Summary	22
2.3.	Amount Text Language Maintenance	23
2.4	BIC Directory	25
2.4.	.1 BIC Directory Summary	25
2.4.	.2 BIC Directory Maintenance	26
2.5	Branch EOD	29
2.5.	5.1 Branch EOD Summary	29
2.5.	5.2 Branch EOD Maintenance	
2.5.	5.3 Branch EOD Invoke	31
2.6	Country Code	
2.6.	5	
2.6.	Country Code Maintenance	34
2.7	Currency Definition	
2.7.	5	
2.7.		
2.8	Currency Exchange Rate	
2.8.		
2.8.		
2.9	Currency Holiday Master	
2.9.		
2.9.	0.2 Currency Holiday Master Maintenance	49



2.10	Cur	rency Pair Definition	.50
2.1	0.1	Currency Pair Definition Summary	.50
2.1	0.2	Currency Pair Definition Maintenance	.51
2.11	Cur	rency Rate Type	.53
2.1	1.1	Currency Rate Type Summary	.53
2.1	1.2	Currency Rate Type Maintenance	.54
2.12	Cus	stomer Access Group	.56
2.1	2.1	Customer Access Group Summary	.56
2.1	2.2	Customer Access Group Maintenance	.57
2.13	Cus	stomer Category	.58
2.1	3.1	Customer Category Summary	.58
2.1	3.2	Customer Category Maintenance	.59
2.14	EC	A System	.60
2.1	4.1	ECA System Summary	.60
2.1	4.2	ECA System Maintenance	.61
2.15	Ext	ernal Bank Parameters	.62
2.1	5.1	External Bank Parameters Summary	.62
2.1	5.2	External Bank Parameters Maintenance	.63
2.16	Ext	ernal Branch Parameters	.64
2.1	6.1	External Branch Parameters Summary	.64
2.1	6.2	External Branch Parameters Maintenance	.65
2.17	Ext	ernal Chart Account	.67
2.1	7.1	External Chart Account Summary	.67
2.1	7.2	External Chart Account Maintenance	.68
2.18	Ext	ernal Customer	.69
2.1	8.1	External Customer Summary	.69
2.1	8.2	External Customer Maintenance	.70
2.19	Ext	ernal Customer Account	.72
2.1	9.1	External Customer Account Summary	.72
2.1	9.2	External Customer Account Maintenance	.73
2.20	Ext	ernal Customer Account Structured Address	.76
2.2	0.1	View External Customer Account Structured Address	.76
2.2	0.2	Create External Customer Account Structured Address	.77
2.21	Ext	ernal Virtual Account Structured Address	.79
2.2	1.1	View External Virtual Account Structured Address	.79
2.22	For	get Process	.80
2.2	2.1	Forgotten Customers Summary	.80
2.2	2.2	Forget Customer Maintenance	.81



2.23	Host Code	83
2.23.	1 Host Code Summary	83
2.23.	2 Host Code Maintenance	84
2.24 I	_anguage Code	85
2.24.	1 Language Code Summary	85
2.24.	2 Language Code Maintenance	
2.25 I	_ocal Holiday	87
2.25.	1 Local Holiday Summary	87
2.25.	2 Local Holidays Maintenance	88
2.26	Media	89
2.26.	1 Media Summary	89
2.26.	2 Media Maintenance	90
2.27	Multi-Currency Account Linkage	92
2.27.	1 Create MCA Linkage	92
2.27.	2 View MCA Linkage	93
2.28	Process Code	94
2.28.	1 View Process Code	94
2.28.	2 Process Code Maintenance	95
2.29	System Dates	97
2.29.	1 System Dates Summary	97
2.30	Transaction Code	
2.30.	1 Transaction Code Summary	
2.30.	2 Transaction Code Maintenance	99
2.31	Jpload Source	
2.31.	1 Upload Source Summary	
2.31.	2 Upload Source Maintenance	101
2.32	Jpload Source Preference	
2.32.	1 Upload Source Preference Summary	
2.32.	2 Upload Source Preference Maintenance	
2.33	Pricing Source System	105
2.33.	1 Pricing Source System Summary	
2.33.	2 Pricing Source System Maintenance	
2.34	ntegrating Bureau Integration Service with Oracle Banking Routing Hub	
2.34.	1 Oracle Banking Routing Hub Configuration	107
2.34.	2 Service Providers	118
2.34.	3 Experian Configuration	128
2.34.	4 Equifax Configuration	129
2.34.	5 Document Configuration	130
2.34.	6 Troubleshooting	132



2.35	Bur	eau Integration Service	133
2.3	5.1	Overview	133
2.36	Cre	dit Bureau Display	136
2.3	6.1	View Credit Bureau Report	136
2.37	Loo	kup	140
2.3	7.1	Create Lookup	140
2.3	7.2	View Lookup	142
2.38	Crit	eria	146
2.3	8.1	Create Bureau Criteria	146
2.3	8.2	View Bureau Criteria	149
2.39	Sys	tem Parameter	153
2.3	9.1	Create System Parameter	153
2.3	9.2	View System Parameter	154
2.40	Inte	grating Decision Service with Oracle Banking Routing Hub	158
2.4	0.1	Oracle Banking Routing Hub Configuration	158
2.4	0.2	Service Providers	167
2.4	0.3	Oracle FLEXCUBE Onboarding to Decision Service Configuration	177
2.41	Dec	ision Service	178
2.4	1.1	Overview	178
2.4	1.2	Process Flow	179
2.4	1.3	Strategy Configuration	
2.42	Pro	duct Processor	181
2.4	2.1	Create Product Processor	181
2.4	2.2	View Product Processor	182
2.43	Loo	kup	187
2.4	3.1	Create Lookup	187
2.4	3.2	View Lookup	189
2.44	Sys	tem Parameter	193
2.4	4.1	Create System Parameter	193
2.4	4.2	View System Parameter	195
2.45	Stra	tegy Configuration	199
2.4	5.1	Create Strategy Configuration	199
2.4	5.2	View Strategy Configuration	203
2.46	Vali	dation Model	207
2.4	6.1	Create Validation Model	208
2.4	6.2	View Validation Model	213
2.47	Bor	rowing Capacity	219
2.4	7.1	Create Borrowing Capacity	221
2.4	7.2	View Borrowing Capacity	226



2.48 Qu	estionnaire	231
2.48.1	Create Questionnaire	232
2.48.2	View Questionnaire	234
2.49 Qu	alitative Scoring Model	238
2.49.1	Create Qualitative Scoring Model	239
2.49.2	View Qualitative Scoring Model	
2.50 Sc	oring Feature	
2.50.1	Create Scoring Feature	253
2.50.2	View Scoring Feature	255
2.51 Qu	antitative Scoring Model	257
2.51.1	Create Quantitative Scoring Model	
2.51.2	View Quantitative Scoring Model	
2.52 De	cision Grade Matrix	276
2.52.1	Create Decision Grade Matrix	276
2.52.2	View Decision Grade Matrix	
2.53 Pri	cing	
2.53.1	Create Pricing Model	
2.53.2	View Pricing Model	299
2.00.2		
	w Execution Summary	
2.54 Vie 2.54.1	w Execution Summary	
2.54 Vie 2.54.1 3 NLP Fi	w Execution Summary View Execution Summary	
2.54 Vie 2.54.1 3 NLP Fi	w Execution Summary View Execution Summary	
2.54 Vie 2.54.1 3 NLP Fi 3.1 To	w Execution Summary View Execution Summary ramework	
2.54 Vie 2.54.1 3 NLP Fi 3.1 To 3.1.1	w Execution Summary View Execution Summary ramework olkit Use Case Definition	
2.54 Vie 2.54.1 3 NLP Fi 3.1 Too 3.1.1 3.1.2	w Execution Summary View Execution Summary ramework olkit Use Case Definition Annotator	
2.54 Vie 2.54.1 3 NLP Fr 3.1.1 3.1.2 3.1.3 3.1.4	w Execution Summary View Execution Summary ramework olkit Use Case Definition Annotator Model Training	
2.54 Vie 2.54.1 3 NLP Fr 3.1.1 3.1.2 3.1.3 3.1.4	w Execution Summary View Execution Summary ramework olkit Use Case Definition Annotator Model Training Model Management	
2.54 Vie 2.54.1 3 NLP Fr 3.1 To 3.1.1 3.1.2 3.1.3 3.1.4 3.2 Op	w Execution Summary View Execution Summary ramework olkit Use Case Definition Annotator Model Training Model Management eration	
2.54 Vie 2.54.1 3 NLP Fr 3.1 To 3.1.1 3.1.2 3.1.3 3.1.4 3.2 Op 3.2.1 3.2.2	w Execution Summary View Execution Summary ramework olkit Use Case Definition Annotator Model Training Model Management eration Document Upload	
2.54 Vie 2.54.1 3 NLP Fr 3.1 To 3.1.1 3.1.2 3.1.3 3.1.4 3.2 Op 3.2.1 3.2.2	ew Execution Summary View Execution Summary amework olkit. Use Case Definition Annotator Model Training Model Management eration Document Upload Transaction Log	
2.54 Vie 2.54.1 3 NLP Fr 3.1 To 3.1.1 3.1.2 3.1.3 3.1.4 3.2 Op 3.2.1 3.2.2 3.3 3P	ew Execution Summary	
2.54 Vie 2.54.1 3 NLP Fr 3.1 To 3.1.1 3.1.2 3.1.3 3.1.4 3.2 Op 3.2.1 3.2.2 3.3 3P 3.3.1	w Execution Summary	
2.54 Vie 2.54.1 3 NLP Fr 3.1 To 3.1.1 3.1.2 3.1.3 3.1.4 3.2 Op 3.2.1 3.2.2 3.3 3P 3.3.1 3.3.2	w Execution Summary	
2.54 Vie 2.54.1 3 NLP Fr 3.1 To 3.1.1 3.1.2 3.1.3 3.1.4 3.2 Op 3.2.1 3.2.2 3.3 3P 3.3.1 3.3.2 3.3.3	w Execution Summary	



4	N	Machin	e Learning Framework	352
4	4.1	Use	Case On-Boarding	352
4	4.2	Frai	meworks Supported	353
	4	1.2.1	Timeseries	353
	4	1.2.2	Timeseries Algorithms Supported	353
	4	1.2.3	Regression	354
	4	1.2.4	Regression Algorithms Supported	354
	4	1.2.5	Classification	
	4	1.2.6	Classification Algorithms Supported	355
4	4.3	Par	titioned Model	
4	4.4	On-	Boarding Use Case	357
	4	1.4.1	Model Definition	357
	4	1.4.2	Model Training and Scoring	
4	4.5	Onli	ine Single Record Prediction	
4	4.6	Use	e Case Modifications	
4	4.7	Data	a Extensibility	
4	4.8	Moo	del Explainability	
4	4.9	Tim	e Series Forecast	
	1	1.9.1	Forecast REST Service	
	4	r.o. i		
5	-		ramework	
	-	Rules F		368
	F 5.1	Rules F	ramework	368 368
	F 5.1 5	Rules F Fac	ramework ts	368
	F 5.1 5 5	Rules F Fac 5.1.1	ramework ts Create Fact	368 368 368 370
4	F 5.1 5 5	Rules F Fac 5.1.1 5.1.2 5.1.3	ramework ts. Create Fact Create ENUM type Fact	368 368 368 370 371
4	F 5.1 5 5 5 5.2	Rules F Fac 5.1.1 5.1.2 5.1.3	ramework ts Create Fact Create ENUM type Fact View Fact	
4	5.1 5 5 5 5.2 5	Rules F Fac 5.1.1 5.1.2 5.1.3 8 Rule	ramework ts Create Fact Create ENUM type Fact View Fact	
4	F 5.1 5 5 5 5.2 5 5	Rules F Fac 5.1.1 5.1.2 5.1.3 5.1.3 Rule 5.2.1	ramework ts Create Fact Create ENUM type Fact View Fact e Create Rule.	
4	F 5.1 5 5 5.2 5 5.2 5 5 5	Rules F Fac 5.1.1 5.1.2 5.1.3 C Rule 5.2.1 5.2.2	ramework ts Create Fact Create ENUM type Fact View Fact create Rule View Rule	
4	F 5.1 5 5 5 5.2 5 5 5 5 5 5 5	Rules F Fac 5.1.1 5.1.2 5.1.3 5.2.1 5.2.1 5.2.2 5.2.3	ramework Create Fact Create ENUM type Fact View Fact create Rule View Rule Evaluate Rule	
4	F 5.1 5 5 5.2 5 5 5 5 5 5 5 5 5	Rules F Fac 5.1.1 5.1.2 5.1.3 5.2.1 5.2.2 5.2.3 5.2.4 5.2.5	Framework Create Fact Create ENUM type Fact View Fact e Create Rule View Rule Evaluate Rule Rule Group	
6	F 5.1 5 5 5.2 5 5 5 5 5 5 5 5 5	Rules F Fac 5.1.1 5.1.2 5.1.3 5.2.1 5.2.2 5.2.3 5.2.4 5.2.5 Docume	Trameworkts. Create Fact Create ENUM type Fact View Facte Create Rule View Rule Evaluate Rule Rule Group Audit Rule	
6	F 5.1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Rules F Fac 5.1.1 5.1.2 5.1.3 5.2.1 5.2.2 5.2.3 5.2.4 5.2.5 Docume Tex	Frameworkts Create Fact Create ENUM type Fact View Facte Create Rule View Rule Evaluate Rule Rule Group Audit Rule ent Verification Framework	
6	F 5.1 5 5 5 5.2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Rules F Fac 5.1.1 5.1.2 5.1.3 5.2.1 5.2.2 5.2.3 5.2.4 5.2.5 Docume Tex	ramework Create Fact Create ENUM type Fact View Facte Create Rule View Rule Evaluate Rule Rule Group Audit Rule Et Verification Framework t Extraction	
6	F 5.1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Rules F Fac 5.1.1 5.1.2 5.1.3 5.2.1 5.2.2 5.2.3 5.2.4 5.2.5 Docume Tex	ramework tts Create Fact Create ENUM type Fact View Fact e Create Rule View Rule Evaluate Rule Rule Group Audit Rule ent Verification Framework t Extraction ge Processing	
6	F 5.1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Rules F Fac 5.1.1 5.1.2 5.1.3 5.2.1 5.2.2 5.2.3 5.2.4 5.2.5 Docume Tex Ima Doc	Frameworkts. Create Fact Create ENUM type Fact View Fact e. Create Rule View Rule Evaluate Rule Rule Group Audit Rule ent Verification Framework t Extraction ge Processing cument Verification API Details	
6	F 5.1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Rules F Fac 5.1.1 5.1.2 5.1.3 5.2.1 5.2.2 5.2.3 5.2.4 5.2.5 Docume Tex Ima 5.3.1	iramework Create Fact Create ENUM type Fact View Facte Create Rule	



6.4	Validate Information API details	400
6.4	.1 Passport Validation	401
6.4	.2 Driving License Validation	405
6.4	.3 National Identification Validation	409
6.4	.4 Voter Identity Card Validation	413
6.4	.5 Pointers about Request and Response	416
6.4	.6 Things to be taken care of	416
6.5	Recommendations for better performance	417
7 File	e Upload	418
7.1	Country Code File Upload	418
7.2	Bank Core Parameters File Upload	420
7.3	Branch Core Parameters File Upload	421
7.4	Currency Definition File Upload	423
7.5	BIC Directory File Upload	426
7.6	Local Holiday File Upload	429
7.7	Currency Holiday File Upload	430
7.8	External Customer File Upload	431
7.9	External Customer Account File Upload	434
7.10	Exchange Rate File Upload	436
8 Err	or Codes and Messages	438
9 Fu	nctional Activity Codes	462
10 Glo	ossary	485
11 Lis	t of Menus	486
12 Fee	edback and Support	488
-	••	



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.
NLP Framework	This topic describes about NLP Framework.
Machine Learning Framework	This topic describes about Machine Learning 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.



Topics	Description
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.	Minimize
74 22	Maximize
×	Close
0	Perform Search
•	Open a list
+	Add a new record
К	Navigate to the first record



Symbol/Icon	Function
К	Navigate to the last record
<	Navigate to the previous record
>	Navigate to the next record
	Grid view
	List view
C	Refresh
+	Click this icon to add a new row.
	Click this icon to delete an existing row.
G	Click to view the created record.
δ	Click to modify the fields.
:	Click to unlock, delete, authorize or view the created record.

Table 4: Symbols and Icons – Audit Details

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

Table 5: Symbols and Icons - Widget



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



1.8 Basic Actions

Most of the screens contain buttons to perform all or few of the basic actions. The table below gives a snapshot of them:

Actions	Description		
New	Click to add a new record. When you click New, system displays a new record enabling you to specify the required data. It is mandatory to specify details for the fields 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 Additional Field Maintenance
- 2.2 Advice
- 2.3 Amount Text Language
- 2.4 BIC Directory
- 2.5 Branch EOD
- 2.6 Country Code
- 2.7 Currency Definition
- 2.8 Currency Exchange Rate
- 2.9 Currency Holiday Master
- 2.10 Currency Pair Definition
- 2.11 Currency Rate Type
- 2.12 Customer Access Group
- 2.13 Customer Category
- 2.14 ECA System
- 2.15 External Bank Parameters
- 2.16 External Branch Parameters
- 2.17 External Chart Account
- 2.18 External Customer
- 2.19 External Customer Account
- 2.20 External Customer Account Structured Address
- 2.21External Virtual Account Structured Address
- 2.22 Forget Process
- 2.23 Host Code
- 2.24 Language Code
- 2.25 Local Holiday

Copyright @ 2021, 2022 All Rights Reserved



- 2.26 Media
- 2.27 Multi-Currency Account Linkage
- 2.28 Process Code
- 2.29 System Dates
- 2.30 Transaction Code
- 2.31 Upload Source
- 2.32 Upload Source Preference
- 2.33 Pricing Source System
- 2.34 Integrating Bureau Integration Service with Oracle Banking Routing Hub
- 2.35 Bureau Integration Service
- 2.36 Credit Bureau Display
- 2.37 Lookup
- 2.38 Criteria
- 2.39 System Parameter
- 2.40 Integrating Decision Service with Oracle Banking Routing Hub
- 2.41 Decision Service
- 2.50 Scoring Feature and Scoring Model
- 2.52 Decision Grade Matrix
- 2.53 Pricing
- 2.54 Execution Summary



2.1 Additional Field Maintenance

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

- 1. From Home screen, click Core Maintenance. Under Core Maintenance, click Additional Field Maintenance.
 - → The Additional Field Maintenance Summary screen is displayed.

Figure 1: Additional Field Maintenance Summary

Additional Field Maintenance		i celle ce
ч с +		II =
ui Key: Tsghtt-ob-crant-os-ad	ui Key: Tsghttinb-cmn-ds-ad 🍄	
Application ID:	Application ID:	
Description: Authoral Fields	Description: Alignatification	
Page 1 of 1 (1-8 of 8 items)	к (1) Х	

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

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

Table 7: Additional Field Maintenance Summary – Field Description

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



Figure 2: Additional Fields Maintenance

Additional Fields Main	tenance									, ²	×
New											
Component Name		Product Cor	de		Product Name			Description			
	9		0,								
Application ID											
OBTEPM											
Construct Additional	Fields MetaData								+		
Select	Field ID	Field Labe	el	Category		Field Type	Edit		Mandatory		
No data to display.											
Construct Validation I	MetaData								•		
Select	Validation Name		Validation Template To Use			Custom Error Message		Ed	lit Arguments		
No data to display.											
										Save Cance	al I

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

Field	Description
Component Name	Click Search icon and select the component name from the list of
Product Code	Click Search icon and select the product code from the list of
Product Name	Displays the product name for the specified product code.
Description	Displays the description as Additional Fields , and it can be modified.
Application ID	Displays the Application ID.
Construct Additional Fields MetaData	Specify the details under this section to configure metadata for each field.
Select	Check this box to select/unselect a row.
Field ID	Specify the field ID.
Field Label	Specify the field label.
Category	Specify the category.
Field Type	Select the field type from the drop-down values.
Edit	Click this icon to edit the fields in the row.
Mandatory	Check this box if the field needs to be configured as mandatory.
Construct Validation MetaData	Specify the details under this section for validations to be applied on configured fields.

Table 8: Additional Fields Maintenance – Field Description



Field	Description
Select	Check this box to select/unselect a row.
Validation Name	Specify the validation name.
Validation Template To Use	Select the template to be used for the validation.
Custom Error Message	Specify the error message that needs to be displayed for the
Edit Arguments	Click this icon to edit the fields in the row.

4. Click **Save**. You can view the confirmation advice details in the Additional Field Maintenance Summary.

2.2 Advice

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

This section contains following subsections:

- 2.2.1 Advice Summary
- 2.2.2 Advice Maintenance

2.2.1 Advice Summary

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

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

 \rightarrow The **View Advice** screen is displayed.

Figure 3: View Advice

View Advice	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
< c +	
Advice Name: : adviceTest	^
Advice Description: adviceTest Micro Service Name:	
🗘 Authorized 🔒 Open 🗹 1	v
Page 1 of 1 (1 - 1 of 1 items) K < 1 \rightarrow X	



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

Table 9: View Advice – Field Description

Field	Description	
Advice Name	Displays the name of the advice.	
Advice Description	Displays information about the advice.	
Micro Service Name Displays the name of the micro service.		
Status	Displays the status of the record.	
Modification Number	Displays the number of modifications performed on the record.	

2.2.2 Advice Maintenance

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

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

 \rightarrow The **Create Advice** screen is displayed.

Figure 4: Create Advice

Create Advice			$_{\mu}^{d}$ \times
New			
Advice Name *			
Advice Description *	Micro Service Name	Swift Micro Service	Micro Service Endpoint
Application Name *	Application Description *		
A :			
Media *	Branch *	Currency *	Report Locale *
Report Absolute Path *	Format * Select an option	Swift Endpoint	
			Save Cancel

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

Table 10: Create Advice – Field Description

Field	Description
Advice Name	Specify the name of the advice.



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



2.3 Amount Text Language

You can configure an amount text language.

This section contains following subsections:

- 2.3.1 Amount Text Language Summary
- 2.3.2 Amount Text Language Maintenance

2.3.1 Amount Text Language Summary

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

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

Figure 5: View Amount Text Language

View Amount Text Language	$_{\mu}$ sr \times
	::: =
Language Code: : CPO	^
Language Code: CPO	
Page 1 of 1 (1 - 1 of 1 items)	К < 1 > Э

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

Table 11: 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.	



2.3.2 Amount Text Language Maintenance

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

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

Figure 6: Create Amount Text Language

Create Am	iount Text Languag	ge						,,** ×
New								
Language Co	ode *							
		0						
Amount W	Vord Currency List							
	CCY Symbol	Decimals As Fraction	Final Text	CCY	Post Decimal	Pre Decimal	Text Before	Text Between
No data	to display.							
Page 1	(0 of 0 items) K	< 1 > >						
Amount W	Vord Text List							
				-				
	Amount	One Flag	Text					
No data	to display.							
Page 1	(0 of 0 items) 🛛 🕅	< 1 > ×						
							1	Save Cancel

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

Table 12: Create Amount Text Language – Field Description

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



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

4. Click **Save**. You can view the configured amount text language details in the Amount Text Language Summary.



2.4 BIC Directory

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

This section contains following subsections:

- 2.4.1 BIC Directory Summary
- 2.4.2 BIC Directory Maintenance

2.4.1 BIC Directory Summary

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

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

Figure 7: View BIC Directory

View BIC Directory	
० c +	
Customer Number:	Customer Number:
BIC Code: AAEMNL21XXX Sub Type Code: Bank Name: HEL	BIC Code: APACGB61BCN Sub Type Code: Bank Name: FUTURA BANK
🔁 Authorized 🔒 Open 🖉 2	🗋 Authorized 🔒 Open 🗹 1
Page 1 of 1 (1-2 of 2 items)	к < 1 > л

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

Table 13: 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.	



2.4.2 BIC Directory Maintenance

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

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

Figure 8: Create BIC Directory

Create BIC Directory				$\mu^{\mu'} \times$
New				
BIC Code *	Bank Name *	Customer Number	Customer Name Not Selected	
Bank Address 1	Bank Address 2	Bank Address 3	SWIFT Key	
Telex Key	SWIFT Key Arrangement	Relationship No Mail Keys	Sub Type Code	
BEI Indicator Not Selected	ADB Member			
Payment Message				
MT103+ Preferred Update During Upload	Blacklisted	CUG Member	Remit Member	
Multi-Customer Credit Transfer				
Multi-Customer Credit Transfer	Generate 102+	Maximum Size in Bytes		
Request for Transfer				
Generate MT101	Number of Transactions Per Page			
				Save Cancel

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

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

Table 14: Create BIC Directory – Field Description



Field	Description	
SWIFT Key Arrangement	Select the SWIFT key arrangement from the drop-down list.	
Relationship	Select one of the following options:	
	 No: If selected, indicates that the BIC Entity is not a customer of your bank 	
	 Mail: If selected, the BIC entity is not a recognized SWIFT entity but an address internal to your bank. In such cases, all correspondence directed to the particular BIC entity is sent as mail messages. 	
	• Keys: If selected, a SWIFT/Telex connectivity exists between your bank and the bank for which you are maintaining details. Subsequently, you must specify the SWIFT/Telex Key in the adjacent field.	
Sub-type Code	Search and select the required sub-type code.	
BEI Indicator	Based on the Sub-type Code selected, the information is auto- populated.	
ADB Member	Select the ADB member from the drop-down list.	
Payment Message	Specify the payment message details.	
MT103+ Preferred	By default, this is disabled. If selected, indicates the counter party whose BIC code details you are capturing capacitate to receive payment messages in the MT 103 format.	
Blacklisted	By default, this is disabled. If selected, indicates the BIC entity is blacklisted.	
CUG Member	By default, this is disabled. If selected, indicates the BIC entity is a closed user group member. Remit Member: By default, this is disabled. If selected, indicates the customer is registered with MT 103 extended remittance information multiple user group.	
Update During Upload	By default, this is disabled. If selected, updated the BIC directory during an upload.	
Multi-Customer Credit Transfer	Specify the Multi-Customer Credit Transfer details.	



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.



2.5 Branch EOD

You can invoke End of Day (EOD) to indicate that all the activities for the day are complete. Activities can be performed on the system only after the system date is changed to the next working day and authorized.

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

This section contains following subsections:

- 2.5.1 Branch EOD Summary
- 2.5.2 Branch EOD Maintenance
- 2.5.3 Branch EOD Invoke

2.5.1 Branch EOD Summary

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

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

 \rightarrow The **View EOD** screen is displayed.

	Figure	9:	View	EOD
--	--------	----	------	-----

View EOD				$_{\mu^{k'}}$ \times
९ c +				II =
Branch Code: E	Branch Code: : 018	Branch Code: : 000	Branch Code: : BC8	^
Maker: USERVAM1 OnceAuthorized: N Workflow Name: test	Maker: RAHUL01 OnceAuthorized: Y Workflow Name: endofdaywfforaut	Maker: RAHUL01 OnceAuthorized: Y Workflow Name: PNC-EOD-ASYNCT	Maker: MAYANK01 OnceAuthorized: Y Workflow Name: epic1	
🗋 Unauthorized 🔒 Open 🗹 1	🗋 Authorized 🔒 Open 🖉 1	🕒 Authorized 🔒 Open 🗹 5	🗋 Authorized 🔒 Open 🗹 1	
Branch Code: 003				
Maker: DEB01 OnceAuthorized: Y Workflow Name: endofdaywf				
🗋 Authorized 🔒 Open 🖉 1				
Page 1 of 1 (1-5 of 5 items)	К < 1 > Х			v

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

Table 15: View EOD – Field Description

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



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

2.5.2 Branch EOD Maintenance

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

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

Figure 10: Configure EOD

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

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

Table 16: 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.

2.5.3 Branch EOD Invoke

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

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

 \rightarrow The **Invoke EOD** screen is displayed.

Figure 15: Invoke EOD

Invoke EOD		
Branch Code * Q Start Retry Reset	Description	Current Branch Date
View End of Cycle Processes Refresh	Auto Refresh(15s)	
MS-CHICAFTE	EOD CHECKPENDINGMAINTENANCE	UNTEREST_STMT

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

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.

Table 17: Invoke EOD – Field Description



- 4. Click **Start** to invoke EOD for selected branch and Click **Refresh** to view the current status of batch.
- 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 18: 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.



2.6 Country Code

You can configure a country code.

This section contains following subsections:

- 2.6.1 Country Code Summary
- 2.6.2 Country Code Maintenance

2.6.1 Country Code Summary

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

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

→ The View Country Code screen is displayed.

Figure 12: View Country Code

iew Country Code				ير بر
२ с +				
Country Code: :	Country Code: : AX	Country Code: : AL	Country Code: : DZ	Country Code: : AS
Country Name: Afghani SO Numeric Code:	Country Name: ALAND ISLANDS ISO Numeric Code: AX	Country Name: ALBANIA ISO Numeric Code: AL	Country Name: ALGERIA ISO Numeric Code: DZ	Country Name: AMERICAN SAMOA ISO Numeric Code: AS
🗋 Authorized 🔒 Open 📝 1	🎦 Authorized 🔒 Open 🗹 1	🕒 Authorized 🔒 Open 🗹 1	🗋 Authorized 🔒 Open 🗹 1	🕒 Authorized 🔒 Open 📝 1
Country Code: :	Country Code: : AO	Country Code: :	Country Code:	Country Code: : AG
Country Name: ANDORRA SO Numeric Code: AD	Country Name: ANGOLA ISO Numeric Code: AO	Country Name: ANGUILLA ISO Numeric Code: Al	Country Name: ANTARCTICA ISO Numeric Code: AQ	Country Name: ANTIGUA AND BA ISO Numeric Code: AG
🎦 Authorized 🔒 Open 🗹 1	🗋 Authorized 🔒 Open 📝 1	🗋 Authorized 🔒 Open 🗹 1	🗋 Authorized 🔒 Open 🖉 1	🗋 Authorized 🔒 Open 📝 1

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

Table 19: 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.



2.6.2 Country Code Maintenance

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

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

Figure 13: Create Country Code

Create Country Code			,,* ×
New			
Country code *			
Country Name *	Alternate Country code *	Region Code	ISO Country code
ISD code	Limit Currency	Overall Limit *	Blacklist
EU Member	Generate 205	IBAN Check Required *	BIC Clearing Code
Intra fungean			
			Save Canoel

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

Table 20: Create Country Code – Field Description

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



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

4. Click Save. You can view the configured country code details in the Country Code Summary.



2.7 Currency Definition

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

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

This section contains following subsections:

- 2.7.1 Currency Definition Summary
- 2.7.2 Currency Definition Maintenance

2.7.1 Currency Definition Summary

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

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

→ The View Currency Definition screen is displayed.

Figure 14: View Currency Definition

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

Table 21: View Currency Definition – Field Description

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



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

2.7.2 Currency Definition Maintenance

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

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



Create Currency Definition						$_{\mu^{k'}}$ \times
New						
Currency Code *	Maintenance Country *					
	٩					
Currency Name	Alternate Currency Code		Currency Type		ISO Numerical Currency Code	
Currency Country *	Currency Decimals *		Currency Interest Method *		Currency Spot Days *	
Canency Country Q	Corrency Decimais		currency meetes weering		v A	
Foreign Exchange Netting Days	Settlement Message Days *		Position GL		Position Equivalent GL	
Currency Tolerance Limit	Index Base Currency		Commodity Code			
Contency roterance carrie	Contency					
Cut Off Time						
Cut Off Days	Cut Off Hour *		Cut Off Min *		CLS Currency	
× *	~ ^		~ ^		\bigcirc	
Generate 103+	Index Flag		Euro Conversion Required		New Cover Message Format Required	
\bigcirc			\bigcirc			
Validate Tag-50F						
Rounding						
Currency Round Rule *	Currency Round Unit					
Currency Format Mask						
Currency Format Mask						
> x00200000000 > x0020000 > x00200000 > x00200000 > x002000000 > x002000000 > x00200000 > x002000000 > x0020000000000						
0 ******						
Euro Type						
Currency Euro Type						
EURO Currency						
Out Currency Out Currency						
EUTO Closed						
Auto Exchange Rate						
	Debit Auto Exchange Rate Limit					
Currency Country Mapping						
Country code		Country Name		Currency Code		
No data to display.						
Page 1 (0 of 0 items) K < 1 > >						
						Save Cancel

Figure 15: Create Currency Definition

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

Table 22: Create Currency Definition – Field Description

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



Field	Description
Currency Decimals	Select the currency decimals.
Currency Interest Method	Select the currency interest method from the drop-down list.
Currency Spot Days	Select the number of spot working days applicable for the currency.
Foreign Exchange Netting Days	Select the number of days for the foreign exchange netting.
Settlement Message Days	Select the settlement message days.
Position GL	Search and select the required position GL.
Position Equivalent GL	Search and select the required position equivalent GL.
Currency Tolerance Limit	Specify the currency tolerance limit.
Index Base Currency	Search and select the required index base currency.
Commodity Code	By default, this is disabled. If selected, enables a commodity code.
Cut Off Time	Specify the cut off time details.
Cut Off Days	Select the cut off days for the payment transaction involving the currency.
Cut Off Hour	Select the hour of the day for the cut off.
Cut Off Min	Select the minute of the hour for the cut off.
CLS Currency	By default, this is disabled. If selected, allow customers of your bank to settle their FX deals via the CLS (Continuous Linked Settlements) Bank, you can identify the currency to be a CLS Currency. FX deals in the CLS currency is only eligible to be routed through the CLS bank.
Generate 103+	By default, this is disabled. If selected, generate outgoing MT 103 messages in the MT 103 + format.



Field	Description
Index Flag	By default, this is disabled. If selected, derives index rate of the currency.
Euro Conversion Required	By default, this is disabled. If selected, indicates the Euro conversion is required.
New Cover Message Format Required	By default, this is disabled. If selected, indicates a new cover message format is required.
Validate Tag-50F	By default, this is disabled. If selected, indicates validations must be performed for the 50F details captured for the ordering customer during contract input.
Rounding	Specify the Rounding details of currency.
Currency Round Rule	Select the currency round rule from the dropdown list.
Currency Round Unit	Select the currency round unit.
Currency Format Mask	Specify the currency format mask details.
Currency Format Mask	Select one of the currency format.
Euro Type	Specify the Euro Type details.
Currency Euro Type	Select one of the currency Euro type.
Auto Exchange Rate	Specify the Auto exchange rate details.
Credit Auto Exchange Rate Limit	Specify the credit automatic exchange rate limit.
Debit Auto Exchange Rate Limit	Specify the debit automatic exchange rate limit.
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.



2.8 Currency Exchange Rate

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

The spread applied for a currency pair varies with the transaction type, while the mid-rate usually remains constant. Consequently, different rates are applicable to different transaction types. For instance dollars in currency are purchased at a certain rate, while USD traveler's checks are bought at a different rate. You can define a rate type which you would like to associate with a transaction type example: CASH, TRAVCHKS, and so on.

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

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

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

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

This section contains following subsections:

- 2.8.1 Currency Exchange Rate Summary
- 2.8.2 Currency Exchange Rate Maintenance



2.8.1 Currency Exchange Rate Summary

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

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



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

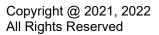
→ The View Currency Exchange Rate screen is displayed.

Figure 16: View Currency Exchange Rate

View Currency Exchange Rate	$_{\mu}^{\mu}$ \times
< c +	
Branch code: : 000	^
Currency1: GBP Currency2: USD	
Authorized 🔒 Open 🗹 1	~
Page 1 of 1 (1 - 1 of 1 items) K < 1 > \times	

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.

Table 23: View Currency Exchange Rate – Field Description





2.8.2 Currency Exchange Rate Maintenance

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

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

Figure 17: Create Currency Exchange Rate

Create Currency Exchange Rate							$_{\mu}e \times$
New							
Branch code *		Currency1 *		Currency2 *			
٩,			2				
Currency Rate							
							+ -
Rate Type	Buy Rate	Buy Spread	Mid Rate	Sale Spread	Sale Rate	Rate Date	
No data to display.							
Page 1 (0 of 0 items) K < 1 > >							
						_	T
						Save	Cancel

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

Table 24: Create Currency Exchange Rate – Field Description

Field	Description
Branch Code	Search and select the required branch code.
Currency 1	Search and select the required currency.
Currency 2	Search and select the required currency.
Currency Rule	Specify the currency rule details.
Rate Type	Select a rate type from the drop-down list.
Buy Rate	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
	The effective spread is calculated using any of the following two methods:



Field	Description				
	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.				
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.



2.9 Currency Holiday Master

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

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

This section contains following subsections:

- 2.9.1 Currency Holiday Master Summary
- 2.9.2 Currency Holiday Master Maintenance

2.9.1 Currency Holiday Master Summary

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

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

Figure 18: View Currency Holiday Master

View Currency Holiday Master	$\times \ ^{\mathrm{M}}$
Currency: : GBP	^
Weekly Holidays: Y Year: 2018	~
Page 1 of 1 (1 - 1 of 1 items) K < 1 > \varkappa	



Table 25: View Currency Holiday Ma	laster – 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.
Modification Number	Displays the number of modifications performed on the record.



2.9.2 Currency Holiday Master Maintenance

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

- 1. From Home screen, click Core Maintenance. Under Core Maintenance, click Currency Holiday Master.
- 2. Under Currency Holiday Master, click Create Currency Holiday Master.
 - \rightarrow The Create Currency Holiday Master screen is displayed.

Figure 19: Create Currency Holiday Master

Create	e Cur	rency	Hol	liday l	Maste	er																								$_{\mu }{}^{t^{\prime }} \times$
New																														
Curren	icy					0,		Y	'ear *								w	eekly H	Holida	iys										
	J	anua	ary	201	8			F	ebru	lary	201	18				Mar	ch	2018	3				Apr	ril 1	2018					
S	М	Τ	W	Т	F	S	S	М	Τ	W	Τ	F	S	S	М	Т	W	T	F	S	S	М	т	W	T	F	S			
	1	2	3	4	5	6					1	2	3					1	2	3	1	2	3	4	5	6	7			
7	8	9	10	11	12	13	4	5	6	7	8	9	10	4	5	6	7	8	9	10	8	9	10	11	12	13	14			
14	15	16	17	18	19	20	11	12	13	14	15	16	17	11	12	13	14	15	16	17	15	16	17	18	19	20	21			
21	22	23	24	25	26	27	18	19	20	21	22	23	24	18	19	20	21	22	23	24	22	23	24	25	26	27	28			
28	29	30	31				25	26	27	28				25	26	27	28	29	30	31	29	30								
		Ma	y Z	2018					Jun	e 2	2018					Jul	y 2	018					Augu	ust	201	8				
S	М	Т	W	Т	F	S	S	М	Т	W	Т	F	S	S	М	Т	W	Ť	F	S	S	М	Т	W	Т	F	S			
																												Save	(Cancel

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

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

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



2.10 Currency Pair Definition

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

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

This section contains following subsections:

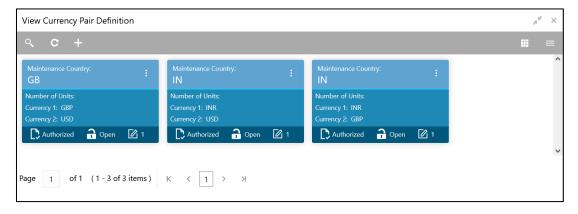
- 2.10.1 Currency Pair Definition Summary
- 2.10.2 Currency Pair Definition Maintenance

2.10.1 Currency Pair Definition Summary

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

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

Figure 20: View Currency Pair Definition





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

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

Table 27: View Currency Pair Definition – Field Description

2.10.2 Currency Pair Definition Maintenance

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

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

Figure 21: Create Currency Pair Definition

Create Currency Pair Definition				$\mu^{a'} \times$
New				
Currency 1	Currency 2		Maintenance Country	
Checkthrough Currency	Through Currency	Number of Units One Hundred Thousand	Points Multiplier	
Quotation *	Spread Definition *			
 Direct 	O Percentage			
Indirect	O Points			
			s	ave Cancel

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



Field	Description								
Currency 1-2	Search and select the required currency. A currency pair (specified as currency 1 and currency 2, in the currency pair) represents the two currencies for which you need to maintain exchange rates.								
	To specify the pair, choose from the list provided against Currency 1. Select the pair for which you want to maintain parameters. The pair must be selected according to the quotation method followed by the market, which can be direct or indirect. Exchange rates can be defined for currency 1 against currency 2 or currency 2 against currency 1.								
Maintenance Country	Search and select the required maintenance country.								
Check through Currency	By default, this is disabled. If selected, indicates a check through currency.								
Through Currency	Search and select the required through currency for which the exchange rate between the currencies must be calculated.								
Number of Units	Select one of the number of units.								
Points Multiplier	Select the points multiplier.								
Quotation	Select one of the required quotation:								
	 Direct method the exchange rate for the currency pair is quoted as follows: Buy rate = mid rate - buy spread 								
	Sell rate = mid rate + sell spread								
	 Ccy 1 = Rate x Ccy 2 Indirect method the exchange rate for the currency pair is quoted as follows: Buy rate = mid rate + buy spread 								
	Sell rate = mid rate - sell spread								
Spread Definition	Ccy 2 = Rate x Ccy 1 Select one spread definition. The effective spread can be calculated using any of the following two methods:								
	Percentage: Spread/100 x mid ratePoints: Spread x points multiplier								

Table 28: Create Currency Pair Definition – Field Description



Field	Description
	The method of spread definition that you specify applies to two instances:
	While maintaining exchange rates for the currency pairWhile maintaining customer spread for the currency pair

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

2.11 Currency Rate Type

You can configure a currency rate type.

This section contains following subsections:

- 2.11.1 Currency Rate Type Summary
- 2.11.2 Currency Rate Type Maintenance

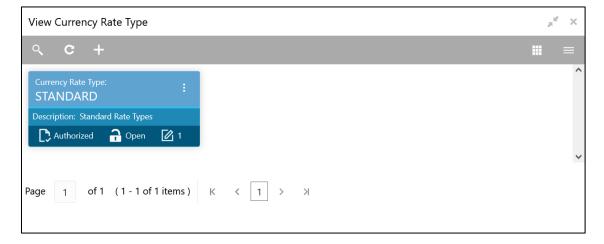
2.11.1 Currency Rate Type Summary

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

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

→ The View Currency Rate Type screen is displayed.

Figure 22: View Currency Rate Type





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.

Table 29: View Currency Rate Type – Field Description

2.11.2 Currency Rate Type Maintenance

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

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

→ The Create Currency Rate Type screen is displayed.

Figure 23: Create Currency Rate Type

Create Currency Rate Type		," ×
New		
Currency Rate Type *		
Current Data Tura Description		
Currency Rate Type Description		>
	_	
	Save	Cancel

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

Field	Description
Currency Rate Type	Specify the currency rate type.



Field	Description
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.



2.12 Customer Access Group

You can configure a customer access group.

This section contains following subsections:

- 2.12.1 Customer Access Group Summary
- 2.12.2 Customer Access Group Maintenance

2.12.1 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:

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

Figure 24: View Customer Access Group

View Customer Access Group					$_{\mu^{k}}$ \times
९ c					
Access Group: CHAIRMAN	Access Group: VIP	Access Group: : SHEIK	Access Group: : POLITICIAN	Access Group: : CEO :	^
Access Group Description:	Access Group Description:	Access Group Description:	Access Group Description:	Access Group Description:	
🂫 Authorized 🔒 Open	🌏 Authorized 🔒 Open	🔂 Authorized 🔒 Open	🂫 Authorized 🔒 Open	🄀 Authorized 🔒 Open	
Access Group: : CELEBRITY	Access Group: : VVIP				
Access Group Description:	Access Group Description:				
🂫 Authorized 🔒 Open	🔂 Authorized 🔒 Open				
Page 1 of 1 (1 - 7 of 7 items)	к < 1 > х				~

Table 31: 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.



2.12.2 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 25: Create Customer Access Group

Create Customer Access Group		🚺 Errors & Overrides 🛛 🔎 🗙
Access Group *	Access Group Description *	
		Save Cancel

3. On **Create Customer Access Group** 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 32: 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.



2.13 Customer Category

You can configure a customer category.

This section contains following subsections:

- 2.13.1 Customer Category Summary
- 2.13.2 Customer Category Maintenance

2.13.1 Customer Category Summary

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

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

→ The View Customer Category screen is displayed.

Figure 26: View Customer Category

View Customer Category	$_{\mathcal{H}^{k'}}\times$
८ c +	
Customer Category: LIQ321	^
Description: LIQ321	
Page 1 of 1 (1 - 1 of 1 items) K < 1 > >	

Table 33: 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.



2.13.2 Customer Category Maintenance

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

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

Figure 27: Create Customer Category

Create Customer Category			$_{\mu^{a'}}$ \times
New			
Customer Category *			
Culture Charles Development	2		
Customer Category Description	Populate Changes		
		Save	Cancel

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

 Table 34: 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.



2.14 ECA System

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

This section contains following subsections:

- 2.14.1 ECA System Summary
- 2.14.2 ECA System Maintenance

2.14.1 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 28: View ECA System

ECA System: : demo1	ECA System:	ECA System:	ECA System:
		ECA System:	ECA System:
	OBDDA	OBVAM .	DEMO
Description: test	Description: OBDDA	Description: OBVAM	Description: DEMO
🌔 Authorized 🔒 Open 📝 1	🌔 Authorized 🔒 Open 🗹 1	🗋 Unauthorized 🔒 Open 🖉 3	🗋 Authorized 🔒 Open 🗹 1
ECA System: OBPM	ECA System: FCUBS144	ECA System: : FCUBS	
Description: OBPM	Description: FCUBS144	Description: FCUBS	
🗋 Authorized 🔒 Open 🖉 1	🗋 Authorized 🔒 Open 🗹 1	🗋 Authorized 🔒 Open 🖉 1	
	CA Authorized a Open 1 1 ECA System: OBPM Description: OBPM	C Authorized Open I Image: Comparison of the c	Description: OBPM Open Description: FCUBS144 Description: FCUBS144 Description: FCUBS144

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

Table 35: 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.	



2.14.2 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 29: Create ECA System

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

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

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

Table 36: Create ECA System – Field Description

4. Click Save. You can view the configure ECA system details in the ECA System Summary.



2.15 External Bank Parameters

You can configure bank level parameters.

This section contains following subsections:

- 2.15.1 External Bank Parameters Summary
- 2.15.2 External Bank Parameters Maintenance

2.15.1 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 30: View External Bank Parameters

View External Bank Parameters	$\times 2^{2}$
	# =
Head Office branch: 000	^
Bank Code: 0000 Bank Name: Universal Bank C Authorized n Open 17	~
Page 1 of 1 (1-1 of 1 items) $K < 1 > H$	

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.



2.15.2 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 31: Create External Bank Parameters

Create External Bank Parameters		»" ×
New		
Bank Code *	Bank Name	
Head Office Branch	Branch Description	
٩	Not Selected	
No of Days to Forget Customer		
		Save Cancel

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

 Table 38: 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.



2.16 External Branch Parameters

You can configure branch level parameters.

This section contains following subsections:

- 2.16.1 External Branch Parameters Summary
- 2.16.2 External Branch Parameters Maintenance

2.16.1 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 32: View External Branch Parameters

२ с +				
Branch Code:	Branch Code: :	Branch Code:	Branch Code: :	Branch Code: :
XYZ	AAA	QR1	AT1	
ranch Name: Account creation	Branch Name: Automation01	Branch Name: Automation01	Branch Name: Automation01	Branch Name: Automation01
ocal Currency: INR	Local Currency: GBP	Local Currency: INR	Local Currency: GBP	Local Currency: GBP
ource Branch Code: XYZ	Source Branch Code: AAA	Source Branch Code: QR1	Source Branch Code: AT1	Source Branch Code: CCC
🔁 Authorized 🔒 Open 🖉 2	🗋 Authorized 🔒 Open 🖉 1	🗋 Authorized 🔒 Open 🖉 1	🗋 Authonized 🔒 Open 🗹 1	🗋 Authorized 🔒 Open 🖉 2
Branch Code: :	Branch Code:	Branch Code: :	Branch Code: :	Branch Code:
AT2	B17	BR8	BR6	BIN
Branch Name: Automation01	Branch Name: Automation01	Branch Name: Automation02	Branch Name: Automation02	Branch Name: Automation02
.ocal Currency: GBP	Local Currency: GBP	Local Currency: GBP	Local Currency: GBP	Local Currency: GBP
Source Branch Code: AT2	Source Branch Code: B17	Source Branch Code: BR8	Source Branch Code: BR6	Source Branch Code: BIN
🗅 Authorized 🔒 Open 🖉 1	🗋 Authorized 🔒 Open 📝 2	🗋 Authorized 🔒 Open 📝 2	🗋 Authorized 🔒 Open 🖉 3	🗋 Authorized 🔒 Open 📝 1

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

Table 39: 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.



Field	Description
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

2.16.2 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 33: Create External Branch Parameters

Create External Branch Parameters			, ² ×
New			
Branch Details			
Branch Code *	Branch Name *		ice System
Source Branch Code *		٩,	9
Source branch Cobe			
Branch Address			
Address Line 1	Address Line 2	Address Line 3	
Other Details		SWIFT Address	
Host Code *	Country Code	· · · · ·	
9	Not Selected	SWIFT Address * Default BIC	
Host Name	Walk-in Customer	No data to display.	
	Q		
Weekly Holiday 1	Weekly Holiday 2		
Ŧ	×		
Auto Authorization	Report DSN		
DSN Name			
		Page 1 (0 of 0 items) K < 1 > >	
			Save Cancel
			ourc conce

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

Field	Description
Branch Details	Specify the branch details.
Branch Code	Specify a branch code.

Table 40: Create External Branch Parameters – Field Description



Field	Description			
Branch Name	Specify a name for the branch.			
Local Currency	Search and select the required local currency.			
Source System	Search and select the required source system.			
Source Branch Code	Specify a source branch code.			
Branch Address	Specify the branch address details.			
Address Line 1-3	Specify the address details.			
Other Details	Specify the other details.			
Host Code	Search and select the required host code.			
Country Code	Based on the Host Code selected, the information is auto-populated.			
Host Name	Specify the name for the host.			
Walk-in Customer	Search and select the required walk-in customer.			
Weekly Holiday 1-2	Select a weekly holiday from the dropdown list.			
	 Note There are two days of weekly holiday depending on the geographical zone. Auto Authorization: By default, it is disabled. If selected, the record is automatically authorized. Report DSN: Specify the details of the report DSN. 			
Swift Address	Specify the swift address details.			
SWIFT Address	Search and select the required SWIFT address.			
Default BIC	If selected, indicates the selected SWIFT address as the default BIC.			

4. Click **Save**. You can view the configure branch parameter details in the External Branch Parameters Summary.



2.17 External Chart Account

You can configure an external chart.

This section contains following subsections:

- 2.17.1 External Chart Account Summary
- 2.17.2 External Chart Account Maintenance

2.17.1 External Chart Account Summary

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

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

Figure 34: View External Chart Account

			$_{\mu}^{\mu}$ \times
९ с +			
General Ledger Code: 173000009	General Ledger Code: : 100000089	General Ledger Code: : 173000004 :	^
	Source System: FCUBS Source System GL Code: 100000089	Source System: FCUBS Source System GL Code: 173000004	
🎦 Authorized 🔒 Open 🗹 1	📑 Authorized 🔒 Open 🗹 1	🕒 Authorized 🔒 Open 🗹 1	

Table 41: View External Chart Account – Field Description

Field	Description	
General Ledger Code	Displays the code of the general ledger.	
Source System	Displays the source system.	
Source System GL Code	Displays the GL code of the source system.	
Status	Displays the status of the record.	
Modification Number	Displays the number of modifications performed on the record.	



2.17.2 External Chart Account Maintenance

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

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

Figure 35: Create External Chart Account

Create External Chart Account				»4 ×
New				
General Ledger Code				
General Ledger Description	Source System	Source System GL Code	Category 👻	
Blocked				
				Save Cancel

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

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

Table 42: Create External Chart Account – Field Description

4. Click **Save**. You can view the configured external chart details in the External Chart Account Summary.



2.18 External Customer

You can configure the external customer details.

This section contains following subsections:

- 2.18.1 External Customer Summary
- 2.18.2 External Customer Maintenance

2.18.1 External Customer Summary

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

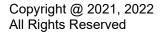
- 1. From Home screen, click Core Maintenance. Under Core Maintenance, click External Customer.
- 2. Under External Customer, click View External Customer.
 - → The View External Customer screen is displayed.

Figure 36: View External Customer

View External Customer					$\mu^{\ell} \rightarrow$
् C +					
Customer Name: Columbia Pic Inc	Customer Name: DAVOS	Customer Name: VAA123	Customer Name: : Keith	Customer Name: NTSFRO	
Source System: FCU8S Customer Type: 1 Customer Number: 002531 Source Customer ID: 002531	Source System: FCUBS Customer Type: 1 Customer Number: 003945 Source Customer ID: 003945	Source System: FCUBS Customer Type: 1 Customer Number: VAA123 Source Customer ID: VAA123	Source System: FCUBS Customer Type: I Customer Number: 10450 Source Customer ID: 10450	Source System: FCUBS Customer Type: 1 Customer Number: 003949 Source Customer ID: 003949	
🗋 Authorized 🔒 Open 🗹 1	🌔 Authorized 🔒 Open 🗹 1	🗋 Authorized 🔒 Open 🖉 1	🗋 Unauthorized 🔒 Open 🖉 1	🗋 Authorized 🔒 Open 📝 1	
^{Customer Name:} : vande	Customer Name: JK Tyres	Customer Name: VISTARA	Customer Name: HDFC BANK	Customer Name: Yi	
Source System: FCUBS Customer Type: I Customer Number: 56567 Source Customer ID: 56567	Source System: FCUBS Customer Type: 1 Customer Number: 7259690204 Source Customer ID: 7259690204	Source System: FCUBS Customer Type: C Customer Number: 123321 Source Customer ID: 123321	Source System: FCUBS Customer Type: 1 Customer Number: 038038 Source Customer ID: 038038	Source System: FCUBS Customer Type: 1 Customer Number: 1010103 Source Customer ID: 1010103	
🗋 Authorized 🔒 Open 🗹 1	🗋 Authorized 🔒 Open 🗹 1	🗋 Authorized 🔒 Open 🗹 1	🎦 Authorized 🔒 Open 🗹 1	🗅 Authorized 🔒 Open 🗹 1	
Page 1 of 5 (1 - 10 of 45 items)	K < 1 2 3 4 5 >	к			

Table 43: View External Customer – Fiel	d 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.		



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

2.18.2 External Customer Maintenance

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

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

Figure 37: Create External Customer

Create External Customer			, ¹⁶ ×
Customer Details Customer Number *	Customer Name *	Short Name	Customer Type Individual Corpora Bank
Source Customer ID *	Source System *	Customer Category	Relationship Manager ID
Access Group			
Address Address Line 1	Address Line 2	Address Line 3	Address Line 4
Country	Postal Code		
Other Details Deceased Walk-in Customer	Frozen Staff	Whereabouts Unknown Language *	Sanction Check Required Nationality
			Save Cancel

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

Table 44: Create External Customer – Field Description	Table 44	Create Externa	I Customer –	Field Descripti	on
--	----------	----------------	--------------	-----------------	----

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.

 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.

2.19 External Customer Account

You can configure the external customer account details.

This section contains following subsections:

- 2.19.1 External Customer Account Summary
- 2.19.2 External Customer Account Maintenance

2.19.1 External Customer Account Summary

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

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



Figure 38: View External Customer Account



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.

Table 45: View External Customer Account – Field Description

2.19.2 External Customer Account Maintenance

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

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

Figure 39: Create External Customer Account

Create External Customer Account			$_{\mu^{n'}}$ \times
New			
Account Details			
Customer Account Number *	Account Name *	Customer Number *	Customer Name Not Selected
Account Class	Account Currency *	Source Account Branch *	Not Selected Source Customer Account *
Nostro Account 👻	٩,	0,	
Account IBAN			
Address			
	Address Line 2	Address Line 3	Address Line 4
Country			
Other Details			
	No Debit	Blocked	Frozen
\bigcirc		\bigcirc	
Dormant	External Credit Approval Required	External Credit Approval System *	Host Code *
	0	9,	٩,
Account Open Date			
111 111			
			Save Cancel

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



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



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

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



2.20 External Customer Account Structured Address

You can configure the external customer account structured address details.

This section contains following subsections:

- 2.20.1 View External Customer Account Structured Address
- 2.20.2 Create External Customer Account Structured Address

2.20.1 View External Customer Account Structured Address

The summary screen provides a list of configured external customer account structured addresses. You can configure the external customer account structured address using the Create External Customer Account Structured Address. To process this screen, perform the following steps:

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

Figure 40: View External Customer Account Structured Address

View External Customer Account Structured Address	a ^r	^r ×
< с +		=
Customer Number: : HEL0046200046		^
Town Name: bangalore Country: AF		
Unauthorized 🔒 Open 🗹 1		~
Page 1 of 1 (1 - 1 of 1 items) $K < 1 > 3$		

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

Table 47: 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.



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

2.20.2 Create External Customer Account Structured Address

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

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

Figure 41: Create External Customer Account Structured Address

Create External Customer Account S	tructured Address		,	** ×
New				
Customer Account *	Account Name *			
Structured Address				
Department	Sub Department	Street Name	Building Number	
Building Name	Floor	Post Box	Room	
Post Code	Town Name	Town Location Name	District Name	
Country Sub Division	Country	٩		
				Save Cancel

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

Table 48: 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.



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

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



2.21 External Virtual Account Structured Address

You can view the external virtual account structured address details.

This section contains following subsections:

• 2.21.1 View External Virtual Account Structured Address

2.21.1 View External Virtual Account Structured Address

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

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

९ C				:	
Customer Number: 1000481	Customer Number: : 1000503	Customer Number: : 1000342	Customer Number: : 1000623	Customer Number: : 1000547	
Town Name: Yellowstone Country: YE	Town Name: Yellowstone Country: YE	Town Name: Yellowstone Country: YE	Town Name: town Country: GB	Town Name: Funky Town Country: GB	
🗋 Authorized 🔒 Open 🖉 1	🗋 Authorized 🔒 Closed 🖉 2	🗋 Authorized 🔒 Open 🗹 1	🗋 Authorized 🔒 Open 🗹 1	🗋 Authorized 🔒 Open 🗹 3	
Customer Number: 1000861	Customer Number: 1000888	Customer Number: : 1000422	Customer Number: : 1000426	Customer Number: : 1000662	
Town Name: Test	Town Name: town Country: GB	Town Name: Yellowstone Country: YE	Town Name: Town Country: YE	Town Name: Yellowstone Country: YE	
				🗋 Authorized 🔒 Open 📝 1	

Figure 42: View External Virtual Account Structured Address

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

Table 49: 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.



2.22 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:

- 2.22.1 Forgotten Customers Summary
- 2.22.2 Forget Customer Maintenance

2.22.1 Forgotten Customers Summary

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

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

→ The View Forgotten Customer screen is displayed.

Figure 43: View Forgotten Customers

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

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

Table 50: 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.	



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

2.22.2 Forget Customer Maintenance

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

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

 \rightarrow The Forget Customer screen is displayed.

Figure 44: Forget Customer

Forget Customer			$_{\mu^{k}}$ \times
New			
Forget Customer Process ID *	Forget Customer Process Type Cathomer Bitton. Bank Initiated		
	Customer Number	Process Status	
No data to display.			
Page 1 (0 of 0 items) K < 1	х х		
			Save Cancel

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

Table 51: 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.



Oracle Banking Common Core User Guide



2.23 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:

- 2.23.1 Host Code Summary
- 2.23.2 Host Code Maintenance

2.23.1 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.

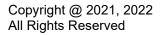
→ The View Host Code screen is displayed.

Figure 45: View Host Code

View Host Code			,,, ^{,,,} ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
९ с +			
Default Branch Code: : 000	Default Branch Code:	Default Branch Code: :	
Processing Time Zone: GMT+5.30 Host Code: H1023 Country Code: GB	Processing Time Zone: GMT+5.30 Host Code: HOST1 Country Code: GB	Processing Time Zone: GMT+5.30 Host Code: HOST2 Country Code: GB	
🗋 Authorized 🔒 Open 🖄 1	🗋 Authorized 🔒 Open 🗹 1	[🕻 Authorized 🔒 Open 📝 1	
Page 1 of 1 (1-3 of 3 items)	к < 1 > >		

Table 52:	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.





2.23.2 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 46: Create Host Code

Create Host Code			" [#] ×
New			
Host Code *	Description *		
Country Code *	Processing Time Zone *	Default Branch Code *	
			Save Concel

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

Table 53: 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.



2.24 Language Code

You can configure a language code.

This section contains following subsections:

- 2.24.1 Language Code Summary
- 2.24.2 Language Code Maintenance

2.24.1 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 47: View Language Code

View Language Code					$\times ~^{\mathrm{st}}$
९ c +					■ =
Language ISO Code: : ARB :	Language ISO Code: : CHS	Language ISO Code: ENG	Language ISO Code: : ESP	Language ISO Code: : FRC :	^
Language Code: ARB Language Name: Arabic	Language Code: CHS Language Name: Chinese (Simplified)	Language Code: ENG Language Name: English	Language Code: ESP Language Name: Spanish	Language Code: FRC Language Name: French	
🌔 Authorized 🔒 Open 🗹 1	🗋 Authorized 🔒 Open 🗹 1	🎦 Authorized 🔒 Open 🖉 1	🗋 Authorized 🔒 Open 📝 1	🎦 Authorized 🔒 Open 🗹 1	
Language ISO Code: : CHT	Language ISO Code: : POR :				
Language Code: CHT Language Name: Traditional Chinese	Language Code: POR Language Name: Portugal				
🗋 Authorized 🔒 Open 🗹 1	🗋 Authorized 🔒 Open 🗹 1				
					~
Page 1 of 1 (1 - 7 of 7 items)	К < 1 > Э				

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.

Table 54: View Language Code – Field Description



2.24.2 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 48: Create Language Code

Create Language Code			$_{\mu}^{\mu'}$ \times
New			
Language Code *			
Language Name	Display Direction	Language 50 Code	
			Save Cancel

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

 Table 55: 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.



2.25 Local Holiday

You can configure a local holiday.

This section contains following subsections:

- 2.25.1 Local Holiday Summary
- 2.25.2 Local Holidays Maintenance

2.25.1 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 49: View Local Holiday

View Local Holiday			$_{\mu}^{\mu}$ \times
९ c +			
Branch Code: : HEL	Branch Code: : 018	Branch Code: 000	^
Unexpected Holiday: N Year: 2018	Unexpected Holiday: N Year: 2018	Unexpected Holiday: N Year: 2018	
🗋 Unauthorized 🔒 Open 🗹 3	🎦 Authorized 🔒 Open 🗹 1	🗋 Authorized 🔒 Open 🗹 1	
Page 1 of 1 (1 - 3 of 3 items)	К < 1 > Э		v

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

Table 56: 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.



2.25.2 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 50: Create Local Holiday

Branch	Code	2				٩		Y	ear *								We	eekly H	Holida	ays		U		cted H	lolida	/5		
	J	anua	ary	201	8			F	ebru	ary	201	18				Mar	ch	2018	3				Apr	il 2	2018			
S	М	Т	W	т	F	S	S	Μ	Т	W	Т	E	S	S	М	T	W	Т	F	S	S	Μ	т	W	Т	E	S	
	1	2	3	4	5	6					1	2	3					1	2	3	1	2	3	4	5	6	7	
7	8	9	10	11	12	13	4	5	6	7	8	9	10	4	5	6	7	8	9	10	8	9	10	11	12	13	14	
14	15	16	17	18	19	20	11	12	13	14	15	16	17	11	12	13	14	15	16	17	15	16	17	18	19	20	21	
21	22	23	24	25	26	27	18	19	20	21	22	23	24	18	19	20	21	22	23	24	22	23	24	25	26	27	28	
28	29	30	31				25	26	27	28				25	26	27	28	29	30	31	29	30						
		Ma	y Z	2018					Jun	e 2	2018					Jul	y 2	018					Augu	ust	201	3		
S	М	т	W	Т	F	S	S	М	Ť	W	Т	F	S	S	М	Т	W	Ť	F	S	S	М	Т	W	Т	F	S	

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

Table 57: 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.



2.26 Media

You can configure media information.

This section contains following subsections:

- 2.26.1 Media Summary
- 2.26.2 Media Maintenance

2.26.1 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 51: View Media

View Media								2 ¹	κ X
९ с +									
Media: TEST_REJECT :	_{Media:} TestcaseOne	1	Media: TESTAPPROVAL	£	^{Media:} Test		÷		^
	Media No:	2 1	Media No: Dunauthorized	2 1	Media No: 1	🔒 Open	2 1		
Page 1 of 1 (1 - 4 of 4 items)	к < 1 > я								>

Table 58:	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.



2.26.2 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.
 - \rightarrow The **Create Media** screen is displayed.

Figure 52: Create Media

Create Media			×
New			
Media Code *			
Media Description *			
Media Number	Message Terminator	Message Suffix	Stop Process
			0
Padding Required	TW Required Status	Media Priority *	No Of Character
A 1 +			
Media Code *	Compatible Media *		
	\bigcirc		
			Save Cano

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 59: 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.



2.27 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:

- 2.27.1 Create MCA Linkage
- 2.27.2 View MCA Linkage

2.27.1 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 53: Create MCA Linkage

Create MCA Linkage		μ^{t} ×
Multi-Currency Account No *		
Sub Accounts		
Currency Code	Account Number	Primary
		Yes
Page 1 of 1 (1 of 1 items) K < 1 > 3		
		Save Cancel

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

Table 60: Create MCA Linka	ge – Field Description
----------------------------	------------------------

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



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

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

2.27.2 View MCA Linkage

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

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

Figure 54: View MCA Linkage

View MCA Linkage		$_{\mu}$ $^{ m sr}$ \times
< c +		# =
Multi-Currency Account Number: MCACC1	Multi-Currency Account Number: : CUST000001	^
Customer Number: STRCUSTGROUP	Customer Number: WYNCUST41	
🗋 Unauthorized 🔒 Open 🛛 3	🎦 Authorized 🔒 Open 📝 1	
Page 1 of 1 (1 - 2 of 2 items)	к < 1 > >	

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.



2.28 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:

- 2.28.1 View Process Code
- 2.28.2 Process Code Maintenance

2.28.1 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 55: View Process Code

Process Code: :	Process Code: :	Process Code:	Process Code: :	Process Code:
NEWLOANPR	CURORG	viay	EERS232312	SMBLN1
Process Description: NEW LOAN PROCE	Process Description: Current Account O	Process Description: asa	Process Description: test	Process Description: SMB Loan Originat
Process Code: NEWLOANPR	Process Code: CURORG	Process Code: viay	Process Code: EERS232312	Process Code: SMBLN1
🗋 Authorized 🔒 Open 🗹 1	🗋 Authorized 🔒 Open 🖉 1	🗋 Unauthorized 🔒 Open 🗹 1	🗋 Authorized 🔒 Open 🗹 1	🗋 Authorized 🔒 Open 🖉 1
Process Code: :	Process Code:	Process Code:	Process Code: :	Process Code: :
CPOB	TPHASE	PERSONAL	PAMD	CCC2
Process Description: Corporate Party O	Process Description: Testing Phase	Process Description: Personal Loan Orig	Process Description: PartyAmendment	Process Description: Credit Card Process
Process Code: CPOB	Process Code: TPHASE	Process Code: PERSONAL	Process Code: PAMD	Process Code: CCC2
🗋 Authorized 🔒 Open 📝 1	🗋 Authorized 🔒 Open 🔟 4	🗋 Authorized 🔒 Open 🖉 2	🗋 Authorized 🔒 Open 🗹 1	🗋 Authorized 🔒 Open 🖉 1

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

Table 62: 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.			



2.28.2 Process Code Maintenance

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

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

Figure	56:	Process	Code
--------	-----	---------	------

Stage Description	Seq Order	Source Stage
Application Entry	1	~
Application Enrichment	•	
Underwriting	3	
Assessment	4	
	6	
Offer Issue		
Customer Offer Accept/Reject	7	
Handoff Retry	10	
		Add Row Remove Row
Phase Description	Seq Order	Stage ID
Application Verification		RPM_RLNORG_APPEN ×
		RPM_RLNORG_ENRCH ×
		RPM_RLNORG_ASSMT ×
		RPM_RLNORG_UNDWT ×
Application Approval		RPM_RLNORG_OFFISSUE ×
		RPM_RLNORG_OFFACCEPT ×
		RLNORG_HANDOFF_RETRY ×
		Add Row Remove Row
	Sign Denription Advectorio Informent Advectorio Informent Unamenting Cutoren Offer Accessifiedd Offer Incut Cutoren Offer Accessifiedd Denription Denripti	Apriator bery and a final field of the former of the forme

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

Field	Description				
Process Code	Specify the code.				
Process Name	Specify the process name.				
Process Version	Specify the process version.				
Domain	Specify the process domain.				
Stage ID	Specify the unique stage ID.				
Stage Description	Specify the stage description.				
Seq Order	Displays the sequential order of the stage in the entire process.				
Source Stage	Select it to indicate if the specific stage is the source stage of the process.				

Table 63: Process Code – Field Description



Field	Description
Add Row	Click Add Row to add a row and to capture the stage details that needs to be mapped to the process code.
Delete Row	Click Delete Row to delete 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.



2.29 System Dates

You can view the system date details.

This section contains following subsections:

• 2.29.1 System Dates Summary

2.29.1 System Dates Summary

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

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

→ The View System Dates screen is displayed.

Figure 57: View System Dates

View System Dates				$_{\mu}^{\mu}$ \times
० с				# =
Branch Code: : B12	Branch Code: : EXT	Branch Code: : CCC	Branch Code: : TST :	Branch Code: TMU
Today's Date: 2018-04-07	Today's Date: 2018-04-09	Today's Date: 2018-04-07	Today's Date: 2018-04-09	Today's Date: 2018-04-09
🗋 Authorized 🔒 Open 🖉 1	🗅 Authorized 🔒 Open 🗹 1	🗋 Authorized 🔒 Open 🗹 1	🗋 Authorized 🔒 Open 🖉 1	🗋 Authorized 🔒 Open 🗹 1
Branch Code: : 001	Branch Code: AT3	Branch Code: AT5	Branch Code: : JUL	Branch Code: 003
Today's Date: 2018-04-07	Today's Date: 2018-04-07	Today's Date: 2018-04-07	Today's Date: 2018-04-09	Today's Date: 2018-04-08
🗋 Authorized 🔒 Open 🖉 1	🗋 Authorized 🔒 Open 🗹 1	🗋 Authorized 🔒 Open 🗹 1	🗋 Authorized 🔒 Open 🖉 1	🗋 Authorized 🔒 Open 🖉 1
Page 1 of 4 (1 - 10 of 36 items)	К < 1 2 3 4 > Э			

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

Table 64: 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	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



2.30 Transaction Code

You can configure the transaction code.

This section contains following subsections:

- 2.30.1 Transaction Code Summary
- 2.30.2 Transaction Code Maintenance

2.30.1 Transaction Code Summary

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

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

→ The View Transaction Code screen is displayed.

Figure 58: View Transaction Code

View Transaction Code				د ^م اير
< c +				ii =
Source System: : OBVAM	Source System: : FCUBS	Source System: : FCUBS	Source System: : DEMO	Source System: FCUBS
Transaction Code: Mah Source Transaction Code:	Transaction Code: 121 Source Transaction Code:	Transaction Code: 123 Source Transaction Code:	Transaction Code: wev Source Transaction Code:	Transaction Code: DEB Source Transaction Code:
🗋 Authorized 🔒 Open 🖉 1	🗋 Authorized 🔒 Open 🗹 1	🗋 Authorized 🔒 Open 🗹 1	🗋 Unauthorized 🔒 Open 📝 1	🗋 Authorized 🔒 Open 📝 1
Source System: : FCUBS				
Transaction Code: NDA Source Transaction Code:	Transaction Code: CRE Source Transaction Code:	Transaction Code: CHG Source Transaction Code:	Transaction Code: VAL Source Transaction Code:	Transaction Code: 000 Source Transaction Code:
🗋 Authorized 🔒 Open 🗹 1	🗋 Authorized 🔒 Open 📝 1	🗋 Authorized 🔒 Open 🗹 1	🌔 Authorized 🔒 Open 🗹 1	🗋 Authorized 🔒 Open 🗹 1
Page 1 of 2 (1 - 10 of 15 items)	К (1 2))			

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

Table 65: 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.



2.30.2 Transaction Code Maintenance

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

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

Figure 59: Create Transaction Code

Create Transaction Code			$\boldsymbol{x}_{\mathrm{g}}$	×
New				
Transaction Code *	Description			
Source System	Source Transaction Code			
Q.				
		Save	Cance	el

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

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

Table 66: Create Transaction Code – Field Description

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



2.31 Upload Source

You can upload a source code.

This section contains following subsections:

- 2.31.1 Upload Source Summary
- 2.31.2 Upload Source Maintenance

2.31.1 Upload Source Summary

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

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

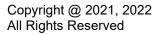
→ The View Upload Source screen is displayed.

Figure 60: View Upload Source

View Upload Source							$_{\mu^{k}}$ \times
< c +							
Upload Source: BPM	Upload Source: OBDX	1	Upload Source: FCUBS	<u>)</u> ;	Upload Source: OBVAM	:	^
Source Description: Oracle Banking Pa	Source Description: Oracl	e Banking Liq	Source Description:	FCUBS	Source Descriptio	n: Oracle Banking Vir	
🎦 Authorized 🔒 Open 🗹 1	Authorized	Open 🗹 1	Authorized	🎧 Open 🛛 🖉 1	Authorized	🔒 Open 🛛 🖉 1	
Upload Source: : OBEDX							
Source Description: OBEDX							
🗋 Authorized 🔒 Open 🗹 1							
Page 1 of 1 (1 - 5 of 5 items)	к < 1 > >	1					~

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.	

Table 67: View Upload Source – Field Description





2.31.2 Upload Source Maintenance

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

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

Figure 61: Create Upload Source

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

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

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

Table 68: Create Upload Source – Field Description

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



2.32 Upload Source Preference

You can configure upload source preference.

This section contains following subsections:

- 2.32.1 Upload Source Preference Summary
- 2.32.2 Upload Source Preference Maintenance

2.32.1 Upload Source Preference Summary

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

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

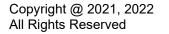
Figure 62: View Upload Source Preference

View Upload Source Preference	$_{\mu}$ $^{\mu}$ \times
< c +	
Source Code: OBPM	^
Status: A Purge Days: D Unauthorized 🔒 Open 🖉 2	
Page 1 of 1 (1 - 1 of 1 items)	к < 1 > >

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

Table 69: 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.	





2.32.2 Upload Source Preference Maintenance

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

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

Figure 63: Create Upload Source Preference

Create Upload Source Preference				$_{\mu^{k'}}$ \times
New				
Source code				
Error Handling				
On Error Reject	On Override Ignore Override Reject	On Repairable Exception Reject Move To Queue	On Queue Exception Reject Move To Queue	
Post Upload				
Status Authorize Put On Hold Unauthorize	Purge Days	Allow Deferred Processing	Allow EOD with Deferred	
Deletion Allowed	Reverse Allowed	Ammend Allowed	Proceed with EOD	
			Save	Cancel

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

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

Table 70: Create Upload Source Preference – Field Description



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

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



2.33 Pricing Source System

You can configure the pricing source system.

This section contains following subsections:

- 2.33.1 Pricing Source System Summary
- 2.33.2 Pricing Source System Maintenance

2.33.1 Pricing Source System Summary

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

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

Figure 64: View Pricing Source System

View Pricing Source System		$_{\mu}^{st}$ \times
९ ट		
Pricing Source System:	Pricing Source System:	
Pricing Source Description:	Pricing Source Description:	
🂫 Authorized 🔒 Open	🔂 Authorized 🔒 Open	
Page 1 of 1 (1 - 2 of 2 items)	к < 1 > א	

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.

Table 71: View Pricing Source System – Field Description



2.33.2 Pricing Source System Maintenance

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

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

Figure 65: Create Pricing Source System

Create Pricing Source System		and the second s
Pricing Source System *	Pricing Source Description	
		Save Cancel

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

 Table 72: 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.



2.34 Integrating Bureau Integration Service with Oracle Banking Routing Hub

2.34.1 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. From Home screen, click Core Maintenance. Under Core Maintenance, click Routing Hub.
- 2. Under Routing Hub, click Service Consumers.

 \rightarrow The **Service Consumers** screen is displayed.

Figure 66: Service Consumers

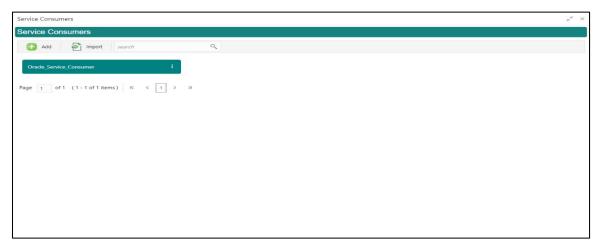
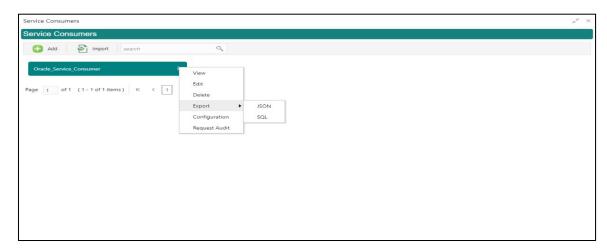


Figure 67: Oracle Banking Routing Hub Configuration





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

Table 73: Oracle Banking Routing Hub Configuration

This section contains the following subsections:

- 2.34.1.1 Add
- 2.34.1.2 Environment Variables
- 2.34.1.3 Import
- 2.34.1.4 View
- 2.34.1.5 Edit
- 2.34.1.6 Delete
- 2.34.1.7 JSON Export
- 2.34.1.8 SQL Export



2.34.1.1 Add

You can create service consumer manually.

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

Figure 68: Add

Service Consumers					* × ×
Service Consumers					
No items to display. Page T of 0 (1-0 of 0 items) K X	Name * 255. Name * allowed. Oracle_Service_Consumed allowed. ✓ Environment Variables Add マ			ters. up to a maximum of red at beginning.No space	
	Group * Select Actions No data to display.	Name	Value		

Table 74: Add

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



2.34.1.2 Environment Variables

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

Below is the syntax for accessing environment variables:

\$env.Environment_Group_Name.Environment_Variable_Name
such as: \$env.COMMON.BRANCH_CODE

Figure 69: Environment Variables

Service Consumers		* ×
Service Consumers		
Service Consumers Add Import search No items to display. Page of0 (1 - 0 of 0 items) K < > >	Add Service Consumer × Name * Oracle_Service_Consumer If Environment Variables Image: Service_Consumer Image: Service_Consumer	
	Save	

Figure 70: Environment Variables

Service Consumers				2 ⁴ ×
Service Consumers				
Add import search No items to display.	Add Service Consume	er	×	
Page 1 of 0 (1-0 of 0 items) K < > ≯	NL Add Environment Group		Enter 0 or more characters, up to a maxi 255. No numeric value allowed at beginning: allowed.	
	Actions No data to display.	Name	Value	



Service Consumers			* ×
Service Consumers			
Add import search	Add Service Consumer	×	
Раде <u>1</u> of 0 (1-0 of 0 items) К < > Э	Add Environment Variable	Enter 0 or more characters, up to a maximum of 255. No numeric value allowed at beginning.No space allowed.	
		OK Save	

Figure 71: Environment Variables

Table 75: 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: S	ervice Consume	r -> Environme	ent Variables	-> 3 dot icon (c	pperation 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



2.34.1.3 Import

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

On Service Consumers screen, click Import.

Figure 72: Import

Service Consumers			,* ×
Service Consumers			
🕒 Add	Q		
No items to display.	Import Service Consumer	×	
Page 1 of 0 (1 - 0 of 0 items) K ← > ×	File * Oracle_Service_Consumer_Consumer_is Select Name * Oracle_Service_Consumer Service Providers Name External_Product_Processor 1.0	Extract	
		ітрот	

Table 76: Import

Compone nt Name	Compone nt Type	ls Mandator y	Data type	Validation	Conditio n	Comment s
File	File picker	Yes		Allows only to select one file	Accepts only JSON file	Pops up file selection dialog box
Extract	Button	Yes				Extracts Consumer Name and Service Provider list from JSON file and displays it in the respective elements.
Name	Text Box	Yes	Alphanumer ic with special characters	 Name cannot be blank 	Editable	Unique



Compone nt Name	Compone nt Type	ls Mandator y	Data type	Validation	Conditio n	Comment s
				 Specify 0 or more character s, up to a maximum of 255 No numeric value at beginning and no space allowed 		
Service Provider	Collapsible Header & Content					Displays the list of service providers that are present in JSON file
Import	Button					Imports Service Consumer

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

- Implementation Host and Port
- Implementation Authentication Password



2.34.1.4 View

You 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	73:	View
--------	-----	------

Service Consumer View Service Consumer View Service Consumer Fage 1 of 1 (1-1 of 1 kems) K < 1 > > Rage 1 of 1 (1-1 of 1 kems) K < 1 > > Rage 1 of 1 (1-1 of 1 kems) K < 1 > > Rage 1 of 1 (1-1 of 1 kems) K < 1 > > Rage 1 of 1 (1-1 of 1 kems) K < 1 > > Rage 1 of 1 (1-1 of 1 kems) K < 1 > > Rage 1 of 1 (1-1 of 1 kems) K < 1 > > Rage 1 of 1 (1-1 of 1 kems) K < 1 > > Rage 1 of 1 (1-1 of 1 kems) K < 1 > > Rage 1 of 1 (1-1 of 1 kems) K < 1 > > Rage 1 of 1 (1-1 of 1 kems) K < 1 > > Rage 1 of 1 (1-1 of 1 kems) K < 1 > > Rage 1 of 1 (1-1 of 1 kems) K < 1 > > Rage 1 of 1 (1-1 of 1 kems) K < 1 > > Rage 1 of 1 (1-1 of 1 kems) K < 1 > > Rage 1 of 1 (1-1 of 1 kems) K < 1 > > Rage 1 of 1 (1-1 of 1 kems) K < 1 > > Rage 1 of 1 (1-1 of 1 kems) K < 1 > > Rage 1 of 1 (1-1 of 1 kems) K < 1 > > Rage 1 of 1 (1-1 of 1 kems) K < 1 > > Rage 1 of 1 (1-1 of 1 kems) K < 1 > > Rage 1 of 1 (1-1 of 1 kems) K < 1 > > Rage 1 of 1 (1-1 of 1 kems) K < 1 > > Rage 1 of 1 (1-1 of 1 kems) K < 1 > > Rage 1 of 1 (1-1 of 1 kems) K < 1 > > Rage 1 of 1 (1-1 of 1 kems) K < 1 > > Rage 1 of 1 (1-1 of 1 kems) K < 1 > > Rage 1 of 1 (1-1 of 1 kems) K < 1 > > Rage 1 of 1 (1-1 of 1 kems) K < 1 > > Rage 1 of 1 (1-1 of 1 kems) K < 1 > > Rage 1 of 1 (1-1 of 1 kems) K < 1 > > Rage 1 of 1 (1-1 of 1 kems) K < 1 > > Rage 1 of 1 (1-1 of 1 kems) K < 1 > > Rage 1 of 1 (1-1 of 1 kems) K < 1 > > Rage 1 of 1 (1-1 of 1 kems) K < 1 > > Rage 1 of 1 (1-1 of 1 kems) K < 1 > > Rage 1 of 1 (1-1 of 1 kems) K < 1 > > Rage 1 of 1 (1-1 of 1 kems) K < 1 > > Rage 1 of 1 (1-1 of 1 kems) K < 1 > > Rage 1 of 1 (1-1 of 1 kems) K < 1 > > Rage 1 of 1 (1-1 of 1 kems) K < 1 > > Rage 1 of 1 (1-1 of 1 kems) K < 1 > > Rage 1 of 1 (1-1 of 1 kems) K < 1 > > Rage 1 of 1 (1-1 of 1 kems) K < 1 > > Rage 1 of 1 (1-1 of 1 kems) K < 1 > > Rage 1 of 1 (1-1 of 1 kems) K < 1 > > Rage 1 of 1 (1-1 of 1 kems) K < 1 > > Rage 1 of 1 (1-1 of 1 kems) K < 1 > > Rage 1 of 1 (1-1 of 1 kems) K < 1 > > Rage 1 of 1 (1-1 of 1 kems) K < 1 > > Rage 1 of 1 (1-1 of 1 kems) K <	Service Consumers					د ۲ _م
Add Import search Oracle_Service_Consumer Oracle_Service_Consumer Add Import Page 1 of 1 (1-1 of 1 items) K < 1 > x Group COMMON Common Value	Service Consumers	View Service	e Consumer		×	
Page 1 of 1 (1-1 of 1 items) K < 1 > Xi I > Xi I = Environment Variables Group COMMON IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII			rvice_Consumer			
COMMON T Actions Name Value			nt Variables			
	Page 1 of 1 (1-1 of 1 items) K < 1 > >			-		
E BRANCH_CODE Sheaders("branchCode"(0)						
			BRANCH_CODE	Sheaders["branchCode"[0]		

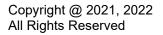
2.34.1.5 Edit

You can modify the consumer details.

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

Figure 74: Edit

Service Consumers			
Service Consumers			
🕒 Add	Edit Service Consumer	×	
Oracle_Service_Consumer	I Name *		
Page 1 of 1 (1 - 1 of 1 items) K < 1	Oracle_Service_Consumer → ×		
	Add 👻		
	Group * select]	
	Actions Name	Value	
	No data to display.		
		Save	





2.34.1.6 Delete

You can delete the consumer.

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

Figure 75: Delete

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

2.34.1.7 JSON Export

You 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 76: JSON Export

Service Consumers		*" ×
Service Consumers		
Add import ara	Export Service Consumer × Name Oracle_Service Consumer Service Providers External_Product_Processor 1.0 Export	

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

JSON Export feature will export below data:

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



• All default implementation routes

2.34.1.8 SQL Export

You 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 77: SQL Export

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



2.34.2 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. From 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 is displayed.

Figure 78: Service Providers

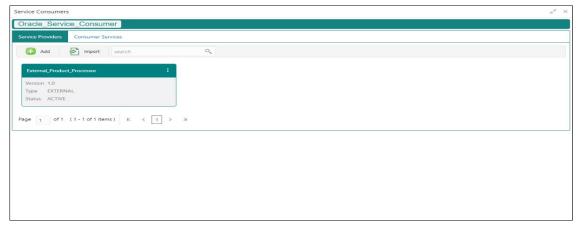


Figure 79: Service Providers

Service Consumers		"* ×
Oracle_Service_Consumer		
Service Providers Consumer Services		
🔂 Add 🛃 Import search	٩	
External_Product_Processor	View	
Version 1.0 Type EXTERNAL	Edit	
Status ACTIVE	Delete	
	Export	
Page 1 of 1 (1 - 1 of 1 items) K < 1	Request Audit	

Table 77: Service Providers

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



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

This section contains the following subsections:

- 2.34.2.1 Add
- 2.34.2.2 Headers
- 2.34.2.3 Service
- 2.34.2.4 WSDL
- 2.34.2.5 SWAGGER
- 2.34.2.6 Import
- 2.34.2.7 View
- 2.34.2.8 Edit
- 2.34.2.9 Delete
- 2.34.2.10 Export



2.34.2.1 Add

You can create service provider manually.

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

Figure 80: Add

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

Table 78: 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



2.34.2.2 Headers

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

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

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

Figure 81: Headers

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

Figure 82: Headers

Service Consumers					,, ^w
Oracle_Service_Consumer	Add Service Provider	Add Service Provider			
Service Providers Consumer Services Add Import search	Product Name * External_Product_Processor		Type * EXTERNAL		
External_Product_Processor	Version * 1.0				
Version 1.0 Type EXTERNAL Status ACTIVE	✓ Headers Add				
Page 1 of 1 (1 - 1 of 1 items) K < 1	Actions	Name appld	Value CMNCORE		
	▶ s Delete			Save	

Table 79: Headers

Compone nt Name	Compone nt Type	ls Mandator y	Data type	Validation	Conditio n	Comment s
Add	Button					Pops up add dialog
Navigation: S	Navigation: Service Providers -> Headers -> 3 dot icon (operation menu)					
Edit	menu option					Pops up edit dialog
Delete	menu option					Deletes header



Compone nt Name	Compone nt Type	ls Mandator y	Data type	Validation	Conditio n	Comment s
Navigation: S	ervice 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



2.34.2.3 Service

Figure 83: Service

Service Consumers		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Oracle_Service_Consumer		
Service Providers Consumer Services		
Add E Import search	Add Service Provider ×	
External_Product_Processor	► Headers	
External_Product_Processor Version 1.0 Type EXTERNAL	▲ Service	
Status ACTIVE	Type URL WSDL 	
Page 1 of 1 (1-1 of 1 items) K <	Service Operation	
	ElValidLimitService (ElValidLimitServiceSEI) QueryValidLimitIO	
	Save	

Table 80: Service

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

2.34.2.4 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.



2.34.2.5 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.

2.34.2.6 Import

You can create a service provider by importing the JSON file. On **Service Providers** screen, click **Import**.

Figure 84: Import

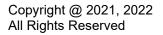
Service Consumers	,** ×
Oracle_Service_Consumer	
Service Providers Consumer Services	
🔂 Add 🛛 🎦 Import search 🔍	
External_Product_Processor :	
Version 1.0 Type EXTERNAL	Import Service Provider ×
Status ACTIVE	File *
	Select
Page 1 of 1 (1 - 1 of 1 items) K < 1 > >	
	Import

Table 81: Import

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

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

- Implementation Host and Port
- Implementation Authentication Password





2.34.2.7 View

You 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.**

Service Consumers				× **
Oracle_Service_Consumer				
Service Providers Consumer Services				
Add P Import search	View Service Provider		e ×	-
External_Product_Processor	Product Name	Type		1
Version 1.0 Type EXTERNAL Status ACTIVE	External_Product_Processor Version 1.0	EXTERNAL Active On		
Page 1 of 1 (1 - 1 of 1 items) K <	Headers			
	▲ Service			
	Service FIValidI imitService (FIValidI imitService	SED	Operation OuepValidLimitIO	

Figure 85: View Service Provider

2.34.2.8 Edit

You can modify the provider details.

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

Figure 86: Edit

Service Consumers				, ² ×
Oracle_Service_Consumer				
Service Providers Consumer Services				
🔁 Add 🛛 🔂 Import search	Edit Service Provider		×	
External_Product_Processor	Product Name *	Type *		
Version 1.0	External_Product_Processor	EXTERNAL	*	
Type EXTERNAL Status ACTIVE	Version *	Active		
	1.0			
Page 1 of 1 (1-1 of 1 items) K <	Headers			
4	⊿ Service			
	Type URL			
			Save	

2.34.2.9 Delete

You can delete the provider.

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

Figure 87: Delete

Service Consumers			, ² ×
Oracle_Service_Consumer			
Service Providers Consumer Services			
Add Import search	٩		
External_Product_Processor			
Version 1.0 Type EXTERNAL Status ACTIVE		×	
	Do you want to delete the record?	1	
Page 1 of 1 (1-1 of 1 items) K < 1		Confirm Cancel	

2.34.2.10 Export

You can export the provider configuration as JSON file.

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

Figure 88: Export

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

NOTE: Below data is not be exported:

- Implementation Host
- Implementation Port
- Implementation Authentication Password

The above data needs to be configured manually after importing the configuration file. Same has been mentioned in Import section



2.34.3 Experian Configuration

2.34.3.1 Experian Fetch Credit Report

Figure 89: Experian Fetch Credit Report

View Transformation	¢ ×
Template Type VELOCITY	Template { #set(\$dictionary = {}) #if(\$body.dictionary.size()>0) #foreach(\$dictionary!tem in \$body.dictionary) #if(\$!dictionary!tem.isFactDictionary) # +to-
Response Transformation	
Template Type	Template
VELOCITY	{ #define(\$htmlContent)#if(\$body.creditProfile.get(0).consumerIdentity.dob) <div style="padding:5px:marging:10px">Date of Birth <div style="text-align:center;display: inline-block"> (text-align:center;display: inline-block"></div></div
Mocking required?	Mock Template
Off	

Figure 90: Experian Fetch Credit Report

View Transformation	×
Product Processor	Implementation
EXPERIAN 14.4	EXPERIAN_Default
Transformation	
TRANSFORMATION1	
▶ Headers	
Product Processor	
Service CreditReports -/v2/credit-report	
Request Transformation	
Template Type	Template
VELOCITY	{ #set(\$dictionary = {}) #if(\$body.dictionary && \$body.dictionary.size()>0)



2.34.3.2 Experian Sandbox

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

Service Cor	Service Consumers			
CBSToE	Bureau			
Service Pro	viders Consumer Services			
🕂 Add	i 🛐 Import search 🔍			
Actions	Name	Description		
:	Fetch_Credit_Report	To fetch credit report		
:	fetchCreditReportDev	This service is used to fetch the credit report of a person		
:	fetchCreditReport	Fetch Credit Report Response DTO changes		
:	fetchCreditReportBackup1	This service is used to fetch the credit report of a person		
:	authorize	Fetch the jwt authorization taken from the Credit Bureau		
Page 1	of 1 (1 - 5 of 5 items) K < 1 > X			

Figure 91: Experian Sandbox

2.34.4 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.

2.34.4.1 Equifax Fetch Credit Report



Figure 92: Equifax Fetch Credit Report

View Transformation		₿×
P Faurralams		
▶ QueryParams		
# Request Transformation		
Template Type VELOCITY	Template { #Set(Sbody = Ssnapshot.get(0).body) *consumers"; { "name"; [[]	- 'Į
# Response Transformation		
Template Type VELOCITY	Template #set (Sobj = ") ## dummy object #set (Sint_dass = Sobjclass.forName(java.lang.Number)) #set (Sobol_class = Sobjclass.forName(java.lang.Boelean)) #set (String.class = Sobjclass.forName(java.lang.String)) #set (String.class = Sobjclass.forName(java.lang.String))	1
Transformation Routing		
Add an import search Q		

lctio	Name	Status	Product Processor	Implementation	Service
1 .:	EXP_AUTH_TRANS	ACTIVE	EXPERIAN 14.4	EXPERIAN_Default	experianAuth - /oauth2/v1/token
1	EXP_TRANSFORMATION	ACTIVE	EXPERIAN 14.4	EXPERIAN_Default	CreditReports - /v2/credit-report
1	EXP_Extended_View_Attributes_and_Score_Doc	ACTIVE	EXPERIAN 14.4	EXPERIAN_Default	ExtendedViewAttributesAndScore - /v1/extended-view-attributes-and-score
LS .	EXP_DOCUMENT	ACTIVE	EXPERIAN 14.4	EXPERIAN_DOC	premierprofilespdf - /v1/reports/premierprofiles/pdf
I.	EQUIFAX_AUTH_TRANS	ACTIVE	EQUIFAX 14.4	EQUIFAX_Default	equifaxAuth = /v2/oauth/token
t -	EQUIFAX, TRANS	ACTIVE	EQUIFAX 14.4	EQUIFAX_Default	requestConsumerCreditReport - /reports/credit-report
1	EXP_Extended_View_Attributes_and_Score	ACTIVE	EXPERIAN 14.4	EXPERIAN Default	ExtendedViewAttributesAndScore - /v1/extended-view-attributes-and-score

2.34.4.2 Equifax Sandbox

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

Figure 93: Equifax Sandbox

CBSToBureau Service Provide	rs > E0	DUIFAX 14.4				
Implementation	, I	/iew Implementation		C ×		
Add Di import search		Name EQUIFAX_Default	Default			
Actio Name EQUIFAX_Default	Descri	Description Default Implementation			sandbox.equifax.com	Port 0
lage 1 of 1 (1-1 of 1 Rems) K c	1 >	Scheme Host https api.sandbox.equifa	Port sx.com 0			
		▶ Authentication			1	
		▶ Headers				

2.34.5 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.

2.34.5.1 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.

2.34.5.2 Environment Configuration

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

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

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

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

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

-Dflyway.domain.placeHolders.dmsServiceUsrname=<CONTENT_SERVER_USERNAME>

-Dflyway.domain.placeHolders.dmsServicePwd=<CONTENT_SERVER_PASSWORD>

-Dflyway.domain.placeHolders.cmc-document-services.schema=<SCHEMA_NAME>

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

-Dflyway.domain.placeHolders.cmc-document-services.username=<SCHEMA_USERNAME>

-Dflyway.domain.placeHolders.cmc-document-services.password=<SCHEMA_PASSWORD>

-Dflyway.domain.placeHolders.cmc-document-services.domain.jndi=jdbc/CMNCORE

-Dflyway.domain.placeHolders.cmc-document-services.jndi=jdbc/CMNCORE

-Dflyway.domain.placeHolders.cmc-document-services.db.jndi=jdbc/CMNCORE

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

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



2.34.6 Troubleshooting

2.34.6.1 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.

2.34.6.2 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

2.34.6.3 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]



2.35 Bureau Integration Service

2.35.1 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:

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



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

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

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

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

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

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

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

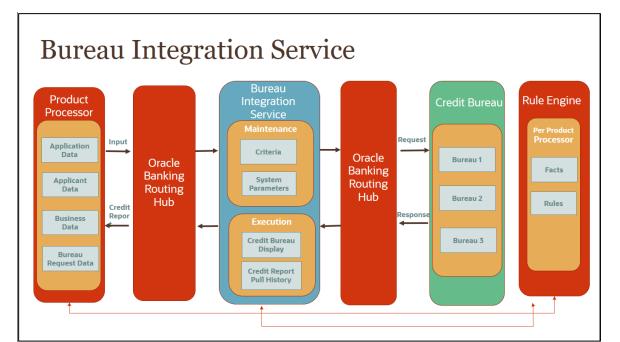


Figure 94: Bureau Integration Service



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.
- 3. Select the required record and click **Approve**.
- 4. The records are displayed in a widget. If you have modified the lookup, criteria twice, system displays two widgets with respective modification number along with the modified details.
- 5. Specify remarks for approving the record in the **Remarks** field.
- 6. Click **Confirm** and authorize the record. The record is authorized successfully.



2.36 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:

• 2.36.1 View Credit Bureau Report

2.36.1 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.

To view a credit bureau report:

- 1. From Home screen, click Credit Bureau. Under Credit Bureau, click Operations.
- 2. Under Operations, click Credit Bureau Display.

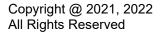
→ The Credit Bureau Display screen is displayed.

Figure 95 : Credit Bureau Display

Credit Bureau Display	$_{\mu}^{st}$ \times
Search Criteria	
Credit Bureau Display	
Filter	
Select •	
	Reset Search

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

Field	Description	
Filter	Select the required option based on which you can search for the credit bureau reports from the drop-down list.	
	The options are:	
	External Reference Number	
	Inquiry ID	





Field	Description		
	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 select the filter option as Inquiry Date and value as Date Range .		
To Date	Select the end date of the period during which the report was generated.		
	This field appears if you have selected the filter option as Inquiry Date and value as Date Range.		

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

Figure 96 : Credit Bureau Display – Report History

Credit Bureau Display	× ×
Search Criteria	
Filter Value	
Inquiry Date * Today *	
	Reset Search
Report History	
Inquiry Date External Reference Number	Product Processor
K Internet Insection	
F	
₩ E1.02523 0.08247096221	0101
F	252
	0500
K Salati	172
K (14.1341 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.00	66.0
 Financial 	05.0
No sector to the test of t	
na n	080
N B ANDER DE LA COLLEGA	OFLO

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

Table 83: Credit Bureau Display – Field Description

Field	Description
Inquiry Date	Displays the inquiry date of the request from product processor to bureau integration service.



Field	Description
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 97 : Credit Bureau Display - View List of Report

Credit Bureau Display							, ⁴
Search Criteria							
Filter	Value						
Inquiry Date *	Today 💌						
							Reset Search
Report History							
Inquiry Date	External Reference	Number				Product Processor	
0							
		Report ID		Report Date			View
EXPERIAN		CBS Inquiry ID		Product	creditificatio		
		Report ID		Report Date			View
EXPERIAN		CBS Inquiry ID	9199ae71-6fc5-4c9f-a16c-99c(60442289	Product	créditivitorite		
► 01-012121							
 Internet (1997) 							
F							
• • • • • • • • • • • • • • • • • • •							
▶ s a toot						OFLO	
•							
 Least 						OFLO	
 A second s	10012-10012-1					OFLO	

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

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



Field	Description	
The Following fields appear if you click 🕨		
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.

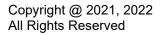
Figure 98 : Credit Bureau Report

Credit Bureau Display		2 ¹⁶ ×
Bureau Report		
Bureau Name EXPERIAN	Report ID 0000000000	
Product Name CREDIT_PROFILE	Report Date 10021	
	Date of Birth DOB Name firstName middleName surname type Genty Baney Social Security Number Number SSN Indicator	
	Risk Model	
	Evaluation Model Indicator Score Score Factors	
		Close

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

Table 85: Create Burea	a Report – Field Description
-------------------------------	------------------------------

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





2.37 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:

- 2.37.1 Create Lookup
- 2.37.2 View Lookup

2.37.1 Create Lookup

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

To create lookup:

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

→ The Create Lookup screen is displayed.

Figure 99 : Create Lookup

Create	e Lookup					$_{\mu^{t\ell}} \; \times \;$
New						
Create						
Basic	Details					
Looku	p Type *		Description *			
Looku	p Codes					
-						
	Lookup Code	Description		Sort Order	Dependent Identifier	Enable
No d	ata to display.					
					Save	Cancel

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

The fields which are marked with asterisk, are mandatory. For more information on fields, refer the field description table.

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.

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

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



2.37.2 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**.

To view created lookup:

- 1. From the Home screen, click Core Maintenance. Under Core Maintenance, click Credit Bureau.
- 2. Under Credit Bureau, click Maintenance. Under Maintenance, click Lookup.
- 3. Under Lookup, click View Lookup.

→ The View Lookup screen is displayed.

Figure 100 : View Lookup

View Lookup				$_{\mu}^{\mu}$ \times
< с				
Lookup Type: CustomerSegment	Lookup Type: BWCExecStage	Lookup Type: Industry	Lookup Type: Module	
Description: Customer Segment	Description: Borrowing Capacit	Description: Industry	Description: module	
🎦 Authorized 🔒 Open 🗹 1	🔁 Authorized 🔒 Open 🗹 1	🎦 Authorized 🔒 Open 🗹 1	🗋 Authorized 🔒 Open 🗹 1	
Page 3 of 3 (21 - 24 of 24 items) К < 1 2 3 > Я			

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

Table 87 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.	

- 4. Click Search.
- 5. Specify the search criteria to fetch the required lookup.

→ The View Lookup Search screen displays.

Figure 101 : View Lookup - Search

View Lookup			, ^{ye} ×
Lookup Type	Authorization Status	Record Status	
Search Reset			



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

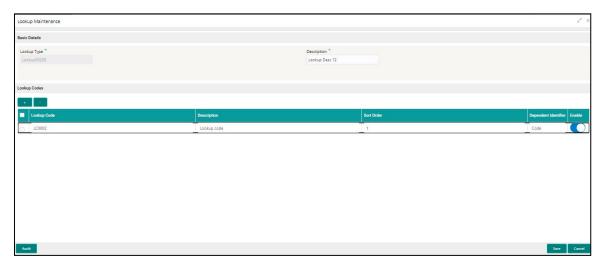
Field	Description
Lookup Type	Displays the lookup type.
Authorization Status	Select the authorization status of the lookup.
	The options are:
	Authorized
	Rejected
	Unauthorized
Record Status	Select the record status of the lookup.
	The options are:
	• Open
	Closed

Table 88: View Lookup – Search Option – Field Description

- 6. Click Search.
- 7. Click three-dots icon to unlock, delete, authorize or view the created criteria code
- 8. Click Unlock icon to modify the following fields. The fields are displayed in the **Lookup Maintenance** screen.
 - Lookup Code
 - Description
 - Sort Order
 - Dependent Identifier
 - Enable



Figure 102 : Lookup Maintenance – Modify



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

 Table 89: 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.

- 9. Click **Save** to update the modified fields.
- 10. Click **View** icon to view the created lookup code. The fields are displayed in **Lookup Maintenance** screen.



Figure 103 : Lookup Maintenance – View

Lookup Maintenance					,, ² ×
Basic Details					
Lookup70pe " Lookup00208		Description * Lookup Desc 12			
Lookup Codes					
Lookup Code	Description		Sort Order	Dependent Identifier	Enable
LC0002	Lookup code		1	Code	
Audit					

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

Table 90: Looku	p 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.



2.38 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:

- 2.38.1 Create Bureau Criteria
- 2.38.2 View Bureau Criteria

2.38.1 Create Bureau Criteria

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

To create bureau criteria:

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

Figure 104 : Create Bureau Criteria

Create Bureau Crite	eria						1
New							
Create Burea	au Criteria						
Basic Details							
Criteria Code *		Descrip	ion *		Product Processor * Select	Ŧ	
	Rule ID	Description	Priority	Call All Bureau		Enable	
No data to disp		occupion .	Thursy			LINDIC	
NO Gata to disp	Jidy.						
							Save Cancel

4. Specify the fields on **Create Bureau Criteria** screen. The fields, which are marked with asterisk, are mandatory.

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



Oracle Banking Common Core User Guide



 Table 91: 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 ap the parent rule.	opear if Call All Bureau toggle status is not clicked. To add the child rule to
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.

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

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



2.38.2 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**.

To view created criteria:

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

→ The View Bureau Criteria screen is displayed.

Figure 105 : View Bureau Criteria

View Bureau Criteria			μ^{al} ×
ч с +			
Collente Code: OBX Critteria Description: Children for OBX h Product Processor: OBX Product Pro	5 Criteria Description: dESC	Criteria Code: ASDASD :: CR Description: ADA Product Processor: OFLO Product Processor: OFLO Datasthorized @ Open	
Page 1 of 1 (1-5 of 5 Items) K < 1	k ć		
······································			

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

Table 92: 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.

- 4. Click Search icon.
- 5. Specify the search criteria to fetch the required criteria.
- 6. Click Search.

The View Criteria - Search screen displays.

Figure 106 : View Criteria – Search Option

View Criteria				2 ²⁶ ×
Criteria Code	Description	Product Processor	Authorization Status	
	CONTRACTOR bared comeries (1) (a)	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
Record Status				
· · · · · · · · · · · · · · · · · · ·				
Search Reset				

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

Table 93: View Criteria – 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

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



Figure 107 : Bureau Criteria Maintenance- Modify

Basic Details Citeria Gode * Description * Product Processor * DES Citeria Citeria for OBR Product Processor OBS *	Criteria Definition Criteria Definition Criteria Definition	Bureau Criteria Maintenance						,* ×
OBX Cirkeia DOBX Product Processor OBX *	OSX Citeria Citeria for OSX Product Processor Criteria Definition	Basic Details						
	Role ID Description Priority Cat All Bureau Enable Actions > PRD_TYPE_MULTEA_Q. Multiple Fact Rule 2 No						×	
	Rule ID Description Priority Call Al Bureau Enable Actions > PRD_TIPE_MULTIFA_Q. Multiple Fact Rule 2 No <							
			Des	scription	Priority	Call All Bureau	Enable Ad	tions
	OBS_RULE_EFX Q OBS_RULE_EFX Q OBS_RULE_FX Q OBS_RULE_FX Q OBS_RULE_FX Q OBS_RULE_F			ultiple Fact Rule	2			
- > OBS,RULE,EPX Q O OBS,RULe,CBS Equifax 1		OBS_RULE_EFX Q	0 oi	BS_Rule_CBS_Equifax	1	Yes No		
		Audit						Save Cancel

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

Table 94: 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.

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



Figure 108 : Bureau Criteria Maintenance - View

	Description * Criteria for OBX Product Processor		uct Processor *		
			uct Processor *		
	Citizena for OBX Product Processor	OBX			
	Description	Priority	Call All Bureau	Enable	Actions
PE_MULTIFACT	Multiple Fact Rule	2	No No	0	
JLE_EFX 0	OBS_Rule_CBS_Equifax	1	Yes No	0	
		PE_MULTIFACT O Multiple Fact Rule	RE_MULTIFACT Multiple Fact Rule 2	E_MULTIFACT Multiple Fact Rule 2 Multiple Fact Rule	E_MULTIFACT 0 Multiple Fact Rule 2 See 10

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

Table 95: 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.



2.39 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:

- 2.39.1 Create System Parameter
- 2.39.2 View System Parameter

2.39.1 Create System Parameter

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

To create system parameter:

- 1. From Home screen, click Core Maintenance. Under Core Maintenance, click Credit Bureau.
- 2. Under Credit Bureau, click Maintenance. Under Maintenance, click System Parameter.
- 3. Under System Parameter, click Create System Parameter
 - → The Create System Parameter screen is displayed.

Figure 109 : Create System Parameter

Create System Paramete	ər		, ¹⁶ >
Basic Details			
Parameter Code * Select	Y	Parameter Description *	
Product Processor *	×	Value *	
			Save Cancel

4. Specify the fields on **Create System Parameter** screen. The fields, which are marked with asterisk, are mandatory.

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

Table 96: System Parameter – Field Description.

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

6. Click Save to save the details.

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

2.39.2 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**.

To view created parameter:

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

→ The View System Parameter screen is displayed.

Figure 110 : View System Parameter



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

Table 97: View System Parameter – Field Description.

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

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

Figure 111 : View System Parameter –Search Option

w System Parameter			0 ••
ameter Code	Authorization Status	Record Status	
	· ·	v	
arch Reset			

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

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

- 7. Click three-dots icon to unlock, delete, authorize or view the created parameter code.
- 8. Click **Unlock** icon to modify the following fields. The fields are displayed in the **System Parameter Maintenance** screen.
 - Product Processor
 - Value



Figure 112 : System Parameter Maintenance - Modify

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

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

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

 Table 99: System Parameter Maintenance – Modify – Field Description.

10. Click Save to update the modified fields.

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

Figure 113 : System Parameter Maintenance - View

System Parameter Maintenance		$_{\mu^{\ell'}}$ \times
Basic Details		
Parameter Code * Maximum_Report_Age_For_New_Call Product Processor * OFLO	Parameter Description * Maximum Report Age to call Experian Value * 4	
Audit		

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

Table 100: 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.



2.40 Integrating Decision Service with Oracle Banking Routing Hub

2.40.1 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. From Home screen, click Core Maintenance. Under Core Maintenance, click Routing Hub.
- 2. Under Routing Hub, click Service Consumers.

 \rightarrow The Service Consumers screen is displayed.

Figure 114: Service Consumers

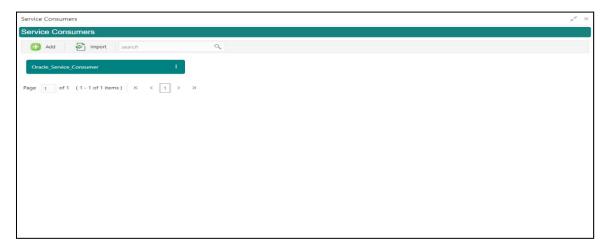


Figure 115: Oracle Banking Routing Hub Configuration

Add Import search Yiew Edit Delete Export Export JSON Configuration SSL
Oracle_Service_Consumer ge 1 of 1 (1 - 1 of 1 items) K < 1 Edit Delete Export ▶ JSON
ge 1 of 1 (1-1 of 1 items) K < 1 Delete Export JSON
ge 1 of 1 (1-1 of 1 items) K < 1 Delete Export JSON
ge 1 of 1 (1-1 of 1 items) K < 1 Delete Export I JSON
Export JSON
Configuration SQL
Request Audit

Table 101: 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

2.40.1.1 Add

You can create Service Consumer manually.

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

Service Consumers			a ^w ×
Service Consumers			
Add import search No items to display: Page T of 0 (1-0 of 0 items) K < > >	Add Service Consumer Name * Oracle_Service_Consumef # Environment Variables # Environment Variables # Add # Group * Select Actions Name No data to display.	Enter 0 or more characters. 255. No numeric value allowed allowed. Value Save	lat beginning.No space



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

Table 102: Add

2.40.1.1 Environment Variables

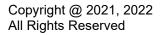
You can define the group of variables that can be accessed throughout the specific consumer's configuration.

Below is the syntax for accessing environment variables:

\$env.Environment_Group_Name.Environment_Variable_Name
such as : \$env.COMMON.BRANCH_CODE

Figure 117: Environment Variables

Service Consumers					"* ×
Service Consumers					
Add Import search No items to display. Import search Page of 0 (1-0 of 0 items) K < > > >	Add Service Consur Name * Environment Variable Group Variable Actions No data to display.	Value	X		



Service Consumers				2 ⁴ ×
Service Consumers				
Add import search No items to display.	Add Service Consume	r	×	
Page 1 of 0 (1-0 of 0 items) K < > 3	Add Environment Group		Enter 0 or more characters, u 255. No numeric value allowed at allowed.	
	Gr C Actions	Name	OK	
	No data to display.		Save	

Figure 118: Environment Variables



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

Table 103: Environment Variables

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



Delete	menu option / icon				Deletes group / variable			
Environment	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			



2.40.1.2 Import

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

On Service Providers $\mbox{screen},\mbox{click}$ Import.

Figure 120: Import

Service Consumers		1	×
Service Consumers			
Add 🔁 Import search	Q		
No items to display.	Import Service Consumer	×	
Page 1 of 0 (1 - 0 of 0 items) K < > >I	File * Oracle_Service_Consumer_Consumer;is Select Name * Oracle_Service_Consumer Service Providers Name External_Product_Processor 1.0	Etract	
		Import	

Table 104: Import

Compone nt Name	Compone nt Type	ls Mandator y	Data type	Validation	Conditio n	Comment s
File	File picker	Yes		Allows only to select one file	Accepts only JSON file	Pops up file selection dialog box
Extract	Button	Yes				Extracts Consumer Name and Service Provider list from JSON file and displays it in the respective elements.
Name	Text Box	Yes	Alphanumer ic with special characters	 Name cannot be blank Specify 0 or more character s, up to a maximum of 255 	Editable	Unique



Compone nt Name	Compone nt Type	ls Mandator y	Data type	Validation	Conditio n	Comment s
				 No numeric value at beginning and no space allowed 		
Service Provider	Collapsible Header & Content					Displays the list of service providers that are present in JSON file
Import	Button					Imports Service Consumer

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

- Implementation Host and Port
- Implementation Authentication Password



2.40.1.3 View

You 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 121: View

rvice Consumers			
ervice Consumers	View Service Consumer	Cer ×	
Add import search	Name Oracle_Service_Consumer		
	Environment Variables		
e 1 of 1 (1 - 1 of 1 items) K < 1 >	Group COMMON	•	
	Actions Name	Value	
	BRANCH_CODE	Sheaders["branchCode"[0]	

2.40.1.4 Edit

You can modify the consumer details.

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

Figure	122:	Edit
--------	------	------

Service Consumers					$\mu^{a^{-}}$ ×
Service Consumers					
🔁 Add 🛃 Import ora	Edit Service Consu	imer		×	
Oracle_Service_Consumer i Page 1 of1 (1-1 of1 items) K (1 > X)	Name * Oracle_Service_Con	sumer			
	Add T Group *				
	Actions No data to display.	Name	Value		
				Save	



2.40.1.5 Delete

You can delete the consumer.

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

Figure 123: Delete

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

2.40.1.6 JSON Export

You 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 124: JSON Export

Service Consumers		, ⁴ ×
Service Consumers		
🔁 Add 🖗 Import ora	Q	
Oracle_Service_Consumer i	Export Service Consumer ×	
Page 1 of1 (1-1of1Rems) K < 1 >	Name Oracle_Service_Consumer Service Providers Name Esternal_Product_Processor 1.0 Espont	

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

2.40.1.7 SQL Export

You 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 125: SQL Export

	,* ×
Service Consumers	
🛃 Add 🛛 🔁 Import ora 🔍	
Oracle_Service_Consumer	
Page 1 of 1 (1-1 of 1 items) K < 1 > X CONFIRMATION Do you want to export Note: Sensitive data su	

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

2.40.2 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. From Home screen, click Core Maintenance. Under Core Maintenance, click Routing Hub.
- Under Routing Hub, click Service Consumers. Under Service Consumers, click < Specific Service Consumer>.

→ The Service Providers screen is displayed.

Service Consumers Service Consumer Service Provides Consumer Services Import search Q External_Product_Processor Import Status ActTIVE Page Import K Import Import

Figure 126: Service Providers



Figure 127: Service Providers

Service Consumers		$_{\mu }^{\nu } \times$
Oracle_Service_Consumer		
Service Providers Consumer Services		
🔂 Add	٩,	
External_Product_Processor	View	
Version 1.0	Edit	
Type EXTERNAL Status ACTIVE	Delete	
	Export	
Page 1 of 1 (1 - 1 of 1 items) K < 1	Request Audit	

Table 105: Service Providers

Component Name	Component Type	Condition	Comments
<service Consumer></service 	Button		Navigates back to Service Consumers
Add	Button		Pops up add dialog
Import	Button		Pops up import dialog
Search	Combo Box One		Provides search functionality with case insensitive (Service Provider Name)
Navigation: Se	rvice Providers	s -> 3 dot icor	n (operation menu)
View	menu option	Non- editable	Pops up view dialog
Edit	menu option		Pops up edit dialog
Delete	menu option		
Export	menu option		Exports in JSON
Request Audit	menu option		Pops up request audit log



2.40.2.1 Add

You can create service provider manually.

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

Figure 128: Add

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

Table 106: 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



2.40.2.2 Headers

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

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

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

Figure 129: Headers

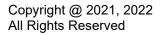
Service Consumers			** ×
Oracle_Service_Consumer	Add Service Provider	×	
Service Providers Consumer Services	Product Name Add Header	Enter 0 or more characters, up to a maximum of 255. No numeric value allowed at beginning.No space allowed.	
External_Product_Processor Version 1.0 Spe EXTERNAL Status ACTIVE Page 1 of1 1-1 of 1 items	Version 1.0 I Headers Add Actions No data to d E Service	ox	
		Save	

Figure 130: Headers

Service Consumers					"* ×
Oracle_Service_Consumer	Add Service Provider	Add Service Provider			
Service Providers Consumer Services Add Import search	Product Name * External_Product_Processor		Type * EXTERNAL	v	
External_Product_Processor	Version * 1.0		Active		
Version 1.0 Type EXTERNAL Status ACTIVE	leaders → Add				
Page 1 of 1 (1-1 of 1 items) K < 1	Actions Edit	Name appld	Value		
	► S Delete	_		Save	

Table 107: Headers

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





Component Name	Component Type	ls Mandatory	Data type	Validation	Comments
Navigation: Se	rvice 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



2.40.2.3 Service

Figure 131: Service

Service Consumers			$\times \gamma_{\kappa}$
Oracle_Service_Consumer			
Service Providers Consumer Services			
Add Timport search	Add Service Provider	×	
External_Product_Processor	▶ Headers		
Version 1.0 Type EXTERNAL Status ACTIVE	Service URL URL WSDL V	(ElVancion of Therewold The Import	
Page 1 of 1 (1-1 of 1 items) K <	Service ElValidLimitService (ElValidLimitServiceSEI)	Operation QueryValidLimitIO Save	

Table 108: Service

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

2.40.2.4 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.



2.40.2.5 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.

2.40.2.6 Import

You can create a service provider by importing the JSON file. On **Service Providers** screen, click **Import.**

Figure 132: Import

Service Consumers	* ×
Oracle_Service_Consumer	
Service Providers Consumer Services	
Add 🛃 import search 🔍	
External_Product_Processor i	
Version 1.0 Type EXTERNAL Status ACTIVE Page 1 of 1 (1-1 of 1 items) K < 1 > X	Import Service Provider × File * Select Import

Table 109: Import

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

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

- Implementation Host and Port
- Implementation Authentication Password



2.40.2.7 View

You 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.**

Service Consumers					, ² ×	
Oracle_Service_Consumer						
Service Providers Consumer Services						
Add Simport search	View Service Provider			♂ ×		
External_Product_Processor	Product Name	Type				
Version 1.0 Type EXTERNAL	External_Product_Processor Version	EXTERNAL				
Status ACTIVE	1.0 ► Headers	On		_		
Page 1 of 1 (1 - 1 of 1 items) K <	Service			_		
	Service		Operation			
	FIValidI imitService (FIValidI imitService)	SFN	Ouen/ValidI imitIO			

Figure 133: Oracle Banking Routing Hub Configuration

2.40.2.8 Edit

You can modify the provider details.

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

Figure '	134:	Edit
----------	------	------

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



2.40.2.9 Delete

You can delete the provider.

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

Figure 135: Delete

Service Consumers			2 ¹⁶ - 2
Oracle_Service_Consumer			
Service Providers Consumer Services			
Add 🔂 import search	٩		
External_Product_Processor :			
Version 1.0			
Type EXTERNAL Status ACTIVE	CONFIRMATION	×	
Status Pictific	Do you want to delete the record?	1	
Page of 1 (1 - 1 of 1 items) K <		Confirm Cancel	

2.40.2.10 Export

You can export the provider configuration as JSON file.

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

Figure 136: Export

Service Consumers		," ×
Oracle_Service_Consumer		
Service Providers Consumer Services		
Add 🛃 Import search	٩	
External_Product_Processor Image: Control of the second	CONFIRMATION X Do you want to export? Note: Sensitive data such as implementation Host, Port and Password will not be exported Confirm Cancel	

NOTE: Below data is not be exported:

- Implementation Host
- Implementation Port
- Implementation Authentication Password

The above data needs to be configured manually after importing the configuration file. Same has been mentioned in Import section



2.40.3 Oracle FLEXCUBE Onboarding to Decision Service Configuration

2.40.3.1 Fetch Credit Decision

Figure 137: Fetch credit decision – Header

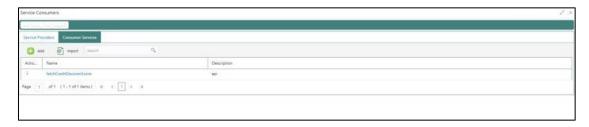
/iew Trans	formation				₿×
Name			Active		
A Product I	Processor				
Product Pro		Implementation		Service	
A Service					
Operation	Greditde Literi Decision flore				
Actions	Name		Value		
4	appld		(22222)		
£	userid		5		
1	branchCode		200		
▶ PathPara	ms				
▶ QueryPar	ams				

Figure 138: Fetch credit decision - Transformation:

View Transformation	ℤ ×
▶ Service	
Headers	
▶ PathParams	
▶ QueryParams	
A Request Transformation	
Template Type	Template
VEDOTY	{ S(esc.q)contextS(esc.q): { S(esc.q)sroductProcessorS(esc.q): 5(esc.q)Stody.productProcessorS(esc.q). S(esc.q)sroductProcessorS(esc.q): S(esc.q)Stody.productProcessorS(esc.q). S(esc.q)sroductProcessorS(esc.q): S(esc.q)S(e
# Response Transformation	
Template Type	Template
VELOCITY	8.2697.04.D
Mocking required?	Mock Template
OW	



Figure 139: Consumer Services



2.41 Decision Service

2.41.1 Overview

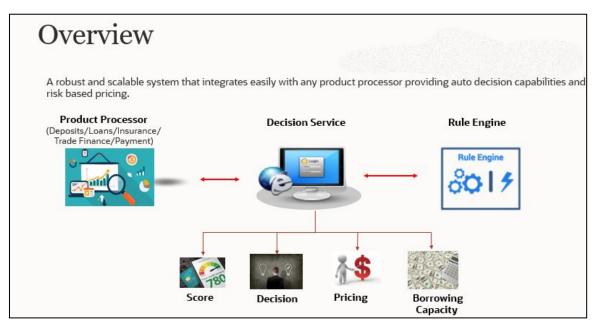
The decision service provides automatic decision making capabilities that can allow lenders to develop simple business processes and strengthen the decision-making process.

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.

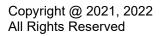
Decision Service is a robust and scalable system that can be easily integrated with any product processor providing auto decision capability and risk based pricing.

Figure 140 : 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,



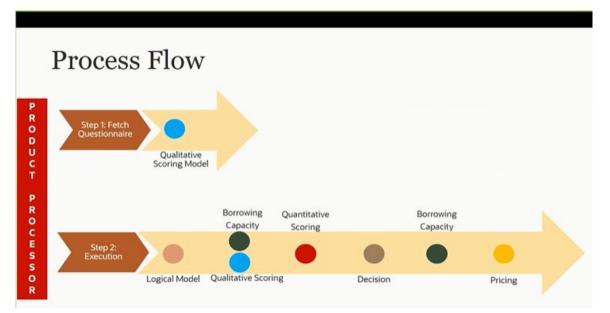


the recommended rate of interest and the ability to calculate which is the maximum amount that can be borrowed by the applicant.

2.41.2 Process Flow

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





2.41.2.1 Questionnaire

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

2.41.2.2 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.



2.41.2.3 Borrowing Capacity

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

2.41.2.4 Qualitative Score

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

2.41.2.5 Quantitative Score

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

2.41.2.6 Decision and Grade

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

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

2.41.2.7 Pricing

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

2.41.3 Strategy Configuration

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

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



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

2.42 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:

- 2.42.1 Create Product Processor
- 2.42.2 View Product Processor

2.42.1 Create Product Processor

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

To Create Product Processor:

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



Figure 142 : Create Product Processor

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

4. Specify the fields on Create Product Processor screen.

The fields, which are marked with asterisk, are mandatory.

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

Table 110 : 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.

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

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

2.42.2 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**.

To view created product processor:

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

- 2. Under Credit Decision, click Maintenance. Under Maintenance, click Product Processor.
- 3. Under Product Processor, click View Product Processor.

→ The View Product Processor screen is displayed.

Figure 143 : View Product Processor

C +					
rroduct Processor Code: :	Product Processor Code: : PR20211001171034	Product Processor Code: PPRNEW20211001171092	Product Processor Code: : OBP2	Product Processor Code: OBP12	
roduct Processor Description:	Product Processor Description:	Product Processor Description:	Product Processor Description:	Product Processor Description:	
🎝 Authorized 🔒 Open 🗹 1	🗋 Unauthorized 🔒 Open 🖉 1	🗋 Unauthorized 🔒 Open 🖉 1	🌔 Authorized 🔒 Open 🗹 1	🗋 Unauthorized 🔒 Open 🗹 2	
Product Processor Code: :	Product Processor Code: : OBP21	Product Processor Code: : OBP16	Product Processor Code: : PR20211213151274	Product Processor Code: : OBP29	
roduct Processor Description:	Product Processor Description:	Product Processor Description:	Product Processor Description:	Product Processor Description:	
🗅 Unauthorized 🗧 Closed 📝 5	🗅 Unauthorized 🔒 Closed 📝 3	Unauthorized 🔒 Closed 🛛 5	🗋 Unauthorized 🔒 Open 🛛 1	🗅 Authorized 🔒 Open 🗹 4	

Table 111 : 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.

- 4. Click Search icon.
- 5. Specify the search criteria to fetch the required product processor.

Figure 144 : View Product Processor - Search Option

View Product Processor				, ²
Product Processor Code	Product Processor Description	Authorization Status	Record Status	
ļ				Ŧ

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

Table 112 : View Product Processor- Search Option - Field Description

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



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

- 6. Click Search.
- 7. Click three-dots icon to modify, delete, authorise or view the created product processor.
- 8. To authorise the product processor, see the **Error! Reference source not found.**.
- 9. Click **Unlock** icon to modify the following fields. The fields are displayed in the **Product Processor** Maintenance screen.
 - Product Processor Description
 - Effective Date, before authorization
 - Expiry Date

Figure 145 : Product Processor Maintenance – Modify

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



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.

Table 113 : Product Processor Maintenance - Modify - Field Description

- 10. Click Save to update the modified fields.
- 11. Click **View** icon to view the created product processor.

The fields are displayed in Product Processor Maintenance screen.

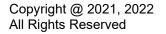
Figure 146 : Product Processor Maintenance – View

Product Processor Maintenance		$\mathcal{A}^{\ell} \ \times$
Basic Details		
Product Processor Code * OFLO Effective Date * Sep 1, 2020	Product Processor Description * OFLO Expiry Date * May 6, 2025	
Audit		

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

Table 114 : 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.





Field	Description
Effective Date	Displays the effective date of the created product processor.
Expiry Date	Displays the expiry date of the created product processor.



2.43 Lookup

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

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

This section contains the following subsections:

- 2.43.1 Create Lookup
- 2.43.2 View Lookup

2.43.1 Create Lookup

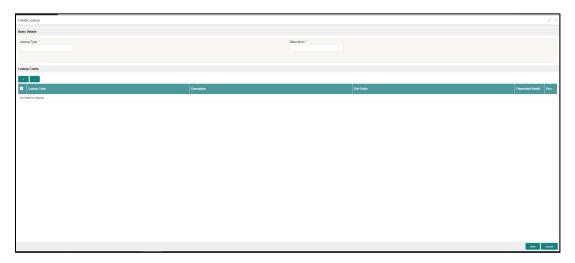
The Create Lookup screen allows the user to create lookup definitions by updating various details.

To create lookups:

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



Figure 147 : Create Lookup Screen



4. Specify the fields on Create Lookups screen.

The fields, which are marked with asterisk, are mandatory.

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

Table 115 :	Create	Lookups	- Field	Description
-------------	--------	---------	---------	-------------

Field	Description
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.



2.43.2 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**.

To view created lookups:

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

→ The View Lookup screen is displayed.

Figure 148 : View Lookup

View Lookup					$_{\mu ^{k^{\prime }}}\times$
< с +					
Lookup Type: CUSTCATEGORY Description: CustomerCategory	Lookup Type: AGE Description: Age	Lookup Type: sktest5 Description: sktest5	Lookup Type: LookUP20220801090889	Lookup Type: QuestionType Description: Question Type	^
🗋 Authorized 🔒 Open 🖉 3	🗋 Authorized 🔒 Closed 🖉 2	🕒 Authorized 🔒 Open 🗹 1	Authorized 🔒 Open 🖉 4	🗋 Authorized 🔒 Open 📝 1	
Lookup Type: sktest2	Lookup Type: industry2348884	Lookup Type: LookUP20220803090841	Lookup Type: Industry789	Lookup Type: : LKUP003	
Description: sktest2	Description: industry	Description: Results Description: industry		Description: Lookup	
🗋 Authorized 👇 Closed 🗹 2	🗋 Unauthorized 🗧 Closed 📝 2	🗋 Authorized 🔒 Open 🗹 4	🗋 Authorized 🔒 Open 🗹 1	🎦 Authorized 🔒 Open 🖉 1	
Page 1 of 40 (1 - 10 of 396 item:	s) K < 1 2 3 4 5	40 > X			v

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

Table 116 : 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.	

- 4. Click Search icon.
- 5. Specify the search criteria to fetch the required lookups.

Figure 149 : View Lookups- Search Option

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

6. Click Search.



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

Table 117 : View Lookups - Search Option - Field Description

- 7. Click three-dot icon to unlock, delete, authorize or view the created lookups.
- 8. Click **Unlock icon** to modify the following fields.

The fields are displayed in the Lookup Maintenance screen.

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

Figure 150 : Lookup Maintenance - Modify

Looku	p Maintenance				2
Basic [betails				
	ip Type * CCATEGORY		Description * CustomerCategory		
Lookup					
	- Lookup Code	Description	Sort Order	Dependent Identifier	Enable
	SILVER	Silver	1		
	GOLD	Gold	2		
	HNI	HighNetworthInd	3		
	REGULAR	Regular	4		
	PLATINUM	Platinum	5		
	ULTRAHNI	Ultra-HighNetworthInd	6		
Audi				Save	Cancel



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.
luentiner	User can modify the same.
Enable	Displays the lookup code if enabled for the created lookup.
	User can modify the same.

Table 118 : Lookup Maintenance - Modify - Field Description

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

10. Click **View** icon to view the created lookup code.

The fields are displayed in **Lookup Maintenance** screen.

Figure 151 : Lookup Maintenance – View

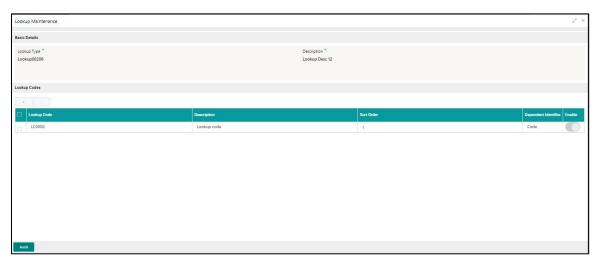
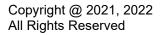


Table 119 : Lookup Maintenance - View - Field Description

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.	





2.44 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:

- 2.44.1 Create System Parameter
- 2.44.2 View System Parameter

2.44.1 Create System Parameter

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

To Create System Parameter:

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

→ The Create System Parameter screen is displayed.



Figure 152 : Create System Parameter



4. Specify the fields on Create System Parameter screen.

The fields, which are marked with asterisk, are mandatory.

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

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

Table 120 : Create System Parameter - Field Description

5. Click Save to save the details.

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



2.44.2 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**.

To view created system parameter:

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

Figure 153 : View System Parameter

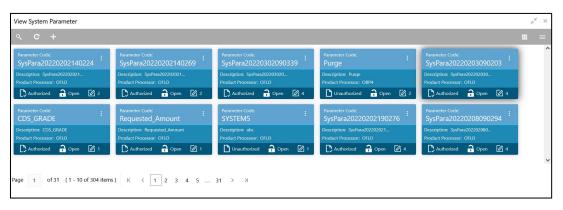


Table 121	: View	System	Parameter	- Field	Description

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.

- 4. Click Search icon.
- 5. Specify the search criteria to fetch the required system parameter.
- 6. Click Search.



Figure 154 : View System Parameters- Search Option

View System Parameter			$_{\mu^{d_{-}}}\times$
Persmeter Code	Authorization Status v	Record Data.	
Search Reset			

Table 122 : View System Parameters - Field Description

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

- 7. Click three-dots icon to unlock, delete, authorize or view the created system parameter.
- 8. Click **Unlock** icon to modify the following fields.

The fields are displayed in the System Parameter Maintenance screen.

- Product Processor
- Value

Figure 155 : System Parameter Maintenance – Modify

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



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

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.	

Table 123 : System Parameter Maintenance - Modify - Field Description

- 9. Click **Save** to update the modified fields.
- 10. Click View icon to view the created system parameter code.

The fields are displayed in System Parameter Maintenance screen.

Figure 156 : System Parameter Maintenance - View

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

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

Table 124 : 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.	



2.45 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 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:

- 2.45.1 Create Strategy Configuration
- 2.45.2 View Strategy Configuration

2.45.1 Create Strategy Configuration

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

To Create Strategy Configuration:

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

→ The Create Strategy Configuration screen is displayed.

Figure 157 : Create Strategy Configuration

Create Strategy Configuration		2 st ×
Basic Details		
Strategy Code * Select v Product Processor *	Strategy Code Description *	
Select Industry * Select	Line of Business * Select *	
Account Category * Account Category * Effective Date *	Module " Select " Espip Date "	
<u></u>	8	
Additional Information		
· ·	Value -	
No data to display.	Yana	
Modes		
Borrowing Capacity Decision & Grade Pricing Qualitative Score Qu	antitative Score 🔄 Score & Decision 📄 Score, Decision & Pricing	

4. Specify the fields on Create Strategy Configuration screen.



The fields, which are marked with asterisk, are mandatory.

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

Table 125 : Create Strategy Configuration - Field Description

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



Field	Description	
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 Informa	ation	
+ button	Click to add a new facts.	
- button	Click to delete an existing row.	
Туре	Select the fact type from the drop down list.	
Value	Select the value configured for the fact type from the drop down list. The values are configurable based on the lookup values maintained.	
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	



Field	Description	
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.	

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

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



2.45.2 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**.

To view Created Strategy Configuration:

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

Figure 158 : View Strategy Configuration

View Strategy Configuration		$\mu^{k} \rightarrow \lambda$
० ट		: =
Strategy Code: : OFLO001	Strategy Code: : OBO001	
Strategy Description: OFLO001 Product Processor: OBO	Strategy Description: MTP Strategy Code Product Processor: OBO	
Authorized 🔒 Open 🗹 3	🗋 Unauthorized 🔒 Open 🗹 1	
Page 1 of 1 (1 - 2 of 2 items)	К < 1 > Э	

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

Table 126 : 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			

- 4. Click **Search** icon.
- 5. Specify the search criteria to fetch the required strategy configuration.

the record.



Figure 159 : View Strategy Configuration- Search Option

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

6. Click Search.

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

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		

- 7. Click three-dots icon to unlock, delete, authorize or view the created strategy configuration.
- 8. To authorize the strategy configuration, see the Authorization process.
- 9. Click **Unlock** icon to modify the following fields.

The fields are displayed in the Strategy Configuration Maintenance screen.

- Expiry Date
- Fact Type and Value
- Modes
- Steps



Figure 160 : Strategy Configuration Maintenance – Modify

Strategy Configuration Maintenance		
Basic Defaits		
Strutegy Code *	Strategy Code Description * OFLO329	
Product Processor *	Product Processor Description * OPL0	
cho -	Line of Business *	
Burding +	Retail	*
Account Calagory * Account Calagory *	Module * Origination	
Effective Date *	Expiry Date *	
Sep 30, 2020	Sep 28, 2022	
Additional information		
■ 79×		Ven
1 Apr		* 8 *
Modes Select the Modes to configure as par requirement		
select the woods to compute as par requirement		
🗧 BanavergCapacity 🖃 Deministrate 🔍 Prong 💙 QualitativeScare 🗏 QuantitativeScare 📄 Scare 👻 ScareDeniates 🗎 ScareDeniates Prong		
Steps		
New The manufactory steps are by darkalt checked and datafact. The optional slops are analytical and unchecked. The over can decide which steps reset to be configured for a mode.		
✓ Qualitative Score		
1. Legical 2 🖓 Quantum store		

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				
Туре	Displays the fact type for the created strategy configuration.			
	User can modify the same.			

Table 128 : Strateg	Configuration	Maintenance	- Modify	- Field Description
---------------------	---------------	-------------	----------	---------------------



Field	Description
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.

- 10. Click **Save** to update the modified fields.
- 11. Click View icon to view the created strategy configuration.

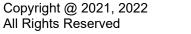
The fields are displayed in Strategy Configuration Maintenance screen.

Figure 161 : Strategy Configuration Maintenance – View

Strategy Configuration Maintenance		уб.х		
Basic Details				
Brutagy Good * Charles *	Strategy Code Description * ORLOG28			
Product Processor *	Product Processor Description * OFLO			
Moutiny * Tourishing * Account Damagony *	Nodule *			
Accord Laboratory Accord Laboratory Tracine Data	Origination *			
14p 35, 2020	Sep 28, 2022			
Additional information				
■		Mass .		
Age Age		• 8		
Modes				
Select the Modes to configure as per requirement				
i BenevergSuperty - Desizeduala - Prenz 🖌 QuantitateScos - GuantitateScos - SenebessionNexrg				
Stapp .				
Non The installety step are by leftain thedeed and disables. The optional sleep are analysis and understate the cost options which steps read to be configured for a mode.				
Qualitative Score Li Logial 2 © Cualitane Score				

Table 129 : Strategy Configuration Maintenance - View - 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.





Field	Description	
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.	

2.46 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:

- 2.46.1 Create Validation Model
- 2.46.2 View Validation Model



2.46.1 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.

To create Validation Model:

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

→ The Create Validation Model screen is displayed.

Figure 162 : Create Validation Model

Create Validation Model				
Basic Details		^		
Validation Model Code *	Validation Model Description *			
Effective Date * Mar 30, 2018	Expiry Date *			
Select 🔻	Pronty *			
Stop On First Error				
Selection Criteria Validation Model				
Use Existing Rule Create New Rule				
Rules				
Rule Code * Select	Rule Name			
	Save Cancel	~		

4. Specify the fields on **Create Validation Model screen.** The fields, which are marked with asterisk, are mandatory. For more information on fields, refer to the field description table below.

Table 130 : 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 fails or continue ahead with the remaining rules as per the sequence.

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

Figure 163 : Create Validation Model - Selection Criteria

e Validation Model				
Details				
ation Model Code *		Validation Model Description *		
tive Date *		Expiry Date *		
30, 2018		÷		
uct Processor *		Priority *		
ect 💌				
On First Error				
lection Criteria Validation Model				
se Existing Rule 💽 Create New Rule				
reate Rule				
New				
INCW				
Rules				
a Basic Info				
Code *	Description		Select Existing rule	
code	Description	Tag	v	Q
Rule Version				
	Q			
Section1				
Expression				
Expression				
IF				
Output				
Section1				

Table 131 : Create Validation Model – Selection Criteria - Field Description
--

Field	Description			
The following fields ap	The following fields appear if you click the Selection Criteria Tab			
Use Existing Rule	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.			
Rule Name	View the rule name.			
Create New Rule	Select this option to create new rule.			

Field	Description	
Rules		
Code	Specify the rule code.	
Description	Specify the rule description.	
Select Existing Rule	Select the existing rule from the drop-down list.	
0	Click to view the existing rule.	
Below field appears or	nce you click the 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 list of rule versions.	
	Note: This is used when existing rule is to be used for some modification like copy of existing rule.	
The below field appea	rs once you click the icon.	
List of Versions		
Version	Displays the rule version.	
Description	Displays the rule 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.	



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 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



Field	Description		
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.		

6. Click the Validation Model tab to define various validation modelling rules.

Figure 164 : Create Validation Model – Validation Model

Create Validation Model				, ² ×
Basic Details				
Validation Model Code *		Validation Model Description *		
Effective Date *		Expiry Date *		
Mar 30, 2018		Expiry Date		
Product Processor *		Priority *		
Select •				
Stop On First Error				
Selection Criteria Validation Model				
Validations				
- +				
Rule ID	Sequence	Reason	Severity	Comments
Select 👻 🕚		Select	▼ Select ▼	
				Save Cancel

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

Table 132 : Create Validation Model – Validation Model - Field Description

Field	Description		
The following fields ap	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.		



Field	Description	
6	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.	

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

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

2.46.2 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.

To View Validation Model:

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

Figure 165 : View Validation Model

२ с +				
Validation Model Code:				
LMC102	LM20211027131087	LM20211027141032	LM20211027191093	LM20211028111017
/alidation Model Description:	Validation Model Description:	Validation Model Description:	Validation Model Description:	Validation Model Description:
Product Processor: OFLO	Product Processor: CMC	Product Processor: CMC	Product Processor: CMC	Product Processor: CMC
🔁 Authorized 🔒 Open 🖉 2	🗋 Authorized 🔒 Open 📝 2	🗋 Authorized 🔒 Open 🖉 2	🗋 Authorized 🔒 Open 🖉 2	🗋 Unauthorized 🔒 Closed 🗹 2
Validation Model Code:	Validation Model Code:	Validation Model Code:	Validation Model Code: :	Validation Model Code:
LMC20122021224459	LMC20122021223647	LMC2012202123139	LMC2112202114210	LMC999182
/alidation Model Description:	Validation Model Description:	Validation Model Description:	Validation Model Description:	Validation Model Description:
Product Processor: OFLO				
🗋 Unauthorized 🔒 Open 🗹 2	🗋 Unauthorized 🔒 Open 🗹 1	🗋 Authorized 🔒 Open 🗹 1	🗋 Authorized 🔒 Open 🖉 1	🗋 Authorized 🔒 Open 📝 1



 Table 133: 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.	

- 4. Click Search icon.
- 5. Specify the search criteria to fetch the required validation model.

Figure 166 : Validation Model - Search Option

View Validation Model				$_{\mu}^{\mu}$ \times
Validation Model Code	Validation Model Description	Authorization Status	Record Status	×
Search Reset				

6. Click Search.

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

Table 124 : View Validation	Model Search Ontion	Eigld Description
Table 134 : View Validation	would - Search Option	i - Field Description



- 6. Click three dots icon to unlock, delete, authorize, or view the created validation model.
- 7. Click **Unlock** icon to modify the following fields.

The fields are displayed in the **Validation Model Maintenance** screen. The following fields are editable during unlock.

- Validation Model Description
- Effective date before authorization
- Expiry date
- Add new fact or rule to the selection criteria
- Modify the rule in validation model tab
- Modify the sequence, reason, or comments in validation model tab

Figure 167 : Validation Model Maintenance - Modify

Validation Model Maintenance					× ^{عر} بر
					·
Basic Details					
Validation Model Code *		Validation Model Description *			
Validation Model Code " Testing		Testing			
Effective Date *		Expiry Date *			
Mar 30, 2018		Dec 31, 2021	1		
Product Processor *		Priority *			
OBO 👻		1			
Stop On First Error					
Selection Criteria Validation Model					
Use Existing Rule Create New Rule					
Rules					
Rule Code *		Rule Name			
SCRLCC1001 👻		Credit Card Sele	ction Criterianss		
New					
Rules					
▲ Basic Info					
Code *	Description	Terr		Select Existing rule	
SCRLCC1001	Description Credit Card Selection Criterianss	Tag	v	Select Existing fule	Q
Rule Version					
46	Q				
Section1					
Email 1					
Expression					
((PRODUCTCODE == CCREWA) (PRODUCTCODE == BBPLUS)])			
Output Section1 True					
Sector nuc					
Audit					Save Cancel

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

 Table 135: Validation Model Maintenance – Modify – Field Description.

Field	Description
Basic Details	



Field	Description	
Validation Model Code	Displays the created validation model code.	
Validation Model Description	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.	
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.	
6	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.	



Field	Description
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.
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** icon to view the created validation model.

The fields are displayed in Validation Model Maintenance screen.



Figure 168 : Validation Model Maintenance - View

Validation Model Maintenance		۴ ×
Basic Details		^
Validation Model Code * LMCA100 Effective Date * Mar 30, 2018 Product Processor * OBO Stop On First Error On	Validation Model Description * Logical Model for Current Account Expiry Data * Oct 31, 2031 Priority * 1	
Selection Griteria Validation Model (*) Use Existing Rule (*) Create New Rule Rules Rule Code * Select *	Rule Name	

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

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		
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.	

Table 136 : Validation Model Maintenance - View – Field Description.



Field	Description
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.

2.47 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 a number of factors including the borrower's credit worthiness i.e., financial profile and debt to income, loan term, loan purpose, whether the loan is supported by a collateral etc.

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

A sample rule to calculate borrowing capacity is given below:

Scenario: Based on Income and FICO score

Rule 1:

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

Rule2: Max Lendable Amount

MIN(Income) * Rule1



This section contains the following subsections:

- 2.47.1 Create Borrowing Capacity
- 2.47.2 View Borrowing Capacity



2.47.1 Create Borrowing Capacity

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

To Create a Borrowing Capacity:

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

 \rightarrow The Create Borrowing Capacity screen is displayed.

Figure 169 : Create Borrowing Capacity

Create Borrowing Capacity		, ^{af} ×
New		
Basic Details		
Eligibility Code *	Eligibility Description *	
Effective Date *	Expiry Date *	
m		
Product Processor * Select *	Execution Stage * Select *	
Select	parasi *	
Selection Criteria Eligibility		
Use Existing Rule Create New Rule		
Rules		
Rule Code *	Rule Name	
Select *		
		Save Cancel

4. Specify the fields on **Create Borrowing Capacity** screen. The fields, which are marked with asterisk, are mandatory. For more information on fields, refer to the field description table below.

Table 137 : Create Borrowing Capacity - Field Description

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



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. 	

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

Figure 170 : Create Borrowing Capacity - Selection Criteria

Create Borrowing Capacity				د. م _ک ر
Basic Details				
Elgébely Code * 333 Effective Dains * Effective Dains * 500 *	338 Expiry D Feb 21,	2022		
Product Processor * ORLO *	Executio Before D			
Selection Criteria Eligibility O Use Existing Rule Create New Rule				
Create Rule				
Nex				
Rules				
	Description	Select Existing rule RL302 Q,	Rule Version	
Expression Builder				
*	•			
Output				

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

Table 138 : Create Borrowing Capacity – Selection Criteria - Field Description

Field	Description		
The following fields ap	pear if you click the Selection Criteria Tab		
Use Existing Rule	By default, this option is enabled. Indicates if the existing rule is linked.		
Rules			
Rule Code	Select the rule code from the drop-down list.		
6	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.		

Field	Description	
Rules		
Code	Specify the rule code.	
Description	Specify the rule description.	
Select Existing Rule	Select existing rule from the drop-down list.	
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.	
Below fields appears o	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 rule version.	
	Note: This is used when existing rule is to be used for some modification like copy of existing rule.	
Below fields appears o	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 the output, update the same based on the selected output option.	



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

Field	Description
Expression	View the expression updated in the expression builder.

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

Figure 171 : Create Borrowing Capacity – Eligibility Tab

reate Borrowing Capacity		
New		
asic Details		
Eligibility Code *	Eligibility Description *	
222	232	
iffective Date *	Expiry Date *	
Jul 6, 2021	Jul 12, 2021	
roduct Processor *	Execution Stage *	
OFLO *	Before Decision 💌	
Actions Fact Id	Rule Id	
60Delq	✓ ABC	· 0
		Save Car

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

Table 139 : Create Borrowing Capacity – Eligibility Tab - Field Description

Field	Description
The following fields ap	pear if you click the Eligibility Tab
+ 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.
6	Click to get the information about the rule.

7. Click Save to save the details.

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



2.47.2 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**.

To view the created Borrowing Capacity:

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

→ The View Borrowing Capacity screen is displayed.

Figure 172 : View Borrowing Capacity

view Borrowing Capacity				×"
९ c +				
Borrowing Capacity Code:	Borrowing Capacity Code: :	Borrowing Capacity Code:	Borrowing Capacity Code:	Borrowing Capacity Code:
CMCBWCMDEMO22021	CMCBWCMDEMOAD20	CMCBWCMDEM012021	BRCAP3112202152948	ggjhj22334
Borrowing Capacity Description:				
Product Processor: CMC	Product Processor: CMC	Product Processor: CMC	Product Processor: OFLO	Product Processor: OFLO
🗋 Authorized 🔒 Closed 🖉 2	🗋 Authorized 🔒 Closed 🖉 2	🗋 Unauthorized 🔒 Open 🗹 6	🗋 Unauthorized 🔒 Open 📝 1	🗋 Unauthorized 🔒 Open 📝 1
Borrowing Capacity Code:	Borrowing Capacity Code:	Borrowing Capacity Code:	Borrowing Capacity Code: :	Borrowing Capacity Code:
BRCAP3112202154313	BRCAP3112202154851	BRCAP311220216951	BRCAP7120229362	BRCAP71202294824
Borrowing Capacity Description:				
Product Processor: OFLO				
🗋 Unauthorized 🔒 Open 📝 1	🗋 Unauthorized 🔒 Open 🗹 1	🗋 Unauthorized 🔒 Open 🗹 1	🗋 Unauthorized 🔒 Open 📝 1	🗋 Unauthorized 🔒 Open 🔟 1

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

Table 140: View Borrowing Capacity – Field Description.

Field	Description
Borrowing Capacity Code	Displays the borrowing capacity code.
Borrowing Capacity Model 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.

- 4. Click Search icon.
- 5. Specify the search criteria to fetch the required borrowing capacity.



Figure 173 : View Borrowing Capacity- Search Option

orrowing Capacity Code	Borrowing Capacity Description	Authorization Status	Record Status	
		v	v	

6. Click Search.

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

 Table 141 : View Borrowing Capacity -Search Option- 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

7. Click three-dots icon to unlock, delete, authorize or view the created borrowing capacity.

8. Click **Unlock** icon to modify the following fields.

The fields are displayed in the **Borrowing Capacity Maintenance** screen. The following fields are editable during unlock.

- Eligibility Description
- Effective date before authorization
- Expiry date
- Add new fact or rule to the selection criteria
- Fact or Rule in eligibility tab



Figure 174 : Borrowing Capacity Maintenance – Modify

wing Capacity Maintenance					
Setaits					
ant data *		Elgibility Desotytion * burt Boly Date * Aug 7, 2021 Becution Stage * Batter Decision	-		
ADMinis					
S Code * CCAROS +			Rule Name ROBCAP001		
New					
Code * BORCARD1	Description BORCAPO1				
Expression Builder + Add topenion					
+ • Constinues	> • NUMBER	+ n			
Output					

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

Field	Description
Basic Details	
Eligibility Code	Displays the eligibility code for the created borrowing capacity.
Eligibility Description	Displays the description for the created borrowing capacity.
Description	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.
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.
6	Click to get the information about the rule.
Rule Name	Displays the rule name.

 Table 142: Borrowing Capacity Maintenance – Modify – Field Description.



Field	Description
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.
Kule	User can modify the same.
Version	Displays the rule version.
Expression Builde	r
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.
6	Click to get the information about the rule.

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

10. Click **View** icon to view the created borrowing capacity.

The fields are displayed in Borrowing Capacity Maintenance screen.

Figure 175 : Borrowing Capacity Maintenance – View

Borrowing Capacity Maintenance	× ×
Basic Details	
Eligibility Code * bwCfest Effective Date * Jul 29, 2021 Product Processor * OPLO	Eligibility Description * bwcfest Expiry Date * Aug 7, 2021 Execution Stage * Before Decision
Selection Criteria Eligibility Use Existing Rule	
Rule Code * BORCAP001 0	Rule Name BORCAP001
New	

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

Table 143 : Borrowing Capacity Maintenance- View – Field Description.



Field	Description
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.

2.48 Questionnaire

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

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

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

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

This section contains the following subsections:



- 2.48.1 Create Questionnaire
- 2.48.2 View Questionnaire

2.48.1 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.

To Create Questionnaire:

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

Figure 176 : Create Questionnaire

Create Questionnaire			< کر
Questionnaire Code *		Questionnaire Description *	
Product Processor *	×	Category	
Create •			
			Preview
No items to display.			
Add Question			
			Save Cancel

4. Specify the field's 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 144 : 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.



Field	Description
Category	Specify the category for the questionnaire.
Create	Click Create to configure the questions.
Question Code	Specify the unique question code.
Question Description	Specify the description for the question.
Select-Type	Select the type of response option from the drop-down list.
	The option are:
	Select-Single-Choice
Short Name	Specify the short name of the question. This will be displayed in the execution summary.
Answer Code	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.
4	Click to view the responses configured for the questionnaire.
	Click to move the position of the questions.
	Click to expand, copy or remove question.
🗎 Сору	Click to copy the question.
Remove Question	Click to remove the question.
Add Question	Click to add another question.

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

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

2.48.2 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**.

To view created questionnaire:

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

→ The View Questionnaire screen is displayed.

Figure 177 : View Questionnaire

View Questionnaire							,	× ×
० c								=
Questionnaire Code: QUAL01	÷	Questionnaire Code: HLQ101	÷	Questionnaire Code: MTPQN1001	:	Questionnaire Code: BBQAIRS01		^
Description: Qualitative Questi Product Processor: OBO		Description: Questionaire for H Product Processor: OBO		Description: MTP Questionnair Product Processor: OBO		Description: Bandhan Bank IRS Product Processor: OBO		
Authorized 🔒 Open	23	🗋 Authorized 🔒 Open	6	🗋 Authorized 🔒 Open	1	🗅 Authorized 🔒 Open 🗹	2	~

Page 1 of 1 (1 - 4 of 4 items) K $\langle 1 \rangle$

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

Table 145: 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.

- 4. Click Search icon.
- 5. Specify the search criteria to fetch the required questionnaire.

Figure 178 : View Questionnaire - Search Option

View Questionnaire				1
Questionnaire Code	Questionnaire Description	Authorization Status	Record Status	
1		Y	*	

6. Click Search.



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

Table 146 : View Questionnaire -Search Option- Field Description

- 7. Click three-dots icon to unlock, delete, authorize or view the created questionnaire.
- 8. To authorise the questionnaire, see the Authorization Process.
- 9. Click **Unlock** icon to modify the following fields.

The fields are displayed in the **Questionnaire Maintenance** screen. The following fields are editable during unlock.

- Questionnaire Description
- Category
- Add Question
- Remove Question
- Required (Enable/Disable)
- User can add new, update existing, or remove existing response
- Copy the existing question



Figure 179 : Questionnaire Maintenance - Modify

Questionnaire Maintenance		,* ×
Basic Details		
Questionnaire Code * Questioan3ID Product Processor * OFLO	 Questionnaire Description * Questicantillo desc Creagory Questicantillo category	
		Previour
e [™] Test31 Test31 desc		i * =
e ^{, #} Test32 Test32 desc		:* =
Add Question		
Audit		Save Cancel

Field	Description		
Basic Details			
Questionnaire Code	Displays the questionnaire code.		
Questionnaire Description	Displays the questionnaire description.		
Decomption	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.		
÷ v	Click to expand, copy or remove question.		
	Click to move the position of the questions.		
- e ⁿ	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.		

Table 147: Questionnaire Maintenance – Modify – Field Description.



Field	Description
Question Description	Displays the question code for the created questionnaire.
Description	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.

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

11. Click **View** icon to view the created questionnaire.

The fields are displayed in **Questionnaire** Maintenance screen.

Figure 180 : Questionnaire Maintenance - View

Questionnaire Maintenance			$\mu^{e} \times$
Basic Details			
Guestionalis Colo * Oniti * Polici Process * OhD	Questoware Decorption * Questoware OH111 Calagory Culture Details		
			Parview
			x
	Question Description *	Saled Type ⁴ Saled Single Chave	
Anisar Code 3.	Answer Option		
1 Moto			
2 Non Mato			
			Required * On

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

Table 148 : 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.	
Effective Date	Displays the effective date for the created questionnaire.	



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

2.49 Qualitative Scoring Model

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

This section contains the following subsections:



- 2.49.1 Create Qualitative Scoring Model
- 2.49.2 View Qualitative Scoring Model

2.49.1 Create Qualitative Scoring Model

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

To create a qualitative scoring Model:

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

→ The Create Qualitative Scoring Model screen is displayed.

Figure 181 : Create Qualitative Scoring Model

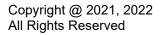
Create Qualitative Scoring Model		, ² ×
Basic Details		
Scoring Model * Application Scoring Model	Qualitative Scoring Model Description * DM.02 Expiny Date * Crct 82, 2021	
Product Processor * OFLO *	Priority * 1	
Selection Driteria Scoring Rule Use Existing Rule Rules		
Rule Code * Select •	Rule Name	
		Save Cancel

4. Specify fields on Create Qualitative Scoring Model screen.

The fields, which are marked with asterisk, are mandatory.

Table 149 : 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	





Field	Description
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.

5. Click the Selection Criteria tab to define qualitative scoring model.

Figure 182 : Create Qualitative Scoring Model – Selection Criteria Tab

Create Qualitative Scoring Model			1
Danic Details			
Account Account of the second Market of the Account of the Second Market of the Account of the Second Market of the Account of	Countrative Scoring should been place and Been Data * And 2022 Place * 1	-	
Rue Gode * v 0		Je Nome Je Product code HMLN31 EmpCat 8	
Nex			
Rules			
Cose * Description Rule Preduct	t code HMLN31 EmpCat B	Select Bristing rule Rule W Q, 151	asion Q.
Expression Builder			
+ • (v v		

For more information on fields refer field description table.

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.



Field	Description	
Rules		
Code	Specify the rule code.	
Description	Specify the rule description.	
Select Existing Rule	Select the existing rule from the drop-down list.	
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.	
Below fields appears o	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 of	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 tit, 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		
	NotmatchesNotcontains		
	NotcontainsNotin		
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		

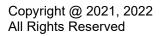


Field	Description		
Output	Select the output from the drop-down list. Once you select the output one more field opens adjacent to it, update the same based on the selected option.		
	The options are:		
	• Text		
	Number		
	• Boolean		
	Date		
	• Fact		
	The below option appears if the Data Type is selected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

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

Figure 183 : Create Qualitative Scoring Model- Sc	coring Rule Tab
---	-----------------

Create Qualitative Scoring Model	×	×
Basic Details		
DMU02 Effective Date * Oct 13 2021 mt	Qualitative Scoring Model Description * DMUD2 Exploy Dets * Ont 28. 2021 min Prints *	
Selection Criteria Scoving Rale		
Score Fule Code * SRCAP10 *	Rule Name Borrowing Capacity	
	Save Cano	i.





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.

Table 151 : Create Qualitative Scoring Model- Scoring Rule Tab Field Description

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

Figure 184 : Create Qualitative Scoring Model- Questionnaire Tab

ate Qualitative Scoring Model					
ic Details					
coring Model *					
Applicant Scoring Model 🛛 🔻					
ualitative Scoring Model Code *		Qualitative Scoring Model	Description *		
DML02		DML02			
ffective Date *		Expiry Date *			
Oct 13, 2021		O ct 28, 2021	**		
roduct Processor *		Priority *			
DFLO *		1			
Questionnaire Code * QN1111		Questionnaire Name Questionnaire QN111			
coring Feature QN111					
Question Id	Question		Define Range/Value	Enable	
QC001	Location		Define		
QC002	Employment Type		Define		
QC003	Residence Type		Define		

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

Table 152 : Create Qualitative Scoring Model – Questionnaire Tab - 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.



Field	Description
Enable	By default, this option is enabled. Indicates if the question ID is enabled or not.

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

Figure 185 : Create Qualitative Scoring Model - Define Link

eate Qualitative Scoring Model					2
iffective Date *		Expiry Date *			
Aug 19, 2021		Aug 31, 2021	m		
roduct Processor *		Priority *			
OFLO *		1			
lection Criteria Questionnaire					
Score					
Questionnaire Code *		Questionnaire Name			
QCode20210809160889		description#1628506826			
coring Feature QCode20210809160889					
Question Id	Question		Define Range/Value	Enable	
Q1#1628506826	description1		Define		
Q2#1628506826	description2		Define	Õ	
Range/Value Definition - Q1#1628506826					
Value		Score		Category	
description01		10		Strong	
description02		50		Medium	*
					Done

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

Table 153: Create Qualitative Scoring Model- Define Link – Numeric Feature- Field	
Description	

Field	Description	
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	

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

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

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

2.49.2 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**.

To view created qualitative scoring Model:

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

Figure 186 : View Qualitative Scoring Model

९ C									
Scoring Model Code:	Scoring Model Code: QSMCA03	ŧ	Scoring Model Code: Application Scorin	[‡]	Scoring Model Code: QSMCA1001	4	Scoring Model Code: QSMCA02	÷	
Scoring Model Description: Product Processor Code: OBO	Scoring Model Description: Product Processor Code: OBO		Scoring Model Description: Product Processor Code: OBO		Scoring Model Description: Product Processor Code: OBO		Scoring Model Description: Product Processor Code: OBO		
🎦 Authorized 🔒 Open 🛛 🖉 1	🔁 Authorized 🔒 Open	2 3	🕒 Authorized 🔒 Open	Ø 1	🕒 Authorized 🔒 Closed	🗹 2	🔁 Authorized 🔒 Closed	🗹 2	
Scoring Model Code: ; BBQU101	Scoring Model Code: SMQLHL101	÷	Scoring Model Code: BBQU100	÷	Scoring Model Code: SMQLCC101	÷	Scoring Model Code: QLAGHLIPA	÷	
Scoring Model Description: Product Processor Code: OBO	Scoring Model Description: Product Processor Code: OBO		Scoring Model Description: Product Processor Code: OBO		Scoring Model Description: Product Processor Code: OBO		Scoring Model Description: Product Processor Code: OBO		
🗅 Authorized 🔒 Open 🛛 1	🗋 Authorized 🔒 Open	10	🗋 Authorized 🔒 Open	2 7	🗋 Authorized 🔒 Open	10	🗋 Authorized 🔒 Open	1	

Page 1 of 3 (1 - 10 of 21 items) K < 1 2 3 > X

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

Table 154: 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.

- 4. Click Search icon.
- 5. Specify the search criteria to fetch the required qualitative scoring model.



Figure 187 : View Qualitative Scoring Model - Search Option

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

6. Click Search.

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

Table 155 : View Qualitative Scoring Model -Search Option- 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		

- 7. Click three-dots icon to unlock, delete, authorize or view the created qualitative scoring model.
- 8. To authorize the qualitative scoring model, see the Authorization process.
- 9. Click **Unlock** icon to modify the following fields.

The fields are displayed in the **Qualitative Scoring Model Maintenance** screen. The following fields are editable during unlock.

- Qualitative Scoring Model Description
- Effective Date before Authorization
- Expiry Date
- Priority
- Add new fact or rule to the selection criteria
- Enable, if you want to disable any question ID from the model
- Modify the score for existing response



- Define score or update score a range when new questions are added or modified in a questionnaire
- Scoring model before authorization

alitative Scoring Model Maintenance			,
ic Details			
comp Model * sprikar Scomp Model vulitarte Scomp Model Code * trip frective Date * Cot 13, 2021 Discosor * Disco V v		Qualitative Scoring Model Description * SMC Desc Expiry Detc * Dot 27, 2021	
Selection Criteria Questionnaire Use Existing Rule Create New Rule			
Rules			
AAAASDD T		Rub Name Rube Desc	
New			
Rules			
Code *	Description Rule Desc		

Figure 188 : Qualitative Scoring Model Maintenance - Modify

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

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.
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	

Table 156: Qualitative Scoring Model Maintenance – Modify – Field Description.



Field	Description	
Use Existing Rule	Indicates if the existing rule is linked.	
Rule	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 Builde	r	
+ 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.	
Expression	Displays the expression updated in the expression builder.	
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.	



Field	Description	
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	Displays the defined range or value.	
Range/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.	

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

11. Click **View** icon to view the created qualitative scoring model.

The fields are displayed in Qualitative Scoring Model Maintenance screen.

Figure 189 : Qualitative Scoring Model Maintenance - View

Qualitative Scoring Model Maintenance		,,** ×
Basic Details		
Scoring Model *		
Applicant Scoring Model		
Qualitative Scoring Model Code *	Qualitative Scoring Model Description *	
APCT302	Qualitative scoring model APCT302	
Effective Date *	Expiry Date *	
Sep 30, 2020	Sep 30, 2021	
Product Processor *	Priority *	
OFLO	22	
Selection Criteria Questionnaire		
Use Existing Rule Create New Rule		
Rules		
Rule Code *	Rule Name	
RL302	Rule Product code HMLN31 EmpCat B	
New		



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.	
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.	
6	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.	



Field	Description		
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 App	lication scoring Model.		
Score			
Rule Code	Displays the rule code for the created qualitative scoring model.		
Rule Name	e Name Displays the rule name for the created qualitative scoring model.		
Questionnaire			
Applicable for Applica	Applicable for Applicant Scoring Model.		
Score	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.		



2.50 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:

- 2.50.1 Create Scoring Feature
- 2.50.2 View Scoring Feature

2.50.1 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.

To create a Scoring Feature:

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

Figure 190 : Create Scoring Feature

Create Scoring Feature		×* *
Basic Details		
Feature Code * Bule Yes INO	Feature Description * Fact Code * Jeiver *	Product Processor * Select * Fact Name
		Sive Carol

4. Specify the fields on Create Scoring Feature screen.

The fields, which are marked with asterisk, are mandatory.



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

Table 158 : Create Scoring Feature - Field Description

- 5. Click **Save** to save the details.
- 6. The scoring feature is successfully created and can be viewed using the **View Scoring Feature** screen.



2.50.2 View Scoring Feature

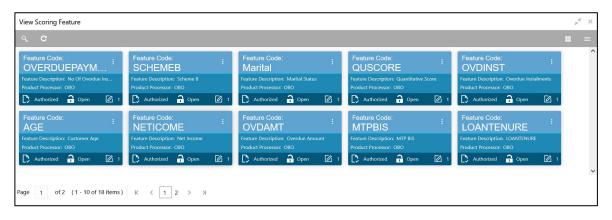
The **View Scoring Feature** screen allows user to view the scoring feature created using the **Create Scoring Feature** screen. The status of the uploaded feature is displayed as **Unauthorized** and **Open**. Once the checker authorizes the model, the status is updated to **Authorized** and **Open**.

To view an uploaded scoring feature:

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

→ The View Scoring Feature screen is displayed.

Figure 191 : View Scoring Feature



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

Table 159 : 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.	

- 4. Click Search icon.
- 5. Specify the search criteria to fetch the required scoring feature.

Figure 192 : View Scoring Feature - Search Option

View Scoring Feature				×.
Feature Code	Feature Description	Authorization Status	Record Status	
A CONTRACTOR		Construction of the second sec		
Search Reset				



6. Click Search.

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

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	

- 7. Click three-dots icon to unlock, delete, authorize or view the created scoring feature.
- 8. To authorise the feature, see the Error! Reference source not found..
- 9. Click **Unlock** icon to modify the following fields.

The fields are displayed in the **Scoring Feature Maintenance** screen. The following fields are editable.

- Feature Description
- Modification of rule linkage
- Modification of fact mapped to the feature in case no rule is linked to the feature.

Figure 193 : Scoring Feature Maintenance - Modify

coring Feature Maintenance			
sic Details			
Festure Code * TEST20211004171092 Rule * Yes: O No	Feature Description * Scoring Feature Rule for Testing Rule Code * Select *	Product Processor * OFLO * Ruin Name NetIncome	
			Sug

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

Field	Description	
Basic Details		
Feature Code	Displays the feature code.	
Feature	Displays the feature description.	
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 .	

Table 161 : Scoring Feature Maintenance – Modify - Field Description

2.51 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:

- 2.51.1 Create Quantitative Scoring Model
- 2.51.2 View Quantitative Scoring Model



2.51.1 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.

To create a Quantitative Scoring Model:

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

→ The Create Quantitative Scoring Model screen is displayed.

Figure 194 : Create Quantitative Scoring Model

Create Quantitative Scori	ng Model		2
Basic Details			
Scoring Model *			
Select	*		
Scoring Model Code *		Scoting Model Description *	
Effective Date *		Expiry Date *	
	±	11	
Product Processor *		Priority *	
Select	w.		
			Save Care

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

The fields, which are marked with asterisk, are mandatory.

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

Table 162 : Create Quantitative Scoring Model - Field Description

Field	Description	
Basic Details		
Scoring Model	elect the scoring model from the drop-down list.	
	he options are:	
	Application Scoring Model	
	Applicant Scoring Model	
	Multi-Applicant Scoring Model	



Field	Description	
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.	

5. Click the **Selection Criteria** tab to define scoring model.

Figure 195 : Create Quantitative Scoring Model – Selection Criteria Tab

Create Quantitative Scoring Model					,* ×
Basic Details					
Louis Scally					
Scoring Model *					
Application Scoring Model v					
Scoring Model Code *		Scoring Model Description *			
DML02		8853			
Effective Date *		Expiry Date *			
Sep 30, 2020		Jan 22, 2022	-		
Product Processor *		Priority *			
OFLO +		1			
Selection Criteria Scoring Rule					
Use Existing Rule Create New Rule					
O de bising kule 🐨 create new kule					
Create Rule					
New					
Rules					
Code *	Description		Select Existing rule	Rule Version	
RL003	Product Code		RL302 Q.	28	۵.
~~~~	Product code		NEW2	20	
Expression Builder					
+ Add Expression					
+					
Facts v ProductCode	- • TEXT	* HMLN31	AND	¥.	
		* HMLN31	AND		
Facts TemployerCategory	< * TEXT	+8			
Colorad					

For more information on fields, refer to the field description table below. Table 163 : Create Quantitative Scoring Model – Selection Criteria Tab - 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.		
Rule Name	Displays the rule name of the rule code.		
Create New Rule	Select this option to create new rule.		
Rules			



Field	Description		
Code	Specify the new rule code.		
Description	Specify the rule description.		
Select Existing Rule	Select the existing rule from the drop down list.		
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.		
Below field appears once y	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				
	<ul><li>Matches</li><li>Notmatches</li></ul>				
	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 <b>Data Type</b> is selected as <b>Boolean</b> .				
	• 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 <b>Data Type</b> is selected as <b>Boolean</b> .				
	• True				
	False				
Expression	Displays the expression updated in the expression builder.				

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

#### Figure 196 : Create Quantitative Scoring Model – Scoring Rule Tab

Create Quantitative Scoring Model	,** ×
Basic Details	
Scoring Model *	
Application Scoring Model	
	Scoring Model Description *
	Scoring Model
	Expiry Date *
Aug 4. 2021	Aug 21, 2021
	Priority *
OFLO w	1
Selection Criteria Scoring Rule	
Score	
Rule Code *	Rule Name
MLA3 V O	MLA1
	Save Cancel

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

#### Table 164 : Create Quantitative Scoring Model – Scoring Rule Tab - Field Description

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



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

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

reate Quantitative Scoring Model Scoring Model * Scoring Model Code * DML02 Scoring Model De Scoring Model Expiry Date * Aug 21, 2021 Effective Date Aug 4, 202 --Product Pro Priority * OFLO Selection Criteria Feature C Note How Range Type Max Value

Figure 197 : Create Quantitative Scoring Model – Feature Tab

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.			
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.			

Table 165 : Create Quantitative Searing Model - Easture Tab	<b>Field Decorintion</b>



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

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

#### Figure 198 : Create Quantitative Scoring Model – Define Link – Numeric Feature

Create Quantitative Scoring Model						2 st ×
Effective Date *		Expiry Date				
Aug 18, 2021		Aug 26, 2021	<b></b>			
Product Processor *		Priority *				
OFLO *		1				
Selection Criteria Feature						
Scoring Feature						
		1			1	
Feature	Weightage (%)	Range Type		Define Range/Value	Enable	
Age Description 🔻	50	Max Value %	*	Define		
Range/Value Definition - Age Description						х
Note How decimal number is considered while defining a Range? For Exar			un in all start form an death of			
	nple. In range is norm 0 - 200 in raciow and 200 - 300 in 200 i			m (*) 200.		
Range Type			Max Value *			
Max Value %						
Range From	Range To		Percentage		Category	
	Hange 10		revenage		Category	
No data to display.						
						Done
						Save Cancel

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

# Table 166: Create Quantitative Scoring Model – Define Link – Numeric Feature- Field Description

Field	Description
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.



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

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

#### Figure 199: Create Quantitative Scoring Model- Define Link –Alphanumeric Feature

Create Quantitative Scoring Model								,
Scoring Model Code *			Scoring Model Descript	tion *				
DML02			Scoring Model					
Effective Date *			Expiry Date					
Aug 18, 2021			Aug 26, 2021	益				
Product Processor *			Priority *					
OFLO *			1					
Selection Criteria Feature								
Scoring Feature								
Feature	Weightage (%)		Range Type		Define Range/V	slue	Enable	
Employer Category Desc	▼ 50		Max Value %		* Define		$\bigcirc$	
Range/Value Definition - Employer Category Desc								
Range Type				Max Value *				
Max Value %				50				
Value		Score				Category		
50		50				Strong		
								Done
								Save Can



 Table 167: Create Quantitative Scoring Model – Define Link – Alphanumeric Feature - Field

 Description

Field	Description			
Range/Value Definition				
Range Type	Displays the range type selected. The default value for the same is <b>Value</b> .			
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.			
Category	Specify the category for each range or value from the drop- down list.			
	The options are:			
	• Strong			
	Medium			
	• Weak			

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

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

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



## 2.51.2 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**.

To view created quantitative scoring model:

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

→ The View Quantitative Scoring Model screen is displayed.

#### Figure 200 : View Quantitative Scoring Model

View Quantitative Scoring N	Model									$\mu^{\rm st} \rightarrow$
< c +										
Scoring Model Code: BBQN100	÷	Scoring Model Code: BBQN101	ŧ	Scoring Model Code: QSMSMBCA2	÷	Scoring Model Code: SMHLAG200	÷	Scoring Model Code: SMPLVLEL	÷	
Scoring Model Description: Product Processor Code: OBO		Scoring Model Description: Product Processor Code: OBO		Scoring Model Description: Product Processor Code: OBO		Scoring Model Description: Product Processor Code: OBO		Scoring Model Description: Product Processor Code: OBO		
🕒 Authorized 🔒 Open	Ø 2	🗋 Authorized 🔒 Open	<b>1</b>	🕒 Authorized 🔒 Open	6	🗋 Authorized 🔒 Open	<b>1</b>	🗋 Authorized 🔒 Open	Ø 1	
Scoring Model Code: SCQLCC1001	3	Scoring Model Code: SMQNIPA	:	Scoring Model Code: QNAPHLIPA	÷	Scoring Model Code: BBQN102	:	Scoring Model Code: SMEL100	÷	
Scoring Model Description: Product Processor Code: OBO		Scoring Model Description: Product Processor Code: OBO		Scoring Model Description: Product Processor Code: OBO		Scoring Model Description: Product Processor Code: OBO		Scoring Model Description: Product Processor Code: OBO		
🔁 Authorized 🔒 Open	Ø 1	🗋 Authorized 🔒 Open	🖉 1	🗋 Authorized 🔒 Open	Ø 1	🗋 Authorized 🔒 Open	6	🖹 Authorized 🔒 Closed	₫ 4	
Page 1 of 4 (1 - 10 of	34 items )	K < 1 2 3 4	К <							

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

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.

- 4. Click Search icon.
- 5. Specify the search criteria to fetch the required quantitative scoring model.

Figure 201 : View Quantitative Scoring Model- Search Option

View Quantitative Scoring Model				$_{\mu^{g^{*}}}$ $\times$
Scoring Model Code	Scoring Model Description	Authorization Status	Record Status	
Search Reset				

#### 6. Click Search.

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

#### Table 169 : View Quantitative Scoring Model- Search Option- 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			

- 7. Click three-dots icon to unlock, delete, authorize or view the created quantitative scoring model.
- 8. To authorize the quantitative scoring model, see the Error! Reference source not found..
- 9. Click **Unlock** icon to modify the following fields. The fields are displayed in the **Quantitative Scoring Model Maintenance** screen. The following fields are editable.
  - Scoring Model Description
  - Effective date, before authorization
  - Expiry Date
  - Priority
  - Add/Delete new scoring feature to the quantitative scoring model
  - Change the weightage of the scoring feature code
  - Range Type
  - Facts and Rules in Selection Criteria
  - Range/Value
  - Score
  - Category



• Enable if you want to remove any scoring feature from the model instead of removing, you can disable the feature. Thus, the weightage assigned to that particular feature is auto removed and is shown as blank.

Figure 202 :	Quantitative	Scoring	Model	Maintenance	- Modify
--------------	--------------	---------	-------	-------------	----------

Quantitative Scoring Model I	Aaintenance			2 × 1
Basic Details				
Scoring Model * Applicant Scoring Model Scoring Model Code * REJECT Effective Date * Sep 30. 2020 Product Processor * OPLO	•		Scoring Model Description * REECT Expip: Date * Did 31 1002  Printly * 1	
	ture ste New Rule			
Rules Rule Code * REJECT	* 0		Rule Name REJECT	
New Rules Code * REJECT		Description REECT		

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.
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	



Field	Description
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.
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.



Field	Description
- 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.
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	1

This tab is enabled for the Application Scoring Model.



Field	Description
Score	
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.

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

11. Click **View** icon to view the created quantitative scoring model.

The fields are displayed in Quantitative Scoring Model Maintenance screen

#### Figure 203 : Quantitative Scoring Model Maintenance – View

Quantitative Scoring Model Maintenance			×
Basic Details			
Scoring Model * Applicant Scoring Model Scoring Model Code * REJECT Effective Date * Sep 30. 2020 Product Processor * OFLO		Scotting Model Description * REJECT Exploy Date * Oct 31. 2022 Priority * 1	
Selection Criteria Feature  Use Existing Rule  Create New Rule			
Rules			
Rule Code * REJECT		Rule Name REJECT	
New			
Rules			
Code " REJECT	Description REJECT	Select Existing rule Q.	Rule Version

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

## Table 171 : 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.



Field	Description
Product Processor	Displays the product processor for the created quantitative scoring model.
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.
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.
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	



Field	Description
+ button	Click to add new row.
- button	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.
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.



Field	Description
Rule Name	Displays the rule name of the rule code for the created quantitative scoring model.



# 2.52 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:

- 2.52.1 Create Decision Grade Matrix
- 2.52.2 View Decision Grade Matrix

## 2.52.1 Create Decision Grade Matrix

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

#### To create decision and grade matrix:

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

 $\rightarrow$  The Create Decision Grade Matrix screen is displayed.

#### Figure 204 : Create Decision Grade Matrix

Create Decision Grade Matrix		," ×
Basic Details		
Model Code *	Model Description *	
Effective Date *	Expiry Date *	
Product Processor	Priority *	
Select *	i nong	
Selection Criteria Decision Matrix Grade Matrix		
Use Existing Rule     Create New Rule		
Rules		
Rule Code * Selecr *	Rule Name	
	Sire	: Cancel

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

The fields, which are marked with asterisk, are mandatory.

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

#### Table 172: Create Decision and Grade Matrix - Field Description

Field	Description
Basic Details	
Model code	Specify the unique model code.



Field	Description
Model Description	Specify a short description for the model.
Effective Date	Select the effective date.
Expiry Date	Select the expiry date.
Product Processor	Specify the product processor for which the decision and grade matrix is being created.
Priority	Specify the priority of the model.

5. Click the **Selection Criteria** tab to configure the parameters based on which decision model is to be resolved.

#### Figure 205 : Create Decision Grade Matrix – Selection Criteria Tab

Create Decision Grade Matrix	** ×
Basic Details	
Model Code * DML01 Effective Date * Aug 10, 2021 @ Product Processor * OFLO *	Model Description * DMLD1 Every form * Aug 28, 2021  Provide * 1
Selection Criteria Decision Matrix Grade Matrix Use Existing Rule Create New Rule Rules	
Rule Code *	Rule Name MLA1
New	
Rules	
Code * MLA3	Description MLA1
Expression Builder + Add Expression	

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

#### Table 173 : 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.	
0	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.	



Field	Description		
Description	Specify the rule description.		
Select Existing Rule	Select the existing rule from the drop-down list.		
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.		
Below field appears once ye	ou 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 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 y	ou 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:
	• <
	• >
	• +
	• =
	• %
	• !=
	• -
	• >=
	• <=
	• *
	<ul> <li>/</li> <li>Contains</li> </ul>
	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
	• Date
	• Fact
	The below option appears if the <b>Data Type</b> is selected as <b>Boolean</b> .
	• 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 <b>Data Type</b> is selected as <b>Boolean</b> .
	• True
	False
Expression	Displays the expression updated in the expression builder.

6. Click the **Decision Matrix** tab to define decision on the application. You can select the feature for which the decision needs to be maintained like Quantitative/Qualitative.

Figure 206 : Create Decision Grade Matrix- Decision Matrix Tab

		( DEFAULTENTITY)	HOSTBRANCH ( 000) Sep 30, 2020	TESTUSER1
Create Decision Grade Matrix				,," ×
Sep 30, 2020				
Product Processor *	Priority *			
OFLO *	1			
Add Features ×				
Select relavant features as per order in which they will get displayed in the table Select Feature Name from the list				
Link a Rule?  Ves ONO				
Cancel Save				
Selection Criteria Decision Matrix Grade Matrix				
Note How decimal number is considered while defining a Range? For Example: If range is from 0 – 200 in 1st row			han (≻) 200.	
	Add columns to define Decision Matrix			
	+ Add Column			
and the second se				
• -				



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



7. Click the **Grade Matrix** tab to assign the grade to the application that is used during the pricing of the application. You can select the feature for which the grade needs to be maintained like Quantitative/Qualitative.

		( DEFAULTENTITY)	HOSTBRANCH ( 000) Sep 30, 2020	TESTUSER1
Create Decision Grade Matrix Environme United Sep 93, 2020 Product Processor * OFLO *	CAWY Date			,** ×
Add Features X Select relevant features as per order in which they will get displayed in the table Select Feature Name from the list Link a Rule? Ves No Cancel Save				
Note How decimal number is considered while defining a Range? For Example II range is from 0 - 200 in 1st row	v and 200 - 500 in 2nd row then that means in the 2n			
Add columns to define Grade Matrix				
	+ Add Column			
				Save Cancel

Figure 207 : Create Decision Grade Matrix – Grade Matrix Tab

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



Field	Description		
- 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:		
	<ul> <li>A</li> <li>B</li> <li>C</li> </ul>		
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 <b>Link a Rule?</b> Option is updated as <b>Yes</b> .		

#### 8. 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.

## 2.52.2 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**.

#### To view an uploaded decision grade matrix:

- 1. From Home screen, click Core Maintenance. Under Core Maintenance click, Credit Decision.
- 2. Under Credit Decision, click Maintenance. Under Maintenance, click Decision Grade Matrix.
- 3. Under Decision Grade Matrix, click View Decision Grade Matrix.
  - $\rightarrow\,$  The View Decision Grade Matrix screen is displayed.



Figure 208 : View Decision Grade Matrix

९ <b>с</b> +				
Model Code:	Model Code:	Model Code:	Model Code:	Model Code: :
DGM220211027191025	DGM120211027191025	DG20220107100137	DG20220110150152	DG20220110150166 :
Model Description: DGM22021102719	Model Description: DGM12021102719	Model Description: DG20220107100137	Model Description: DG20220110150152	Model Description: DG20220110150166
Product Processor: CMC	Product Processor: CMC	Product Processor: OFLO	Product Processor: OFLO	Product Processor: OFLO
🗅 Authorized 🔒 Closed 🖉 2	🗋 Authorized 🔒 Closed 🖉 7	🗋 Unauthorized 🔒 Open 📝 1	🗋 Unauthorized 🔒 Open 📝 1	🗋 Unauthorized 🔒 Open 🖉 1
Model Code: :	Model Code:	Model Code: :	Model Code:	Model Code:
DG20220110150102 :	DG20220110150119	AVC	DG20220119150129	RANGETEST
Model Description: DG20220110150102	Model Description: DG20220110150119	Model Description: AVC	Model Description: DG20220119150129	Model Description: RANGE
Product Processor: OFLO				
🗋 Unauthorized 🔒 Open 📝 1	🗋 Unauthorized 🔒 Open 🗹 1	🗋 Authorized 🔒 Open 🖉 2	🕒 Authorized 🔒 Open 🖉 1	🔁 Authorized 🔒 Open 🗹 1

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

#### Table 176 : 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.

4. Click Search icon.

5. Specify the search criteria to fetch the required decision grade matrix.

#### Figure 209 : View Decision Grade Matrix- Search Option

View Decision Grade Matrix				,# ×
Model Code	Model Description	Authorization Status	Record Status	
Search Reset				

#### 6. Click Search.

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

#### Table 177 : View Decision Grade Matrix Field Description

Field	Description
Model Code	Displays the model code.
Model Description	Displays the model description.



Field	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	

7. Click three-dots icon to unlock, delete, authorize or view the created decision grade matrix.

8. Click **Unlock** icon to modify the following fields.

The fields are displayed in the Decision Grade Maintenance screen. The following fields are editable.

- Model Description
- Effective Date, before authorization
- Expiry Date
- Priority
- Rule Code
- Add New fact or rule to the selection criteria
- Score from
- Score to
- Decision
- Grade



#### Figure 210 : Decision Grade Maintenance - Modify

Decision Grade Maintenance					,," ×
Basic Details					
basic Details					
Model Code *		Model Description			
dy06		dy06			
Effective Date *		Expiry Date			
Sep 5, 2020		Jul 20, 2021	±		
Product Processor *		Priority *			
OFLO Y		1			
					_
Selection Criteria Decision Matrix Grade Matrix					
Use Existing Rule     Create New Rule					
Rules					
Rule Code *		Rule	Name		
MLA3 Y O		MLA	1		
New					
Rules					
Code *	Description				
MLA3	MLA1				
WLA2	MLR1				
Expression Builder					

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.	
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.	

Table 178 : View Decision Grade Matrix- Modify- Field Description



Field	Description	
6	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.	
Kule	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.	
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:	
	• <b>Yes</b> : This option displays the list of rules and based on rule mapped the decision is provided.	
	• <b>No</b> : This option displays the list of decision lookup values.	
×	Click to delete a column.	
+ button	Click to add new row.	



Field	Description
- 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 option are:
	• <b>Yes</b> : This option displays the list of rules and based on the rules mapped decision is provided.
	• <b>No</b> : this option displays the list of decision lookup values.
×	Click to delete a column.
+ button	Click to add new row.
- 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.



Field	Description
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.

- 9. Click Save, to update the modified field.
- 10. Click **View** icon to view the created decision grade matrix. The fields are displayed in **Decision Grade Maintenance** screen.

#### Figure 211 : Decision Grade Maintenance – View

Decision Grade Maintenance		2 ¹⁴ ×
Basic Details		
Model Code " dy06 Effective Date " Sep 5:200 Product Processor "	Model Description * dy06 Expiry Date * Jul 20. 2021 Prioty *	
OFLO	1	
Selection Criteria Declaion Matrix Grade Matrix Criterianing Rule Crists Detraining Rule Crists New Rule		
Rules		
Rule Code * Select	Rule Name	
Audit		

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

# Table 179 : 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.



Field	Description
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.
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.
	-



Field	Description
×	Click to delete a column.
+ 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.
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.
×	Click to delete a column.
+ 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.



# 2.53 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:

- 2.53.1 Create Pricing Model
- 2.53.2 View Pricing Model

# 2.53.1 Create Pricing Model

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

#### To create a pricing set up:

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

# Figure 212 : Create Pricing Model

Create Pricing Model		,," ×
Basic Details		
Pricing Code *	Pricing Description *	
Effective Date *	Expiry Date *	
fitti Product Processor *	Prorty "	
Select ·		
Selection Criteria Price Definition		
Use Existing Rule     Crease New Rule		
Rules		
Rule Code * Select *	Rule Name	
		Save Cancel

4. Specify the fields on **Create Pricing Model** screen. The fields, which are marked with asterisk, are mandatory. For more information on fields, refer to the field description table below.



Field	Description
Basic Details	
Pricing Code	Specify the unique pricing code.
Pricing Description	Specify a short description for the pricing.
Effective Date	Select the effective date.
Expiry Date	Select the expiry date.
Product Processor	Specify the product processor for which the pricing is being defined.
Priority	Specify the priority of the pricing.

5. Click the Selection Criteria tab to define pricing.

# Figure 213 : Create Pricing Model - Selection Criteria Tab

Create Pricing Model	
Basic Details	
Nerving Cook * Orkan Ork	Prong Georgania
Selection Crititris Proc Definition	
Create Rule	
New	
Rules	
Code * Description 1003 Product	Select bisting rule Rule Version Q
Expression Builder	
Output	
Rear to stars,	
Expression G	

Table 181 : 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.
Rule Name	Displays the rule name.
Create New Rule	Select this option to create new rule.

Field	Description	
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.	
	<b>Note:</b> This is used when existing rule is to be used for some modification like copy of existing rule.	
The below field appear	s 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.	
	<b>Note:</b> 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 <b>Data Type</b> is selected as <b>Boolean</b> .		
	• 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 <b>Data Type</b> is selected as <b>Boolean</b> .	
	• True	
	• False	
Expression	Displays the expression updated in the expression builder.	

6. Click the **Price Definition** tab to define pricing.

# Figure 214 : Create Pricing Model – Price Definition Tab (Flat)

Create Pricing Model			$_{\mu}^{it}$ $\times$
Basic Details			
Pricing Code *		Pricing Description *	
Effective Date *		Expiry Date *	
Mar 30, 2018	<b>m</b>	<b></b>	
Product Processor *		Priority *	
Select	Ŧ		
Selection Criteria Pri Price Definition	rice Definition		
Minimum Rate *		Maximum Rate *	
Rate Type *	Link a Rule?	Rate % *	
Flat	🔾 Yes 💿 No		
			Save Cancel

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

#### Table 182 : Create Pricing Model – Price Definition (Flat) – Field Description

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



Field	Description	
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 <b>Rate Type</b> option as <b>Flat</b> and <b>Link a Rule?</b> option as <b>No</b> .	
Rule	Select the rule for the defined pricing from the drop-down list.	
	This field appears once you select the <b>Rate Type</b> option as <b>Flat</b> and <b>Link a Rule?</b> option as <b>Yes</b> .	

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

- 7. Click Add Columns button.
  - $\rightarrow$  The **Add Features** popup screen displays.

# Figure 215 : Add Features

Add Features	×
Select relavant features as per order in which they will get displayed in the table Select Feature Name from the list Link a Rule? Yes No	
Cancel	Save

- 8. Select the feature names from the list. ('n' number of features can be selected)
- 9. Select the option whether to link a rule for defining the interest rate.



10. Click **Save** to link the list of features for defining the tiered interest rate.

The **Price Definition (Tiered)** tab displays.

Figure 216 :	Create Pricing	Model – Price	Definition	(Tiered)
--------------	----------------	---------------	------------	----------

Details       ing Code *     Pricing Description *       ing Code *     Expiny Date *       it Pool 2001     Main (Main Mate *)       it Price Definition     Maximum Rate *       it Pool 2001     Ito 2001
ing Code * Pricing Description * ff 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
hf Equip Date and a spin post of a s
hf Equip Date and a spin post of a s
ctive Date * Expiry Date *   r 30, 2018 Aug 14, 2031   duct Processor * Priority *   0 1
r 30, 2018 m Aug 14, 2031 m Aug 14, 2031 m Priority * 0 • 1 tion Criteria Price Definition re Definition imum Rate * Maximum Rate *
Juit Processor*   O   1   Constraints
O 1     Idom Criteria     Price Definition     inum Rate*     Maximum Rate*
Ition Criteria Price Definition Insum Rate * Maximum Rate *
imum Rate * Maximum Rate *
imum Rate * Maximum Rate *
imum Rate * Maximum Rate *
100
e Type * Flat
•
decimal number is considered while defining a Range? For Example: If range is from 0 - 200 in 1st row and 200 - 500 in 2nd row then that means in the 2nd row it will start from greater than (>) 200.
Add columns to define Rates
- Add Column
From To Value
Save Cancel

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

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 <b>Rate Type</b> option as <b>Tiered</b> . 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.	

Table 183 : Create Pricing Model – Price Definition (	(Tiered) – Field Description
-------------------------------------------------------	------------------------------



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

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

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

# 2.53.2 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**.

### To view created Pricing Model:

- 1. From Home screen, click Core Maintenance. Under Core Maintenance click, Credit Decision.
- 2. Under Credit Decision, click Maintenance. Under Maintenance, click Pricing.
- 3. Under Pricing, click View Pricing Model.
  - → The View Pricing Model screen appears.

#### Figure 217 : View Pricing Model

5				
९ <b>८</b>				
Pricing Code:	Pricing Code: :	Pricing Code: :	Pricing Code: :	Pricing Code: :
PLVL102	PREL102	PRCA101	PRPL100	PRPL101
Pricing Description: Pricing Model for	Pricing Description: Pricing Model PL F			
Product Processor: OBO				
🗅 Authorized 🔒 Open 🛛 🖉 1	🗅 Authorized 🔒 Open 🛛 🖉 2	🗅 Authorized 🔒 Closed 📝 2	🜔 Authorized 🔒 Open 🛛 🖄 8	🎦 Authorized 🔒 Open 🛛 🗹 5
Pricing Code: :	Pricing Code: :	Pricing Code: :	Pricing Code: :	Pricing Code:
PREL100	PRPL102	PRPL103	PRHL100	PRHL101
Pricing Description: Pricing Model for	Pricing Description: Pricing for Home L			
Product Processor: OBO				
🗅 Authorized 🔒 Open 🛛 🖉 7	🗋 Authorized 🔒 Open 🛛 🖉 1	🗋 Authorized 🔒 Open 🛛 🖉 2	🗋 Authorized 🔒 Open 🛛 🖉 9	🗅 Authorized 🔒 Open 🛛 🖉 5

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

#### Table 184 : 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.	



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

- 4. Click Search icon.
- 5. Specify the search criteria to fetch the required pricing model.

Figure 218 : View Pricing Model- Search Option

View Pricing Model				»" ×
Pricing Code	Pricing Description	Authorization Status	Record Status *	

6. Click Search.

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

### Table 185 : View Pricing Model - Search Option - 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	

- 7. Click three-dots icon to unlock, delete, authorize or view the created pricing model.
- 8. Click **Unlock** to modify the following fields.

The fields are displayed in the Pricing Model Maintenance screen.

The following fields are editable.

- Pricing Description
- Effective Date, before authorization
- Expiry Date
- Priority
- Rule Code
- Add new fact or rule to the selection criteria
- <Numeric Feature> From
- <Numeric Feature> To
- < Character Feature> Value



- Rate Type
- Rate %

# Figure 219 : Pricing Model Maintenance – Modify

icing Model Maintenance				. ۲
asic Details				
Pricing Code *		Pricing Description *		
PRELGEN		Education Loan Generic		
Effective Date *		Expiry Date *		
Mar 30, 2018		Jan 9, 2031		
Product Processor *		Priority *		
OBO v		1		
election Criteria Price Definition				
Use Existing Rule 🔷 Create New Rule				
y -				
Rules				
Rule Code *		Rule Name		
SCEDLN04 v 0		Selection Criteria EDLN04		
New				
Rules				
A Basic Info				
Code *	Description	Tag	Select Existing rule	
SCEDLN04	Selection Criteria EDLN04		<b>v</b>	Q
Rule Version				
1	Q			
Section1				
Furnessien				
Expression				
IF ( PRODUCTCODE ==	EDI N04 )			
Output	,			
Section1 TRUE				
Audit				
Audit				Save Cancel

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

## Table 186 : 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.
Product Processor	Displays the product processor for the created pricing model.



Field	Description	
Priority	Displays the priority of the pricing for the created pricing model.	
	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 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	· · · · · · · · · · · · · · · · · · ·	
Minimum Rate	Displays the minimum rate applicable for the defined pricing model.	
	User can modify the same.	

Field	Description	
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 <b>Rate Type</b> option as <b>Flat</b> and <b>Link a Rule?</b> option as <b>Yes</b> .	
Rule	Displays the rule for the defined pricing.	
	User can modify the same.	
	This field appears once you select the <b>Rate Type</b> option as <b>Flat</b> and <b>Link a Rule?</b> option as <b>Yes</b> .	
The below field appears available as "Facts" in a	s if the rate type is updated as <b>Tiered</b> . The below columns are a drop down.	
User can modify the sa	me.	
<numeric feature=""> From</numeric>	Displays the minimum numeric value of feature to which the interest rate is applicable.	
	User can modify the same.	
<numeric feature=""> To</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.	
	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 <b>Rate Type</b> option as <b>Tiered</b> and <b>Link a Rule?</b> option as <b>No</b> .	
Rule	Displays the rule for the defined tier.	
	User can modify the same.	
	This field appears once you select the <b>Rate Type</b> option as <b>Tiered</b> and <b>Link a Rule?</b> option as <b>Yes</b> .	

## 9. Click **Save**, to update the modified fields.

10. Click View icon to view the created pricing model.

The fields are displayed in Pricing Model Maintenance screen.

#### Figure 220 : Pricing Model Maintenance – View

Pricing Model Maintenance				$_{\mu^{\mathrm{tf}}}$ $\times$
Basic Details				-
Pricing Code * PMSMBCAOD Effective Date * Mar 30, 2018 Product Processor * OBO	Pricing Description Priring Model for : Expiry Date * Dec 30, 2040 Priority * 1			
Selection Criteria     Price Definition     Use Existing Rule     Create New Rule				_
Rules Rule Code * SMBCA2		Rule Name Selection Criteria Rule for CAOD		
New				
Rules				
▲ Basic Info				
Code * SMBCA2 Rule Version 2 Q	Description Selection Criteria Rule for CAOD	Tag v	Select Existing rule	
Section1				
Expression				
IF ((CURRENCY == USD)  (CURRENC Output Section1 TRUE	Y == GBP )    ( CURRENCY == EUR )    ( CURF	RENCY == INR ) ) && ( PRODUCTCODE == Si	MBCA1)	

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

#### Table 187 : Pricing Model Maintenance – View - Field Description

Field	Description
Basic Details	



Field	Description
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.
6	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	
+ 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.
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.
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 <b>Rate Type</b> option as <b>Flat</b> and <b>Link a Rule?</b> option as <b>Yes</b> .
Rule	Displays the rule for the defined pricing.
	This field appears once you select the <b>Rate Type</b> option as <b>Flat</b> and <b>Link a Rule?</b> option as <b>Yes</b> .
The below field appears available as "Facts" in a	s if the rate type is updated as <b>Tiered</b> . The below columns are a drop down.
<numeric feature=""> From</numeric>	Displays the minimum numeric value of feature to which the interest rate is applicable.
<numeric feature=""> To</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 <b>Rate Type</b> option as <b>Tiered</b> and <b>Link a Rule?</b> option as <b>No</b> .
Rule	Displays the rule for the defined tier.
	This field appears once you select the <b>Rate Type</b> option as <b>Tiered</b> and <b>Link a Rule?</b> option as <b>Yes</b> .



# 2.54 View 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:

• 2.54.1 View Execution Summary

# 2.54.1 View Execution Summary

The **View Execution Summary** screen allows user to view the execution summary based on the various filter options provided.

To view execution summary:

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

 $\rightarrow$  The **Execution Summary** screen displays.

Figure 221 : View Execution Summary

earch Criteria							
Filter Select	*					R	eset Seard
coring Decision Summary	¥						
Product Processor	Request Type	Contract ID	Request Reference Number	Internal Reference Number	Execution Date	Mode	Status
▶ OFLO	Score, Decision & Pricing	123	O9yN6ghMD41P9yN6ghMD41Q9yN6ghMD41R9yN6ghMD41S	CD520211025152426597	Oct 25, 2021	ONLINE	FAILURE
▶ OFLO			WhoXmqcMD41XhoXmqcMD41YhoXmqcMD41ZhoXmqcMD4	CDS20211025152321123	Oct 25, 2021	ONLINE	ERROR
OFLO	Decision & Grade	123	OfNbcgWFD41PfNbcgWFD41QfNbcgWFD41RfNbcgWFD41Sf	CD520211025135544519	Oct 25, 2021	ONLINE	SUCCESS
OFLO	Decision & Grade	123	ISivHiyDD41JSivHiyDD41KSivHiyDD41LSivHiyDD41MSivHiyDD	CD520211025132220815	Oct 25, 2021	ONLINE	FAILURE
> OFLO	Decision & Grade	123	oOXQ8uRzD41pOXQ8uRzD41qOXQ8uRzD41rOXQ8uRzD41sO	CDS20211025123042142	Oct 25, 2021	ONLINE	FAILURE

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 <b>Filter</b> 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 <b>Execution Date</b> and value as <b>Date Range</b> .
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 <b>Execution Date</b> and value as <b>Date Range</b> .

3. 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 222 : Execution Summary - Search Option

+ -							
Filter	Value						
Decision	▼ Approved		v				
						R	eset Searc
						(	
Scoring Decision Sumn	nary						
Product Processor	Request Type	Contract ID	Request Reference Number	Internal Reference Number	Execution Date	Mode	Status
▶ OFLO	Score, Decision & Pricing	123	O9yN6ghMD41P9yN6ghMD41Q9yN6ghMD41R9yN6ghMD41S	CDS20211025152426597	Oct 25, 2021	ONLINE	FAILURE
OFLO			WhoXmqcMD41XhoXmqcMD41YhoXmqcMD41ZhoXmqcMD4	CDS20211025152321123	Oct 25, 2021	ONLINE	ERROR
	Decision & Grade	123	OfNbcgWFD41PfNbcgWFD41QfNbcgWFD41RfNbcgWFD41Sf	CDS20211025135544519	Oct 25, 2021	ONLINE	SUCCESS
OFLO	Decision of order						
<ul> <li>&gt; OFLO</li> <li>&gt; OFLO</li> </ul>	Decision & Grade	123	ISivHiyDD41JSivHiyDD41KSivHiyDD41LSivHiyDD41MSivHiyDD	CDS20211025132220815	Oct 25, 2021	ONLINE	FAILURE
		123	ISIvHiyDD41JSivHiyDD41KSivHiyDD41LSivHiyDD41MSivHiyDD oOXQ8uRzD41pOXQ8uRzD41qOXQ8uRzD41rOXQ8uRzD41rOXQ8uRzD41sO	CDS20211025132220815 CDS20211025123042142	Oct 25, 2021 Oct 25, 2021	ONLINE	FAILURE

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

Field	Description			
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.			

#### Table 189 : Execution Summary - Search option- Field Description

- 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, you have to click on to close the already open record and then the next record can be viewed. The widgets are arranged in the flow in which the execution is done and is indicated by showing the sequence 1, 2, 3 numbers in the top right corner. The widgets are clickable on hover the color of the widget changes to indicate the widget is clickable.
- 6. When the status of processed application is **Failure**, on click of the Failure message is displayed in the step that is failed. For example, in case of **Qualitative Score Model** is not resolved, then the error message is displayed in the **Qualitative Score Model** widget and the previous widget will show the data which was processed. Where in if the 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.



ew Execution Summary	4					
rch Criteria						
+						
Filter Decision	Y	Value ManualQueueA	v		Res	set Searc
oring Decision Summar	У					
oduct Processor	Request Type Contract IE	Request Reference Number	Internal Reference Number	Execution Date	Mode	Status
OBO	123	saljcpDEdc1taljcpDEdc1ualjcpDEdc1v	a13429e3-6740-4184-975c-6cc5eb218ce6	Aug 4, 2022	Online	Success
Description Status	Logicla Model For Home Loan 101 PASS	Requested Amount \$64400 Borrowing Capacity \$4.50	Score 80			
Quantitative Score	e	4 Decision and Grade 5 Model Code DMHL1001 Decision Matrix HL 1001 Decision Matrix HL 1001 Grade B	Pricing Pricing Model Code PRHL101 Description Pricing for Home Lean Manual Rate Type Thered Rate (%) 3.55	6		
] ово	123	wK5rK70rdc1xK5rK70rdc1yK5rK70rdc	8a8ba91e-fb3a-487a-b951-d5f07b9de0cd	Aug 4, 2022	Online	Succes
OBO	123	w2RaikJqdc1x2RaikJqdc1y2RaikJqdc	eed8263a-8cbf-4da5-9269-5afbc38980c7	Aug 4, 2022	Online	Succes
OBO	123	86PF4gvgdc196PF4gvgdc1a6PF4gvg	2865336b-3007-454f-980b-04dc0f93f779	Aug 4, 2022	Online	Succes
OBO	123	sOMzqyjgdc1tOMzqyjgdc1uOMzqyj	7774a49d-2d83-42ee-bc9c-611ce09894d7	Aug 4, 2022	Online	Success

# Figure 223 View Execution Summary

Table 190 : View Execution Summary Field Description

Field	Description			
Validation Model Widget	Displays the status of the validation model processed.			
Validation Model Code				
Displays the validation	model code, resolved for credit decision.			
The following fields app	pear 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 <b>Pass</b> , the color is shown as <b>Green</b> .			
	• For status, <b>Fail</b> the color is shown as <b>Red</b> .			
Borrowing Capacity Widget				
Displays the maximum	lendable amount that can be given for an application.			
The following fields appear in Borrowing Capacity widget.				



Field	Description
Eligibility Code	Displays the eligibility model code, resolved for calculating the borrowing capacity.
Description	Displays the eligibility model description, resolved for calculating the borrowing capacity.
Requested Amount	Displays the requested amount for the lending application.
Borrowing Capacity	Displays the maximum lendable amount that can be given for the application.
Qualitative Score Wid	lget
	credit score, post credit decision of the application. The following <b>itative Score</b> widget.
Scoring Model Code	Displays the scoring model code, resolved for credit decision.
	• When <b>Is Application Decision Required</b> is <b>Yes</b> , the application level decision scoring code is displayed.
	<ul> <li>When Is Application Decision Required is No, the applicant level decision scoring code is displayed.</li> </ul>
	• When <b>Is Application Decision Required</b> is <b>No</b> , and <b>Is</b> <b>Primary Applicant</b> is <b>No</b> , 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 <b>Is Application Decision Required</b> is <b>Yes</b> , the system performs the aggregation, which can be minimum, maximum or average of all applicant's score. The aggregation performed is defined as rules and linked at the application level scoring model and this aggregated score is displayed.
	• When <b>Is Application Decision Required</b> is <b>No</b> , the score is displayed by resolving the applicant level scoring model.
	• When <b>Is Application Decision Required</b> is <b>No</b> , and <b>Is</b> <b>Primary Applicant</b> is <b>No</b> , the system performs the aggregation, which can be minimum, maximum or average of all applicant's score. The aggregation performed is defined as rule and linked at the application level scoring model and this aggregated score is displayed.
Quantitative Score W	idget

# ntitative Score Widget

Displays the quantitative credit score post credit decision of the application. The following fields appear in Quantitative Score widget.



Field	Description
Scoring Model Code	Displays scoring model code, resolved for credit decision.
	• When <b>Is Application Decision Required</b> is <b>Yes</b> , the application level decision scoring code is displayed.
	When Is Application Decision Required is No, the applicant level decision scoring code is displayed.
	<ul> <li>When Is Application Decision Required is No, and Is Primary Applicant is No, the multi applicant level scoring code is displayed.</li> </ul>
Description	Displays the scoring model description, resolved for credit decision.
Score	Displays the quantitative credit score, post credit decision of the application.
	• When <b>Is Application Decision Required</b> is <b>Yes</b> , the system performs the aggregation, which can be minimum, maximum or average of all applicant's score. The aggregation performed is defined as rules and linked at the application level scoring model and this aggregated score is displayed.
	• When <b>Is Application Decision Required</b> is <b>No</b> , the score is displayed by resolving the applicant level scoring model.
	<ul> <li>When Is Application Decision Required is No, and Is Primary Applicant is No, score is displayed by resolving the multi applicant level scoring model.</li> </ul>
<b>Decision and Grade V</b> Displays the credit deci appear in <b>Quantitative</b>	ision and scoring grade, taken for the application. The following fields
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 applic Score widget.	cable post credit decision. The following fields appear in <b>Quantitative</b>
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 you click the **Validation Model** widget. The details for the request which was clicked on the landing page is displayed.

Figure 224 : Validation Model Widget

ternal Reference Number					Search			
Product Processor	Request Type	Contract ID	Request Re	ference Number	Internal Reference Number	Execution Date	Mode	Status
OBO		123	saljcpDEdc1	taljcpDEdc1ualjcpDEdc1v	a13429e3-6740-4184-975c-6cc5eb218ce6	Aug 4, 2022	Online	Success
Validation Mode PASS	el 🖉	Borrowing Capa 4.50	city	Qualitative Score 80	Quantitative Score 90.5	Decision & Grade ManualQueueA Grade : B		ricing .55 %
Validation Model Co	de :LGMHL101			Description :Logicla Model Fo	or Home Loan 101	Status : PASS		
Rule ID			Se	quence	Status	Severity		
Rule1001 🚯			1		PASS			

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.



Field	Description			
Status	Displays the status of the application.			
	This field is shown on click of each widget.			
The following fields appea	r once you click the Validation Model widget.			
<validation model<br="">Code&gt;</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 <b>Reason &lt;&gt;</b> .			
	The options are:			
	<ul> <li>Pass</li> <li>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.</li> </ul>			



The following fields are displayed once you click the **Borrowing Capacity** widget.

Figure 225 : Borrowing Capacity Widget

roduct Processor	Request Type	Request Reference	Number	Internal Reference Number	r Execution Date	Mode	Status
FLO	Score, Decision & Pricing	yXIMS7jtD41zXIMS	7jtD41AXIMS7jtD41BXIMS7jtD41CXIMS7jtD	CD520211025105859136	2021-10-25T05:28:59.594Z	ONLINE	SUCCESS
Logical Model		ng Capacity 35.03	Qualitative Score 70	Quantitative Score 364.3	Decision & Grade Manual - Queue A Grade : B		sing %
Eligibility Code : BO	RCAP001		Eligi	bility Description : BORCAP001			
Requested Amount 35000		Borrowing 5135.03	Capacity	Fact MaxLendAmt	Rule ID BRCAP10 (1		

Field	Description
The following fields appea	rs 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.



Field	Description
Show Rule Log	Click to see the rule log.
•	Click to expand the rule.
Expression	Displays the expression of the rule.
Input	Displays the input of the rule.
Value	Displays the value of the rule.

The following fields are displayed once you click the **Qualitative Score** widget.

Figure 226 : Qualitative Score Widget – Bar Graph View



Figure 227 : Qualitative Score Widget – Pie Graph View

Logical Model PASS	Borrowing Capa 5135.03	city Qualitative Score 70	Quantitative Score 364.3	Decision & Grade Manual - Queue A Grade : B	Pricing 6 %
Scoring Model Code : A	APCT311	Description : Qualitative scoring r	nodel APCT311	Weightage Score : 70 🚺	
pplicants Mrs Amy A Anderson Score : 70	Mrs Amy A Anderson Graph View Data View	Scoring Model Code : APCT311	Description : Qualitative scoring	model APCT311 Weightage Scor	re : 🔟
		33.3%	1.3	<ul> <li>Number of years the applicant Basisters Type</li> <li>How many years in current</li> </ul>	cant staying at present address t employment



Figure 228 : Qualitative Score Widget – Data View

	Request Type	Request Reference	e Number	Internal Refere	nce Number	Execution Date	Mode	Status
FLO	Score, Decision & Pricing	yXIMS7JtD41zXIM	57jtD41AXIMS7jtD41BXIMS7jtD41CXIMS7jtD	CDS202110251	05859136	2021-10-25T05:28:59.594Z	ONLINE	SUCCESS
Logical Model Borrowing Capacity PASS 5135.03						on & Grade Ial - Queue A Grade : B	Pricing 6 %	
Scoring Model Code :	APCT311		Description : Qualitative scoring model APCT3	11	Weigh	ntage Score : 70 🕚		
Applicants	Mrs Amy A Anderson	Scori	ng Model Code : APCT311	Description : Qualitative scoring	model APCT311	Weightage Sco	ore : 70 🚯	
Mrs Amy A Anderson Score : 70	Graph View Data View							
	Scoring Details							
	Question Code		Juestion			Value	Sco	re
	AgeOfResidence		Number of years the applicant staying at present address		Less than 2 year		70	
	TypeOfResident		Applicant Resident Type		Rented		70	
	TypeOfResident	1						

Table 193 : Qualitative Score Widget - Field Description	
----------------------------------------------------------	--

Field	Description
The following fields appea	rs in <b>Qualitative Score</b> widget.
<scoring code="" model=""></scoring>	Displays the scoring model code resolved for credit decision.
	• When <b>Is Application Decision Required</b> is <b>Yes</b> , the application level decision scoring code is displayed.
	• When <b>Is Application Decision Required</b> is <b>No</b> , 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.



Field	Description			
Weightage Score/Application Score	Displays the qualitative credit score post credit decision of the application.			
	• When <b>Is Application Decision Required</b> is <b>Yes</b> , the field name is displayed as <b>Application Score</b> . The system performs the aggregation, which can be minimum, maximum or average of all applicant's score. The aggregation performed is defined as rules and linked at the application-level scoring model and this aggregated score is displayed.			
	• When <b>Is Application Decision Required</b> is <b>No</b> , the field name is displayed as <b>Weightage Score</b> . The score is displayed by resolving the applicant level scoring model.			
	• When Is Application Decision Required is No, and Is Primary Applicant is No, the field name is displayed as Application Score. The system performs the aggregation, which can be minimum, maximum or average of all applicant's score. The aggregation performed is defined as rules and linked at the application-level scoring model and this aggregated score is displayed			
0	Click to get the information about the formula for calculation of score.			
Applicant details are show	n 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 shown a	t 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.			
Description	Displays the applicant scoring model description.			
Weightage Score	Displays the weighted credit score post credit decision of the application.			
6	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.			
	$\circ$ List of question ID on the <b>X</b> -axis			
	• Score on the <b>Y</b> -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, <b>NA</b> will be displayed.			

The following fields are displayed once you click the **Quantitative Score** widget.



Logical Model       Borrowing Capacity       Qualitative Score       Quantitative Score       Decision & Grade : B       Pricing         Scoring Model Code : APP502       Description : APP502       Weightage Score : Scills ©       6 %         Applicants       Mrs Amy A Anderson       Scoring Model Code: APP502       Description : APP502       Weightage Score : Scills ©         Mrs Amy A Anderson       Scoring Model Code: APP502       Description : APP502       Weightage Score : Scills ©         Score : 264.3	roduct Processor	Request Type	Request Reference I	Number		Internal Reference Number	Execution Date	Mode	Status
Instance     Standing     To     364.3     Manual Results     Grade : B     6 %       Scoring Model Code: APP502     Description: APP502     Weightage Score: Sets 0	FLO	Score, Decision & Pricing	yXIMS7jtD41zXIMS7	tD41AXIMS7jtD41BXIMS7jtD41CXIMS7jtD	1	CDS20211025105859136	2021-10-25T05:28:59.594Z	ONLINE	SUCCESS
pplicants Mrs Any A Anderson Scoring Model Code: APP502 Description : APP502 Weightage Score : 1933 0 Mrs Any A Anderson Score : 1964 3 Score : 1964 3 Using View Data View D						icore			
Mrs. Ann/a Anderson Score : 364.3	Scoring Model Code : A	APP502		Description : APP502		Weightag	e Score : 364.3 1		
	Mrs Amy A Anderson	Graph View Data View	s	Scoring Model Code: APP502	Descrij	ation : APP502	Weightage Score : <mark>364.3</mark>	]0	
40		200 80 160 86 120 86 120 86 20							■ Medium ■ Strong ■ Weak

Figure 229 : Quantitative Score Widget – Bar Graph View



oduct Processor	Request Type	Request Referen	nce Number	Internal Reference N	lumber Execution Date	Mode Statu	
OFLO Score, Decision & Pricing yXIMS7jtD41		yXIMS7jtD41zXII	IMS7jtD41AXIMS7jtD41BXIMS7jtD41CXIMS7jtD	CDS2021102510585	9136 2021-10-25T05:28:59.594Z	ONLINE SUCCE	
Logical Model PASS	Borrowing 513		Qualitative Score 70	Quantitative Score 364.3	Decision & Grade Manual - Queue A Grade : B	Pricing 6 %	
Scoring Model Code : A	APP502		Description : APP502		Weightage Score : 364.3 0		
pplicants	Mrs Amy A Anderson		Scoring Model Code: APP502	Description : APP502	Weightage Score : 364.	0	
Mrs Amy A Anderson Score : 364.3	Graph View Data View						
	ini 😵						
			0.303% - 3.03% -	6.62%			
						<ul> <li>EmploymentType</li> <li>FICOScore</li> </ul>	
						<ul> <li>Net Income Descriptio</li> <li>Age Description</li> </ul>	

Figure 231 : Quantitative Score Widget - Data View

NO     Score, Decision & Pricing     yXIMST/pD412XIMST/p0412XIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIMST/p041XXIIISTICAL XIISTICAL XIISTIC	oduct Processor	Request Type	Request Referen	ce Number					Execution Date	Mode	Status
TASE     Solarity     Solarity<	LO	Score, Decision & Pricing	yXIMS7jtD41zXIN	/IS7jtD41AXIMS7jtD418	8XIMS7jtD41CXIMS7jtD				2021-10-25T05:28:59.594Z	ONLINE	SUCCESS
pplicants Mrs Any A Anderson Scoring Model Code: APPS02 Description : APPS02 Weightage Score : SetS O Mrs Any A Anderson Graph View Data View Data View Code: APPS02 Description : APPS02 Description							Score				
Branch Anderson Score: 364.3         Oraph View         Data View           Score: 364.3         Score: 364.3         Main Anderson         Range Type         Range Type         Range Type         Score: 364.3	Scoring Model Code : A	PP502		Description	n : APP502			Weightage Score :	364.3 0		
Score: 364.3         Score         Value         Range Type	pplicants	Mrs Amy A Anderson		Scoring Model Coo	le: APP502	Descr	iption : APP502		Weightage Score :	364.3 0	
Feature         Value         Range Type         Range         Weightinge %         Score         Weightinge Score           EmploymentType         Full Time         Value         Full Time         25         70         17.5           FICOScore         970         MaxValue         700-999         35         660         238		Graph View Data View									
EmploymentType         Full Time         Value         Full Time         25         70         17.5           FICOScore         970         Max/alue         700-999         35         660         238		Scoring Details									
RCOScore 970 Max/blue 700-999 35 660 238		Feature		Value	Range Type	Range		Weightage %	Score	Weightage Score	
		EmploymentType		Full Time	Value	Full Time		25	70	17.5	
Net Income Description         13700.0         Value         5000-50000         20         40         8		FICOScore		970	MaxValue	700-999		35	680	238	
		Net Income Description		13700.0	Value	5000-50000		20	40	8	



Table 194 :	Quantitative	Score Widget	- Field Description
-------------	--------------	--------------	---------------------

Field	Description
The following fields appear	rs in <b>Quantitative Score</b> widget.
<scoring code="" model=""></scoring>	Displays the scoring model code resolved for credit decision.
	• When <b>Is Application Decision Required</b> is <b>Yes</b> , the application level decision scoring code is displayed.
	• When <b>Is Application Decision Required</b> is <b>No</b> , 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 <b>Is Application Decision Required</b> is <b>Yes</b> , the system performs the aggregation, which can be minimum, maximum or average of all applicant's score. The aggregation performed is defined as rules and linked at the application level scoring model and this aggregated score is displayed.
	<ul> <li>When Is Application Decision Required is No, the score is displayed by resolving the applicant level scoring model.</li> </ul>
	• 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 <b>Is Application Decision Required</b> is <b>Yes</b> , system displays the hyperlink on the weightage score value. It shows the aggregate rule details.
Applicant details are show	n at the left panel.
<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 shown a	I 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
	<ul> <li>If Is Application Decision Required is No, and Is Primary Applicant is Yes</li> </ul>
	Multi applicant level scoring model is applicable in the below case.
	<ul> <li>If Is Application Decision Required is No, and Is Primary Applicant is No</li> </ul>
	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.
	<ul> <li>List of features on the X-axis</li> </ul>
	<ul> <li>Weightage Score on the Y-axis.</li> </ul>
	Based on the evaluation of the category, the feature are shown in a particular color based on the maintenance done in the lookups screen.
	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.



Field	Description
Weightage %	Displays the weightage defined for the feature in the scoring model.
Score	Displays the score calculated for the feature based on the range and feature value.
Weightage Score	Displays the weighed credit score post credit decision of the application.

The following fields are displayed once you click the **Decision and Grade** widget.

### Figure 232 : Decision and Grade Widget

iduct Processor	Request Type Score, Decision & Pricing	Request Reference Nu	HIDEI 41AXIMS7jtD418XIMS7jtD41CXIMS7jtD	CDS202110251		Execution Date 2021-10-25T05:28:59.594Z	Mode	Status
Logical Model	Borrowing ( 5135J	Capacity	Qualitative Score 70	Quantitative Score 364.3	Der	cision & Grade	F	ricing 6 %
Model Code : DGM503		Model Description :	DGM503	Decision: Manual - Queue A		Grade : 8		
Decision								
QuantitativeScore	Quantitative	core Range	QualitativeScore	QualitativeSo	core Range	Decision		
364.30	0-5000		70.00	0-500		Manual - Qu	eue A	
Grade								
QualitativeScore	Qualitative	Score Range	QuantitativeSc	ore	QuantitativeScore R	lange	Grade	)
70.00	0-500		364.30		0-5000		В	

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

Table 195 : Decision and Grade Widget - Field Description

Field	Description
The following fields appea	rs in <b>Decision and Grade</b> 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.



Field	Description
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.
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	1
<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 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.



Field	Description
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 233 : Pricing Widget

	Request Type	Request Reference Nurr	ber	1	nternal Reference Number	Execution Date	Mode	Status
0	Score, Decision & Pricing	yXIMS7jtD41zXIMS7jtD4	1AXIMS7jtD41BXIMS7jtD41CXIMS7jtD	(	DS20211025105859136	2021-10-25T05:28:59.594Z	ONLINE	SUCCE
Logical Model PASS	Borrowing C 5135.0		Qualitative Score 70	Quantitative Se 364.3		ecision & Grade Manual - Queue A Grade : B		icing \$%
Pricing Model Code : PR50	02	Model Descriptio	1 : PR502	Rate Type : Tier	ed	Rate Percentage : 6 %		
LoanAmount	LoanTenun	:	LoanAmount Range		LoanTenure Range		Rate %	
5135.03	45		0-10000		0-64		6	

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

Table 196 : Pricing Widget - Field Description

Field	Description
The following fields appea	rs in <b>Pricing</b> widget.
<pricing code="" model=""></pricing>	Displays the pricing model code resolved for credit decision.
	Click the hyperlink to view the rule executed to resolve the pricing model.
Show Rule Log	Click to see the rule log.
•	Click to expand the rule.
Expression	Displays the expression of the rule.
Input	Displays the input of the rule.
Value	Displays the value of the rule.
Model Description	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.



Field	Description
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.



# 3 NLP Framework

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

### Pre-requisites

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

This section contains the following topics:

- 4.1 Toolkit
- 4.2 Operation
- 4.3 3P Service Integration

## 3.1 Toolkit

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

This section contains following subsections:

- 3.1.1 Use Case Definition
  - 3.1.1.1 Use Case Definition Summary
  - 3.1.1.2 Use Case Definition Maintenance
- 3.1.2 Annotator
- 3.1.3 Model Training
- 3.1.4 Model Management
  - 3.1.4.1 Model Management Summary
  - 3.1.4.2 Model Management Maintenance

## 3.1.1 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.



## 3.1.1.1 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 234: Use Case Definition

ecase Name: : esting Service	Usecase Name: Loan DrawDown	Usecase Name: : Salary_Data	Usecase Name: ACH Payment Authoriza	Usecase Name: 3 checkbook request	
id No: 2	Mod No: 6	Mod No: 3	Mod No: 5	Mod No: 7	
🕽 Rejected 🔒 Open 🗹 2	🗋 Authorized 🔒 Open 📝 6	🗋 Authorized 🔒 Open 🖉 3	🗋 Authorized 🔒 Open 🛛 5	🗋 Unauthorized 🔒 Open 🗹 7	
ecase Name: Dr Chinese	Usecase Name: Open NLP check book t	Usecase Name: : Test Use Case			
nd No: 1	Mod No: 1	Mod No: 1			
Authorized 🔒 Open 🖉 1	🗋 Authorized 🔒 Open 🗹 1	🗋 Unauthorized 🔒 Open 🖉 1			

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

#### Table 197: 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.



## 3.1.1.2 Use Case Definition Maintenance

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

Figure 235: Use Case Definition Maintenance

g Mainter	nance				2
New	v Unlock Delete				Authori
iness Ta	g Maintenance				
e Case Nar	me	Description	Mod No	Straight TI	nrough Processing No
					+ .
	Tag Display Sequence	Tag Screen Display	Tag Name	Annotation Tag	Default Value
	3	Invoice Due Date	invoiceDueDate	Y	
	15	"Buyer Division Code	buyerDivisionCode	-	Y
	8	Currency	currency	Y	
	20	"External Branch BIC	externalBranchBIC	-	Y
	10	Tax Amount	taxAmount	Y	
Page 1	1 (1-5 of at least 30 items) K <	1 2 3 4 5 6 ≻ ⋊			

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

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

Table 198: Tag Maintenance – Field Description



## 3.1.2 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 236: Annotator

LOAN DRAW DOWN
Description: USD 550 Million Credit Facilities
Date
Effective 17 311 19 Borrower Collarun Corporation IIIC has elected to borrow under the Tranche B
Term Loan Facility for a total of <u>CETETE, 555, 555, 555, 555</u> Please see details below:
Amount

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

- 1. From Home screen, click Machine Learning. Under Machine Learning, click NLP Toolkit.
- 2. Under NLP Toolkit, click Annotator.
  - $\rightarrow$  The **Annotator** screen is displayed.

Figure	237:	Ann	otator
--------	------	-----	--------

Annotator							$_{\pi }^{u}$
Action Type	Source File Defini	tion	Doc	cument Type			
Create New Annotated File	Source File:	Source file name Select File	Se	lect	•	Get Labels	
Edit Created Annotated File	Annotated File:	Annotated File Name Select File		notated File Name: urce file name.txt		Create Training File	
Original File	Text Form		A	nnotations			
			1	Tag Name		Tag Value	
			N	o data to display.			
Document will appear here		Document converted to text will be displayed here					



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

Field	Description
Action Type	Select the action type. Available options are:
	Create New Annotated File
	Edit Created Annotated File
Source File Definition	Select the source document from local windows explorer based on the <b>Action Type</b> .
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	<ul> <li>Once annotations of all the Tags are completed, this will perform two outcomes,</li> <li>Create annotated text file in the defined NER train path as maintained under use case definition</li> </ul>
	<ul> <li>Create text file in the defined DOC train path as maintained under use case definition</li> </ul>

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.
- Click Select File button next to Source File field.
   The Windows Explorer popup screen displays.
- Navigate and select the source document to be annotated.
   The Original File section displays the source document and the Text Form section displays the text version of the document.
- 8. Click Get Labels.

The **Annotations** section displays all the maintained tags for the selected Document Type.



#### Figure 238: List of Tags

Annotator		$_{\mu^{st}}$ $\times$
Action Type	Source File Definition	Document Type
<ul> <li>Create New Annotated File</li> </ul>	Source File: chqbkreq.txt Select File	New Cheque Book Requ 🔻 Get Labels
Edit Created Annotated File		Annotated File Name: Create Training File chqbkreq.txt
Original File	Text Form	Annotations
	Hello,	Tag Name Tag Value
Hello,	Please issue me a new cheque book with 17 leaves. PF account no: 70100000001352	ACCOUNT NUMBER
Please issue me a new cheque book with 17 leaves. PF	a Thanks,	CHEQUE BOOKS
Thanks, NoName	NoName	CHEQUE LEAVES
		SENDER EMAIL

- 9. Identify and select the information within the Text Form section.
- 10. Right-click to display the list of tags.

#### Figure 239: Select Annotation Label

Annotator				$_{\mu}^{\mu}$ $\times$
Action Type	Source File Definition		Document Type	
Create New Annotated File	Source File: chqbkreq.txt	Select File	New Cheque Book Requ 🔻	Get Labels
Edit Created Annotated File	Annotated File: Annotated F	ile Name Select File	Annotated File Name: chqbkreq.txt	Create Training File
Original File	Text Form		Annotations	
	Hello,		Tag Name	Tag Value
Hello,	Please issue me a new cheque bo 7xxxxxxxx1	Select Annotation Label o	ACCOUNT NUMBER	
Please issue me a new cheque book with 17 leaves. PF Thanks,	a Thanks,	ACCOUNT NUMBER	CHEQUE BOOKS	
NoName	NoName	CHEQUE BOOKS	CHEQUE LEAVES	
		CHEQUE LEAVES	SENDER EMAIL	
		SENDER EMAIL		

11. Select the relevant tag.

The Annotations section displays the information under Tag Name and Tag Value.

#### Figure 240: Annotations

Annotator					2 ¹⁰
Action Type	Source File Definition			Document Type	
<ul> <li>Create New Annotated File</li> </ul>	Source File: chq	jbkreq.txt	Select File	New Cheque Book Requ 🔻	Get Labels
<ul> <li>Edit Created Annotated File</li> </ul>	Annotated File: An	notated File Name	Select File	Annotated File Name: chqbkreq.txt	Create Training File
Original File	Text Form			Annotations	
	Hello,			Tag Name	Tag Value
Hello,	Please issue me a new cheque book with 17 leaves. PF account no: 7xxxxxxxxx1			ACCOUNT NUMBER	7xxxxxxxxxx1
Please issue me a new cheque book with 17 leaves. PF	Thanks,		CHEQUE BOOKS		
Thanks, NoName	NoName	CHEQUE LEAVES	17		
				SENDER EMAIL	

- 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.



# 3.1.3 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 241: Model Training

Model Training					$_{\mu^{\theta'}}\times$
Model Training					
Model Type   NLP(NER)  Document Classification					
	Use Case Name	New Cheque Book Request	·		
1.2	Training Corpus Path				
	Run Reference				
Model Performance		Precision	Recall	F1-Score	
0.4	OVER ALL	0.9794	0.9597	0.9695	
0.0	Tag Name	Precision	Recall	F1-Score	
1 2 3 4 Folds	ACCOUNT NUMBER	0.9799	0.9605	0.9701	
- precision - recall - fiscore	CHEQUE BOOKS	0.9851	0.9296	0.9565	
	CHEQUE LEAVES	0.982	0.9561	0.9689	
				Train Model Save	Model
				Train Model Save	Model

#### Training NER Models:

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

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

#### **Training Document Classifier Model:**

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

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

The alternative is to add more annotated training files for the use case and repeat model training, till satisfactory parameters are achieved.



# 3.1.4 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:

- 3.1.4.1 Model Management Summary
- 3.1.4.2 Model Management Maintenance

## 3.1.4.1 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 242: Model Management Summary

Model Management				
۹ <b>C</b> +				
Usecase Name:	Usecase Name:	Usecase Name:	Usecase Name:	Usecase Name:
ChequeBkRq	updateAddress	chqr	Bank_Statement	corpinv
Mod No: 15	Mod No: 2	Mod No: 9	Mod No: 4	Mod No: 18
: N	: N	: N	: N	: N
🔓 Rejected 🔒 Open 🖉 15	🔁 Authorized 🔒 Open 🗹 2	🕒 Authorized 🔒 Open 🖉 9	🕒 Authorized 🔒 Open 🖉 4	🗋 Unauthorized 🔒 Open 🖉 18
Usecase Name:	Usecase Name: :	Usecase Name:	Usecase Name: :	Usecase Name:
PAYSLIP_ORIGINATION	OBPESign	cheqBookOpen	feeAgreementFlat :	payslipnew
Mod No: 23	Mod No: 14	Mod No: 2	Mod No: 1	Mod No: 10
: N	: N	: N	: N	: N
🗅 Authorized 🔒 Open 📝 23	Authorized 🔒 Open 🖉 14	🕒 Authorized 🔒 Open 📝 2	Authorized 🔒 Open 🗹 1	🗋 Unauthorized 🔒 Open 📝 10

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

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.

## Table 200: Model Management Summary – Field Description



## 3.1.4.2 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 243: Model Management Maintenance

ew Unlock Clos	e				
e Case Name pinven				Model Type	•
Run Reference	Precision	Recall	F1 score	Active	
				$\checkmark$	Tag Parameters
					Tag Parameters
			0.900		Tag Parameters
					Tag Parameters
					Tag Parameters

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

#### Table 201: 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 244: Tag Parameters

Case Name	Tag Parameters Detail				×	:
inv	Model Name corpinat	Name corption Model Type NER Run		Run Reference 2tW2:018	n Reference .2#W/DatL8	
un Reference	Tag Name	Precision	Recall	F1 Score		
	supplierName	0.954	0.932	0.943	^	Tag Parameters
	buyerCode	0.975	0.886	0.929		Tag Parameters
	Invoice Due Date	1	0	0		Tag Parameters
	noNumber	0 070	0.919	0.000		✓ Tag Parameters
					Close	Tag Parameters

At this stage you have defined a new use case with the tags/entities to be recognized by the model and trained and exported the use case model to be used by business.



# 3.2 Operation

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

This section contains following subsections:

- 3.2.1 Document Upload
- 3.2.2 Transaction Log

## 3.2.1 Document Upload

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

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

- 1. From Home screen, click Machine Learning. Under Machine Learning, click Operation.
- 2. Under Operation, click Document Upload.
  - → The **Document Upload** screen is displayed.

#### Figure 245: Document Upload

Document Upload				2 ¹⁶ ×
Scan and Upload Document				
± Select File		Document Type		Upload
		Corporate Invoice	<b>•</b>	Upioad
Ankita_Sample_9.pdf				
Original Document				
				<u>^</u>
			Tumber Gump Ltd.	
			2135 Ekloredo D.,	
			Billings, MT, 59102	
			Phone- 106) 245-4207 Emailker@omeg.rc.com	
	BILL TO	SHIP TO		
		curt Smith	Invoice No. # - +56202	
	Vancouver Logistics Ltd. 509 F 19th St M.	4065 reton Ct, tonn, CA, 95540	Invoice Date - 15/09/2018 PO No. # - PO552091	
		Phone: (209) 763-2717	PO Date - 15/09/2018	
	PT	Email carry chilth@vane.com	Due Date - 20/10/2017	

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



# 3.2.2 Transaction Log

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

You can filter the displayed transactions based on the following:

- Document Type
- Status

To process this screen, perform the following steps:

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

 $\rightarrow$  The **Transaction Log** screen is displayed.

#### Figure 246: Transaction Log

ument Type	Stat	us	* <b>t</b>				
Processing D	ashboard						
Document Id	Document Type	Model Ref	Processing Date	Status	Failure Reason	Train. Reqd	Tag Value(s)
92	chqr-New Cheque Book Request			PROCESSED		Ν	
91				ERROR	Unable to complete Intent Processing	Υ	
90	chqr-New Cheque Book Request		23/10/2020	PROCESSED		Ν	
89	chqr-New Cheque Book Request			PROCESSED		N	
88	chqr-New Cheque Book Request			PROCESSED		N	
87	chgr-New Cheque Book Request			PROCESSED		N	

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

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

Table 202: Transaction Log – Field Description

_



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

#### **Execution Flow**

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

#### Figure 247: Execution Flow

ument Type		Status	<b>.</b>	0		
Processing D	ashboard	Process Log				×
Document Id	Documen					Tag Value(s)
92	chqr-New	File	Processing	Request Classification	Data Extraction	
91						
90	chqr-New	Process	Status	Start Time	End Time	
89	chgr-New	File Processing	SUCCESS		Oct 23, 2020 3:42:14 PM	
88	chqr-New	Data Extraction	SUCCESS	Oct 23, 2020 3:42:16 PM	Oct 23, 2020 3:42:17 PM	
	chgr-New	Request Classification	SUCCESS		Oct 23, 2020 3:42:16 PM	

### **Processed Status**

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

Figure	248:	Processed	Status
--------	------	-----------	--------

	<ul> <li>PROCESSED</li> </ul>				
		Tag Name	Value		
Processing Dashbo	ard	discountAmount	<u>n</u>		
		invoiceDate			
	e Name	invoiceDueDate		n Buss. Ref	Tag Value(s)
029 ⁻²⁰¹	and the second second	invoiceNumber			
	and a state of the state	netInvoiceAmount			
and the second second	and a state of the state	Page 2 of 3 (6-10 of 14 items) K < 1 2 3	к		
And the second second	er anne sent				
	and a second pro-				



#### **Error Status**

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

#### Figure 249: Error Status

ocument Type		Status						
idwdn-Loan DrawDe	own 🔻		-					
Processing Dask	hboard							
Processing Dasl	hboard							
		Document Tune	Model Pef	Processing Date	Statue	Esilure Peacon	Russ Paf	Tag Value(s)
Processing Dasl	hboard File Name	Document Type	Model Ref	Processing Date	Status	Failure Reason	Buss. Ref	Tag Value(s)
		Document Type	Model Ref	Processing Date	Status		Buss. Ref	
Document Id	File Name			-		Failure Reason	Buss. Ref	Tag Value(s)

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 250: Annotator

Annotator				$\times ~^{\varkappa}\kappa$
Action Type	Source File Definition		Document Type	
○ Create New Annotated File	Source File: Source File Name	Select File	Corporate Invoice 🔹	Get Labels
Edit Created Annotated File     Error Correction	Annotated File: Annotated file nam	Select File	Annotated File Name:	Create Annotated File
• Error correction	Retrieved Doc Id:	Get File	53608 txt	
Original File	Text Form		Annotations	
П Р 1 of 1 — + »	Soylent Ltd. Invoice No.# = 80KP2819	^	Tag Name Tag Value	Start End
	Invoice Date 11/09/2014 6 Theatre Street, PO No. # 9JK67021		Buyer Code 18302	220 225
Intesie No. #	Altoona, PA 16601 PO Date 27/09/2014 Phone (641) 7919080 Due Date 16/10/2014		Invoice Date	
Annosa, Milling Annosa, Millin	Email herbs.gill@vanc.com BILL TO Buyer 12202 Musarc Corp Ltd. 4955 Teton Ct	<b>a</b>	Tax Percentage	_
Super 1932 Super 1 Manar Gare 141 Subal Lenger 1 Alla Streve Super 1 Manadatan et Jacob Manadatan et Jacob Manadatan et Jacob	Amy Taylor 4065 Teton Ct, Stroudshurg, PA 18860	<u> </u>	Amount	~



# 3.3 **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:

- 3.3.1 Classification Training Service
- 3.3.2 NER Training Service
- 3.3.3 Classification Processing Service
- 3.3.4 NER Processing Service
- 3.3.5 Service Mapping
- 3.3.6 Business Service Mapping

# 3.3.1 Classification Training Service

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

### Input Payload

#### Table 203: 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"

## 3.3.2 NER Training Service

This section elaborates the payload details for NER model training service.

#### **Input Payload**

#### Table 204: 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:

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



# 3.3.3 Classification Processing Service

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

### **Input Payload:**

#### Table 205: Input Payload

name	in	type	required	Remarks
modelPath	formData	string	true	The path to the classification model
file	formData	File	true	The text file which must be classified

- name: "modelPath"

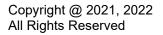
in: "formData" type: string required: true - name: "**file**" in: "formData" type: file required: true

## **Output Payload**

```
{
    "data": {
    "docType": "string"
    }
}
```

### Output Payload data model definition

MltbNlpDTO: type: object properties: data: properties: docType: type: string





# 3.3.4 NER Processing Service

This section elaborates the payload details for NER model processing service

### Input Payload:

### Table 206: 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

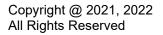
name: "modelPath" in: "formData" type: string required: true
name: "file" in: "formData" type: file required: true

### **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

# 3.3.5 Service Mapping

After creation of the model services, entries must be made into the table CMC_TM_ML_SERVICE_DEFN to enable the NLP framework to use these services.

## Existing use case:

Update the highlighted column in table CMC_TM_ML_SERVICE_DEFN with the new service API.

Column name	Remarks	Model Training	Model Processing
ID	Unique ID		
USECASE_NAME	Use Case Name	<existing case="" use=""></existing>	<existing case="" use=""></existing>
DESCRIPTION	Use Case Description		
SERVICE_TYPE	Service Type	Training	Processing
SERVICE_DEFN	Mapped Service API	<new api="" service=""></new>	<new api="" service=""></new>
METHOD_TYPE	Method Type	POST	POST
APP_ID	Sub Domain ID		
RECORD_STAT	Record Status	0	0
AUTH_STAT	Authorized Status	А	А
MOD_NO	Modification Number	1	1
ONCE_AUTH	Once Authorized	Υ	Υ
MAKER_ID	Maker Name	SYSTEM	SYSTEM
MAKER_DT_STAMP	Maker Date stamp	<application date=""></application>	<application date=""></application>
CHECKER_ID	Authorizer Name	SYSTEM	SYSTEM
CHECKER_DT_STAM	Authorizer Date stamp	<application date=""></application>	<application date=""></application>

### Table 207: Existing Use Case



#### New use case

Insert a new record into the table CMC_TM_ML_SERVICE_DEFN.

#### Table 208: 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	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>		



# 3.3.6 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	209:	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' Service		
ADAPTER_CLASS	Fully qualified name of the adapter class	Use oracle.fsgbu.cmc.nlp.pipeline.services.adaptor.Gene ricAdaptor for all the business service calls Use oracle.fsgbu.cmc.nlp.pipeline.services.adaptor.OBR HAdaptor if you want to call business service via Oracle Banking Routing Hub		
SERVICE_DEFN	Mapped Service API	API, which will be called for Business service execution		
HEADERS	Comma separated headers key value separated by colon (:)	Eg : docld:123 , branchCode : 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	A
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.



# 4 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.

# 4.1 Use Case On-Boarding

On-boarding a new business case onto the Machine Learning framework involves two broad stages as highlighted below.

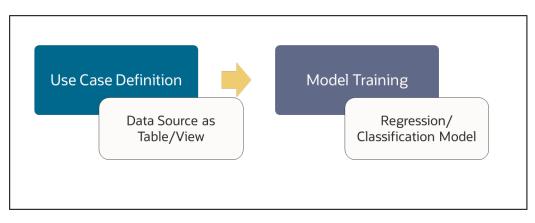
### **Model Definition**

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.





# 4.2 Frameworks Supported

# 4.2.1 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

# 4.2.2 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.



# 4.2.3 Regression

Regression is a statistical technique to discover relationships using independent variables to estimate/predict a target variable of NUMBER or INTEGER type.

Example: User needs to predict the value of LUXURY SPEND for a new CASE ID, given the data of branch, marital status, income and savings

CASE ID	BRANCH	MARITAL STATUS	INCOME	SAVING	LUXURY SPEND
12345	BRT	Y	15000	6723	1000
12346	BRT	Ν	17500	250	750
12347	CSR	D	25000	2654	1900
12348	CSR	Ν	16567	20	2500

NOTE: CASE ID MUST uniquely identify a row

## 4.2.4 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.



# 4.2.5 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	Ν	17500	250	1
12347	CSR	D	25000	2654	1
12348	CSR	N	16567	20	0

NOTE: CASE ID MUST uniquely identify a row

## 4.2.6 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.



# 4.3 Partitioned Model

Oracle in-Database machine learning allows the user to design partitioned models.

Partitioned model organizes and represents multiple models as partitions in a single model entity, enabling you to easily build and manage models tailored to independent slices of data.

Example:

CUSTOMER ID	BRANCH	MARITAL STATUS	INCOME	SAVING	LUXURY SPEND
12345	BRT	Y	15000	6723	1000
12346	BRT	Ν	17500	250	750
12347	CSR	D	25000	2654	1900
12348	GRF	Ν	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.



# 4.4 On-Boarding Use Case

# 4.4.1 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.

## 4.4.1.1 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 251: Model Definition Summary

Model Definition					
				■ =	
Usecase Name: RETEST1 Usecase Name: PRED_TXN_GAP	: Usecase Name: : clustTest1	Usecase Name: TEST13	Usecase Name: : RMSETest	Usecase Name: Test_Class	
Mod No: 4 Mod No: 9 Correlation: • Correlation: •	Mod No: 7 Correlation: •	Mod No: 2 Correlation: 😐	Mod No: 3 Correlation:	Mod No: 7 Correlation:	
🗞 Authorized 🔒 Open	💫 Authorized 🔒 Open	🗟 Unauthorized 🔒 Open	Authorized 🔒 Open	🗟 Unauthorized 🔒 Open	
Usecase Name: clustTest2 Usecase Name: MTEST1	: Usecase Name: : RegressionTest1	Usecase Name: : CLASS_DEMO_MRID			
Mod No: 7         Mod No: 1           Correlation: •         Correlation: •	Mod No: 6 Correlation: 9	Mod No: 2 Correlation: O			
🗞 Authorized 🔒 Open 🔹 🗞 Unauthorized 🔒 Op	n 📄 🗟 Unauthorized 🔒 Open	🗟 Unauthorized 🔒 Open			
Page 2 of 3 (11 - 20 of 30 items) K < 1 2 3	к				

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

#### Table 210: 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 orange colour for New records. On correlation validation in Model definition screen, it will change to green colour.	
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	



## 4.4.1.2 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 252: Model Definition Maintenance

Model Definition						"* ×
Use Case Name *	Description		Use Case Type * Select Usecase Type	¥		
Training and Scoring						
Product Processor * Select Product Processor   Target Column * Select Target Column	Training Data Source * Positive Target Value * Select Positive Target Value	Ŧ	Unique Case Identifier * Select Unique Case ID Tablespace	*		
Model Partitioning						
Partition Column Names Select Partition Column	Selected Algorithm Select Algorithm	v	Model Error Statistic * Select Model Error Statistic	Ŧ	Cost Matrix	Correlation
						Save Cancel

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

 Table 211: 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.	
Unique Case Identifier	Select the column name to uniquely identify a record. <b>NOTE:</b> Column name is a function of table/view design and has to have unique constraint defined	



Field	Description	
Target Column	Select the value of the column which is to be predicted by training the model. It has to have unique constraint defined <b>NOTE:</b> 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	
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 253: Cost Matrix

Cost Matrix				
Cost value is used to penalize	e misclassification or incorrect prediction			
Actual Value	Predicted Value	Cost		
0	0	0		
0	1	0		
1	0	0		
1	1	0		
		Cancel	Save	

- 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.

Unique Case ID			Corre	lated	Dependent Variable
CUST ID	BRANCH	MARITAL STATUS	INCOME	SAVING	CHURN
12345	BRT	Single	1500	6723	1
12346	BRT	Married	17500	250	0
12347	CSR	Married	25000	2654	0
12348	GRF	Divorced	16567	20	1
				J	

Independent Variables

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.

 $\rightarrow$  The **Correlation Analysis** screen is displayed.

## Figure 254: Correlation Analysis

Correlation Analysis				
Note - You should aim to have empty pairwise correlation by	adding to the Ignore columns list and i	teratively refreshing. Start by refreshing to g	et the latest position	
Threshold Value			Type Of Corre	lation
0	1 0.5	c	Pearson	🔾 Spearman 🔷 Kendall
Pairwise Correlation			Analysed Features	Ignore Features
# Feature 1	Feature 2	Correlation	No items to display.	No items to display.
No data to display.				> <
				Cancel OK

7. On **Correlation Analysis** screen, select the required fields. For more information on fields, refer to the field description table below.

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.
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.

## Table 212: Correlation Analysis – Field Description



- 8. Click c initiate the evaluation process.
  - → The Correlation Analysis Pairwise Correlation screen is populated.

#### Figure 255: Correlation Analysis - Pairwise Correlation

Threshold N		1 0.5 C			Type Of Corre Pearson		arman 🔿 Kendall
Pairwise	Correlation			Analysed Features			Ignore Features
*	Feature 1	Feature 2	Correlation	AGE			No items to display.
	Y_BOX_GAMES	AGE	-0.72639	HOME THEATER PACKAGE			
	Y_BOX_GAMES	YRS_RESIDENCE	-0.58853	Y_BOX_GAMES			
	Y_BOX_GAMES	HOME_THEATER_PACKAGE	-0.77005			>	
	AGE	YRS_RESIDENCE	0.65503	YRS_RESIDENCE		~	
	AGE	HOME_THEATER_PACKAGE	0.79938	FLAT_PANEL_MONITOR		-	
	YRS_RESIDENCE	HOME_THEATER_PACKAGE	0.62899	BULK_PACK_DISKETTES			
	BULK_PACK_DISKETTES	FLAT_PANEL_MONITOR	0.87842				

- 10. Move ONE of the Analyzed Features to Ignore Features List
- 11. Click c and re-evaluate Correlation as mentioned in Step 8.
- 12. Rinse & repeat Step 9 & 10 for each feature addition to the **Ignore feature** list, until **Pairwise Correlation** displays zero correlated pair.
- 13. Attempting to exit the screen midway without achieving zero Pairwise Correlation, will display the following error message.

#### Figure 256: Error Message

14.



- 15. After successful **Correlation Evaluation**, the orange highlight on the **Correlation** button is removed.
- 16. 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.

- 17. Click Model Metrices tab to view the Model Metrices details.
  - → The Model Metrices screen is displayed.

### Figure 257: Model Metrices

Model Definition	
Use Case Setup Model Metrices	
Model Metrices	
Model Partitions *	
Metrices	Value
Model Name	
Algorithm	
YRS_RESIDENCE	
AUC	

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

Field	Description
Model Partitions	Select the model partitions from the dropdown. If the model has been designed to have partitions, it will display the partitioned values based on underlying data of the defined partition column else display FULL MODEL.
Metrices	Displays the various model attributes, as per the best model identified and trained. The number of model attributes is a function of algorithm and underlying pattern of data Some attributes are common for all models, Model Name Algorithm INF_TIME (Inference Time) <model metric="">(Train) <model metric="">(Test)</model></model>
Value	Displays the value of the attribute.



# 4.4.2 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.
  - $\rightarrow$  The **Model Training and Scoring** screen is displayed.

## Figure 258: Model Training and Scoring

Model Training And Scoring				
Nodel Training and Scoring				
Use Case Name Select Usecase Name	Description	Use Case Type		
Model Training				
Training Data Source Partition Column(s)	Unique Case Idenifier	Target Column Train Model		
Model Batch Scoring				
Model Name		Batch Scoring		

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

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.



Field	Description
Model Batch Scoring	
Model Name	Displays the name of the model.

- 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.

# 4.5 Online Single Record Prediction

This is made available as a REST API and allow you to predict for a single record. The predictions do not persist in the database.

These can be invoked directly from application user interface, to retrieve and display the results.

The explainability of the model outcome is also made available.

# 4.6 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 215: Use Case Modifications

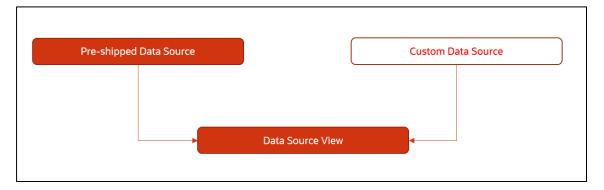
Use Case Modification	Model Re-training Required	Correlation Analysis Required
Data Source replaced by another data source	Yes	Yes
New column Added to existing data source	Yes	Yes
New columns Added to custom data source	Yes	Yes
Existing column removed from existing data source	Yes	Yes
Selected Algorithm Changed	Yes	No
Model Error statistic Changed	Yes	No
Partition Column Name list altered (added / removed)	Yes	Yes



# 4.7 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 259: 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.

# 4.8 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



# 4.9 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.

# 4.9.1 Forecast REST Service

Timeseries framework is made available as an independent REST service to be consumed by products and use cases as required.

The following information is required to be provided.

Field	Description
Use Case Name	Specify the Unique Use Case Name.
Data Source	Specify the Table or View name used as data source to train the model.
Target Column	Specify the model will train and forecast future values of this column. NOTE: Column name is a function of table/view design
Unique Identifier	Specify the column name to uniquely identify a sequence <b>NOTE:</b> Column name is a function of table/view design. Must be Date or a sequence
Model Partitioning	Specify the column names to slice data. Refer Partitioned Model for details NOTE: Column name is a function of table/view design
Partitioned Value	Specify the actual Value of the Model Partition
Forecast Window	Specify the number of forecasts required as an outcome
Tablespace	Specify the valid tablespace and all model related data will be persisted in this table space

Table 216: Forecast REST Service – Field Description



# 5 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:

- 5.1 Facts
- 5.2 Rule

# 5.1 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:

- 5.1.1 Create Fact
- 5.1.3 View Fact

## 5.1.1 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.
- 2. Click **New** to create a single fact.
  - $\rightarrow$  The Create Fact screen is displayed.

#### Figure 260: Create Fact

reate Fact				28
New Bulk Upload				
Fact				
Code *	Description	Product Processor *	Туре *	
		OFLO	ARRAY	-

3. 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

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		

Table 217: Create Fact – Field Description

- 4. Click **Save** to save the details of fact.
- 5. Click Bulk Upload to create a multiple fact.
  - → The Create Fact- Bulk Upload screen is displayed.

### Figure 261: Create Fact – Bulk Upload

Create Fact
New Bulk Upload
Download Template
Drag and Drop
Select or drop files here.
Selected files:
Upload

6. Click on **Download Template** to get the sample file.





- 7. Fill all the Facts details to be created in the template file and save the file.
- 8. Click **Drag and Drop** and select the file from the browser.
- 9. Click Upload.

# 5.1.2 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 262: Create Fact – ENUM Type Fact

Create Fact					$_{\mu^{k}}$ $\times$
Fact					
Code *	Description *	Product Processor *		Tag	
USSTATE	US State Enum	OFLO	Q		
Type *					
ENUM					
+ 🖹					
California					
Cumorna					
NewYork					
V Texas					
Save					

3. 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 218: 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.



- 4. Click on the + icon to add the list of ENUM fact values.
- 5. Click on the icon to delete any of the list of ENUM fact values.
- 6. Click **Save** to save the details.

# 5.1.3 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 263: View Fact

ew Fact			(DEFAULTENTITY) f Bank Futura -Branch 000 ( A	
Product Processor OFLO				
Filter:				
Type to filter	×		(Right Click on Row to open Details) Refresh	
Fact Id	Fact Name	Description	Product Processor	
327	AGE	CUSTOMER AGE	OFLO	^
329	NETINCOME	CUSTOMER NET INCOME	OFLO	
331	EMPLOYMENTTYPE	EMPLOYMENT TYPE	OFLO	
333	PRODUCTCODE	BUSINESS PRODUCT CODE	OFLO	
335	INSTALMENT	PROPOSED LOAN INSTALMENT	OFLO	
363	TEST_FACT01	TEST FACT 01	OFLO	
397	fact001	test	OFLO	
399	fact002	test	OFLO	
401	FactTest1	FactTest1	OFLO	
403	RISK_GRADE	RISK GRADE FOR PRICING	OFLO	
421	applicant_score	applicant_score	OFLO	
501	FACT	FACT DESCRIPTION	OFLO	
345	ASSETS	OFLO ASSETS	OFLO	
347	LIABILITY	OFLO LIABLITY	OFLO	~

3. 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.

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.

### Table 219: View Fact – Field Description



- 4. Specify the Fact details in **Filter** textbox to filter the data.
- 5. Click **Refresh** to refresh the screen.
- 6. Right-click on the fact from the list and Click View Details.
  - $\rightarrow$  The **Fact Creation** screen is displayed.

### Figure 264: Fact Creation

Fact Creation				$_{\mu^{k'}}\times$
New Bulk Upload				
Fact				
Code *	Description *	Product Processor *	Tag	
FACT7	date fact	OFLO Q		
Type *				
DATE				
Save				

7. 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.

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		

 Table 220: Fact Creation – Field Description



# 5.2 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</li>
- 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:

- 5.2.1 Create Rule
- 5.2.2 View Rule
- 5.2.3 Evaluate Rule
- 5.2.4 Rule Group
- 5.2.5 Audit Rule

# 5.2.1 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.

 $\rightarrow$  The **Create Rule** screen is displayed.

## Figure 265: Create Rule

Create Rule				, ³¹ ²⁶ ×
New				+ Add Section
Rules				
A Basic Info				
Code *	Description	Product Processor *	Тад	v
Select Existing rule	Rule Version	٩		
Section1  Expression				
IF				
Output Section1				
Save				

2. 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 221: 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.
Тад	Select the tag from the drop-down list.
Select Existing Rule	Click <b>search</b> and select the existing rule.
Add Section	Click Add Section to create the multiple rule condition
Expression Builder	Select the expressions to build the rule.



Field	Description
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	<ul> <li>Select the data type for the fact or rule. Once you select the data type, the new field appears adjacent to the data type.</li> <li>Update the same based on the selected data type.</li> <li>The available options are: <ul> <li>Text</li> <li>Number</li> <li>Boolean</li> <li>Date</li> </ul> </li> </ul>
Output	Fact     Select the output from the drop-down list. Once you select     the output the new field encourse adjacent to the output
	<ul> <li>the output, the new field appears adjacent to the output.</li> <li>Update the same based on the selected output option.</li> <li>The available options are: <ul> <li>Text</li> <li>Number</li> <li>Boolean</li> </ul> </li> </ul>
	<ul><li>Date</li><li>Fact</li></ul>
Expression	Displays the expression and output updated in the expression builder.

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

# 5.2.1.1 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 266: Create Rule with Multiple Output

no Rule						
law .						
Rules						
# Resit tolo						
Code ¹⁴ Mangharitha, Done Liaint feating-cole Q	Devolption MultipletRise Demo Rule Version	Q	Product Processor * Q.		by v	+ Ant Sector
# Section1						
Esperation Builder						
fatt      totinome	• MUMBER •	20.000		AND *		
t tutte v tutterererererererererererererererererer	* MANER *	8,000				
Output						
+ 8 2 mm +	Bugble for loan		Loss Blokday			
2 NUMBER -	10,000		Amount As on Data			
Expression						
# ( Totalincoms > 20088 ) && (Totalincoms < 8800 ) ) Onput Section I Eliphine for Ioxx.10006.2022.07-06						
-						

## 5.2.2 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.
- 2. Under Rule, click View Rule.
  - → The View Rule screen is displayed.



### Figure 267: View Rule

w Rule				( DEFAULTENTITY)	Mar 26, 2020	
Product Proces	ssor					
Filter:						
Type to filter		×		(Right	Click on Row to open Details) Refresh	
Rule Id	Rule Name		Description		Product Processor	
725	RULE003		DESC003		OFLO	^
787	OFLORULE201		DESCRIPTION		OFLO	
829	testRule				OFLO	
848	rule123				OFLO	
850	testRule1		test		OFLO	
852	RuleTest01				OFLO	
860	PricingCreateTest01		PricingCreateTest01		OFLO	
862	RULEOBSTHR		OBS THRESHOLD RULE		OFLO	
892	DMSC101		DECISION MATRIX SELCTION CRITERIA FOR HC	DME LOAN 101	OFLO	
894	LTVDUMMTEST1		test		OFLO	
896	HomeLoanSelection		Home loan selection criteria		OFLO	
902	TESTDIVIDETEST		test		OFLO	
925	Min		Min of Applicant Score		OFLO	
927	GradematricTest		GradematricTest		OFLO	

3. 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 222: 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.

- 4. Specify the Rule details in **Filter** textbox to filter the data.
- 5. Click **Refresh** to refresh the screen.
- 6. Right-click on rules from the list and Click **View Details**.
- 7. Click **Edit** to edit the rule.
  - → The **Rule Creation** screen is displayed.



### Figure 268: Rule Creation

				+ Add Section
lles				
Basic Info				
Code *	Description	Product Processor	* Tag	
createmod	createmod	OFLO	Q,	
Select Existing rule	Rule Version			
	Q 1	Q		
Section1				
pression Builder				î
+ Add Expression				
+				
Facts V	OBP2NUMBER =	▼ NUMBER ▼ 321		
0.4-1				
Output				
+ =				
TEXT	▼ test	Enter Descript	ion	
Section2 pression Builder				÷
Section2 pression Builder + Add Expression				
pression Builder + Add Expression				
pression Builder + Add Expression	FICO_SCORE	▼ NUMBER ▼ 321		
+ Add Expression       • Add Expression       • (2) Facts	FICO_SCORE =	VUMBER V 321		
pression Builder + Add Expression	FICO_SCORE 3	▼ NUMBER ▼ 321		
+ Add Expression       • Add Expression       • (2) Facts	FICO_SCORE =	VUMBER V 321		
pression Builder  + Add Dynession				
pression Builder + Add Expression	FICO_SCORE =	▼ NUMBER ▼ 321	ion	
pression Builder  + Add Dynession			ion	
Pression Builder   Add Expression			ion	
pression Builder  + Add Dynession			ion	
Pression Builder   Add Dynession	▼ nest	Enter Descript	ion	
Pression Builder   Add Dynession		Enter Descript	ion	
Pression Builder  Add Expression	▼ nest	Enter Descript	ion	
Pression Builder   Add Dyression	▼ nest	Enter Descript	ion	
Pression Builder  Add Expression	▼ nest	Enter Descript	ion	
Pression Builder  Add Expression	▼ nest	Enter Descript	ion	

8. 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 223: Rule Creation – Field Description

Field	Description
Code	Specify the alphanumeric code without space for the rule.



Field	Description	
Description	Specify the description of the rule.	
Product Processor	Displays the product processor.	
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.

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



# 5.2.3 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": "reqId_1652082090755"

```
}
```

# 5.2.4 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

## 5.2.4.1 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 269: Create Rule Group

Create Rulegroup			د ۲۰
New			
Group Name *	Product Processor *	Tag	
Evaluate Group			
+ =			
No items to display.			
Save			

2. 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 224: 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.
Тад	Specify the tag for rule group.



Field	Description
Evaluate Group	Select the toggle to evaluate the expression in sequence.
	<b>NOTE:</b> If the toggle is disabled, the evaluation of the expression stops when the condition of expression is evaluated to <b>True</b> .
+ icon	Click this icon to add expression.

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

# 5.2.4.2 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.

 $\rightarrow$  The **View Rule Group** screen is displayed.

## Figure 270: View Rule Group

iew Rulegroup				( DEFAULTENTITY)	006 Branch ( 006) Mar 30, 2018		GAURA
Product Processor	Q	Tag	×				
Filter: Type to filter	×				ht Click on Row to open Detai	Is) Refresh	
Group Id No data to display.	Group Nam	e	Description	Pro	oduct Processor		

2. 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 225: View Rule Group – Field Description

Field	Description
Product Processor	Displays the product processor.
Тад	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.

Field	Description
Product Processor	Displays the product processor.

## 5.2.5 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.

 $\rightarrow$  The View Audit Rule screen is displayed.

### Figure 271: View Audit Rule

Request Id	Submit	1	Show Rule Log

2. Specify the details in the relevant data fields. For more information on fields, refer to the field description table below.

Table 226: 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.



# 6 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:

- 6.1 Text Extraction
- 6.2 Image Processing
- 6.3 Document Verification API Details
- 6.4 Validate Information API details
- 6.5 Recommendations for better performance



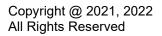
# 6.1 Text Extraction

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.





# 6.2 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.



# 6.3 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:

- 6.3.1 Passport Extraction
- 6.3.2 Driving License Extraction
- 6.3.3 National Identification Extraction
- 6.3.4 Voter Identity Card Extraction

# 6.3.1 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 227: 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:

"/extractInformation" API -

For a single image: Base64 encoded image, Country, Document Type ("passport" in this case).

**For multiple images**: Array of the Base64 encoded images, Country, Document Type ("passport" in this case).

## Sample Input Request:

```
{
    "country": "UAE",
    "docType": "passport",
    "docBase64s": [
        "-----base64 encoded image string------"
]
```

}

**Note:** In case of USA, there are 2 types of document: passport and passport-card. If the input document is of type passport-card, the docType should be mentioned as passport-card.



### **Output Response:**

The output of "/extractInformation" API is the extracted details in the JSON format given below:

Sample Output Response:

```
{
   "documentDetails": [
      {
      "ImageInfo": {
         "file_size": "647.22 KB",
         "image_dpi": "150",
         "image_resolution": "704x541",
         "information": "Minimum 300 DPI is required. File size is proper."
         },
      "dateOfBirth": "7/11/2001",
      "dateOfExpiry": "11/6/2022",
      "dateOflssue": "12/6/2017",
      "docType": "Passport",
      "firstName": "SHAMA",
      "gender": "F",
      "identificationNumber": "F0Z615883",
      "issuedCountry": "UNITED ARAB EMIRATES",
      "issuingAuthority": "",
      "lastName": "RASHED ABDULIALIL MOHAMED ALFAHIM",
      "name": "SHAMA RASHED ABDULIALIL MOHAMED ALFAHIM"
      }
   ]
}
```

**Note:** Even if Country and DocType not provided in the input request, the service tries to extract the Country Name and Document Type automatically. In case, if it is not able to extract it returns an exception/ error. This means either the quality of the document is not enough to extract all the details or resolution is poor.



### Things to be taken care of:

- Make sure the base64 encoded image string of the input image is correct.
- Document Type provided in the input should be "passport" only
- Specify the country name correctly for accurate extraction of details



# 6.3.2 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",
      "dateOflssue": "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



# 6.3.3 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",
   "dateOflssue": "",
   "docType": "NID",
   "firstName": "FERNANDA",
   "gender": "F",
   "identificationNumber": "00000005-9",
   "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



# 6.3.4 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": "",
       "dateOflssue": "",
       "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



# 6.4 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:

- 6.4.1 Passport Validation
- 6.4.2 Driving License Validation
- 6.4.3 National Identification Validation
- 6.4.4 Voter Identity Card Validation
- 6.4.5 Pointers about Request and Response
- 6.4.6 Things to be taken care of

### Table 228: 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



# 6.4.1 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:



**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",
```





## 6.4.2 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": [
    [
    {
```

405



```
"key": "-----name of key-----"
    "value": "-----value of key-----"
    }
]
],
"docs": [
    {
        "docType": "license",
        "docBase64s": "-----base64 encoded image string------"
    }
]
```

### **Output Response:**

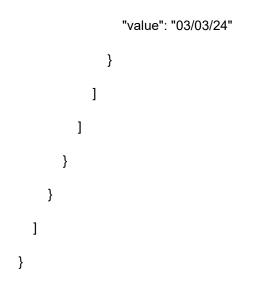
The output for "/validateInformation" API is the extracted details in the JSON format given below:

#### 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,
```







# 6.4.3 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": "-----name of 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",
```



```
"similarityScore": 100.0,
"value": "BRAZIL"
}
]
}
```



### 6.4.4 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:

Copyright @ 2021, 2022 All Rights Reserved



```
"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"
               }
            ]
          ]
       }
    }
  ]
}
```



# 6.4.5 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.

# 6.4.6 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



# 6.5 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.



# 7 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

# 7.1 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

**NOTE:** Replace the <UniqueName> for each file upload.

### Table 229: Country Code 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	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



# 7.2 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.

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



# 7.3 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

**NOTE:** Replace the <UniqueName> for each file upload.

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	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	11		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)

# 7.4 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

**NOTE:** Replace the <UniqueName> for each file upload.

Table 232: Currency Definition 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 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					
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)

# 7.5 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

**NOTE:** Replace the <UniqueName> for each file upload.

### Table 233: BIC Directory 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	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

# 7.6 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 234: Local Holiday File Upload – Records

Sequence	Attribute Name	Туре	Size	Description			
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	Child record						
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)

# 7.7 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

**NOTE:** Replace the <UniqueName> for each file upload.

Table 235:	Country	Code	File	Upload –	Records
				e pro a a	

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						
				Denotes child record type. Default			
1	Discriminator	String	1	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

Mandatory Fields are

- Discriminator
- Action
- Currency
- Year
- Weekly Holidays
- Discriminator (Child record)
- Currency (Child record)
- Year (Child record)
- Month (Child record)
- Holiday List (Child record)

# 7.8 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

**NOTE:** Replace the <UniqueName> for each file upload.

#### Table 236: External Customer 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	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

### Mandatory Fields are

- 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



### 7.9 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

**NOTE:** Replace the <UniqueName> for each file upload.

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	13 Ac Stat No Cr		1	Indicates the account does not have any credit facility
14	14 Ac Open Date		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

Mandatory Fields are

- Action
- Country Code
- Address4
- Address3
- Address2
- Address1
- Eca Check Req
- Account Class
- Ac Stat Dormant
- Ac Stat Frozen

- GI 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

### 7.10 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

**NOTE:** Replace the <UniqueName> for each file upload.

#### Table 238: 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

Mandatory Fields are

- 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

# 8 Error Codes and Messages

This topic contains the error codes and messages:

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



Error Codes	Messages
CC-CUS-167	Record already exist for customer no and source_system_cust_no combination
CC-CUS-169	Active account/accounts exist for the customer no
CC-CUS-17	Kindly Enter a Valid Walkin Customer
CC-EC-002	Record already exist for Account IBAN
CC-ECA-001	Active \$1 exist for the Source System
CC-HST-001	Active \$1 exist for the Host Code
CC-MOD-001	\$1 cannot be modified
CC-MOD-INV	\$1 is invalid
CC-NUL-001	\$1 cannot be null
CC-TXN-001	\$1 is closed. Reopen not allowed.
CMC-ACC-FOR01	Cannot reopen forgotten account
CMC-ACC-PII01	User doesnt have access to PII data, cannot perform create or modify operations
CMC-ACC-SUBAC01	No SubAccounts available for Multi-Currency Account
CMC-ACC-SUBAC02	Exactly one account should be primary account
CMC-ACC-SUBAC03	Sub Accounts should have unique currency code
CMC-BRN-018	Exception occurred in ICFlipDate
CMC-BRN-019	Unable to get branch date
CMC-BRN-020	Branch code is null
CMC-BRN-100	Branch Status retrieved Successfully
CMC-BRN-101	Branch doesnot exist
CMC-BRN-CD01	Date changed successfully
CMC-BRN-CD02	Failed to change date, holiday list not maintained properly



Error Codes	Messages
CMC-BRN-EOD01	Branch Status not in TI, cannot initiate EOD
CMC-BRN-EOD02	EOD invoked for the branch
CMC-BRN-EOD03	Invalid Branch Code
CMC-BRN-EOD04	Eod Requested on Date is not Branch's Today
CMC-BRN-EOD05	EOD cannot be invoked on a holiday
CMC-BRN-EOD06	Date changed successfully
CMC-BRN-EOD07	EOD not invoked, cannot initiate change date
CMC-BRN-EOD08	EOFI job not completed, cannot initiate change date
CMC-BRN-EOD09	EOD not invoked, cannot initiate mark TI
CMC-BRN-EOD10	Date Change job not completed, cannot initiate TI for next day
CMC-BRN-EOD11	Mark TI successful
CMC-BRN-EOD12	Branch status not in TI, cannot initiate Mark EOFI
CMC-BRN-EOD13	Branch status not in EOFI, cannot change Date
CMC-BRN-EOD14	Branch status for next working date update to BOD
CMC-BRN-EOD15	Branch status not in BOD, cannot mark TI
CMC-BRN-EOD16	Branch status for next working date update to TI
CMC-BRN-EOD17	Branch Status Changed to EOFI
CMC-BRN-EOD18	Invoke Mark TI failed
CMC-BRN-EOD19	Date change completed cannot retrigger
CMC-BRN-EOD20	Mark TI completed cannot retrigger
CMC-BRN-EOD21	Date changed failed
CMC-BRN-EOD30	Invalid requested date, failed to parse
CMC-BRN-EOD31	Mark Eoti retry intiated

Error Codes	Messages
CMC-BRN-EOD32	Cannot retry Mark EOFI which has not failed
CMC-BRN-EOD33	Date Changed successfully. \$1
CMC-BRN-EOD34	BOD Batches completed successfully.
CMC-BRN-EOD35	BOD Batches retriggered successfully. \$1
CMC-BRN-EOD36	\$1. Hence EOFI Failed.
CMC-BRN-EOD37	Failed in getting current date
CMC-CCY-001	Duplicate records exists in Amount word currency Mapping
CMC-CCY-002	Duplicate records exists in Amount Text Mapping
CMC-CCY-003	Cannot change Currency Decimal for once authorized currencies
CMC-CCY-004	Cannot Change round unit if the round rule is Truncate (T)
CMC-CCY-005	Mandatory field Interest Method is not entered
CMC-CCY-006	Mandatory field Spot Days is not entered
CMC-CCY-007	Mandatory field Settlement Days is not entered
CMC-CCY-008	Mandatory field Country is not entered
CMC-CCY-009	Mandatory field Rule is not entered
CMC-CCY-010	Value should be in range of 0 and 999 for Settlement Days
CMC-CCY-011	Mandatory field Unit is not entered
CMC-CCY-012	Decimals/ Rounding Unit Mismatch
CMC-CCY-013	Numerator of Interest Method is not Actual
CMC-CCY-014	Duplicate Alternate Currency Code
CMC-CCY-015	Duplicate ISO Numeric Currency Code
CMC-CCY-016	Duplicate Euro currency



Error Codes	Messages
CMC-CCY-017	Euro Conversion required cannot be changed for the currency types out, Euro and Euro closed
CMC-CCY-018	Spot days is less than fx netting days
CMC-CCY-019	Currency Cut Off days cannot be greater than spot days for currency
CMC-CCY-020	Spot Days for currency cannot be lesser than cut off days for currency
CMC-CCY-021	Value should be in range of 1 and 99 for Cut Off Days
CMC-CCY-022	Value should be in range of 1 and 23 for Cut Off Hour
CMC-CCY-023	Value should be in range of 1 and 59 for Cut Off Min
CMC-CCY-024	Value cannot be less than .00000 for Currency Total limit
CMC-CCY-025	Value should be in range of 0 and 3 for Currency Decimal
CMC-CCY-026	Country Code is Mandatory
CMC-CCY-027	Duplicate records exists in Currency Country Mapping
CMC-CCY-028	Mandatory field Country is not entered in Currency Country Mapping
CMC-CCY-029	Currency Code is NULL
CMC-CCY-030	Date is NULL
CMC-CCY-031	Date is Invalid (should be in yyyy-mm-dd format)
CMC-CCY-032	No record found
CMC-CCY-033	Next/Previous indicator is NULL (should be either N or P)
CMC-CCY-034	Next/Previous indicator is Invalid (should be either N or P)
CMC-CCY-035	Lower Limit Date is Invalid (should be in yyyy-mm-dd format)
CMC-CCY-036	Upper Limit Date is Invalid (should be in yyyy-mm-dd format)
CMC-CCY-037	Offset is NULL
CMC-CCY-038	Offset is Invalid (should be > 0)



Error Codes	Messages
CMC-CCY-039	Input date should be between Upper limit date and Lower limit date
CMC-CCY-040	Duplicate records exists in CurrencyHolidays
CMC-CCY-041	Mandatory Through Currency Code is not entered
CMC-CCY-042	Cannot change spread definition option for through currency pair
CMC-CCY-043	Through currency should be blank if the through currency is unchecked
CMC-CCY-044	Through currency has to be of type Euro
CMC-CCY-045	Through Currency is not allowed for Euro In Currency Pair
CMC-CCY-046	Points multiplier should be in the range 0 - 1
CMC-CCY-047	MidRate is invalid
CMC-CCY-048	BuySpread is invalid
CMC-CCY-049	SaleSpread is invalid
CMC-CCY-050	Atleast one Currency Rate Should be Maintained
CMC-CCY-051	Duplicate records exists in Rate
CMC-CCY-052	Currency Code is NULL
CMC-CCY-053	Currency Code is Empty
CMC-CCY-054	Amount is NULL
CMC-CCY-055	Option is NULL
CMC-CCY-056	Option is Empty
CMC-CCY-057	Method is NULL
CMC-CCY-058	Method is Empty
CMC-CCY-059	Decimal is NULL
CMC-CCY-060	Units is NULL



Error Codes	Messages
CMC-CCY-061	Maintenance Country is NULL
CMC-CCY-062	Maintenance Country is Empty
CMC-CCY-063	Currency1/Currency2/branch Code is NULL
CMC-CCY-065	Error in conversion
CMC-CCY-066	Rate is not handled for currency1 and currency2
CMC-CCY-067	Rate is not handled for currency2 and currency1
CMC-CCY-068	Error in Amount rounding
CMC-CCY-069	Currency definition is not maintaned for given currency and maintenance country
CMC-CCY-070	Error in getting branch currency and country
CMC-CCY-071	Error in getting currency pair for currency1 and currency2
CMC-CCY-072	Error in getting Premium points for currency1 and currency2
CMC-CCY-073	Error in getting rate with through currency
CMC-CCY-074	Error in getting Rate
CMC-CCY-075	Rate History is not handled for currency1 and currency2
CMC-CCY-076	Rate History is not handled for currency2 and currency1
CMC-CCY-077	Currency Pair is not maintained
CMC-CCY-078	Error in purging
CMC-CCY-079	Data inadequate in currency Pair Definition
CMC-CCY-080	Currency Pair already exists for the given Maintenance Country
CMC-CCY-081	MidRate is mandatory
CMC-CCY-082	Either buySpread/buyRate are mandatory
CMC-CCY-083	Either saleSpread/saleRate are mandatory



Error Codes	Messages
CMC-CUS-FOR01	Record successfully deleted
CMC-CUS-PII01	User doesnt have access to PII data, cannot perform create or modify operations
CMC-EOD-001	Invoked EOD successfully
CMC-EOD-002	Failed while resolving current date
CMC-EOD-003	EOD flow is not maintained for \$1 branch
CMC-EOD-004	EOD already invoked for today
CMC-EOD-005	Unable to invoke EOD
CMC-EOD-006	Retried EOD successfully
CMC-EOD-007	Failed to retry EOD
CMC-EOD-008	Pending maintenances exist. Failed to start EOD
CMC-EOD-009	Failed during pending maintenance check
CMC-EOD-010	Pending transactions exist. Failed to start EOD
CMC-EOD-011	Failed during pending transaction check
CMC-EOD-012	Marked cutoff for the branch successfully
CMC-EOD-013	Branch not in Transaction Input. Cannot mark cutoff
CMC-EOD-014	Branch not in BOD stage. Cannot release cutoff
CMC-EOD-015	Released cutoff for the branch successfully
CMC-EOD-016	Branch cutoff not released. Cannot mark Transaction Input
CMC-EOD-017	Branch cutoff not marked. Cannot mark End of Transaction Input
CMC-FORC-001	Request is null, not valid.
CMC-FORC-002	Forget customers request created successfully.
CMC-FORC-003	Failed to create forget entities request.



Error Codes	Messages
CMC-FORC-004	Invalid id sent, id null
CMC-FORC-005	Already authorized
CMC-FORC-006	Authorized successfully
CMC-FORC-007	Record not found, invalid id.
CMC-FORC-008	Cannot delete authorized record
CMC-FORC-009	Record successfully deleted
CMC-FORC-010	Invalid Customer \$1 added, customer should be valid and in closed and authorized state without pending maintenance
CMC-FORC-011	Invalid request. Duplicate requests for customer number \$1
CMC-INDBML-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-LOV-001	Invalid Source Code
CMC-LOV-002	Invalid Currency
CMC-LOV-003	Cannot Close the record for which rates are maintained
CMC-LOV-004	Invalid Language Code
CMC-LOV-005	Invalid Country
CMC-LOV-006	Invalid GLCode
CMC-LOV-007	Invalid Limit Currency



Error Codes	Messages
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-OBRH-001	Record already exists.
CMC-OBRH-002	Record saved successfully.
CMC-OBRH-003	Record does not exist.
CMC-OBRH-004	Invalid Payload
CMC-OBRH-005	Record deleted successfully.
CMC-OBRH-006	Record modified successfully.
CMC-OBRH-007	Data fetched successfully.
CMC-OBRH-008	Data exported successfully.



Error Codes	Messages
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.
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.



Error Codes	Messages
CMC-ORCH-008	Record successfully submitted.
CMC-ORCH-009	\$1 is in-progress, failed to initiate.
CMC-ORCH-010	Aw, snap! An unexpected exception occurred, try again.
CMC-ORCH-011	Invalid request.
CMC-ORCH-012	Cannot proceed with submit as the action is not initiated.
CMC-ORCH-013	Cannot find the provided information.
CMC-ORCH-014	Record is not yet submitted by \$1, cannot initiate the action.
CMC-ORCH-015	Record already unlocked by \$1.
CMC-ORCH-016	One record can be authorized at a time. Please close the screen and try again
CMC-ORCH-017	Current operation terminated
CMC-ORCH-018	Current operation could not be terminated
CMC-OV-001	Override Codes must not be empty
CMC-OV-002	Business Overrides Saved Successfully
CMC-OV-003	Business Overrides Updated Successfully
CMC-OV-004	Business Overrides Authorized Successfully
CMC-OV-005	Business Overrides Approval Pending
CMC-OV-006	Maker Cannot Authorize
CMC-OV-007	Multiple Authorizations not allowed for checker
CMC-OV-008	No Records found for approval
CMC-OV-009	Maker should approve the records
CMC-OV-010	Reference number is not valid
CMC-OV-011	Exception Occurred while converting string to number



Error Codes	Messages
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
GCS-AUTH-02	Valid modifications for approval were not sent. Failed to match
GCS-AUTH-03	Maker cannot authorize
GCS-AUTH-04	No Valid unauthroized modifications found for approval.
GCS-CLOS-002	Record Successfully Closed
GCS-CLOS-01	Record Already Closed
GCS-CLOS-02	Record Successfully Closed



Error Codes	Messages
GCS-CLOS-03	Unauthorized record cannot be closed, it can be deleted before first authorization
GCS-COM-001	Record does not exist
GCS-COM-002	Invalid version sent, operation can be performed only on latest version
GCS-COM-003	Please Send Proper ModNo
GCS-COM-004	Please send makerId in the request
GCS-COM-005	Request is Null. Please Resend with Proper SELECT
GCS-COM-006	Unable to parse JSON
GCS-COM-007	Request Successfully Processed
GCS-COM-008	Modifications should be consecutive.
GCS-COM-009	Resource ID cannot be blank or "null".
GCS-COM-010	Successfully cancelled \$1.
GCS-COM-011	\$1 failed to update.
GCS-DEL-001	Record deleted successfully
GCS-DEL-002	Record(s) deleted successfully
GCS-DEL-003	Modifications didnt match valid unauthorized modifications that can be deleted for this record
GCS-DEL-004	Send all unauthorized modifications to be deleted for record that is not authorized even once.
GCS-DEL-005	Only Maker of first version of record can delete modifications of record that is not once authorized.
GCS-DEL-006	No valid unauthroized modifications found for deleting
GCS-DEL-007	Failed to delete. Only maker of the modification(s) can delete.
GCS-MOD-001	Closed Record cannot be modified



Error Codes	Messages
GCS-MOD-002	Record Successfully Modified
GCS-MOD-003	Record marked for close, cannot modify.
GCS-MOD-004	Only maker of the record can modify before once auth
GCS-MOD-005	Not amendable field, cannot modify
GCS-MOD-006	Natural Key cannot be modified
GCS-MOD-007	Only the maker can modify the pending records.
GCS-REOP-003	Successfully Reopened
GCS-REOP-01	Unauthorized Record cannot be Reopened
GCS-REOP-02	Failed to Reopen the Record, cannot reopen Open records
GCS-REOP-03	Successfully Reopened
GCS-REOP-04	Unauthorized record cannot be reopened, record should be closed and authorized
GCS-SAV-001	Record already exists
GCS-SAV-002	Record Saved Successfully.
GCS-SAV-003	The record is saved and validated successfully.
GCS-VAL-001	The record is successfully validated.
ML-TS-001	Invalid Data Source
ML-TS-002	Invalid datatype for case ID
ML-TS-003	Timeseries Model Training Failed
ML-TS-004	Use Case Name cannot have dash
ML-RG-001	Regression Model Build Failed
ML-RG-002	Regression Model Statistics Calculation Failed
ML-RG-003	Cross Validation Failed



Error Codes	Messages
ML-RG-004	Model Selection Failed
ML-RG-005	Model Successfully Trained
ML-RG-006	Invalid Use Case Selected
ML-RG-007	No Trained Model found
ML-RG-008	Batch Scoring Failed
ML-RG-009	Successfully completed Batch scoring
ML-CLS-001	Mandatory IN Parameters are NULL
ML-CLS-002	Stratified Sampling Failed
ML-CLS-003	Stratified dataset Split Failed
ML-CLS-004	Correlation Check Failed
ML-CLS-005	Model Metrics Computation Failed
ML-CLS-006	Only Binary Target Class Supported for Generalized Linear Model
ML-CLS-007	Failed to Select Final Algorithm
ML-CLS-008	Dynamic Execute Statement Failed
ML-CLS-009	Classification Model Build Failed
ML-CLS-010	Classification Model Successfully Built
ML-CLS-011	No Trained Classification Model Found
ML-CLS-012	Failed to Predict
ML-CLS-013	Classification Batch Scoring Failed
ML-CLS-014	Successfully completed Batch scoring. Result are available at \$1
ML-CORR-001	Correlation completed successfully
ML-CORR-002	Correlation Failed
ML-CORR-003	Correlation analysis not completed fully



Error Codes	Messages
ML-UTIL-001	Invalid Table Name
ML-UTIL-002	Invalid column Name(s)
ML-UTIL-003	Failed in Random Sampling
ML-UTIL-004	Too less data for model building
ML-UTIL-005	Failed in Splitting Data
ML-UTIL-006	Failed in Selecting Feature
ML-UTIL-007	Failed to Drop Model(s)
ST-CUS-167	Record already exist for customer no and source_system_cust_no combination
ST-SAVE-027	Request Successfully Processed
CBS-CRITERIA-001	Criteria Code cannot be blank
CBS-CRITERIA-002	Criteria Description cannot be blank
CBS-CRITERIA-003	Select valid Product Processor
CBS-CRITERIA-004	Atleast one Rule should be selected in Criteria Definition
CBS-CRITERIA-005	Rule Description cannot be blank
CBS-CRITERIA-006	Select a Rule ID from the list
CBS-CRITERIA-007	Enter a valid number for Priority
CBS-CRITERIA-008	Enter a valid number for Priority
CBS-CRITERIA-009	Duplicate entries found for Rule ID
CBS-CRITERIA-010	Duplicate entries found for Priority
CBS-CRITERIA-011	Enter valid Parent Rule ID for
CBS-CRITERIA-012	Duplicate entries found for Rule ID
CBS-CRITERIA-013	Cannot add child Rule when Call All Bureau is enabled



Error Codes	Messages
CBS-CRITERIA-014	Duplicate entries found for Priority
CBS_ERR_004	Parameter description cannot be modified
CBS_LKUP_01	Duplicate entries found for Lookup Code
CBS_500	Error occurred at Bureau Call
	Response structure from Bureau is different
CBS_SYSPAR_001	System parameter not maintained for the bureau for history call
	Facts not found for Bureau identification Rule
CBS 400	Empty response from criteria for given PPcode
	Empty response from Oracle Banking Routing Hub from bureau call
	Bureau identification Rule not found for given facts
CBS-CRTR-015	Criteria Code has exceeded the max length specified
CBS-CRTR-016	Description has exceeded the max length specified
CBS-CRTR-017	Rule Id has exceeded the max length specified
CBS-CRTR-018	Rule Description has exceeded the max length specified
CBS_BR_DTLS_NOT_ FOUND	Bureau Details are not provided
CBS_BR_DTLS_NOT_	Bureau Details are not maintained for +{reqBureauProductType}
MNT	(variable, value will be replaced at runtime from payload)
CDS-DML-006	Invalid range definition. Either range or value is allowed
CDS-DML-007	Duplicate \$1 values are not allowed
CDS-DML-010	From value should not be greater than To value
CDS-RUL-001	Error occurred while evaluating the rule
CDS-DML-003	Effective date should be less than Expiry Date
CDS-PRC-006	Effective date should be less than the Expiry Date



Error Codes	Messages
CDS-DML-002	Maintain at least one record in \$1
CDS-DML-014	Effective date cannot be less than the Product Processor Effective date.
CDS-PRC-014	Effective date cannot be less than the Product Processor Effective Date.
CDS-DML-017	if 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	Input parameter is missing or incorrect. Unable to resolve any pricing setup
CDS-QFT-001	if qftRuleApplicableInd is selected as y then qftRuleName and qftRuleId cannot be null
CDS-QFT-002	if qftRuleApplicableInd is selected as N then qftFactName and qftFactId cannot be null
CDS-QFT-005	qftCode cannot be other than alphanumeric
CDS-QFT-004	Fact or rule not found
CDS-DML-008	Invalid rule name



Error Codes	Messages
CDS-PRC-0010	Fact or rule not found
CDS-PRC-007	Pricing Rate definition should be greater than or equal to minimum rate and less than or equal to maximum rate
CDS-PRC-009	rate percentage of range cannot be equal to zero or less than the previous one
CDS-PRC-005	\$1 should be equal to or greater than the System date
CDS-PRC-010	Invalid product processor
CDS-PRC-004	Maintain at least one record \$1
CDS-PRC-001	Min Rate cannot be less than zero or not be more than max rate
CDS-PRC-003	Overlapping price range definition not allowed \$1
CDS-PRC-002	Rate Type cannot any other keyword
CDS-PRC-008	\$1 cannot be less than or equal to zero
CDS-DML-009	Unable to resolve any scoring model
CDS-PPR-001	\$1 should be equal to or greater than the System date
CDS-DML-005	Overlapping range definition not allowed in \$1
CDS-QFT-003	Invalid product processor
CDS-DML-001	\$1 should be equal to or greater than the Posting date
CDS-DML-019	Unable to resolve the best fit scoring model. Multiple scoring model resolved
CDS-DML-016	Unable to resolve the best fit pricing model. Multiple pricing model resolved
CDS-DML-004	The sum of weightage assigned to the feature code should be 100
CDS-PPR-002	Effective date should be less than Expiry Date
CDS-PRC-013	Rate definition should be greater than or equal to minimum rate and less than or equal to maximum rate



Error Codes	Messages
CDS-DML-020	Unable to resolve the best fit application scoring model Multiple application scoring model resolved
CDS-DML-021	Unable to resolve the best fit decision and grade matrix. Multiple decision and grade matrix resolved
CDS-BWC-001	\$1 should be equal to or greater than the System date
CDS-BWC-002	Maintain at least one record in \$1
CDS-BWC-003	Effective date should be less than the Expiry Date
CDS-BWC-014	Effective date cannot be less than the Product Processor Effective date
CDS-STG-006	Effective Date cannot be null or blank
CDS-STG-007	Expiry Date cannot be null or blank
CDS-STG-008	Industry cannot be null or blank
CDS-STG-009	Module cannot be null or blank
CDS-STG-010	Line of Business cannot be null or blank
CDS-STG-011	Effective date should be less than the Expiry Date
CDS-STG-012	Expiry Date should be equal to or greater then the System date
CDS-STG-013	Invalid Strategy Code
CDS-STG-014	Invalid Industry
CDS-STG-015	Invalid Module
CDS-STG-016	Invalid Line of Business
CDS-STG-017	Invalid product processor
CDS-STG-018	Invalid Account Category
CDS-STG-019	Invalid modes for the selected module
CDS-STG-020	Invalid combination of steps for selected modes
CDS-STG-021	Record already exists
CDS-STG-022	Effective date cannot be less than the Product Processor Effective Date
CDS-RUL-002	Fact already exists
CDS-STG-023	Invalid combination of modes and steps
CDS-DML-043	Invalid \$1 sent
CDS-DML-040	FeatureDTO missing. Kindly enter the details



Error Codes	Messages
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
CDS-LML-021	Reason Code cannot be null
CDS-LML-022	Logical Model comments size must be between 1 and 80
CDS-LML-023	Logical Model Sequence must be in the range of 1 to 999
CDS-LML-024	Logical Model Sequence is Incorrect
CDS-LML-025	Logical Model Priority must be in the range of 1 to 100
CDS-LML-026	Logical Model Details cannot be null or empty
CDS-LML-027	Rule Id cannot be duplicate
CDS-LML-028	Invalid Rule Id
CDS-QUR-001	Invalid Input for Questionnaireld, can not be null or blank



Error Codes	Messages
CDS-QUR-002	Invalid Input for Questionnaireld, null or blank required
CDS-QUR-003	Invalid Input for QuestionId, null or blank required
CDS-QUR-004	Invalid Input for QuestionId, can not be null or blank
CDS-QUR-005	Questionnaire Code cannot be null or empty
CDS-QUR-006	Questionnaire Description cannot be null or empty
CDS-QUR-007	Product Processor cannot be null or empty
CDS-QUR-008	Question Code cannot be null or empty
CDS-QUR-009	Question Short Name cannot be null or empty
CDS-QUR-010	Question Description cannot be null or empty
CDS-QUR-011	Question Type cannot be null or empty
CDS-QUR-012	Answer Description cannot be null or empty
CDS-QUR-013	Questionnaire Code size must be between 1 and 30
CDS-QUR-014	Questionnaire Description size must be between 1 and 240
CDS-QUR-015	Question Code cannot be duplicate for a product processor
CDS-QUR-016	Question Sequence Number cannot be null, empty or zero, negetive
CDS-QUR-017	Answer Option Sequence Number cannot be null, empty or zero, negetive
CDS-QUR-018	Question Sequence Number cannot be duplicate for a questionnaire
CDS-QUR-019	Answer Option Sequence Number cannot be duplicate for a Question
CDS-QUR-020	Answer OptionId cannot be null or empty
CDS-QUR-021	Answer OptionId cannot be duplicate for a question
CDS-BWC-004	Incorrect execution stage
CDS-BWC-005	\$1 fact or rule not found
CDS-QUR-022	Input for whether Question Mandatory cannot be null or empty
CDS-QUR-023	System will not allow to add questions where response choice has not been captured,At least 2 record should be available
CDS-QUR-024	System will not allow to save the questionnaire without any question configured, Atleast 1 question should be configured in the questionnaire
CDS-QUR-025	Question Code cannot be duplicate for a questionnaire.
CDS-STG-024	Invalid type and value for additional info
CDS-STG-025	Selection of atleast 1 mode is mandatory
CDS-STG-026	Effective date cannot be updated after authorisation
CDS-STG-027	Multiple values of same type are not allowed under Additional Information



Error Codes	Messages
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	Multiple Range definitions not allowed in case of MultiApplicant Scoring Model
CDS-DML-042	Incorrect Range Definition. \$1



# 9 Functional Activity Codes

This topic contains the functional activity codes:

#### Table 240: Functional Activity Codes

Screen Name	Functional Activity Code
External Chart Account	CMC_FA_EXT_CHART_ACC_AMEND
	CMC_FA_EXT_CHART_ACC_AUTHORIZE
	CMC_FA_EXT_CHART_ACC_CLOSE
	CMC_FA_EXT_CHART_ACC_DELETE
	CMC_FA_EXT_CHART_ACC_NEW
	CMC_FA_EXT_CHART_ACC_REOPEN
	CMC_FA_EXT_CHART_ACC_VIEW
Upload Source Preference	CMC_FA_UPLOAD_SOURCE_AMEND
	CMC_FA_UPLOAD_SOURCE_AUTHORIZE
	CMC_FA_UPLOAD_SOURCE_CLOSE
	CMC_FA_UPLOAD_SOURCE_DELETE
	CMC_FA_UPLOAD_SOURCE_NEW
	CMC_FA_UPLOAD_SOURCE_PREF_AMEND
	CMC_FA_UPLOAD_SOURCE_PREF_AUTHORIZE
	CMC_FA_UPLOAD_SOURCE_PREF_CLOSE
	CMC_FA_UPLOAD_SOURCE_PREF_DELETE
	CMC_FA_UPLOAD_SOURCE_PREF_NEW
	CMC_FA_UPLOAD_SOURCE_PREF_REOPEN
	CMC_FA_UPLOAD_SOURCE_PREF_VIEW
	CMC_FA_UPLOAD_SOURCE_REOPEN

Screen Name	Functional Activity Code
	CMC_FA_UPLOAD_SOURCE_VIEW
BIC Directory	CMC_FA_BIC_DIRECTORY_AUTHORIZE
	CMC_FA_BIC_DIRECTORY_CLOSE
	CMC_FA_BIC_DIRECTORY_CREATE
	CMC_FA_BIC_DIRECTORY_DELETE
	CMC_FA_BIC_DIRECTORY_LOV
	CMC_FA_BIC_DIRECTORY_MODIFY
	CMC_FA_BIC_DIRECTORY_REOPEN
	CMC_FA_BIC_DIRECTORY_VIEW
Country Code	CMC_FA_COUNTRY_CODE_AMEND
	CMC_FA_COUNTRY_CODE_AUTHORIZE
	CMC_FA_COUNTRY_CODE_CLOSE
	CMC_FA_COUNTRY_CODE_DELETE
	CMC_FA_COUNTRY_CODE_NEW
	CMC_FA_COUNTRY_CODE_REOPEN
	CMC_FA_COUNTRY_CODE_VIEW
Currency Definition	CMC_FA_CURRENCY_DEFN_AMEND
	CMC_FA_CURRENCY_DEFN_AUTHORIZE
	CMC_FA_CURRENCY_DEFN_CLOSE
	CMC_FA_CURRENCY_DEFN_DELETE
	CMC_FA_CURRENCY_DEFN_LOV
	CMC_FA_CURRENCY_DEFN_NEW
	CMC_FA_CURRENCY_DEFN_REOPEN



Screen Name	Functional Activity Code
	CMC_FA_CURRENCY_DEFN_VIEW
Currency Holiday Master	CMC_FA_CURRENCY_HOLIDAY_AMEND
	CMC_FA_CURRENCY_HOLIDAY_AUTHORIZE
	CMC_FA_CURRENCY_HOLIDAY_CLOSE
	CMC_FA_CURRENCY_HOLIDAY_DELETE
	CMC_FA_CURRENCY_HOLIDAY_NEW
	CMC_FA_CURRENCY_HOLIDAY_REOPEN
	CMC_FA_CURRENCY_HOLIDAY_VIEW
Currency Pair Definition	CMC_FA_CURRENCY_PAIR_DEFN_AMEND
	CMC_FA_CURRENCY_PAIR_DEFN_AUTHORIZE
	CMC_FA_CURRENCY_PAIR_DEFN_CLOSE
	CMC_FA_CURRENCY_PAIR_DEFN_DELETE
	CMC_FA_CURRENCY_PAIR_DEFN_NEW
	CMC_FA_CURRENCY_PAIR_DEFN_REOPEN
	CMC_FA_CURRENCY_PAIR_DEFN_VIEW
Currency Rate Type	CMC_FA_CURRENCY_RATE_TYPE_AMEND
	CMC_FA_CURRENCY_RATE_TYPE_AUTHORIZE
	CMC_FA_CURRENCY_RATE_TYPE_CLOSE
	CMC_FA_CURRENCY_RATE_TYPE_DELETE
	CMC_FA_CURRENCY_RATE_TYPE_NEW
	CMC_FA_CURRENCY_RATE_TYPE_REOPEN
	CMC_FA_CURRENCY_RATE_TYPE_VIEW
Customer Category	CMC_FA_CUSTOMER_CATEGORY_AMEND

Screen Name	Functional Activity Code
	CMC_FA_CUSTOMER_CATEGORY_AUTHORIZE
	CMC_FA_CUSTOMER_CATEGORY_CLOSE
	CMC_FA_CUSTOMER_CATEGORY_DELETE
	CMC_FA_CUSTOMER_CATEGORY_NEW
	CMC_FA_CUSTOMER_CATEGORY_REOPEN
	CMC_FA_CUSTOMER_CATEGORY_VIEW
Customer Access Group	CMC_FA_CUST_ACCESS_GET
	CMC_FA_CUST_ACCESS_VIEW
	CMC_FA_CUST_ACCESS_CREATE
	CMC_FA_CUST_ACCESS_UPDATE
	CMC_FA_CUST_ACCESS_AUTHORIZE
	CMC_FA_CUST_ACCESS_CLOSE
	CMC_FA_CUST_ACCESS_DELETE
	CMC_FA_CUST_ACCESS_ACTIONS
	CMC_FA_CUST_ACCESS_AGGREGATE
	CMC_FA_CUST_ACCESS_HISTORY
	CMC_FA_CUST_ACCESS_UNAUTH
	CMC_FA_CUST_ACCESS_UNLOCK
	CMC_FA_CUST_ACCESS_REOPEN
	CMC_FA_CUST_ACCESS_SUBMIT
	CMC_FA_CUST_ACCESS_VALIDATE
	CMC_FA_CUST_ACCESS_GROUP_GETBYDESCP

Screen Name	Functional Activity Code
ECA System	CMC_FA_ECA_SYSTEM_AUTHORIZE
	CMC_FA_ECA_SYSTEM_CLOSE
	CMC_FA_ECA_SYSTEM_CREATE
	CMC_FA_ECA_SYSTEM_DELETE
	CMC_FA_ECA_SYSTEM_LOV
	CMC_FA_ECA_SYSTEM_MODIFY
	CMC_FA_ECA_SYSTEM_REOPEN
	CMC_FA_ECA_SYSTEM_VIEW
External Bank Parameters	CMC_FA_EXT_BANK_PARAMETERS_AUTHORIZE
	CMC_FA_EXT_BANK_PARAMETERS_CLOSE
	CMC_FA_EXT_BANK_PARAMETERS_CREATE
	CMC_FA_EXT_BANK_PARAMETERS_DELETE
	CMC_FA_EXT_BANK_PARAMETERS_LOV
	CMC_FA_EXT_BANK_PARAMETERS_MODIFY
	CMC_FA_EXT_BANK_PARAMETERS_REOPEN
	CMC_FA_EXT_BANK_PARAMETERS_VIEW
External Branch Parameters	CMC_FA_EXT_BRANCH_GETSTATUS
	CMC_FA_EXT_BRANCH_PARAMETERS_AUTHORIZE
	CMC_FA_EXT_BRANCH_PARAMETERS_CLOSE
	CMC_FA_EXT_BRANCH_PARAMETERS_CREATE
	CMC_FA_EXT_BRANCH_PARAMETERS_DELETE
	CMC_FA_EXT_BRANCH_PARAMETERS_LOV
	CMC_FA_EXT_BRANCH_PARAMETERS_MODIFY

Screen Name	Functional Activity Code
	CMC_FA_EXT_BRANCH_PARAMETERS_REOPEN
	CMC_FA_EXT_BRANCH_PARAMETERS_VIEW
External Customer	CMC_FA_EXT_CUSTOMER_AUTHORIZE
	CMC_FA_EXT_CUSTOMER_CLOSE
	CMC_FA_EXT_CUSTOMER_CREATE
	CMC_FA_EXT_CUSTOMER_DELETE
	CMC_FA_EXT_CUSTOMER_LOV
	CMC_FA_EXT_CUSTOMER_MODIFY
	CMC_FA_EXT_CUSTOMER_REOPEN
	CMC_FA_EXT_CUSTOMER_VIEW
Host Code	CMC_FA_HOST_CODE_AUTHORIZE
	CMC_FA_HOST_CODE_CLOSE
	CMC_FA_HOST_CODE_CREATE
	CMC_FA_HOST_CODE_DELETE
	CMC_FA_HOST_CODE_LOV
	CMC_FA_HOST_CODE_MODIFY
	CMC_FA_HOST_CODE_REOPEN
	CMC_FA_HOST_CODE_VIEW
Language Code	CMC_FA_LANGUAGE_CODE_AMEND
	CMC_FA_LANGUAGE_CODE_AUTHORIZE
	CMC_FA_LANGUAGE_CODE_CLOSE
	CMC_FA_LANGUAGE_CODE_DELETE
	CMC_FA_LANGUAGE_CODE_NEW



Screen Name	Functional Activity Code
	CMC_FA_LANGUAGE_CODE_REOPEN
	CMC_FA_LANGUAGE_CODE_VIEW
Local Holiday	CMC_FA_LOCAL_HOLIDAY_AMEND
	CMC_FA_LOCAL_HOLIDAY_AUTHORIZE
	CMC_FA_LOCAL_HOLIDAY_CLOSE
	CMC_FA_LOCAL_HOLIDAY_DELETE
	CMC_FA_LOCAL_HOLIDAY_NEW
	CMC_FA_LOCAL_HOLIDAY_REOPEN
	CMC_FA_LOCAL_HOLIDAY_VIEW
System Dates	CMC_FA_SYSTEM_DATES_AMEND
	CMC_FA_SYSTEM_DATES_AUTHORIZE
	CMC_FA_SYSTEM_DATES_CLOSE
	CMC_FA_SYSTEM_DATES_DELETE
	CMC_FA_SYSTEM_DATES_NEW
	CMC_FA_SYSTEM_DATES_REOPEN
	CMC_FA_SYSTEM_DATES_TODAY
	CMC_FA_SYSTEM_DATES_VIEW
Amount Text Language	CMC_FA_AMTXTLANG_AMEND
	CMC_FA_AMTXTLANG_AUTHORIZE
	CMC_FA_AMTXTLANG_CLOSE
	CMC_FA_AMTXTLANG_DELETE
	CMC_FA_AMTXTLANG_NEW
	CMC_FA_AMTXTLANG_REOPEN



Screen Name	Functional Activity Code
	CMC_FA_AMTXTLANG_VIEW
Branch EOD	CMC_FA_CORE_BRANCH_EOD_AMEND
	CMC_FA_CORE_BRANCH_EOD_CURRENT_DATE
	CMC_FA_CORE_BRANCH_EOD_FLIPDATE
	CMC_FA_CORE_BRANCH_EOD_MAP
	CMC_FA_CORE_BRANCH_EOD_MAP_AMEND
	CMC_FA_CORE_BRANCH_EOD_MAP_AUTHORIZE
	CMC_FA_CORE_BRANCH_EOD_MAP_CLOSE
	CMC_FA_CORE_BRANCH_EOD_MAP_COPY
	CMC_FA_CORE_BRANCH_EOD_MAP_DELETE
	CMC_FA_CORE_BRANCH_EOD_MAP_NEW
	CMC_FA_CORE_BRANCH_EOD_MAP_VIEW
	CMC_FA_CORE_BRANCH_EOD_MAP_VIEWALL
	CMC_FA_CORE_BRANCH_EOD_MARKEOTI
	CMC_FA_CORE_BRANCH_EOD_MARKTI
	CMC_FA_CORE_BRANCH_EOD_RETRY
	CMC_FA_CORE_BRANCH_EOD_VIEWBYBRANCHDATE
	CMC_FA_CORE_BRANCH_EOD_VIEWBYID
	CMC_FA_BATCH_INVOKEEOD
	CMC_FA_BATCH_FLIPDATE
	CMC_FA_BRANCH_EOD_PROCESS
	CMC_FA_BRANCH_EOD_SERVICE_START
	CMC_FA_BRANCH_EOD_SERVICE_STATUS

Screen Name	Functional Activity Code
	CMC_FA_BRANCH_EOD_SERVICE_RETRY
Forget Process	CMC_FA_CORE_FORGET_CUSTOMER_AUTHORIZE
	CMC_FA_CORE_FORGET_CUSTOMER_CREATE
	CMC_FA_CORE_FORGET_CUSTOMER_DELETE
	CMC_FA_CORE_FORGET_CUSTOMER_MODIFY
	CMC_FA_CORE_FORGET_CUSTOMER_VIEW
	CMC_FA_EXT_CUSTOMER_INVOKEFORGETACCBATCH
	CMC_FA_FORGET_CORECUSTOMERS
	CMC_FA_GET_FORGET_CORECUSTOMERS
	CMC_FA_EXT_ACCOUNT_FORGETACCOUNT
	CMC_FA_EXT_ACCOUNT_INVOKEBATCH
	CMC_FA_FORGET_COREACCOUNTS
	CMC_FA_GET_FORGET_COREACCOUNTS
Multi-Currency Account	CMC_FA_MCA_LINKAGE_AUTHORIZE
Linkage	CMC_FA_MCA_LINKAGE_CLOSE
	CMC_FA_MCA_LINKAGE_CREATE
	CMC_FA_MCA_LINKAGE_DELETE
	CMC_FA_MCA_LINKAGE_MODIFY
	CMC_FA_MCA_LINKAGE_REOPEN
	CMC_FA_MCA_LINKAGE_VIEW
Transaction Code	CMC_FA_TRN_CODE_AUTHORIZE
	CMC_FA_TRN_CODE_CLOSE
	CMC_FA_TRN_CODE_CREATE



Screen Name	Functional Activity Code
	CMC_FA_TRN_CODE_DELETE
	CMC_FA_TRN_CODE_LOV
	CMC_FA_TRN_CODE_MODIFY
	CMC_FA_TRN_CODE_REOPEN
	CMC_FA_TRN_CODE_VIEW
Routing Hub	CMC_FA_RH_DASHBOARD_HEALTH_INDICATOR
	CMC_FA_RH_CONFIG
	CMC_FA_RH_APPLICATION
	CMC_FA_RH_DISPATCH_AUDIT_LOG
	CMC_FA_RH_AUDIT_LOG
	CMC_FA_RH_CONFIG_CREATE
	CMC_FA_RH_CONFIG_DELETE
	CMC_FA_RH_CONFIG_MODIFY
	CMC_FA_RH_CONFIG_GET
	CMC_FA_RH_DISPATCH_AUDIT_GETALL
	CMC_FA_RH_METRICS_GET
	CMC_FA_RH_SERVICECONSUMER_CREATE
	CMC_FA_RH_SERVICECONSUMER_DELETE
	CMC_FA_RH_SERVICECONSUMER_GETALL
	CMC_FA_RH_SERVICECONSUMER_GETBYID
	CMC_FA_RH_SERVICECONSUMER_MODIFY
	CMC_FA_RH_SERVICECONSUMER_EXPORT
	CMC_FA_RH_SERVICECONSUMER_IMPORT

Screen Name	Functional Activity Code
	CMC_FA_RH_SERVICECONSUMER_PROCESSJSON
	CMC_FA_RH_SERVICECONSUMER_SERVICE_MODIFY
	CMC_FA_RH_SERVICECONSUMER_SERVICE_IMPORT
	CMC_FA_RH_SERVICECONSUMER_SERVICE_CREATE
	CMC_FA_RH_SERVICECONSUMER_SERVICE_EXPORT
	CMC_FA_RH_SERVICECONSUMER_SERVICE_GETBYID
	CMC_FA_RH_SERVICECONSUMER_SERVICE_GETALL
	CMC_FA_RH_SERVICECONSUMER_SERVICE_DELETE
	CMC_FA_RH_SERVICECONSUMER_SERVICEROUTING_CREATE
	CMC_FA_RH_SERVICECONSUMER_SERVICEROUTING_MODIFY
	CMC_FA_RH_SERVICECONSUMER_SERVICEROUTING_GETALL
	CMC_FA_RH_SERVICECONSUMER_SERVICEROUTING_GETBYI
	CMC_FA_RH_SERVICECONSUMER_SERVICEROUTING_DELETE
	CMC_FA_RH_SERVICECONSUMER_SERVICETRANSFORMATION _GETALL
	CMC_FA_RH_SERVICECONSUMER_SERVICETRANSFORMATION _IMPORT
	CMC_FA_RH_SERVICECONSUMER_SERVICETRANSFORMATION _DELETE
	CMC_FA_RH_SERVICECONSUMER_SERVICETRANSFORMATION _EXPORT
	CMC_FA_RH_SERVICECONSUMER_SERVICETRANSFORMATION _GETBYID
	CMC_FA_RH_SERVICECONSUMER_SERVICETRANSFORMATION _MODIFY



Screen Name	Functional Activity Code
	CMC_FA_RH_SERVICECONSUMER_SERVICETRANSFORMATION _CREATE
	CMC_FA_RH_PROVIDEDSERVICE_IMPORT
	CMC_FA_RH_SERVICEPROVIDER_GENERATEREQUEST
	CMC_FA_RH_SERVICEPROVIDER_CREATE
	CMC_FA_RH_SERVICEPROVIDER_MODIFY
	CMC_FA_RH_SERVICEPROVIDER_GETBYID
	CMC_FA_RH_SERVICEPROVIDER_GETALL
	CMC_FA_RH_SERVICEPROVIDER_DELETE
	CMC_FA_RH_SERVICEPROVIDER_EXPORT
	CMC_FA_RH_SERVICEPROVIDER_IMPORT
	CMC_FA_RH_SERVICEPROVIDER_IMPL_CREATE
	CMC_FA_RH_SERVICEPROVIDER_IMPL_MODIFY
	CMC_FA_RH_SERVICEPROVIDER_IMPL_GETBYID
	CMC_FA_RH_SERVICEPROVIDER_IMPL_GETALL
	CMC_FA_RH_SERVICEPROVIDER_IMPL_DELETE
	CMC_FA_RH_SERVICEPROVIDER_IMPL_IMPORT
	CMC_FA_RH_SERVICEPROVIDER_IMPL_EXPORT
	CMC_FA_RH_SERVICEPROVIDER_IMPL_GENERATEREQUEST
Borrowing Capacity	CMC_OBCDS_FA_BWC_ACTIONS
	CMC_OBCDS_FA_BWC_AMEND
	CMC_OBCDS_FA_BWC_AUTHORIZE
	CMC_OBCDS_FA_BWC_AUTHORIZE

Screen Name	Functional Activity Code
	CMC_OBCDS_FA_BWC_AUTHQUERY
	CMC_OBCDS_FA_BWC_CLOSE
	CMC_OBCDS_FA_BWC_DELETE
	CMC_OBCDS_FA_BWC_HISTORY
	CMC_OBCDS_FA_BWC_NEW
	CMC_OBCDS_FA_BWC_REOPEN
	CMC_OBCDS_FA_BWC_VALIDATE_LOV
	CMC_OBCDS_FA_BWC_VIEW
	CMC_OBCDS_FA_BWC_VIEWALL
	CMC_OBCDS_FA_BWC_VIEWCHANGES
Decision Matrix	CMC_OBCDS_FA_DGM_ACTIONS
	CMC_OBCDS_FA_DGM_AMEND
	CMC_OBCDS_FA_DGM_AUTHORIZE
	CMC_OBCDS_FA_DGM_AUTHORIZE
	CMC_OBCDS_FA_DGM_AUTHQUERY
	CMC_OBCDS_FA_DGM_CLOSE
	CMC_OBCDS_FA_DGM_DELETE
	CMC_OBCDS_FA_DGM_GETALLDGMDATA
	CMC_OBCDS_FA_DGM_GETDGXCODES
	CMC_OBCDS_FA_DGM_HISTORY
	CMC_OBCDS_FA_DGM_NEW
	CMC_OBCDS_FA_DGM_REOPEN
	CMC_OBCDS_FA_DGM_VALIDATE_LOV



Screen Name	Functional Activity Code
	CMC_OBCDS_FA_DGM_VIEW
	CMC_OBCDS_FA_DGM_VIEWALL
	CMC_OBCDS_FA_DGM_VIEWCHANGES
Quantitative Scoring Model	CMC_OBCDS_FA_DML_ACTIONS
	CMC_OBCDS_FA_DML_AMEND
	CMC_OBCDS_FA_DML_AUTHORIZE
	CMC_OBCDS_FA_DML_AUTHORIZE
	CMC_OBCDS_FA_DML_AUTHQUERY
	CMC_OBCDS_FA_DML_CLOSE
	CMC_OBCDS_FA_DML_DELETE
	CMC_OBCDS_FA_DML_HISTORY
	CMC_OBCDS_FA_DML_NEW
	CMC_OBCDS_FA_DML_REOPEN
	CMC_OBCDS_FA_DML_VALIDATE_LOV
	CMC_OBCDS_FA_DML_VIEW
	CMC_OBCDS_FA_DML_VIEWALL
	CMC_OBCDS_FA_DML_VIEWCHANGES
Fetch Credit Decision Service	CMC_OBCDS_FA_FETCH_CREDIT_DECISION
Validation Model	CMC_OBCDS_FA_LML_ACTIONS
	CMC_OBCDS_FA_LML_AMEND
	CMC_OBCDS_FA_LML_AUTHORIZE
	CMC_OBCDS_FA_LML_AUTHORIZE

Screen Name	Functional Activity Code
	CMC_OBCDS_FA_LML_AUTHQUERY
	CMC_OBCDS_FA_LML_CLOSE
	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
Lookup	CMC_OBCDS_FA_LOOKUPS_ACTIONS
	CMC_OBCDS_FA_LOOKUPS_AMEND
	CMC_OBCDS_FA_LOOKUPS_AUTHORIZE
	CMC_OBCDS_FA_LOOKUPS_AUTHORIZE
	CMC_OBCDS_FA_LOOKUPS_AUTHQUERY
	CMC_OBCDS_FA_LOOKUPS_CLOSE
	CMC_OBCDS_FA_LOOKUPS_CODE_VIEW
	CMC_OBCDS_FA_LOOKUPS_DELETE
	CMC_OBCDS_FA_LOOKUPS_HISTORY
	CMC_OBCDS_FA_LOOKUPS_NEW
	CMC_OBCDS_FA_LOOKUPS_REOPEN
	CMC_OBCDS_FA_LOOKUPS_VALIDATE_LOV
	CMC_OBCDS_FA_LOOKUPS_VIEW



CMC_OBCDS_FA_LOOKUPS_VIEWALL         CMC_OBCDS_FA_LOOKUPS_VIEWCHANGES         System Parameter       CMC_OBCDS_FA_PMT_ACTIONS         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_CLOSE         CMC_OBCDS_FA_PMT_DELETE       CMC_OBCDS_FA_PMT_NEW         CMC_OBCDS_FA_PMT_NEW       CMC_OBCDS_FA_PMT_NEW         CMC_OBCDS_FA_PMT_VALIDATE_LOV       CMC_OBCDS_FA_PMT_VIEW         CMC_OBCDS_FA_PMT_VIEW       CMC_OBCDS_FA_PMT_VIEW         CMC_OBCDS_FA_PMT_VIEWALL       CMC_OBCDS_FA_PMT_VIEWALL         CMC_OBCDS_FA_PMT_VIEWALL       CMC_OBCDS_FA_PMT_VIEWALL         CMC_OBCDS_FA_PMT_VIEWALL       CMC_OBCDS_FA_PMT_VIEWALL         CMC_OBCDS_FA_PMT_VIEWALL       CMC_OBCDS_FA_PMT_VIEWALL	Screen Name	Functional Activity Code
System Parameter       CMC_OBCDS_FA_PMT_ACTIONS         CMC_OBCDS_FA_PMT_AMEND       CMC_OBCDS_FA_PMT_AUTHORIZE         CMC_OBCDS_FA_PMT_AUTHORIZE       CMC_OBCDS_FA_PMT_AUTHQUERY         CMC_OBCDS_FA_PMT_CLOSE       CMC_OBCDS_FA_PMT_DELETE         CMC_OBCDS_FA_PMT_NEW       CMC_OBCDS_FA_PMT_NEW         CMC_OBCDS_FA_PMT_VALIDATE_LOV       CMC_OBCDS_FA_PMT_VALIDATE_LOV         CMC_OBCDS_FA_PMT_VIEW       CMC_OBCDS_FA_PMT_VIEWALL         CMC_OBCDS_FA_PMT_VIEWALL       CMC_OBCDS_FA_PMT_VIEWALL         CMC_OBCDS_FA_PMT_VIEWALL       CMC_OBCDS_FA_PMT_VIEWALL		CMC_OBCDS_FA_LOOKUPS_VIEWALL
CMC_OBCDS_FA_PMT_AMEND         CMC_OBCDS_FA_PMT_AUTHORIZE         CMC_OBCDS_FA_PMT_AUTHORIZE         CMC_OBCDS_FA_PMT_AUTHOUERY         CMC_OBCDS_FA_PMT_CLOSE         CMC_OBCDS_FA_PMT_DELETE         CMC_OBCDS_FA_PMT_HISTORY         CMC_OBCDS_FA_PMT_NEW         CMC_OBCDS_FA_PMT_NEW         CMC_OBCDS_FA_PMT_VALIDATE_LOV         CMC_OBCDS_FA_PMT_VALIDATE_LOV         CMC_OBCDS_FA_PMT_VIEWALL         CMC_OBCDS_FA_PMT_VIEWALL         CMC_OBCDS_FA_PMT_VIEWALL         CMC_OBCDS_FA_PMT_VIEWALL		CMC_OBCDS_FA_LOOKUPS_VIEWCHANGES
CMC_OBCDS_FA_PMT_AUTHORIZE           CMC_OBCDS_FA_PMT_AUTHORIZE           CMC_OBCDS_FA_PMT_AUTHORIZE           CMC_OBCDS_FA_PMT_AUTHQUERY           CMC_OBCDS_FA_PMT_CLOSE           CMC_OBCDS_FA_PMT_DELETE           CMC_OBCDS_FA_PMT_HISTORY           CMC_OBCDS_FA_PMT_NEW           CMC_OBCDS_FA_PMT_NEW           CMC_OBCDS_FA_PMT_VALIDATE_LOV           CMC_OBCDS_FA_PMT_VIEW           CMC_OBCDS_FA_PMT_VIEW           CMC_OBCDS_FA_PMT_VIEWALL           CMC_OBCDS_FA_PMT_VIEWALL           CMC_OBCDS_FA_PMT_VIEWCHANGES           CMC_OBCDS_FA_PPR_ACTIONS	System Parameter	CMC_OBCDS_FA_PMT_ACTIONS
Product Processor         CMC_OBCDS_FA_PMT_AUTHORIZE           CMC_OBCDS_FA_PMT_AUTHQUERY           CMC_OBCDS_FA_PMT_CLOSE           CMC_OBCDS_FA_PMT_DELETE           CMC_OBCDS_FA_PMT_HISTORY           CMC_OBCDS_FA_PMT_NEW           CMC_OBCDS_FA_PMT_REOPEN           CMC_OBCDS_FA_PMT_VALIDATE_LOV           CMC_OBCDS_FA_PMT_VIEW           CMC_OBCDS_FA_PMT_VIEW           CMC_OBCDS_FA_PMT_VIEWALL           CMC_OBCDS_FA_PMT_VIEWALL           CMC_OBCDS_FA_PMT_VIEWALL           CMC_OBCDS_FA_PMT_VIEWALL           CMC_OBCDS_FA_PMT_VIEWALL		CMC_OBCDS_FA_PMT_AMEND
CMC_OBCDS_FA_PMT_AUTHQUERY         CMC_OBCDS_FA_PMT_CLOSE         CMC_OBCDS_FA_PMT_DELETE         CMC_OBCDS_FA_PMT_HISTORY         CMC_OBCDS_FA_PMT_NEW         CMC_OBCDS_FA_PMT_NEW         CMC_OBCDS_FA_PMT_REOPEN         CMC_OBCDS_FA_PMT_VALIDATE_LOV         CMC_OBCDS_FA_PMT_VIEW         CMC_OBCDS_FA_PMT_VIEW         CMC_OBCDS_FA_PMT_VIEW         CMC_OBCDS_FA_PMT_VIEW         CMC_OBCDS_FA_PMT_VIEWALL         CMC_OBCDS_FA_PMT_VIEWCHANGES         Product Processor       CMC_OBCDS_FA_PPR_ACTIONS		CMC_OBCDS_FA_PMT_AUTHORIZE
CMC_OBCDS_FA_PMT_CLOSE           CMC_OBCDS_FA_PMT_DELETE           CMC_OBCDS_FA_PMT_HISTORY           CMC_OBCDS_FA_PMT_NEW           CMC_OBCDS_FA_PMT_NEW           CMC_OBCDS_FA_PMT_REOPEN           CMC_OBCDS_FA_PMT_VALIDATE_LOV           CMC_OBCDS_FA_PMT_VIEW           CMC_OBCDS_FA_PMT_VIEW           CMC_OBCDS_FA_PMT_VIEW           CMC_OBCDS_FA_PMT_VIEWALL           CMC_OBCDS_FA_PMT_VIEWCHANGES           Product Processor         CMC_OBCDS_FA_PPR_ACTIONS		CMC_OBCDS_FA_PMT_AUTHORIZE
CMC_OBCDS_FA_PMT_DELETE         CMC_OBCDS_FA_PMT_HISTORY         CMC_OBCDS_FA_PMT_NEW         CMC_OBCDS_FA_PMT_REOPEN         CMC_OBCDS_FA_PMT_VALIDATE_LOV         CMC_OBCDS_FA_PMT_VIEW         CMC_OBCDS_FA_PMT_VIEW         CMC_OBCDS_FA_PMT_VIEW         CMC_OBCDS_FA_PMT_VIEW         CMC_OBCDS_FA_PMT_VIEWALL         CMC_OBCDS_FA_PMT_VIEWALL         CMC_OBCDS_FA_PMT_VIEWCHANGES         Product Processor		CMC_OBCDS_FA_PMT_AUTHQUERY
Image:		CMC_OBCDS_FA_PMT_CLOSE
CMC_OBCDS_FA_PMT_NEW         CMC_OBCDS_FA_PMT_REOPEN         CMC_OBCDS_FA_PMT_VALIDATE_LOV         CMC_OBCDS_FA_PMT_VIEW         CMC_OBCDS_FA_PMT_VIEW         CMC_OBCDS_FA_PMT_VIEWALL         CMC_OBCDS_FA_PMT_VIEWCHANGES         Product Processor       CMC_OBCDS_FA_PPR_ACTIONS		CMC_OBCDS_FA_PMT_DELETE
CMC_OBCDS_FA_PMT_REOPEN         CMC_OBCDS_FA_PMT_VALIDATE_LOV         CMC_OBCDS_FA_PMT_VIEW         CMC_OBCDS_FA_PMT_VIEWALL         CMC_OBCDS_FA_PMT_VIEWALL         CMC_OBCDS_FA_PMT_VIEWCHANGES         Product Processor         CMC_OBCDS_FA_PPR_ACTIONS		CMC_OBCDS_FA_PMT_HISTORY
CMC_OBCDS_FA_PMT_VALIDATE_LOV CMC_OBCDS_FA_PMT_VIEW CMC_OBCDS_FA_PMT_VIEWALL CMC_OBCDS_FA_PMT_VIEWCHANGES Product Processor CMC_OBCDS_FA_PPR_ACTIONS		CMC_OBCDS_FA_PMT_NEW
CMC_OBCDS_FA_PMT_VIEW         CMC_OBCDS_FA_PMT_VIEWALL         CMC_OBCDS_FA_PMT_VIEWCHANGES         Product Processor         CMC_OBCDS_FA_PPR_ACTIONS		CMC_OBCDS_FA_PMT_REOPEN
CMC_OBCDS_FA_PMT_VIEWALL         CMC_OBCDS_FA_PMT_VIEWCHANGES         Product Processor         CMC_OBCDS_FA_PPR_ACTIONS		CMC_OBCDS_FA_PMT_VALIDATE_LOV
CMC_OBCDS_FA_PMT_VIEWCHANGES       Product Processor       CMC_OBCDS_FA_PPR_ACTIONS		CMC_OBCDS_FA_PMT_VIEW
Product Processor     CMC_OBCDS_FA_PPR_ACTIONS		CMC_OBCDS_FA_PMT_VIEWALL
		CMC_OBCDS_FA_PMT_VIEWCHANGES
CMC OBCDS FA PPR AMEND	Product Processor	CMC_OBCDS_FA_PPR_ACTIONS
		CMC_OBCDS_FA_PPR_AMEND
CMC_OBCDS_FA_PPR_AUTHORIZE		CMC_OBCDS_FA_PPR_AUTHORIZE
CMC_OBCDS_FA_PPR_AUTHORIZE		CMC_OBCDS_FA_PPR_AUTHORIZE
CMC_OBCDS_FA_PPR_AUTHQUERY		CMC_OBCDS_FA_PPR_AUTHQUERY
CMC_OBCDS_FA_PPR_CLOSE		CMC_OBCDS_FA_PPR_CLOSE
CMC_OBCDS_FA_PPR_DELETE		CMC_OBCDS_FA_PPR_DELETE



Screen Name	Functional Activity Code
	CMC_OBCDS_FA_PPR_HISTORY
	CMC_OBCDS_FA_PPR_NEW
	CMC_OBCDS_FA_PPR_REOPEN
	CMC_OBCDS_FA_PPR_VALIDATE_LOV
	CMC_OBCDS_FA_PPR_VIEW
	CMC_OBCDS_FA_PPR_VIEWALL
	CMC_OBCDS_FA_PPR_VIEWCHANGES
Pricing Model	CMC_OBCDS_FA_PRC_ACTIONS
	CMC_OBCDS_FA_PRC_AMEND
	CMC_OBCDS_FA_PRC_AUTHORIZE
	CMC_OBCDS_FA_PRC_AUTHORIZE
	CMC_OBCDS_FA_PRC_AUTHQUERY
	CMC_OBCDS_FA_PRC_CLOSE
	CMC_OBCDS_FA_PRC_DELETE
	CMC_OBCDS_FA_PRC_HISTORY
	CMC_OBCDS_FA_PRC_NEW
	CMC_OBCDS_FA_PRC_REOPEN
	CMC_OBCDS_FA_PRC_VALIDATE_LOV
	CMC_OBCDS_FA_PRC_VIEW
	CMC_OBCDS_FA_PRC_VIEWALL
	CMC_OBCDS_FA_PRC_VIEWCHANGES
Scoring Feature	CMC_OBCDS_FA_QFT_ACTIONS
	CMC_OBCDS_FA_QFT_AMEND



Screen Name	Functional Activity Code
	CMC_OBCDS_FA_QFT_AUTHORIZE
	CMC_OBCDS_FA_QFT_AUTHORIZE
	CMC_OBCDS_FA_QFT_AUTHQUERY
	CMC_OBCDS_FA_QFT_CLOSE
	CMC_OBCDS_FA_QFT_DELETE
	CMC_OBCDS_FA_QFT_HISTORY
	CMC_OBCDS_FA_QFT_NEW
	CMC_OBCDS_FA_QFT_REOPEN
	CMC_OBCDS_FA_QFT_VALIDATE_LOV
	CMC_OBCDS_FA_QFT_VIEW
	CMC_OBCDS_FA_QFT_VIEWALL
	CMC_OBCDS_FA_QFT_VIEWCHANGES
Qualitative Scoring Model	CMC_OBCDS_FA_QUAL_ACTIONS
	CMC_OBCDS_FA_QUAL_AMEND
	CMC_OBCDS_FA_QUAL_AUTHORIZE
	CMC_OBCDS_FA_QUAL_AUTHORIZE
	CMC_OBCDS_FA_QUAL_AUTHQUERY
	CMC_OBCDS_FA_QUAL_CLOSE
	CMC_OBCDS_FA_QUAL_DELETE
	CMC_OBCDS_FA_QUAL_HISTORY
	CMC_OBCDS_FA_QUAL_NEW
	CMC_OBCDS_FA_QUAL_REOPEN
	CMC_OBCDS_FA_QUAL_VALIDATE_LOV



Screen Name	Functional Activity Code
	CMC_OBCDS_FA_QUAL_VIEW
	CMC_OBCDS_FA_QUAL_VIEWALL
	CMC_OBCDS_FA_QUAL_VIEWCHANGES
Questionnaire	CMC_OBCDS_FA_QUES_ACTIONS
	CMC_OBCDS_FA_QUES_AMEND
	CMC_OBCDS_FA_QUES_AUTHORIZE
	CMC_OBCDS_FA_QUES_AUTHORIZE
	CMC_OBCDS_FA_QUES_AUTHQUERY
	CMC_OBCDS_FA_QUES_CLOSE
	CMC_OBCDS_FA_QUES_DELETE
	CMC_OBCDS_FA_QUES_HISTORY
	CMC_OBCDS_FA_QUES_NEW
	CMC_OBCDS_FA_QUES_REOPEN
	CMC_OBCDS_FA_QUES_VALIDATEQUSCODE
	CMC_OBCDS_FA_QUES_VALIDATE_LOV
	CMC_OBCDS_FA_QUES_VIEW
	CMC_OBCDS_FA_QUES_VIEWALL
	CMC_OBCDS_FA_QUES_VIEWCHANGES
	CMC_OBCDS_FA_QUES_VIEWPPR
	CMC_OBCDS_FA_QUES_VIEWQURCODE
Strategy Configuration	CMC_OBCDS_FA_STRATEGYCONFIG_AMEND
	CMC_OBCDS_FA_STRATEGYCONFIG_AUTHORIZE
	CMC_OBCDS_FA_STRATEGYCONFIG_AUTHQUERY

Screen Name	Functional Activity Code
	CMC_OBCDS_FA_STRATEGYCONFIG_VIEWCHANGES
	CMC_OBCDS_FA_STRATEGYCONFIG_CLOSE
	CMC_OBCDS_FA_STRATEGYCONFIG_DELETE
	CMC_OBCDS_FA_STRATEGYCONFIG_NEW
	CMC_OBCDS_FA_STRATEGYCONFIG_REOPEN
	CMC_OBCDS_FA_STRATEGYCONFIG_VIEW
	CMC_OBCDS_FA_STRATEGYCONFIG_VIEWALL
	CMC_OBCDS_FA_STRATEGYCONFIG_VALIDATE_LOV
	CMC_OBCDS_FA_STRATEGYCONFIG_HISTORY
	CMC_OBCDS_FA_STRATEGYCONFIG_ACTIONS
	CMC_OBCDS_FA_STRATEGYCONFIG_AUTHORIZE
Credit Bureau Display	CMC_CBR_FA_CBD_ACTIONS
-	CMC_CBR_FA_CBD_AMEND
	CMC_CBR_FA_CBD_AUTHORIZE
	CMC_CBR_FA_CBD_AUTHQUERY
	CMC_CBR_FA_CBD_CLOSE
	CMC_CBR_FA_CBD_DELETE
	CMC_CBR_FA_CBD_HISTORY
	CMC_CBR_FA_CBD_NEW
	CMC_CBR_FA_CBD_REOPEN
	CMC_CBR_FA_CBD_VALIDATE_LOV
	CMC_CBR_FA_CBD_VIEW
	CMC_CBR_FA_CBD_VIEWALL



Screen Name	Functional Activity Code
	CMC_CBR_FA_CBD_VIEWCHANGES
Criteria	CMC_CBR_FA_CRITERIA_ACTIONS
	CMC_CBR_FA_CRITERIA_AMEND
	CMC_CBR_FA_CRITERIA_AUTHORIZE
	CMC_CBR_FA_CRITERIA_AUTHQUERY
	CMC_CBR_FA_CRITERIA_CLOSE
	CMC_CBR_FA_CRITERIA_DELETE
	CMC_CBR_FA_CRITERIA_HISTORY
	CMC_CBR_FA_CRITERIA_NEW
	CMC_CBR_FA_CRITERIA_REOPEN
	CMC_CBR_FA_CRITERIA_VALIDATE_LOV
	CMC_CBR_FA_CRITERIA_VIEW
	CMC_CBR_FA_CRITERIA_VIEWALL
	CMC_CBR_FA_CRITERIA_VIEWCHANGES
Lookup	CMC_CBR_FA_LOOKUP_ACTIONS
	CMC_CBR_FA_LOOKUP_AMEND
	CMC_CBR_FA_LOOKUP_AUTHORIZE
	CMC_CBR_FA_LOOKUP_AUTHQUERY
	CMC_CBR_FA_LOOKUP_CLOSE
	CMC_CBR_FA_LOOKUP_DELETE
	CMC_CBR_FA_LOOKUP_HISTORY
	CMC_CBR_FA_LOOKUP_NEW
	CMC_CBR_FA_LOOKUP_REOPEN



Screen Name	Functional Activity Code
	CMC_CBR_FA_LOOKUP_VALIDATE_LOV
	CMC_CBR_FA_LOOKUP_VIEW
	CMC_CBR_FA_LOOKUP_VIEWALL
	CMC_CBR_FA_LOOKUP_VIEWCHANGES
System Parameter	CMC_FA_SYSTEM_PARAM_ACTIONS
	CMC_FA_SYSTEM_PARAM_AMEND
	CMC_FA_SYSTEM_PARAM_AUTHORIZE
	CMC_FA_SYSTEM_PARAM_AUTHQUERY
	CMC_FA_SYSTEM_PARAM_CLOSE
	CMC_FA_SYSTEM_PARAM_DELETE
	CMC_FA_SYSTEM_PARAM_HISTORY
	CMC_FA_SYSTEM_PARAM_NEW
	CMC_FA_SYSTEM_PARAM_REOPEN
	CMC_FA_SYSTEM_PARAM_VALIDATE_LOV
	CMC_FA_SYSTEM_PARAM_VIEW
	CMC_FA_SYSTEM_PARAM_VIEWALL
	CMC_FA_SYSTEM_PARAM_VIEWCHANGES
Product Processor	CMC_OBCBS_FA_PPR_ACTIONS
	CMC_OBCBS_FA_PPR_AMEND
	CMC_OBCBS_FA_PPR_AUTHORIZE
	CMC_OBCBS_FA_PPR_AUTHQUERY
	CMC_OBCBS_FA_PPR_CLOSE
	CMC_OBCBS_FA_PPR_DELETE



Screen Name	Functional Activity Code
	CMC_OBCBS_FA_PPR_HISTORY
	CMC_OBCBS_FA_PPR_NEW
	CMC_OBCBS_FA_PPR_REOPEN
	CMC_OBCBS_FA_PPR_VALIDATE_LOV
	CMC_OBCBS_FA_PPR_VIEW
	CMC_OBCBS_FA_PPR_VIEWALL
	CMC_OBCBS_FA_PPR_VIEWCHANGES
View Execution Summary	CMC_OBCDS_FA_SERVICE_LOG_VIEWALL
Model Training and Scoring	CMC_FA_ML_TS_MODEL_TRAINING
Model Definition	CMC_FA_ML_TS_USECASE_DEFINITION_GET
Annotator	CMC_NLP_FA_ANNOTATOR
Model Training	CMC_NLP_FA_MODEL_TRNG
Model Management	CMC_NLP_FA_MOD_MNGMNT_GET
Document Upload	CMC_NLP_FA_ONLINE_PROCESSING
Transaction Log	CMC_NLP_FA_PROCESSING_DASHBOARD
Use Case Definition	CMC_NLP_FA_TAG_CREATION_GET



# 10 Glossary

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

### Accounts

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

## Reports

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

#### **Pareto Chart**

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

#### Sunburst Chart

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

#### **Virtual Account**

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

## **Virtual Identifier**

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



# 11 List of Menus

- 1. 3P Service Integration 3.3 3P Service Integration (pg. 329)
- 2. Additional Field Maintenance 2.1 Additional Field Maintenance (pg. 9)
- 3. Advice 2.2 Advice (pg.11)
- 4. Amount Text Language 2.3 Amount Text Language (pg. 22)
- 5. BIC Directory 2.4 BIC Directory (pg. 25)
- 6. Borrowing Capacity 2.47 Borrowing Capacity (pg.219)
- 7. Branch EDD 2.5 Branch EOD (pg. 29)
- 8. Bureau Integration Service 2.35 Bureau Integration Service (pg. 133)
- 9. Country Code 2.6 Country Code (pg. 33)
- 10. Create Questionnaire 2.48 Questionnaire (pg. 232)
- 11. Credit Bureau Display 2.36 Credit Bureau Display (pg.136)
- 12. Criteria 2.38 Criteria (pg.146)
- 13. Currency Definition 2.7 Currency Definition (pg. 36)
- 14. Currency Exchange Rate 2.8 Currency Exchange Rate (pg. 42)
- 15. Currency Holiday Master 2.9 Currency Holiday Master (pg. 47)
- 16. Currency Pair Definition 2.10 Currency Pair Definition (pg. 50)
- 17. Currency Rate Type 2.11 Currency Rate Type (pg. 53)
- 18. Customer Category 2.13 Customer Category (pg. 58)
- 19. Decision Grade Matrix 2.52 Decision Grade Matrix (pg. 276)
- 20. Decision Service 2.41 Decision Service (pg. 178)
- 21. ECA System 2.14 ECA System (pg. 60)
- 22. Execution Summary 2.54 View Execution Summary (pg. 307)
- 23. External Bank Parameters 2.15 External Bank Parameters (pg. 62)
- 24. External Branch Parameters 2.16 External Branch Parameters (pg. 64)
- 25. External Chart Account 2.17 External Chart Account (pg. 67)
- 26. External Customer 2.18 External Customer (pg. 69)
- 27. External Customer Account 2.19 External Customer Account (pg. 72)
- 28. External Customer Account Structured Address 2.20 External Customer Account Structured Address (pg. 76)
- 29. External Virtual Account Structured Address 2.21 External Virtual Account Structured Address (p. 79)
- 30. Forget Process 2.22 Forget Process (pg. 80)
- 31. Host Code 2.23 Host Code (pg. 83)
- 32. Integrating Bureau Integration Service with Oracle Banking Routing Hub 2.34 Integrating Bureau Integration Service with Oracle Banking Routing Hub (pg.107)
- 33. Integrating Decision Service with Oracle Banking Routing Hub 2.40 Integrating Decision Service with Oracle Banking Routing Hub (pg. 158)
- 34. Language Code 2.24 Language Code (pg. 85)
- 35. Local Holiday 2.25 Local Holiday (pg. 87)
- 36. Validation Model 2.46 Validation Model (pg.196)



- 37. Lookup 2.37 Lookup (pg.187)
- 38. Media 2.26 Media (pg. 89)
- 39. Multi-Currency Account Linkage 2.27 Multi-Currency Account Linkage (pg. 92)
- 40. Operation 3.2 Operation (pg. 338)
- 41. Process Code 2.28 Process Code (pg. 94)
- 42. Pricing 2.53 Pricing (pg.292)
- 43. Pricing Source System 2.33 Pricing Source System (pg. 105)
- 44. Product Processor 2.42 Product Processor (pg.181)
- 45. Qualitative Scoring Model 2.49 Qualitative Scoring Model (pg. 238)
- 46. Quantitative Scoring Model 2.51 Quantitative Scoring Model (pg. 257)
- 47. Scoring Feature 2.50 Scoring Feature (pg. 253)
- 48. Strategy Configuration 2.45 Strategy Configuration (pg.199)
- 49. System Dates 2.29 System Dates (pg. 97)
- 50. System Parameter 2.44 System Parameter (pg.193)
- 51. Transaction Code 2.30 Transaction Code (pg. 98)
- 52. Toolkit 3.1 Toolkit (pg.328)
- 53. Upload Source 2.31 Upload Source (pg. 100)
- 54. Upload Source Preferences 2.32 Upload Source Preference (pg. 102)
- 55. Customer Access Group 2.12 Customer Access Group (pg. 56)



# 12 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.

