### **Oracle® Banking Platform**

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## Preface

This guide describes how to administer the Oracle Banking Platform Applications environment, including user administration, batch execution, DPA approvals, application monitoring, and bank, branch and channels set up.

This guide describes how to administer the Oracle Banking Enterprise Product Manufacturing application environment, including user administration, batch execution, application monitoring, and bank and branch setup

Oracle recommends that you review its contents before installing, or working with the product.

This preface contains the following topics:

- Audience
- Documentation Accessibility
- Organization of the Guide
- Related Documents
- Conventions

### **Audience**

This guide is intended for the administrators of Oracle Banking Platform.

### **Documentation Accessibility**

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at

http://www.oracle.com/us/corporate/accessibility/index.html

#### Access to Oracle Support

Oracle customers have access to electronic support through My Oracle Support. For information, visit http://www.oracle.com/us/corporate/accessibility/support/index.html#info or visit http://www.oracle.com/us/corporate/accessibility/support/index.html#trs if you are hearing impaired.

### Organization of the Guide

This document contains:

#### Chapter 1 Users Administration

This chapter describes all user management related activities to be performed by an administrator for Oracle Banking Platform.

#### Chapter 2 Approvals Management

This chapter describes Discretionary Pricing Assessment (DPA) approvals, manual credit decision approvals, worklist authorization related activities, and SOA Composer rules setup to be performed as an administrator.

Chapter 3 Defining Task Configuration Rules

This chapter describes various configurations that can be done for human tasks.

#### Chapter 4 Data Management

This chapter describes data related activities to be performed as an administrator.

#### Chapter 5 Setting Up The Bank And Branch

This chapter provides the process of setting up the bank and the branch commonly referred to as the Day 0 setups. It gives the details of the Administration User Interface (UI) offered by Oracle Banking Channels Bank User Experience, using which, the administrator can perform a bank and a branch setup.

#### Chapter 6 Setting Up Sales Offer Handoff

This chapter describes the sales offer handoff related activities to be performed as an administrator.

#### Chapter 7 Setting Up Product

This chapter describes the process of setting up the product. Products need to be configured manually from the Sales Offer Handoff file. The steps for manually adding Product in OCH are explained in this chapter.

#### Chapter 8 Setting Up Channels

This chapter describes the process of setting up the channels.

#### Chapter 9 Application Monitoring Using OBP Application

This chapter provides an overview on the various monitoring operations performed as an administrator using Oracle Banking Platform screens.

#### Chapter 10 Application Monitoring Using OBP EM Plugin

This chapter provides an overview on the various monitoring operations performed as an administrator, using Oracle Banking Platform - Enterprise Manger (EM) Plugin.

#### Chapter 11 Configuration Export-Import Operations

This chapter gives an insight to the Configuration Export-Import operations.

#### Chapter 12 Batch Shells in OBP

This chapter describes the batch shells used in Oracle Banking Platform and their execution sequence.

#### Chapter 13 Configuration Management of Oracle Banking using FSM

This chapter provides an overview of Functional Setup Manager (FSM), its benefits and key features related to the configuration of Oracle Banking.

#### Chapter 14 Information Lifecycle Management (ILM)

This chapter describes the configuration, installation, and policy setup of Information Lifecycle Management (ILM).

#### Chapter 15 Transparent Data Encryption (TDE)

This chapter describes the configuration, installation, and policy setup of Transparent Data Encryption (TDE).

#### Chapter 16 Masking Customer Private Data

This chapter describes the configuration, installation, and policy setup to mask customer private data categories as sensitive or Personally Identifiable Information (PII).

#### Chapter 17 Configure ODI for Inbound Document Upload

This chapter provides the steps to configure ODI for Inbound Document Upload

Chapter 18 Additional Recommendations

This chapter provides specific recommendations to be considered for implementation:

## **Related Documents**

For more information, see the following documentation:

- For installation and configuration information, see the Oracle Banking Installation Guide Silent Installation.
- For a comprehensive overview of security for Oracle Banking, see the Oracle Banking Security Guide.
- For the complete list of Oracle Banking licensed products and the Third Party licenses included with the license, see the Oracle Banking Licensing Guide.
- For information related to customization and extension of Oracle Banking, see the Oracle Banking Extensibility Guide.
- For information on the functionality and features of the Oracle Banking product licenses, see the respective Oracle Banking Functional Overview documents.

### Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

## **1 Users Administration**

This chapter describes all user management related activities to be performed by an administrator for Oracle Banking Platform.

## 1.1 Creating Users in Oracle Identity Manager (OIM)

This section explains the procedure to create users in Oracle Identity Manager (OIM).

#### To create users in OIM:

1. Log in to OIM with the User ID as **xelsysadm** and the relevant <Password>.

Figure 1–1 Creating Users in OIM - Log in

ORACLE* Identity		op=3107908350449761&_afrWindowMode=0&_afrWir	e	Q Search Accessibility	<b>☆</b> Help	About	Oracle	•	
	Sign In	Sign in with your account User ID xelsysadm Password Sign in Forgot User Login? Forgot Password? New User Registration Track My Registration							
Copyright @ 2001, 2015, Oracle and/or its at	filates. All rights res	erved							

2. Click **Users** under the Manage section.

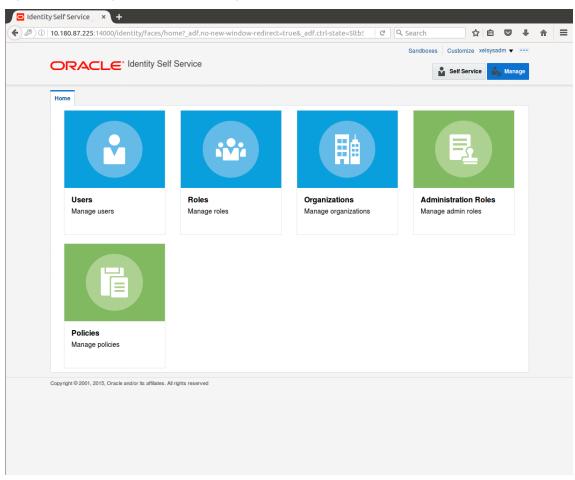


Figure 1–2 Creating Users in OIM - Manage Section

- 3. In the Search Users page, search for existing users. The Search Results appear.
- 4. Click Create in the Search Results section to create a new user.

0.180	0.87.225:14000/ic	lentity/faces/hom	ie?_adf.no-new-	window-redirec	t=true&_adf.ctrl-	state=ry1k 💙 🛛 C	Q, Search	☆	ê 🛡
							Sandboxes	s Customize xel	sysadm 🔻
	RACLE	<ul> <li>Identity Self S</li> </ul>	Service					Self Service	📩 Mana
Home	Users ×								C
🔒 L	Jsers								
		_	0.14						
Searc	bisplay Name	<u> </u>	Q Ad	vanced					
Actio	ons 🔻 View 🔻	+ Create / Op	en 🗘 Refresh	🖙 📄 Det	ach				
	User Login	Display Name	First Name	Last Name	Organization	Telephone Number	E-mail	Identity Status	Account
	HARRY	Harry Potter	Harry	Potter	Xellerate Users		Harry@gmail.com	Active	Unlocked
	OIMINTERNAL	Internal User	OIMINTERNAL	OIMINTERNAL	Xellerate Users			Active	Unlocked
			WEBLOGIC	WEBLOGIC	Xellerate Users			Active	Unlocked
	WEBLOGIC	Weblogic User	WEDEOCIO						
opyrigh	XELSYSADM	Weblogic User System Adminis e and/or its affiliates. All ri	System	Administrator	Xellerate Users		donotreply@ora	Active	Unlocked
opyrigh	XELSYSADM	System Adminis	System				donotreply@ora	Active	Unlocked
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opyrigh	XELSYSADM	System Adminis	System				donotreply@ora	Active	Unlocked
opyrigh	XELSYSADM	System Adminis	System				donotreply@ora	Active	Unlocked
opyrigh	XELSYSADM	System Adminis	System				donotreply@ora	Active	Unlocked

Figure 1–3 Creating Users in OIM - Click Create

5. In the Create User page, enter the required user details.

ntity Self Service ×							
i) <b>10.180.87.225</b> :1400	00/identity/faces/home?_adf.no-new-window-	redirect=true&_adf.ctr	l-state=ry1k C	Q Search	☆ 自 ♥	↓ 俞	-
	E* Identity Self Service			Sandboxes Custo	mize xelsysadm 🔻 🚥		
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Password * Confirm Password		0					
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Start Date	i e						
End Date	tio						
▲ Provisionina I							

Figure 1–4 Creating Users in OIM - Enter User Details

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* Confirm Password					
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End Date	1.				
Provisioning Dates					
Provisioning Date	Ťô				
Deprovisioning Date	ίœ				
Contact Information					
Telephone Number		Postal Address			
Home Phone		Postal Code			
Fax		POStar Code			
Mobile		State			
Pager		Street			
Home Postal Address		Country			
Preferences					
Locale	-				
Timezone					
A Other Attributes					
Common Name		Locality Name			
Department Number		Initials			
Employee Number		Title			
Generation Qualifier					
Hire Date	to				

Figure 1–5 Enter User Details (Continued)

6. Click Submit.

On completion of this procedure the user gets created in OIM, and gets synced in OID.

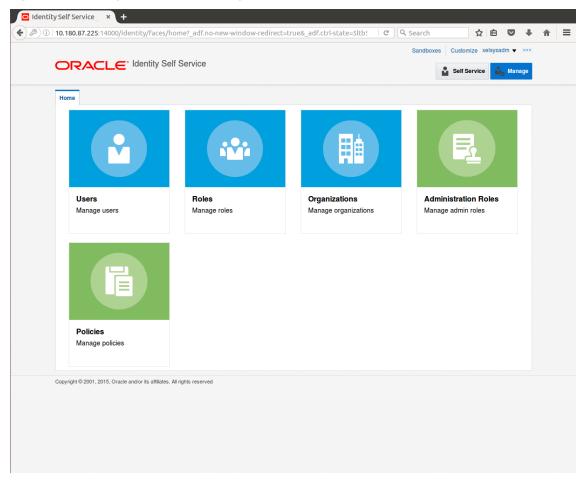
### **1.2 Creating Roles in Oracle Identity Manager (OIM)**

This section explains the procedure to create roles in Oracle Identity Manager (OIM).

To create roles in OIM:

1. Click **Roles** under the Manage section.

Figure 1–6 Creating Roles in OIM - Manage Section



- 2. In the Search Roles page, search for existing roles. The Search Results appear.
- 3. Click **Create** in the Search Results section to create a new Role.

Home Roles x	
Search Name	- Q Advanced
Actions View V	+ Create / Open X Delete () Refresh 📴 🖺 Detach
Name	Role Description
🏜 ALL USERS	Default role for all users
Administrators	Administrators role for SOA
📸 BIReportAd	Administrators role for BI Publisher Reports
OPERATORS	Operator role
SELF OPER	Operator role for self registration
SYSTEM AD.	System Administrator role for OIM
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Figure 1–7 Creating Roles in OIM - Click Create

4. Fill the role details.

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			Sandboxes Customize xelsysadi						
DRACLE <sup>®</sup> Identi						Self Service Manag			
Home Roles x Create Role x	1					[			
Create Role									
This wizard walks you through the s	teps to create a Role.								
Back Attributes	Hierarchy	Access Policy	Members	Organizations	Summary	Cancel Next			
* Display Name	TestFullAccess								
Role E-mail									
Role E-mail									
Role E-mail Role Description	TestFullAccess								
Role Description	TestFullAccess System Administrator	Q							
Role Description		Q.							
Role Description * Owned By	System Administrator	Q							
Role Description * Owned By A Catalog Attributes	System Administrator								
Role Description * Owned By Catalog Attributes * Category	System Administrator								

Figure 1–8 Creating Roles in OIM - Enter Role Details

5. Click **Finish.** The role is created successfully.

This role creates a group in OID.

While running the PIT (Policy Import tool), the Enterprise role (OIM role or OID group in this scenario) is mapped to the Application Role in OES.

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ORACLE	• Identit	y Self Service					
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Home Roles x Cre	ate Role ×						
Create Role							
This wizard walks you t	hrough the ste	eps to create a Role.					
Back O	20	Hierarchy	Access Policy	Members	Organizations	Summary	Cancel Finish
		· · · · · · · · · · · · · · · · · · ·	,,		organizatorio	,	
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Role Definition Review the information		far, and click Finish to c	create the role.				
⊿ Attributes							
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Di	anlay Name	TestFullAccess					
	Role E-mail						
		TestFullAccess					
Role	Description						
	Owned Ry	System Administrator					
▶ Catalog At	-	Gystelli Administrator					
► Hierarchy	inputeo						
<ul> <li>Access Po</li> </ul>	licy						
Members	licy						
,							
Organization	JIIS						

Figure 1–9 Creating Roles in OIM - Role Created Successfully

### **1.3 Assigning Roles to Users in OIM**

This section explains how to assign roles to the user in OIM.

To assign a role to a user:

- 1. Log in to OIM.
- 2. Navigate to the Roles Tab under the User.
- 3. Click Request Roles.

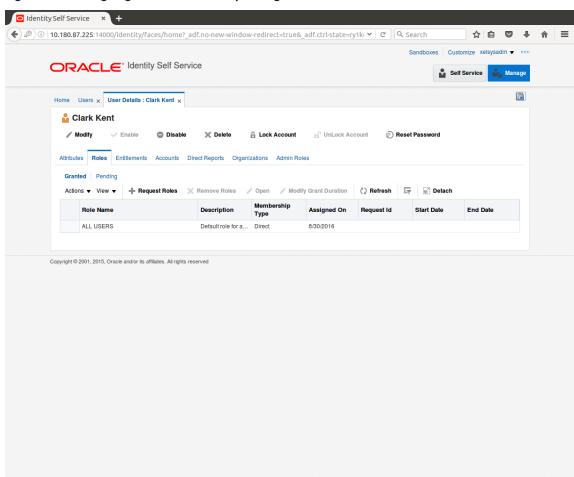


Figure 1–10 Assigning Roles in OIM - Requesting Roles

4. In the Catalog page, select the required role and click Add to Cart. The item gets added to the cart.

Home Users 🗙 User Details : Clark Kent	× Role Access Request ×			[
Back		Checkout Cancel	lext	Cart 🛒 Clark Kent 👥
Search Categories Sort By Display Nar	ne 🗸	- Ad	d Selected to Cart	
Categories Sort By Display Nar	ccess		d Selected to Cart	
Role (1)				
Copyright © 2001, 2015, Oracle and/or its affiliates. All	rights reserved			

Figure 1–11 Assigning Roles in OIM - Adding to Cart

5. Click Checkout.

	Back	Add Access	Checkout	Cancel	Next			Cart	0
								Clark Kent	0
Search and select i	ndividual items from the C	atalog tab. Sets of pre-bu	ndled items commo	only used in your or	ganizatior	I can be selecte	d from the Rec	quest Profiles ta	ıb.
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Search Keyw	rord								
,	Search								
		-							
Categories	Sort By Display Name	•		+	Add Selec	ted to Cart			
Select All	TestFullAcces				0 4	In Cart			
Role (1)									
opyright © 2001, 2015, Or	acle and/or its affiliates. All right	s reserved							

Figure 1–12 Assigning Roles in OIM - Checkout Cart

6. In the Cart Details page, click Submit.

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ORACL	e Identity Self S	ervice				Self S		age
Home Users x	User Details : Clark Kent 🗙	Role Access Requ	est x					
	Back	Add Access	Checkout	Cancel	Next		Clark Kent 🎦	
Cart Details						Submit	Save As <b>v</b>	
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Justification								
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Grant	Duration							
	Grant will be effectiv	e immediately upon re	quest completion					
	Start Date	to	End Date	Ťo				

Figure 1–13 Assigning Roles in OIM - Submit Cart

On completion of this procedure the role gets assigned to the user in OIM.

## 1.4 Locking Users in OIM

This section explains how to lock the user in OIM.

To lock a user:

- 1. Log in to OIM.
- 2. Click Lock Account to lock a user.

A message appears, Are you sure you want to lock the account for the following user?

3. Click Lock.

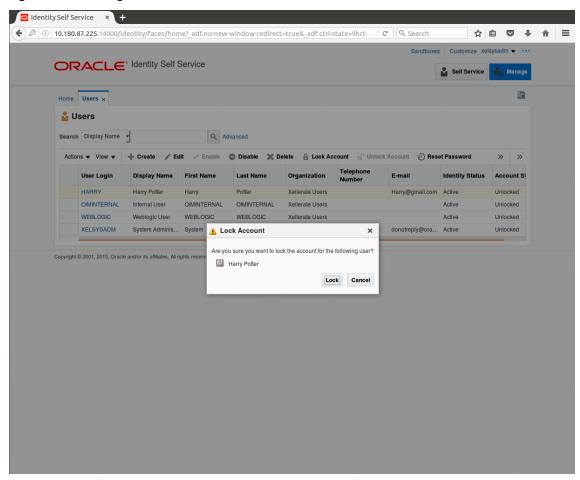


Figure 1–14 Locking Users in OIM

The user is locked successfully.

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Actions 🔻	r Login	Create  Ed Display Name	it 🗸 Enable First Name	Disable X D Last Name	Organization	Count Count	E-mail	et Password	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
						Number			
HAR	INTERNAL	Harry Potter Internal User	Harry	Potter	Xellerate Users Xellerate Users		Harry@gmail.com	Active	Locked Unlocked
	BLOGIC	Weblogic User	WEBLOGIC	WEBLOGIC	Xellerate Users			Active	Unlocked
	SYSADM	System Adminis		Administrator	Xellerate Users		donotreply@ora		Unlocked
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Figure 1–15 User Locked Successfully

# 1.5 Unlocking Users in OIM

This section explains how to unlock the user in OIM.

### To unlock a user:

- 1. Log in to OIM.
- 2. Click Unlock Account to unlock a user.

A message appears, Are you sure you want to Unlock these users?

3. Click Unlock.

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count unicence suc							Self Service	🎝 Manage
Users ×								
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ns 🔻 View 🔻	+ Create / Ed	lit 🗸 Enable	Disable X D	elete 🔒 Lock Ad	count 📄 Unio	ck Account 🐑 Res	et Password	» »
User Login	Display Name	First Name	Last Name	Organization	Telephone Number	E-mail	Identity Status	Account St
HARRY	Harry Potter	Harry	Potter	Xellerate Users		Harry@gmail.com	Active	Unlocked
OIMINTERNAL	Internal User	OIMINTERNAL	OIMINTERNAL	Xellerate Users			Active	Unlocked
WEBLOGIC	Weblogic User	WEBLOGIC	WEBLOGIC	Xellerate Users			Active	Unlocked
XELSYSADM	System Adminis	System	Administrator	Xellerate Users		donotreply@ora	Active	Unlocked
	Sers Display Name ns View V User Login HARRY OMINTERNAL WEBLOGIC XELSYSADM	SerS Display Name	SerS Display Name Create Edit Enable User Login Display Name First Name HARRY Harry Potter HARRY Harry Potter HARRY WEBLOGIC Weblogic User WEBLOGIC	SerS Display Name Create Edit Edit Edit Edit Edit Edit Edit Edit	SerS Display Name Create Edit Edit Enable Disable Corganization HARRY Harry Poter Harry Poter Xellerate Users OMINTERNAL Internal User OIMINTERNAL OIMINTERNAL Xellerate Users WEBLOGIC Weblogic User WEBLOGIC WEBLOGIC Xellerate Users XELSYSADM System Adminis System Administrator Xellerate Users	SerS Display Name Create Creat	Sers	SerS Display Name Create Creat

Figure 1–16 Unlocking Users in OIM

The user is unlocked successfully.

# 1.6 Resetting User Password in OIM

This section explains how to reset user password in OIM.

- 1. Log in to OIM.
- 2. Click **Reset Password** to reset a user password.

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	Users								
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	tions View V				elete 🔒 Lock Ad	count 🕤 Unioc	ck Account 💿 Res	et Password	» »
	User Login	Display Name	First Name	Last Name	Organization	Telephone Number	E-mail	Identity Status	Account St
	HARRY	Harry Potter	Harry	Potter	Xellerate Users		Harry@gmail.com	Active	Unlocked
	OIMINTERNAL	Internal User	OIMINTERNAL	OIMINTERNAL	Xellerate Users			Active	Unlocked
	WEBLOGIC	Weblogic User	WEBLOGIC	WEBLOGIC	Xellerate Users			Active	Unlocked
	XELSYSADM	System Adminis	System	Administrator	Xellerate Users		donotreply@ora	Active	Unlocked
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Figure 1–17 Resetting User Password in OIM

The **Reset Password** dialog box appears.

You can select either **Manually change the Password** option to change the password manually or select the **Auto-generate the password (Randomly generated)** option to enable auto generation of the password.

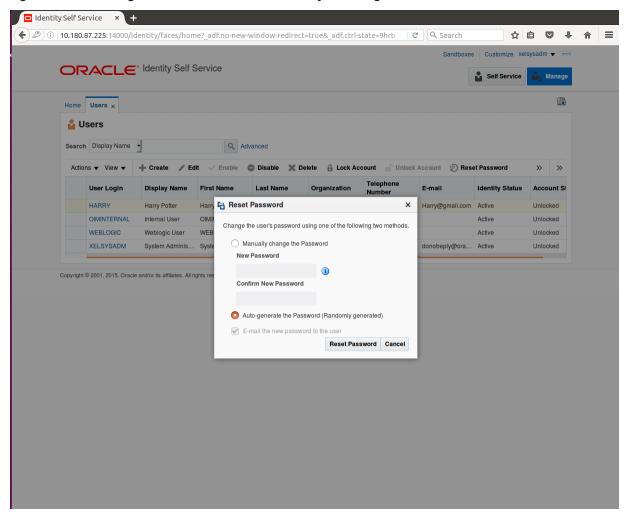


Figure 1–18 Resetting User Password in OIM - Manually or Auto-generate

3. If you select the **Manually change the Password** option, enter the new password in the **New Password** and the **Confirm New Password** fields.

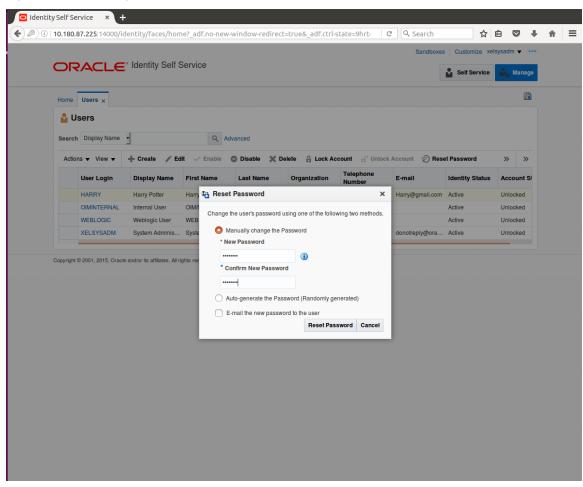
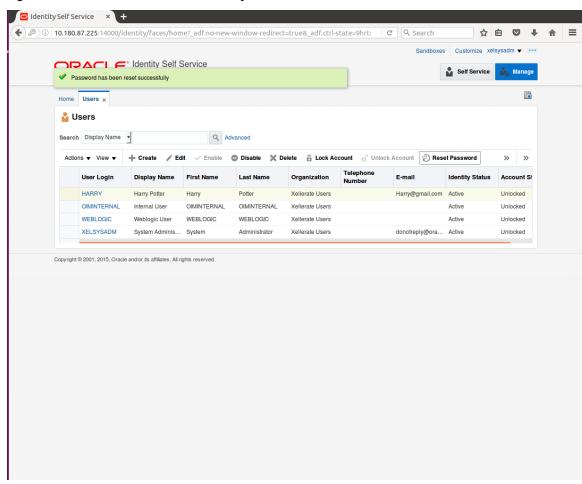


Figure 1–19 Resetting User Password in OIM - New Password

The user password is reset successfully.



#### Figure 1–20 Password Reset Successfully

## **1.7 User Management Using the Admin Application**

The User Management screen is a quick start UI, provided to create initial users and verify the OBP installation.

https://<ui-server-name>:<ui-server-port>/com.ofss.fc.ui.view.admin/faces/admin.jspx

To create initial users and verify the installation, perform the below mentioned steps:

- 1. Click Security tab in View Admin.
- 2. Select User Management.
- 3. Click + icon to add a user.

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( User Deta	ills Form Username	Preferre	ed Language	_			Edit A	pply cf	anges	Assign	n Role
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í User Deta	ils Form Username First Name Last Name Email	Preferre	ed Language Accrediation Brand 2FA Status				Edit A	pplyct	anges	Assign	1 Role
	ilis Form Username First Name Last Name Email Password	Preferre	ed Language Accrediation Brand 2FA Status m Nick Name				Edit A	pply cł	anges	Assign	1 Role
	ils Form Username First Name Last Name Email	Preferre	ed Language Accrediation Brand 2FA Status m Nick Name Party Id				Edit A	pply cł	anges	Assign	1 Role
	ilis Form Username First Name Last Name Email Password Confirm password	Preferro Forur Last Logged	ed Language Accrediation Brand 2FA Status m Nick Name				Edit A	pply cf	anges	Assign	1 Role

### Figure 1–21 Adding a User

4. Enter the mandatory fields required for creating a user.

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• Username • First Name	Harry Harry Potter	mc	Accredia	and		Edit Apply d	changes	Assign	Ro
Username     First Name     Last Name	Harry Harry Potter Harry@gmail.co	m	Accredia	and atus		Edit Apply c	changes	Assign	Ro
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• Username • First Name • Last Name • Emai • Password	Harry Harry Potter Harry@gmail.co		Accredia Bi 2FA St Forum Nick N	and atus		Edit Apply c	changes	Assign	Ro
Username     First Name     Last Name     Emai     Password     Confirm password	Harry Harry Potter Harry@gmail.cc Harry@gmail.cc	m	- Accredia Bi 2FA St Forum Nick N Par	and		Edit Apply c	changes	Assign	Ro

### Figure 1–22 Enter Mandatory Details

5. Click **Apply Changes** to save the user details locally.

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Username First Name Last Name Email Home Branch Manager	Harry Harry Potter Harry@gmail.com 1010		Accrediation Brand 2FA Status m Nick Name Party Id			Edit A	pply cha	anges	Assig	n Role
Username First Name Last Name Email Home Branch Manager	Harry Harry Potter Harry@gmail.com 1010	Forun Last Logged	Accrediation Brand 2FA Status m Nick Name Party Id			Edit A	pply ch	anges	Assig	n Role

### Figure 1–23 Applying Changes

6. To add a user to a group, select the row containing the user and click **Assign Roles**.

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	User Detail	ls Form					Edit	Apply	changes	Assign	Roles	
	Username	Harry	Preferre	d Language								
	First Name	Harry		Accrediation								
	Last Name	Potter		Brand								
		Harry@gmail.com		2FA Status								
	Home Branch	1010	Forum	Nick Name								
	Manager		Last Logged i	Party Id								
	Target Unit	GLBL_BU_PB	2FA Inactive									
				ve End Date								

## Figure 1–24 Adding User to a Group

The available and assigned roles appear.

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Groups	GLBL_BU_PB		Assigned R Role								
Iarry Groups NI Roles Role	GLBL_BU_PB		Assigned R Role								
Iarry Groups NI Roles Role	GLBL_BU_PB		Assigned R Role								

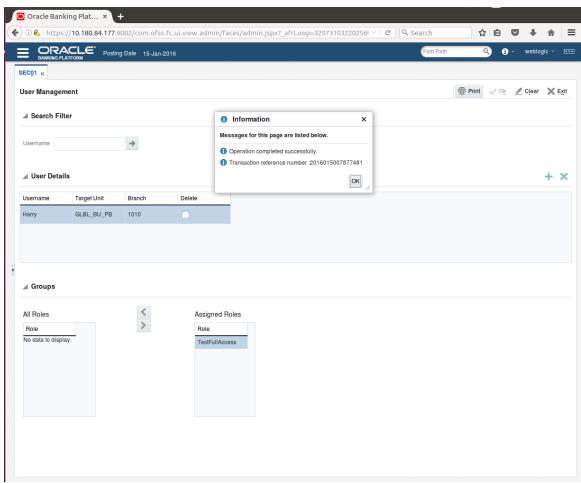
Figure 1–25 Available and Assigned Roles

7. Select the group to add user and move it to the **Assigned Roles** table.

	ng Plat ×							_	
				es/admin.jspx?_afrLoop=32073103220256!	C Q Search	ୁ ନ ଦ	â 🛡 () -	weblogic	<b>^</b>
	FORM Postin	g Date 15-Jan-:	2016		Tastraut	~	•••	weblogic	
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User Details									+ ×
Username	Target Unit	Branch	Delete						
Harry	GLBL_BU_PB	1010							
Groups									
All Roles Role No data to display		<	Assigned Ro Role TestFullAcce						

Figure 1–26 Adding User to Assigned Roles Table

8. Click **Ok** to save the changes.



### Figure 1–27 Save Changes

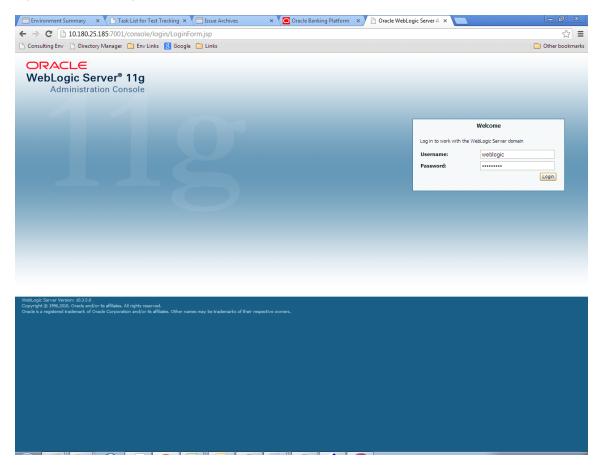
# 1.8 Unlocking Users in Oracle WebLogic Server (OWS) Administration Console

This section explains the procedure to unlock users in Oracle WebLogic Server (OWS) using Administration Console. If users unsuccessfully attempt to log in to a WebLogic Server instance for more than the configured number of retry attempts, they are locked out of further access. This procedure allows you to unlock locked users so that they can log in again.

To unlock a user in OWS:

1. Log in to OWS. The **Home Page** of OWS Administration Console appears.

### Figure 1–28 OWS Log in



2. In the **Domain Structure** section, click the **base\_domain** link.

Consulting Env 📄 Directory Manager	🗀 Env Links 💈 Google 🦳 Links		🗀 Other boo
hange Center	🗎 Home Log Out Preferences 🔤 Record Help	Q	Welcome, weblogic Connected to: base_o
iew changes and restarts	Home		
ck the Lock & Edit button to modify, add or	Home Page		
ete items in this domain.	- Information and Resources		
Lock & Edit	Helpful Tools	General Information	
Release Configuration	Configure applications	Common Administration Task Descriptions	
ain Structure	Configure GridLink for RAC Data Source	<ul> <li>Read the documentation</li> </ul>	
domain	Recent Task Status	<ul> <li>Ask a question on My Oracle Support</li> </ul>	
Invironment	<ul> <li>Set your console preferences</li> </ul>	<ul> <li>Oracle Guardian Overview</li> </ul>	
base_domain	Oracle Enterprise Manager		
Services Security Realms	- Domain Configurations		
Interoperability			
Diagnostics	Domain	Services	Interoperability
	Domain	Messaging     JMS Servers	WTC Servers     Jolt Connection Pools
	Environment	Store-and-Forward Agents	Joir Connection Pools
	Servers	<ul> <li>JMS Modules</li> </ul>	Diagnostics
	Clusters	<ul> <li>Path Services</li> </ul>	Log Files
	Virtual Hosts	<ul> <li>Bridges</li> </ul>	Diagnostic Modules
w do I	Migratable Targets	Data Sources	Diagnostic Images
Search the configuration	Coherence Servers	Persistent Stores	Request Performance
Jse the Change Center	Coherence Clusters	XML Registries	Archives
Record WLST Scripts	Machines	XML Entity Caches	Context
Change Console preferences	Work Managers	<ul> <li>Foreign JNDI Providers</li> </ul>	SNMP
fonitor servers	<ul> <li>Startup And Shutdown Classes</li> </ul>	Work Contexts	
		• jCOM	Charts and Graphs
stem Status E		Mail Sessions     FileT3	<ul> <li>Monitoring Dashboard  </li> </ul>
alth of Running Servers	Deployments	<ul> <li>File13</li> <li>JTA</li> </ul>	
Failed (0)	Your Application's Security Settings	• 314	
Critical (0)	Security Realms		
Overloaded (0)	· Security recurs		
Warning (0)			
OK (2)			

### Figure 1–29 base\_domain

10.180.25.185:7001/console/console.portal?\_nfpb=true&\_pageLabel=DomainConfigGeneralPage&DomainConfigGeneralPortlethandle=com.bea.console.handlesJMXHandle%28\*com.bea%3AName%3Dbase\_domain%2CType%3DDoma...

3. In the **Settings for base\_domain** page that appears, click the **Security** tab.

### Figure 1–30 Security tab

🖞 Consulting Env 📄 Directory Manager 🧧	🕽 Env Links 🚦 Google 🦳 Links		C Other book
	Administration Console		Ģ
hange Center	🔒 Home Log Out Preferences 🔤 Record Help	Q	Welcome, weblogic Connected to: base_dom
iew changes and restarts	Home >base_domain		
ick the Lock & Edit button to modify, add or elete items in this domain.	Settings for base_domain		
Lock & Edit	Configuration Monitoring Control Security	Web Service Security Notes	
Release Configuration	General JTA JPA EJBs Web Application	Tab Log Filters	
omain Structure	Click the Lock & Edit button in the Change Center to	modify the settings on this page.	
ase domain	Save		
}-Services -Security Realms }-Interoperability Polagnostics	domain. * Indicates required fields		. Use this page to configure administrative options that apply to all servers in the current
	* Name:	base_domain	The name of this WebLogic Server domain. More Info
	Enable Administration Port		Specifies whether the domain-wide administration port should be enabled for this WebLogic Server domain. Because the administration port uses SSL, enabling the administration port requires that SSL must be configured for all servers in the domain. More Info
low do I	Administration Port:	9002	The common secure administration port for this WebLogic Server domain. (Requires you to enable the administration port.) More Info
Configure the domain-wide administration port Archive configuration files Disable the Console	🚝 Production Mode:	true	Specifies whether all servers in this domain run in production mode. Once enabled, this can only be disabled in the admin server startup command line. More Info
vystem Status  realth of Running Servers  Failed (0)	$\Box_{a_{\rm E}^{\rm E}}$ Enable Exalogic Optimizations		Specifies whether optimizations for Oracle Exalogic should be enabled. Optimizations include improved thread management and request processing, and reduced lock contention. This attribute should be enabled only when configuring a WebLogic domain for Oracle Exalogic. For more information, see "Enabling Exalogic-Specific Enhancements in Oracle WebLogic Server 11g Release 1 (10.3:4)" in the Oracle Exalogic Deployment Guide. More Info
Critical (0) Overloaded (0) Warning (0)	🗌 🛃 Enable Cluster Constraints		Specifies that deployments targeted to a cluster succeed only if all servers in the cluster are running. More Info
OK (2)	🗌 🐴 Enable on-demand deployment of intern	nal applications	Specifies whether internal applications such as the console, uddi, wistestclient, and uddiexplorer are deployed on demand (first access) instead of during server startup. More Info
	🗌 🛃 Enable Oracle Guardian Agent		Specifies whether the Guardian Agent is deployed when starting servers in the current domain. More Info
	- De Advanced		
	Save		

- 4. Click the **Unlock User** tab.
- 5. In the Unlock User field, enter the User ID to unlock the user.

Environment Summary × Task	List for Test Tracking 🗙 🚺 Is	sue Archives	× Oracle	Banking Platform	× 🗅 Security - ba	se_domain - \ ×	
← → C 🗋 10.180.25.185:7001/c	onsole/console.portal?_nfp	b=true&_pageLa	bel=DomainUn	lockUserPage&h	andle=com.bea.co	onsole.handles.JMXHandle%28"com.bea%3AN	lame%☆ 〓
🗅 Consulting Env 🗋 Directory Manager 🚺	🗎 Env Links  🚷 Google 🗀 Li	nks				<u></u>	Other bookmarks
	Administration Console						Q
Change Center	Home Log Out Preferences	Record Help		Q		Welcome, weblogic Connected	to: base_domain
View changes and restarts	Home >base_domain						
Click the Lock & Edit button to modify, add or delete items in this domain.	Settings for base_domain						
Lock & Edit	Configuration Monitoring (	Control Security	Web Service Security	Notes			
Release Configuration	General Filter Unlock Us	er Embedded LDAP	Roles Policies				
Domain Structure	Save						
B-Environment B-Environment B-Services B-Services I-Security Realms	If a user unsuccessfully attemp This page allows you to unlock			e than the configured	number of retry attempt	s, they are locked out of further access.	
Interoperability     Diagnostics	Unlock User:	HardikA			N	ame of a specific user to unlock. More Info	
	Save						
How do I							
Unlock user accounts							
Set user lockout attributes							
System Status							
Health of Running Servers							
Failed (0)           Critical (0)           Overloaded (0)           Warning (0)           OK (2)							
WebLogic Server Version: 10.3.5.0 Copyright © 1996,2010, Oracle and/or its affiliates. All Oracle is a registered trademark of Oracle Corporation	rights reserved. and/or its affiliates. Other names may b	e trademarks of their resp	pective owners.				

### Figure 1–31 Unlock User

6. Click **Save.** The message User successfully unlocked appears.

Environment Summary 🛛 🗙 🗋 Task	List for Test Tracking 🗙	: 🚺 Issue A	Archives	×	Oracle B	anking Platfor	m ×	🗋 Security - base_domain - 🛙 🗙 🚺		l d x
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🗋 Consulting Env 🗋 Directory Manager 🕻	🛅 Env Links 🛛 Goog	le 📋 Links								📋 Other bookmarks
←       C       □       10180.251.85:7001/console/console.portal?_nfpb=true&_pageLabel=DomainUnlockUserPage&handle=com.bea.console.handlesJMXHandle%28*com.bea%3AName% 分         □       Consulting Five       □       Directory Manager       □       Directory Manager       □       Other bookmas		Õ								
View changes and restarts Click the Lock & Edit button to modify, add or dekte items in this domain. Lock & Edit Release Configuration Dase_domain IP Environment IP Services Security Realms IP Interoperability	Home >base_domain Hessages Vuer successfully Settings for base_d Configuration Mor General Filter Save If a user unsuccess This page allows you	unlocked. omain itoring Contr Unlock User	ol Security Embedded LDAF	Roles I	e Security Policies	Notes	ured num		of further access.	nnected to: base_domain
Unlock user accounts	Save									
System Status										
Failed (0)           Critical (0)           Overloaded (0)           Warning (0)           OK (2)	l rights reserved. n and/or its affiliates. Other n	ames may be tra	demarks of their re	espective owne	115.					

Figure 1–32 User Successfully Unlocked

On completion of this procedure the user gets unlocked in OWS.

## 1.9 Creation of first time user to access OBP

This section explains the procedure to create the first bank user having access to the application.

### Note

Make the default authenticator as sufficient in host console and reorder it below OID Authenticator. Also change 'cn' attribute to 'uid' in the All Users Filter and User From Name Filter in OID Authenticator provider specific properties.

- Log in to OIM using the admin user *xelsysadm*. Create a new role in OIM as described in Section 1.2 Creating Roles in Oracle Identity Manager (OIM). For example, fullaccessrole. This creates a group in OID (fullaccessrole).
- 2. Log in to admin application using the weblogic user. Create a user as described in Section 1.7 User Management Using the Admin Application. For example, john.doe.

- 3. Add the user (john.doe) to the fullaccessrole.
- 4. Map the application role Administrators to the Enterprise Group fullaccessrole in EM (refer screenshots below). After doing this, the user should have access to all artifacts assigned to the 'Administrators' role. These access rights can be viewed in OES.

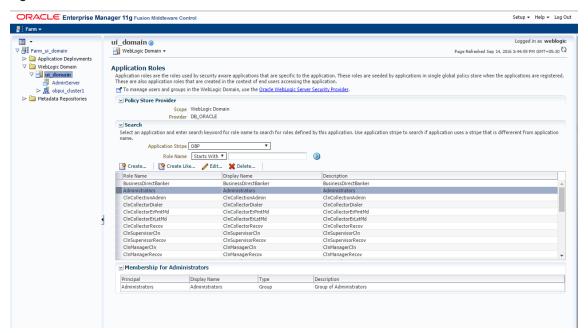
ORACLE ζ2 Enterprise Manager 11g **Fusion Middleware Control** Login to Oracle Fusion Middleware Control Farm Farm\_ui\_domain \* User Name weblogic \* Password Login Enhanced User Experience New Features Did you know... Menu Based Navigation Finding a feature in Enterprise Manager is now easy with menus. Well-designed menu navigation makes the product easy to learn and remember. ♥ SOA Management You can manage, monitor and diagnose the SOA infrastructure, as well the composite applications you deploy. You can configure service engine such as DFEL, Hedator, Human Work Flow and can deploy and manage SCA composite applications. Manage and Secure Web Services and SOA Applications Provide and secure web services and SOA Applications You can manage and secure Web services and SOA applications. You can define new service policies. You can enforce service policies of service endpoints. You can also test Web service endpoints and monitor their performance and faults. well as > Interactive Correlation Charts > Identity Management ▷ Dynamic Context Menu > WebCenter Management > Context Sensitive Help Copyright © 1996, 2015, Oracle. All rights res Oracle is a registered trademark of Oracle Cor Other names may be trademarks of their reso

Figure 1–33 Log in Oracle Fusion Middleware Control

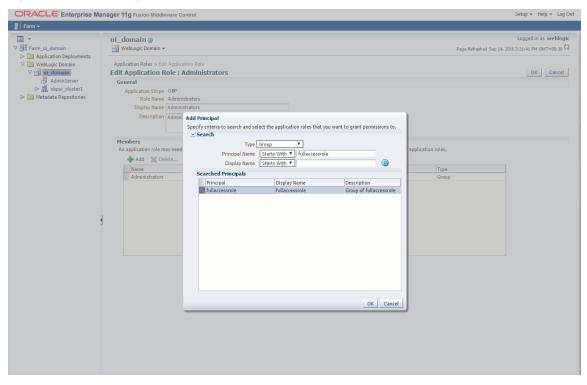


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V       Application Deployments         V       WetLagic Domain         V       WetLagic Control         Logs	€ • i3131374.in.or i3131391.in.or i3131374.in.or

Figure 1–35 Select Administrators Role







# 2 Approvals Management

This chapter describes Discretionary Pricing Assessment (DPA) approvals, manual credit decision approvals, worklist authorization related activities, and SOA Composer rules setup to be performed as an administrator.

This chapter includes the following topics:

- Discretionary Pricing Assessment (DPA)
- Discretionary Credit Assessment (DCA)
- Enabling Worklist Authorization
- SOA Composer Rules Setup

# 2.1 Discretionary Pricing Assessment (DPA)

This section explains the procedure for Discretionary Pricing Assessment (DPA) approvals.

### Overview

DPA can be configured for fee negotiations happening in an account during online transactions as well as for UDM. DPA service is to be called from the respective screens for DPA rule resolution and authorization functionality.

Fee can be configured in following list of modules and functions. DPA service will be called from the following screens:

Sr.No	Function
1	Loan account configuration (New or Amend)
2	CASA account configuration
3	Term deposit account configuration
4	Overdraft account configuration (New or Account)
5	Origination or Application processing Fees

Table 2–1 List of Functions for Fee Configuration

Fee amount applicable for the event is displayed in the fee panel in the respective screens. If there is any negotiation (upward or downward) that happens in the fee panel, the relevant issues have been raised/postponed for the Patch set release.

UDM can be configured in following list of modules and functions. DPA service is called from the following screens:

### Table 2–2 List of Functions for UDM Configuration

Sr. No	Function
--------	----------

1	Loan account configuration (New or Amend)
2	CASA account configuration
3	Term deposit account configuration
4	Overdraft account configuration (New or Account)

## 2.1.1 Setup Details

This section discusses the setup details required to configure the DPA services.

## 2.1.1.1 Policy Setup in UI

To initiate, the user needs to set up policies in UI for auto approval. This policy specifies which transactions with what data will be auto approved. When the data that is sent from the application matches the policy setup, the transaction is auto approved and if the policy is not matched, then the transaction goes for approval.

Following is the procedure to be followed during UI policy setup:

1. Log in to the OBP UI as a valid user.

### Figure 2–1 Log in to OBP UI to Configure Policies

Cracle Banking Platform X	≃ – 6 ×
← → C A Not secure   berp5://10.180.33.251.8002/com.ofss.fc.ui.view/login.html	☆ :
Deepaks_us  Sign In Use Vitual Keyboard	
V.C. 2.5.0.2.0 Copyright 2011, 2016, Cracle and/or its affiliates. All rights reserved	
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2. Enter SM502 in the fast path.

Oracle Banking Platform X	<b>▲</b> - Ø
> C A Not secure   bttps://10.180.33.251:8002/com.ofss.fc.ui.view/faces/main.jspx	☆
	sm502 Q 📩 🔖 V 🚺 - Deepaks_us -
<b>#</b>	Post Paul
Map My Day	0
TT insta Text 👩 Cluick Serve	
	How do we predict this? Cash-O-Meter USD
	This day last year
	Total Transactions 0
No data to display	Cash 0 20.0K 40.0K Non-Cash 0 20.0K In 0.0
rev and a conserver	- Actual Day Today
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Figure 2–2 Search for SM502 in Fast Path

3. Click **Search.** The following screen appears.

Enter the service for which policy needs to be defined.

The service needs to be given as [Service\_ID]/FC\_PR\_FEE\_OVR or [Service\_ID]/FC\_PR\_UDM\_ OVR as shown above.

For example,

 $com.ofss.fc.appx.origination.service.lending.core.application.LendingApplicationServiceSpi.confirmStructureSolution/FC_PR_FEE_OVR$ 

### Figure 2–3 Policy Management

Cracle Banking Platform X			1	- 6	×
← → C A Not secure Https://10.180.33.251:8002/com.ofss.fc.ui.view/faces/main.jspx					☆ :
BANKING FLATFORM Posting Date Apr 5, 2016	Fast Path	<u> </u>	j - De	epaks_us	
★ SM502 ×					
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⊿ Resource Name					
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NAME Name	EFFECT ACTION	DESCRIPTION	ROLES	CONDIT	TIONS
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The following screen appears:

### Figure 2–4 Enter Service for Policy Definition

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E ORACLE Posting Date Apr 5, 2016	Fast Path		9 * *	X 0 - 0	eepaks_us 🗸 🚦
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4. Click the + sign if you need to add a new policy along with the Role for which the policy is to be enabled.

<u> </u>	Cracle Banking Platform X				1	- 0	×
←	C A Not secure HMTS://10.180.33.251:8002/com.ofss.fc.ui.view/faces/main.jspx					\$	r :
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	Resource com ofss fc appx origination service Jending core application.LendingApplicationServiceSpi.confirmStructureSolution/FC_PR_FEE_OVR						
	Resource Type SERVICE						
	A Policy Table						
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				ADMINISTRATO	Administrators	CONDITIONS	5
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### Figure 2–5 Effect of the Policy

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✓ Policy Table						
NAME	EFFECT	ACTION	DESCRIPTION	ROLES	COND	ITIONS
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5. To add conditions, select the check box in the conditions column. This displays a collapsible section arrow in the first column. Click the arrow to display the conditions panel as shown below. Enter the conditions needed for the policy.

### Figure 2–6 Action of the Policy

	C A Not secure   https://10.180.3	3.251:8002/c	om.ofs	s.rc.ui.view/faces/main.j	Jspx							1
	BANKING PLATFORM Posting Date	Apr 5, 2016						Fast Path		9 * *-	X 0-	Deepaks_us 🗸
A Resource Name   Resource Com dbs & app: origination service landing core application.Lending.Application.ServiceSpi confirm:StructureSolution.FC_PR_FEE_OVR Resource Type SERVICE	SM5 <u>0</u> 2 ×											
Resource controls Lappin reignation service landing core application LendingApplicationServiceSpi continnStructureSolutionFC_PR_FEE_OVR Resource Type SERVICE	licy Management									÷	Print 🗸 O <u>K</u>	🗾 Clear 🗙
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Policy Table         View *       + X		Resource co	m.ofss.f	fc.appx.origination.service.	lending.core.applic	ation.LendingAp	licationServiceSpi.confirmStructureSolution/FC_PR_FEE_OV	R				
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View     + X     Image: Detach       ADMINISTRATORS_OBP_APPX_ORIGINATION_SERVICE_LENDING_CORE_APPLICATION_ENDINGAPPLICATIONSERVICESPL_CONFIRMISTRUCTURESOLUTION_FC_PR_FEE_O     EFFECT     ACTION     DESCRIPTION     ROLES     CONDITION       LendingMatrix_BusinessUnit     • • • • • • • • • • • • • • • • • • •												
View     + X     Image: Detach       ADMINISTRATORS_OBP_APPX_ORIGINATION_SERVICE_LENDING_CORE_APPLICATION_LENDINGAPPLICATIONSERVICESPL_CONFIRMSTRUCTURESOLUTION_FC_PR_FEE_O     EFFECT     ACTION     DESCRIPTION     ROLES     CONDITION       LendingMattric_BusinessUnit     • = •     BUSINESS_UNIT     AND •     + X     X     X     X     X     X     X       LendingMattric_DepositionumRange     • = •     100000     AND •     + X     X     X     X     X     X     X	Policy Table											
Administrators_OBP_APPX_ORIGNATION_SERVICE_LENDING_CORE_APPLICATION_LENDINGAPPLICATIONSERVICESPI_CONFIRMISTRUCTURESOLUTION_FC_PR_FEE_O     EFFECT_GRANT     PERFORM_VIT_     Administrators     @       LendingMatric_BusinessUnit     •     •     BUSINESS_UNIT     AND •     +     X       LendingMatric_BusinessUnit     •     •     BUSINESS_UNIT     AND •     +     X       LendingMatric_BusinessUnit     •     •     •     PRODUCT_GROUP     AND •     +     X       LendingMatric_DepositionsouritRange     •     •     •     •     •     •     •     •     •     •	-											
ADMINISTRATORS_OBP_APPX_ORIGNATION_SERVICE_LENDING_CORE_APPLICATION_LENDINGAPPLICATIONSERVICESPI_CONFIRMISTRUCTURESOLUTION_FC_PR_FEE_O EFFECT_GRAIN PERFORM_WIT. ADMINISTRATO Administrators LendingMateric_BusinessUnit • • • BUSINESS_UNIT AND • + X LendingMateric_ProductGroup • • • PRODUCT_GROUP AND + X LendingMateric_DepositAmounRange • • • • 100000 AND + X	View 🔻 🕂 🗙 🗟 Detach											
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LendingMatrix_DepositAmouniRange	LendingMatrix_BusinessUnit	۲	•	BUSINESS_UNIT	AND <b>T</b>		F X					
	LendingMatrix_ProductGroup	۲	- •	PRODUCT_GROUP	AND	+	×					
LendingMatrix_IndustryCode • R • 1010000	LendingMatrix_DepositAmountRange	٣	- •	100000	AND	+	×					
	LendingMatrix_IndustryCode	•	• •	ID10000	AND	+	×					

### Figure 2–7 Conditions of the Policy

### 2.1.1.2 SOA Composer Rules Setup

After the rules are set up in UI, you must set up approval rules in SOA composer. These rules should cover all scenarios in which the transaction can come out without being auto approved at the policy level. Any transaction which does not trigger the rules at SOA Composer level is auto rejected.

The following procedure is performed during SOA Composer rules setup:

1. Log in to the SOA Composer application as a user with administrative privileges.

Figure 2–8 Log in	to SOA Composer			
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2. In the **Filter** field in the left panel, enter the name of the rule for the service.

### For example:

HT\_LendingSpi\_ConfirmStructureSolutionRules.rules

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### Figure 2–9 Find the Rules for Service

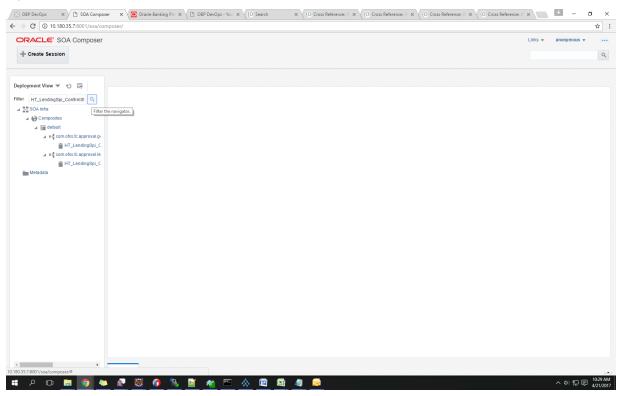


Figure 2–10 Filter Rules

3. Click the rules file present in the process beginning with name com.ofss.fc.approval.genericrulesapprovalspi.executeapprovalrules.

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Figure 2–11 Searching Specific Process

4. Click the **Create Session** tab to modify the rules.

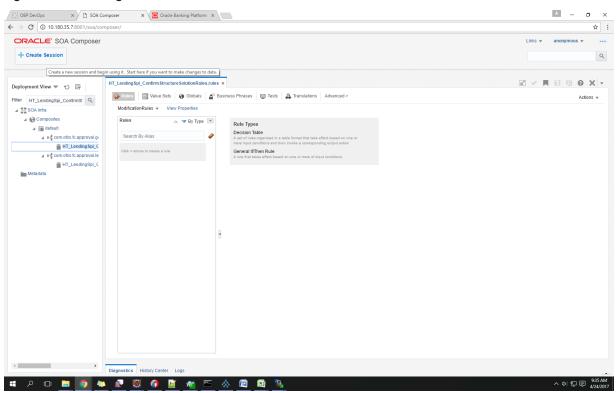
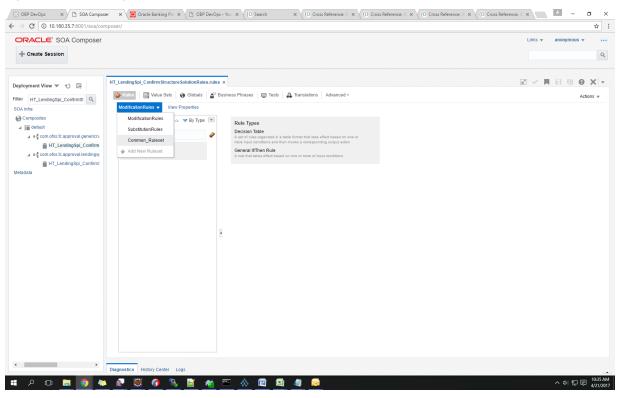


Figure 2–12 Creating the Rule

5. From the ModificationRules list, select the Common\_Ruleset option as shown below.



### Figure 2–13 Selecting Rules File

6. Select the rule and add attributes to the rule.

Note

The rule being created must be Active rule.

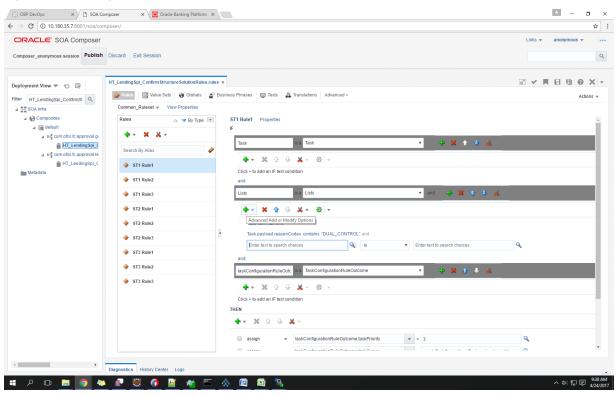


Figure 2–14 Adding Attributes to the Rule File

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		THEN	

Figure 2–15 Adding Attributes to the Rule File

7. Click Validate to validate the rules file.

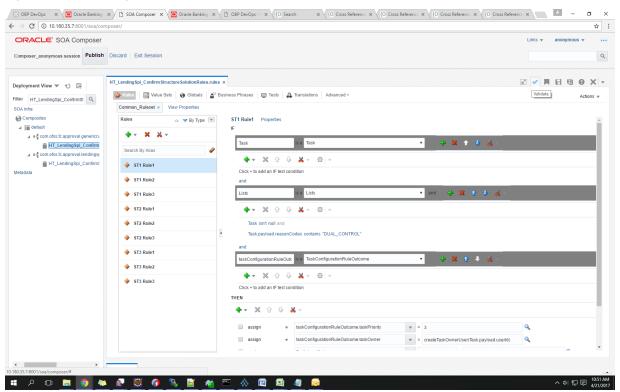


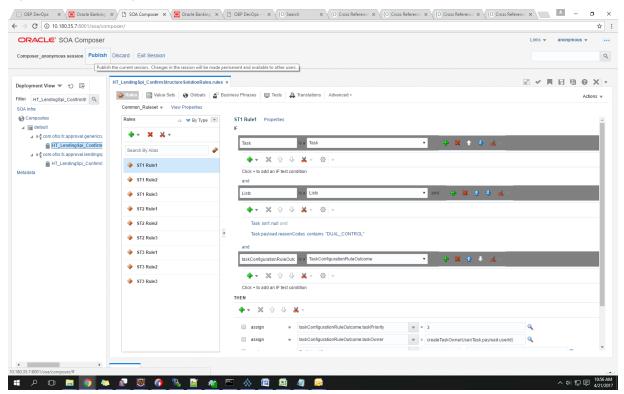
Figure 2–16 Validating Rules File

8. Click Save to save the rules.

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			-					-

## Figure 2–17 Saving Rules File

9. Click **Publish**to publish the rules once editing of rules is done.



#### Figure 2–18 Publishing Rules File

## 2.1.1.3 SMS Setup

The user also needs to set up overridable exception for the application to send the transaction to worklist application. This can be achieved through the **Severity** tab in **Artifact Dependency Map (Fast Path: SM500)** page.

#### Note

The given procedure provides details on SMS setup for Fees. The same procedure can be followed for SMS Setup for UDM with UDM related details.

The following procedure is performed during SMS setup:

1. In the **Search Text** field, enter the service name.

For example, to search for a service, search text can be as follows:

 com.ofss.fc.appx.origination.service.lending.core.application.LendingApplicationServiceSpi.c onfirmStructureSolution

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		OTHER OTHER PAGE			
		General Details Permissions A	pproval Checks Service Attributes Service Javadoc		

Figure 2–19 Search for Service Using Entire Service Name

2. Navigate to service node by following highlighted path (in grey color) and select the service node.

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Figure 2–20 Select the Service to be Configured

3. Click the **Severity** tab to maintain severity for the resource. Severity can be maintained using add row, delete, and save buttons in the toolbar.

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## Figure 2–21 Severity Tab - Add Severity

# 2.1.2 Performing the Transaction

Following procedure explains how to perform a transaction:

1. Log in to the OBP application as teller user and initiate the transaction.

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Figure 2–22 Initiating Transaction

Figure 2–23 Fee Negotiation

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2. Log in to the approval worklist as approver user and open the work item.

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Copyright © 2005, 2016, Oracle and/or its affiliates. All rights reserved.		ORACLE
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Figure 2–24 Log in to Approval Worklist

3. You can either approve or reject the work item (approved here) after adding comments.

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			Additional Parameters		Customer Contribution		Renew		
			Bank Fees	\$585.60			Suspend		
			Misc Fees	\$165.00			~		
							*		

Figure 2–25 Approve or Reject Work item

4. View the status of the work item.

The initiator user can see the status of the work item from the **Work Item Inquiry (Fast path: WL001)** page (only for non origination task).

WLQ01 ×  WLQ01 ×  ork Item Inquiry  ork List  Work Item Inquiry								ast Path	<u> </u>	÷*·X0-	Deepaks_us 🗸
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Work Item Inquiry											
	From Posting Dat	e Apr 5, 2016 👸					To Po	sting Date Apr 5, 201	6 🔯		
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	Party I	0					Transa	ction Type Please Se	lect v		
_											Search Rese
View 👻 📴 Detach											Search Rese
View v 📴 😭 Detach	Party ID	Transaction Type	Task Code	Entered By	Final Approver ID	Work Item Status	Nature of Transaction	Account Number	Amoun	t Fee Amount	Search Rese
view v 💽 🐼 Detach		Transaction Type Financial Transaction	Task Code CASA005	Entered By Deepaks_us	Final Approver ID	Work Item Status AUTO APPROVED	Nature of Transaction Normal	Account Number 100022168			
View v F R Detach	000002518 0000002518	Financial Transaction	CASA005 CASA024	Deepaks_us Deepaks_us	Final Approver ID sdeepak_us	AUTO APPROVED APPROVED	Transaction Normal Normal	100022168 100022168	Amou \$200.0	0 \$4.00	
View v C C Detach	7 000002518 0 000002518 7 000002468	Financial Transaction Non Financial Transaction Financial Transaction	CASA005 CASA024 CASA005	Deepaks_us Deepaks_us Deepaks_us		AUTO APPROVED APPROVED AUTO APPROVED	Transaction Normal Normal Normal	100022168	Amour \$200.0 \$500.0	0 \$4.00	
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Figure 2–26 Viewing Status of Work item

# 2.2 Discretionary Credit Assessment (DCA)

This section explains steps in Discretionary Credit Decision approvals.

## Overview

In Origination workflow at Credit Assessment stage, user submits the submission to credit decision engine. If the credit decision status of the submission is Declined or Referred, then submission is moved to manual decision step. The user attached to Enterprise role having rights on Manual Decision Task can assess the credit decision engine recommendation, make the necessary changes and recommend for approval. The system checks whether the role to which user is attached has required authority to approve the task based on values of parameters in the task. If yes, the task is auto authorized. If the values are not within the limits attached to the role, the system checks the approval matrix to find the roles having the required authority to approve the transaction and route task to such roles for approval.

Facts Required for MCD Approvals

Following are the facts required for MCD approvals.

## Table 2–3 Facts Required for the MCD Approvals

State
Business Unit
Currency
Personal Aggregate Application Amount

Overall Aggregate Application Amount
Applicant Credit Card Limit
Aggregate Credit Card Limit
LTV Category Group 1
LTV Category Group 2
LTV Category Group 3
LTV Category Group 4
LTV Category Group 5
Overview Amount
Overview Percentage

These are the facts required to maintain the rules for MCD in OES and SOA. The preconditions are:

- OES configurations
- Group creation in SOA
- Rules configuration in SOA

Scenario: Submission with Referred status and breaching OES configurations, hence transaction sent for approvals in SOA.

## 2.2.1 Setup Details

This section discusses the setup details required to configure the DCA services.

## 2.2.1.1 Policy Setup in UI

To initiate, the user needs to set up policies in UI for auto approval. This policy specifies which transactions with what data will be auto approved. When the data that is sent from the application matches the policy setup, the transaction is auto approved and if the policy is not matched, then the transaction goes for approval.

Following is the procedure to be followed during UI policy setup:

1. Log in to the OBP UI as a valid user.

## Figure 2–27 Log in to OBP UI to Configure Policies

Oracle Banking Platform X	± – a ×
← → C 🛆 Not secure   https://10.180.33.251:8002/com.ofss.fc.ui.view/login.html	☆ :
Concention	
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2. Enter SM502 in the fast path.

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BANKING PLATFORM Posting Date Apr 5, 2016	sm502 🤍 🤸 🤸 🗸 🚯 - Deepaks_us -
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	This day last year
	Total Transactions 0
	Cash 0 20.0K 40.0K
No data to display	Non-Cash 0 10.0K 50.0K In 0.00 Out 0.00
	- Actual Day Today
	Projected Day     Average Day
	— Avalaĝa Dak
My Transactions	Q
No Transactions Executed Today	

Figure 2–28 Search for SM502 in Fast Path

3. Click **Search.** The following screen appears.

Enter the service for which policy needs to be defined.

For example,

 $com.ofss.fc.appx.origination.service.lending.core.application.LendingApplicationServiceSpi.confirmS\ tructureSolution.$ 

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★ WLQ01 × SM502 ×			
Policy Management		r 🔁 Print 🗸 Og	🗹 Clear 🗙 Exit
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A Policy Table			
View - + 🗙 🖾 Detach			
NAME No data to display.	EFFECT ACTION	DESCRIPTION ROLES	CONDITIONS
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## Figure 2–29 Policy Management

The following screen appears:

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					1) 臣官

Figure 2–30 Enter Service for Policy Definition

4. Click the + sign if you need to add a new policy along with the Role for which the policy is to be enabled. The rest of the fields are automatically populated.

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- 41						◎ 🖓 🛡 4/21/2017

## Figure 2–31 Effect of the Policy

## Figure 2–32 Action of the Policy

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5. To add conditions, select the check box in the conditions column. This displays a collapsible section arrow in the first column. Click the arrow to display the conditions panel as shown below. Enter the conditions needed for the policy.

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AD	INISTRATORS_OBP_APPX_ORIGINATION_SERVICE_LENDING_CORE_APPLICATION_LENDINGAPPLICATIONSERVICESPI_CONFIRMSTRUCTURESOLUTION_PERFORMWIT	EFFECT_GRANT	PERFORM_WIT	ADMINISTRATO.	. Administrators	1
naingi	latix_ProductGroup • = • PRODUCT_GROUP AND • + 🗙					

### Figure 2–33 Conditions of the Policy

## 2.2.1.2 SOA Composer Rules Setup

For more information on setting up rules in SOA Composer, see {Color}Section 2.1.1.2, "SOA Composer Rules Setup." {Default  $\P$  Font}

## 2.2.1.3 SMS Setup

The user also needs to enable matrix-based authorization for the DCA service. This can be done through the **Approval Checks** tab in **Artifact Dependency Map (Fast path: SM500)** page which is used for enabling approval.

The following procedure is performed during SMS setup:

 In the Search Text field, enter the service name. com.ofss.fc.appx.origination.service.lending.core.application.LendingApplicationServiceSpi.confirmS tructureSolution

. 0	RACLE' Posting Da	ate 06-Oct-2016		Fast Path	🝳 🛧 💺 🗙 🚯 🗸 OFSSUser 🗸
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		<ol> <li>Selecting items from suggest item list will result in</li> <li>For faster and finer searches, please use 'task-code</li> <li>For a combination of artifacts and general search, p</li> </ol>	Narch, m, u composed, please effer search test containing the resource disoription, (Example : diport search line and accessed search. The search accessed search in the search of the search lines are accessed search for a planes, (Example : StadWolf Hegens) can't planes these search accessed search of the planes, (Example : and (Example ) and (Example ) diport of the search of		
		other oner Page			
		General Details Permissions Approv	al Checka Severity Service Attributes Service Javadec		

Figure 2–34 Search for Service Using Entire Service Name

2. Navigate to service node by following highlighted path (in grey color) and select the service node.

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			com.ofss.fc.appx Collection - CaseCentricActio Update SERVICE	com.ofss.fc.appx.l Loan - LoanScheduleSim Simulate And Save Repayment Schedule SERVICE	com.ofss.fc.appx Collection - SupervisoryLogDtl Create SERVICE	com.ofss.fc.appx.s Sms - InternalUserMana Maintain Users SERVICE	com.ofss.fc.appx.r Resourceitem - ResourceItemLink. Delete Resource Item Linkage SERVICE	com.ofss.fc.appx Party - ImageApplication Update Image SERVICE	com.ofss.fc.appx.l. Loan - LoanScheduleCon Get Current Stage For Loan Stage Configuration SERVICE	com.ofss.fc.appx Party - FatcaDetailsAppli Reopen Fatca Details SERVICE	com.ofss.fc.appx.t Td - InvestmentSimula Fetch Frequencies For Product SERVICE	com.ofss.fc.appx Collection - VendorAllocAlgLi Create SERVICE	com.ofss.fc.appx Dda - SweepOutInstruct Close Sweep Out Instruction SERVICE	com.ofss.fc.appx Ops - NounApplicationS Fetch Rollups SERVICE
			com.ofss.fc.appx Pricing - EventPriceApplica Get Compute Fee On Charge Date SERVICE	com.ofss.fc.appx.l Integration - MOMBatchIntegra Add M D M Batch Integration Log SERVICE	com.ofss.fc.appx Collection - ValidateVictimPa Read SERVICE	com.ofss.fc.appx.c Collection - ActionApplication Update SERVICE	com.ofss.fc.appx Pricing - TransactionDetail Add Transaction Details Analysis SERVICE	com.ofss.fc.appx.l Loan - LoanApplicationS Validate Loan Account Configuration Step SERVICE	com.ofss.fc.appx Party - FinancialStateme. Reopen Financial Statement SERVICE	com.ofss.fc.appx Pricing - EventMaintenanc Inquire Event SERVICE	com.ofss.fc.appx Party - PartyLastActivityA Fetch Party Last Activity SERVICE	com.ofss.fc.appx.i Ins - PropertyInsuranc Save Selected Quote Sepurce	com.ofss.fc.appx Origination - LendingApplicatio Confirm Structure Solution Solution	com.ofss.fc.appx Pc - BillerCategoryApp Import Andfetch Biller Category seource pl Confirm Structure S
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						BRN	FC OR AGNT		IGNO					

Figure 2–35 Select the Service to be Configured

3. Click the Approval Checks tab to maintain approval checks for the resource.

Select the **MATRIX\_AUTH** checkbox and save the record.

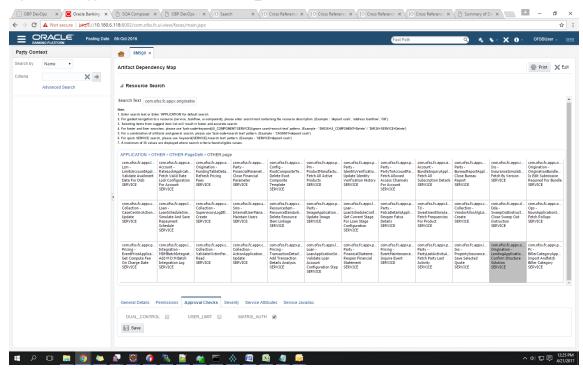


Figure 2–36 Approval Checks tab - MATRIX\_AUTH

## 2.2.2 Performing the Transaction

Following procedure explains how to perform a transaction:

1. Log in to the application as teller user and initiate an origination task flow such that the application goes for approvals.

Avonas Frances Application Form Posting Date Apr 5, 2016 Deepaids_us  Submission Status Processing Status Submission SUB301020160003566 has been processed.	
Processing Status Submission SUB301020160003566 has been processed.	
Unsecured Overdraft Manufactured Group - Billing of \$200,000.00 for 2 years	
Parties Amrit Sarangi (000000220) Affiliates -	
Aminates - Application ID APP301020160002801	
Borrowing Entity Amrit Sarangi -: BE2016001000067	
Facility ID FC20160960001761	
Approved Amount \$200,000.00	
Decision Status Approved Approval Expiry Date May 17, 2016	
Track Application	

## Figure 2–37 Initiating Origination Task Flow

- 2. Log in to BPM worklist as the initiator user who initiated the origination process.
- 3. Select to approve the lending confirmStructureSolution task created for the user.

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my lasks	Approval Required	for Structure Solution (FC_PR_Disbursement_F	ee+LN_DISBURSEMENT_FEE_OVR,DU	JAL_CONTROL, FC_PR_FEE_OVR) of Lending Application	203374	JS	21/04/2017 6:21 PM	3 🔻	
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My Staff Tasks		f Lending Application APP201020160002792 a			203348		21/04/2017 1:51 PM		
		PP201020160002792 and Submission SUB20			203347		21/04/2017 1:51 PM		
Administrative Tasks		nual Report - Nextstar Valuer [Request Ref# 0 of Lending Application APP201020160002791 #		60]	203346		21/04/2017 12:23 P 21/04/2017 12:18 P		
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#### Figure 2–38 Approving the Task

The task goes to the approver user for approval. Log in as approver user to BPM Worklist.

You can either approve or reject the work item (approved here) after adding comments for non origination flows.

Once approved, the further task flows required for origination will be created for the initiator user.

## 2.3 Enabling Worklist Authorization

This section explains the steps in enabling Worklist authorization. Following are the steps:

## Step 1 Identify the Service Name

For example,

com.ofss.fc.appx.origination.service.lending.core.application.LendingApplicationServiceSpi.confirmStructur eSolution.

## Step 2 Enable Dual Authorization or/and adding other severity

Once the services are identified, follow the below steps to enable Dual Authorization and adding other severity.

- 1. Log in to Oracle Banking Platform.
- 2. Navigate to Artifact Dependency Map (Fast path: SM500) page.
- In the Search Text field, enter the service-name. com.ofss.fc.appx.origination.service.lending.core.application.LendingApplicationServiceSpi.confirmS tructureSolution

Navigate to service node by following highlighted path (in grey color) and select the service node.

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r a combination of artifacts	s and general search, please u	se 'task-code+search text' path +search text' pattern. (Example	ern. (Example - 'CASA001+depo									
	displayed where search criter											
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llection - seCentricActionType	Pm - RewardApplicationSer	Origination - FundingTableDetailAp	Party - FinancialParameterAp	Config - RootCompositeTempla	Pm - ProductManufacturing	Party - IdentityVerificationHis	Party - PartyToAccountRelatio	Account - BundleInquiryApplicati	Party - BureauReportApplicati	Collection - VendorAllocAlgListApp	Ins - PropertyInsuranceSimu	<b>.</b>
idate RVICE	Add Reward SERVICE	Refresh Pricing Fees SERVICE	Close Financial Parameter	Delete Root Composite Template	Fetch All Active Products SERVICE	Update Identity Verification History	Fetch Allowed Access Channels For Account	Fetch All Subscription Details	Close Bureau Report SERVICE	Create SERVICE	Save Selected Quote SERVICE	
			SERVICE	SERVICE		SERVICE	SERVICE	SERVICE				
m.ofss.fc.appx.pricin icing -	com.ofss.fc.appx.loan	com.ofss.fc.appx.collec Collection -	com.ofss.fc.appx.sms.s Sms -	com.ofss.fc.appx.resou Resourceitem -	com.ofss.fc.appx.party Party -	com.ofss.fc.appx.loan.s	com.ofss.fc.appx.party Party -	com.ofss.fc.appx.td.ser	com.ofss.fc.appx.ins.se Ins -	com.ofss.fc.appx.dda.s Dda -	com.ofss.fc.appx.origin Origination -	
entPriceApplicationS	LoanScheduleSimulati Simulate And Save	SupervisoryLogDtlAppli	InternalUserManagem Maintain Users	ResourceItemLinkageA	ImageApplicationServi	LoanScheduleConfigur	FatcaDetailsApplicatio	InvestmentSimulation	InsuranceSimulationSu	SweepOutInstructionA	LendingApplicationSer.	4
t Compute Fee On large Date	Repayment Schedule	Create SERVICE	SERVICE	Delete Resource Item Unkage	Update Image SERVICE	Get Current Stage For Loan Stage	Reopen Fatca Details SERVICE	Fetch Frequencies For Product	Fetch By Version SERVICE	Close Sweep Out Instruction	Solution	4
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Figure 2–39 Select the Service to be Configured

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Figure 2–40 Search for Service using TASK CODE + Search text (in case of non Origination)

4. Click the Approval Checks tab and add approval checks.

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Figure 2–41 Approval Checks tab - Add Approval Checks

## Step 3 Configure Severity

Enabling of dual authorization alone will not send the transaction for approval. Hence, we need to configure Severity for the identified service, to enable the call for approval workflow.

This can be configured from the OBP page Artifact Dependency Map (Fast path: SM500).

Follow the below steps to configure severity:

- 1. Log in to Oracle Banking Platform.
- 2. Navigate to the page Artifact Dependency Map (Fast path: SM500) page.
- In the Search Text field, enter the service com.ofss.fc.appx.origination.service.lending.core.application.LendingApplicationServiceSpi.confirmS tructureSolution.
- 4. Ensure approval checks are added. If not, then configure the approval checks.

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### Figure 2–42 Dual Control

5. Click the **Severity** tab and update the severity, if already maintained. Else, click **Add** button in the toolbar to add new row in the table.

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## Figure 2–43 Add New Severity

6. Enter the following details in the **Severity** tab.

Branch Code	Branch code from which the transaction is to be performed. Specify ANY to configure for all branches. Example: 082991
Role ID	Security Role to which the user belongs and initiates the transaction.
Channel ID	Channels such as BRN, ATM, IB and so on, through which the transaction is performed.
Reason Code	Select Reason Code 1000 normal approval flow.
	This field contains four values as detailed below:
	<ul> <li>Ignore: Allows transaction to complete without any authorization, that is Auto Authorization.</li> </ul>
	• <b>Override:</b> Transaction will be sent for Authorization.
Severity	<ul> <li>Notify: In this case, the task is not sent for authorization, but the user is expected to confirm the transaction for proceeding ahead. This option is not applicable in case of Dual Authorization.</li> </ul>
	<ul> <li>Reject: System does not allow to proceed with transaction.</li> </ul>

To enable Dual Authorization, select **Override** option.

Note

If the Severity Configuration is already set up do not change it.

7. Save the newly added severity using the **Save**.

### Figure 2–44 Save Severity Details

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#### Figure 2–45 Update Severity and Save

## Step 4 Testing Approvals

Once the configurations are done, navigate to the screen for which approval is enabled. For more information on testing approvals in case of Lending Confirm Structure Solution, see Section 2.2.2 Performing the Transaction

## 2.4 BPM Routing Rules Setup

This section describes the steps and the screens required to configure BPM rules for approval. Same can be referred for configuring any other routing rules based on facts available in human task payload.

- 1. Log in to worklist App using Weblogic / Weblogic1 [or any other user with administrators as role].
- 2. Click Administration link.

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Figure 2–46 Worklist App - Administration Link

3. Navigate to Task Configuration tab.

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### Figure 2–47 Task Configuration

4. Search the task by inputting the name of the task in the search bar. For example, HT\_LoanSpi\_ CreateAndConfigureLoanAccount or \*CreateAndConfigureLoan\* or \* PromiseToPay\*.

## Figure 2–48 Search Task Types

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5. Click the result to open the task for editing.

Figure	2–49	Task	Editing
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6. Click the Edit icon.

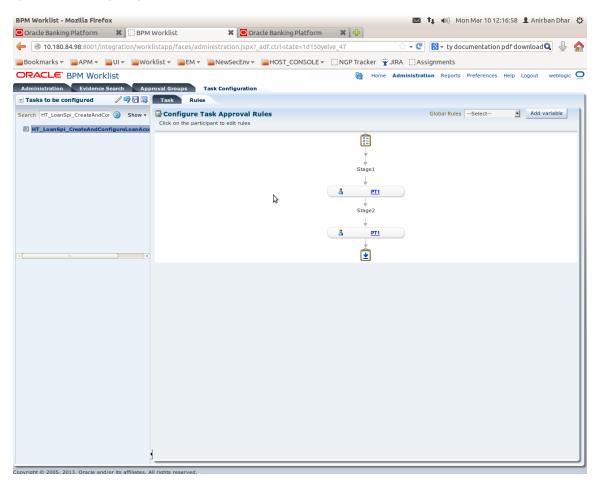


Figure 2–50 Configuring Rules - Edit Icon

- 7. Navigate to **Rules** tab for configuring rules.
- 8. Click participant to edit rule for that stage. For example, stage 1 -> PT1)

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Figure 2–51 Configuring Rules - Rules tab

9. Expand the **Rule** to configure. For example, Rule 5.

#### Figure 2–52 Expand Rule

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10. Expand the **Advance Settings** panel.

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#### Figure 2–53 Advanced Settings

#### Figure 2–54 Rule Expansion

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11. Click **Active** check box to enable a particular rule.

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### Figure 2–55 Enabling Rule

12. Click the drop-down arrow to add a new row of condition and select **Simple Test**.

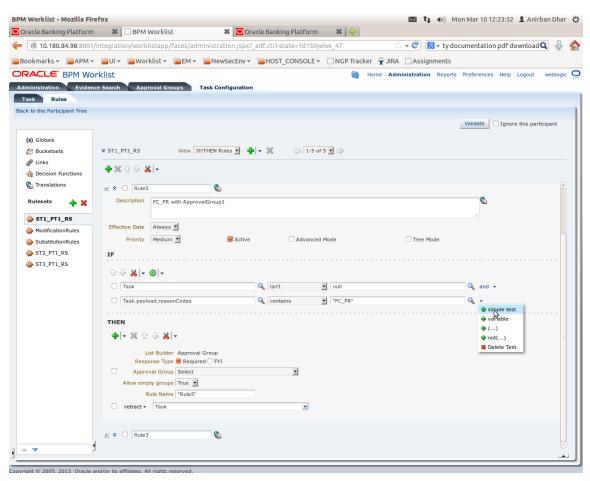
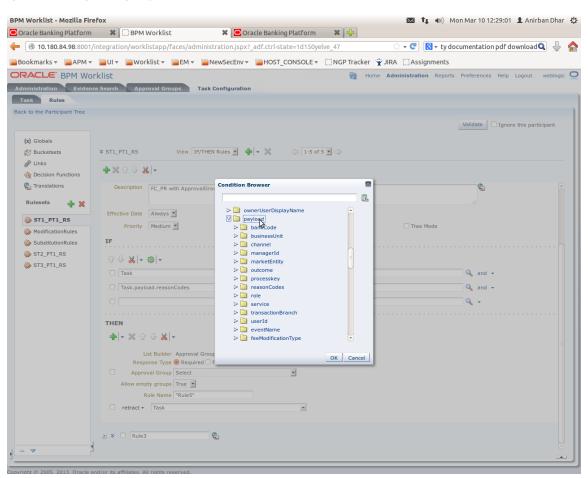


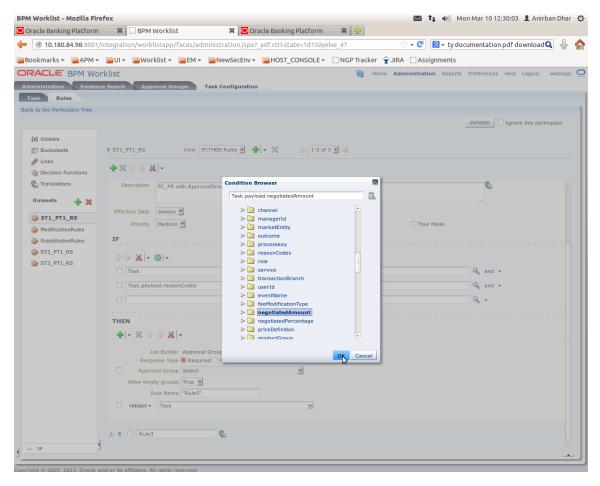
Figure 2–56 Adding New Row of Condition

13. Expand Task -> Payload and then select the fact.



#### Figure 2–57 Expanding Payload

#### Figure 2–58 Selecting Fact



14. Update the fact value as per condition required for routing.

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#### Figure 2–59 Updating Fact Value

#### Note

Negotiated Amount should be multiplied by 10000. For example, if you want to set limit for \$5 negotiated amount, then in BPM rule you need to put fact value as 50000.

15. Select **Approver Group** from the option list. For example, select FEE\_APPROVER.

#### Figure 2–60 Select Approver Group

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#### 16. Save and commit the rule and the task.

You can follow similar steps to configure rules on different stages. Ensure the desired rule is active. If no rule is evaluated, then the task will be auto rejected by workflow system.

# **3 Defining Task Configuration Rules**

Each human task in Origination business process has business rule associated with it. This business rule can be used to set various parameters for the task like SLA period, Assignees, task priority, task owner, STP configuration, and so on. Below sections illustrate the steps to configure such business rules.

# 3.1 Important Rule Artifacts

This section provides information about important rule artifacts.

# 3.1.1 Rules Dictionary

For each human task, a <*name>TaskConfigRules.rules* file is provided. For example, VerifyApplicationTaskConfigRules.rules. These rules dictionary files have to be used to configure attributes of the respective human task.

Rules dictionaries can be viewed and edited using Oracle SOA Composer. Oracle SOA composer can be accessed using http://<IP-of-SOA-server>:8001/soa/composer.

Figure 3–1 and Figure 3–2 illustrate the procedure of opening the rules dictionary for VerfiyApplicationTask.

Figure 3–1 SOA Composer - Open Rules Dictionary Browser

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Figure 3–2 SOA Composer – Selecting Rules Dictionary

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## **3.1.2 Decision Function**

Configuration rules are written in Rulesets, which are executed through a Decision Function. In each rules dictionary a decision function is provided by the name of <name>TaskConfigurationRulesDecisionService.

Figure 3–3 SOA Composer – Selecting Decision Function

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### 3.1.3 Rulesets

Each decision function executes one or more rulesets. This is where the rules are written. Any rulesets that are defined in the rules dictionary can be added to be used in a decision function.

Figure 3–4 illustrates addition or removal of rulesets from a decision function.

Figure 3–4 SOA Composer - Adding Rulesets to Decision Function

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TaskConfigBaseRules.rules	SLARuleSet applicationSumma	ryDTO is a applicationSummaryDTO		
VerifyApplicationHT.task	CustomAttributesRuleSet Click + to add an	IF test condition		
VerifyApplicationHTRules.rul	TaskSTPRuleSet and	is a customAttributes		
VerifyApplicationHTRulesBar	Add New Ruleset     Click + to add an			
stadata	and			
	taskConfiguration	RuleOutcome is a taskConfigurationRuleOutcome		
	Click + to add an	IF test condition		
	THEN			
	assign .	<pre>r taskConfigurationRuleOutcome.taskPriority = getTaskPriority(applica</pre>	tionSummaryDTO.header.priority)	
	assign	<pre>r taskConfigurationRuleOutcome.taskOwner = createTaskOwnerUser()</pre>	applicationSummaryDTO.header.initiatedBy)	
	<			•
4	agnostics History Center Logs			
		2 1 1 1 1		workspace <sup>30</sup> Oracle <sup>30</sup> A 🏴 💭 🌜 10:00 AM

Figure 3–5 shows what a ruleset looks like.

#### Figure 3–5 SOA Composer - Viewing a ruleset

🗞 Rules 📄 Value Sets 🕟 Globals 🔮	2 Business Phrases 🕎 Tests 🔒 Translations 🛛 Advanced > 🔍 Explorer 🛛 Facts 🚸 Decision Properties 🔗 Links
PriorityAndOwnerRuleSet  View Properties	
Rules 🗠 🔻 By Type 💌	DefaultRule Properties
Search By Alias	
🔶 DefaultRule	Click + to add an IF test condition
	and
	customAttributes is a customAttributes
	Click + to add an IF test condition
	and
	taskConfigurationRuleOutcome is a taskConfigurationRuleOutcome
	Click + to add an IF test condition
	THEN
	assign v taskConfigurationRuleOutcome.taskPriority = getTaskPriority(applicationSummaryDTO.header.priority)
	assign v taskConfigurationRuleOutcome.taskOwner = createTaskOwnerUser(applicationSummaryDTO.header.initiatedBy)
	4

# **3.2 Inputs to Decision Function**

A decision function can take in data objects as input. The rulesets executed by the decision function then work on those inputs to create the output.

Figure 3–6 shows the inputs to a decision function. In this example, there are two input objects - customAttributes of type CustomAttributes and applicationSummaryDTO of type ApplicationSummaryDTO.

Figure 3–6 SOA Composer - Viewing inputs to a Decision Function

VerifyApplicationTaskConfigRules.rule	s ×													
🚳 Rules 📑 Value Sets 🚯 Gi	obals	P Busin	ness Phrases	🕎 Tests	🔒 Translations	Advanced >	Q Explorer	<b>II</b> ∖ Facts	🏠 Deci	ision Properties	& Links			
VerifyApplicationTaskConfig														
🎪 VerifyApplicationTaskSTPRul.		Name VerifyApplicationTaskConfigRulesDecisionService												
			Description											
		Rule	Firing Limit	10000										
				Make stat	eless									
				Rulesets	are on stack once	?								
			Tests				•							
	Initial	Actions	Inputs O	utputs Rule	esets_& Decision Fu	nctions								
		Accordio	inputa			incuorită.								
								-						
	•		Name			Business T			ree	List	Description			
		-	applicationSum	imaryDTO		applicationS	ummaryDTO		4					
		<b>a</b> o	customAttribute	S		customAttrib	utes		4					

In the example, the applicationSummaryDTO is used in the rules to determine the task priority and the task owner. This is illustrated in Figure 3–5.

### 3.2.1 Custom Input Attributes

CustomAttributes allow three types of attributes - text, number and date, for which, it has following members, respectively:

- CustomTextAttributeList
- CustomNumberAttributeList
- CustomDateAttributeList

Each of these members has a list of respective types,

- CustomTextAttribute
- CustomNumberAttribute
- CustomDateAttribute

All of these three thee types have a similar steps to configure rules structure and have two members:

- attributeName, of type String
- attributeValue, of type String, int or dateTime, respectively

The UML class diagram of the type CustomAttributes is shown in Figure 2-g. For details on dateTime, please refer http://www.w3.org/TR/xmlschema-2/#dateTime

To access the custom attributes passed as input to the decision service, following three functions are provided:

- getCustomTextAttribute(CustomAttributes customAttributes, String attributeName)
  - Return type String
- getCustomNumberAttribute(CustomAttributes customAttributes, String attributeName)
  - Return type int
- getCustomDateAttribute(CustomAttributes customAttributes, String attributeName)
  - Return type XMLGregorianCalendar

Figure 3–7 shows example usage of custom attributes.

```
Figure 3–7 SOA Composer – Example Usage of Custom Attributes
```

```
assign new - String dummyCustomInputText = getCustomTextAttribute(customAttributes, "dummyCustomInputText")

assign - dummyCustomInputText = dummyCustomInputText.toUpperCase()

addCustomTextAttribute(taskConfigurationRuleOutcome, "dummyCustomOutputText", dummyCustomInputText)

assign new - int dummyCustomInputNumber = getCustomNumberAttribute(customAttributes, "dummyCustomInputNumber")

assign - dummyCustomInputNumber = dummyCustomInputNumber + 7

addCustomNumberAttribute(taskConfigurationRuleOutcome, "dummyCustomOutputNumber", dummyCustomInputNumber)

assign new - XMLGregorianCalendar dummyCustomInputDate = getCustomDateAttribute(customAttributes, "dummyCustomInputDate")

assign - dummyCustomInputDate = XMLDate.add days to(dummyCustomInputDate, 1)

addCustomDateAttribute(taskConfigurationRuleOutcome, "dummyCustomOutputDate", dummyCustomInputDate)
```

# 3.3 Output from Decision Function

The output for all task configuration decision functions is of the type TaskConfigurationRuleOutcome. This object holds as its attributes, the parameters needed for task configuration. The values for its attributes are set using the rules in the rulesets.

Figure 3–8 shows output definition of decision function.

Figure 3–8 SOA Composer – Viewing Output of a Decision Function

verin	yApplicationTaskConfigRules.rul	es ×													
	Rules 🔄 Value Sets 🚱 G	lobals	P Bus	siness Phrases	🕎 Tests 🔒	Translations	Advanced >	<b>Q</b> Explorer	<b>II\</b> Facts	I De	ecision Properti	es 🔗 Links			
	🏤 VerifyApplicationTaskConfig														
	🎪 VerifyApplicationTaskSTPRul.														
		Description													
	Rule Firing Limit 10000														
					Rulesets are o	on stack once	?								
				Tests				•							
		Initia	al Action	ns Inputs	utputs Rulesets	& Decision Fu	nctions								
		•		Name			Business Ty	pe		Tree	List	Description			
	📑 taskConfiguration				ionRuleOutcome	nRuleOutcome taskConfigurationRuleOutcome									

### 3.3.1 List of Configurable Attributes in Rule Outcome

The following human task attributes can be set in TaskConfigurationRuleOutcome object:

#### 1. Task Priority

The task priority can be set by assigning an integer value to the taskPriority attribute of the TaskConfigurationRuleOutcome object.For example, assign taskConfigurationRuleOutcome.taskPriority = 3

#### 2. Service Level Agreement (SLA)

SLA consists of taskExpirationDuration and taskDueDuration.

To set SLA for the human task:

- create a new Sla object using createSLA(String expirationDuration, String dueDuration)
- assign it to taskConfigurationRuleOutcome.sla

For example:

assign taskConfigurationRuleOutcome.sla = createSLA("P5D", "P1D")

expirationDuration and dueDuration are of the type xsd:duration encoded in String. The format of *xsd:duration is PnYnMnDTnHnMnS*.

P is a literal value that starts the expression

nY represents n years

nM represents n months

nD represents n days

T is a literal value that separates date and time

nH represents n hours

nM represents n minutes

nS represents n seconds

In the example, we have an expiration duration of 5 days and due duration of 1 day. As another example, duration of 1 Month 15 days are represented by "P1M15D"

For more details on the Duration type, please refer http://www.w3.org/TR/xmlschema-2/#duration

#### 3. Task Owner

Task owner can be set via following steps:

- create a new ParticipantSet object using createTaskOwnerUser(String ownerUser) or createTaskOwnerGroup(String ownerGroup)
- assign the new ParticipantSet object to taskOwner attribute of TaskConfigurationRuleOutcome

For example:

assign taskConfigurationRuleOutcome.taskOwner = createTaskOwnerUser("user1")

#### 4. Stage Participant

Stage participant attribute, stageParticipant is of the type StageParticipant and it consists of following members:

- participant: A ParticipantSet object that holds the participant users and groups.
- filter: A UserFilterCriteria object that holds one or more than one UserAttributeFilterCriteria on which the users will be filtered. A criteria has an attribute name, attributeName, the value of which would determine the filter outcome, the reference value, attributeValue and one operator, out of equals, greater than, less than and in, which decided the type of comparison to be made between the actual value of the attribute and the reference value.

Following steps are supposed to be followed for assigning the stageParticipant:

- Create a ParticipantSet using one of the following functions.
  - createParticipant(String groups, String users): ParticipantSet
  - createParticipantFromUsers(String users): ParticipantSet
  - createParticipantFromGroups(String groups): ParticipantSet
- Create a new UserFilterCriteria.
- Create UserAttributeFilterCriteria objects using CreateUserAttributeFilterCriteria(String attributeName, String attributeValue, UserAttributeFilterOperator operator) and add them to UserFitlerCriteria using addUserAttributeFilterCriteria(UserFilterCriteria filter, UserAttributeFilterCriteria attributeFilter)
- Create a new StageParticiant from the ParticipantSet and the UserFilterCriteria using the function createStageParticipant(ParticipantSet participant, UserFilterCriteria filter)
- Add StageParticipant to the TaskConfigurationRuleOutcome using addStageParticipant or addStageParticipantWithStageName

Figure 3–9 shows an example for assigning a StageParticipant.

#### Figure 3–9 SOA Composer – Example for adding Stage Participant



#### 5. Custom Output Attributes

Following methods may be used in order to add custom text, number or date attributes, respectively to the TaskConfigurationRuleOutcome:

- addCustomTextAttribute
- addCustomNumberAttribute
- addCustomDateAttribute

Figure 3–10 shows example usage of custom attributes.

Figure 3–10 SOA Composer – Example usage of custom attributes

 assign new < String dummyCustomInputText = getCustomTextAttribute(customAttributes, "dummyCustomInputText")</td>

 assign < dummyCustomInputText = dummyCustomInputText.toUpperCase()</td>

 addCustomTextAttribute(taskConfigurationRuleOutcome, "dummyCustomOutputText", dummyCustomInputText)

 assign new < int dummyCustomInputNumber = getCustomNumberAttribute(customAttributes, "dummyCustomInputNumber")</td>

 assign < dummyCustomInputNumber = dummyCustomInputNumber + 7</td>

 addCustomNumberAttribute(taskConfigurationRuleOutcome, "dummyCustomOutputNumber", dummyCustomInputNumber)

 assign new < XMLGregorianCalendar dummyCustomInputDate = getCustomDateAttribute(customAttributes, "dummyCustomInputDate")</td>

 assign < dummyCustomInputDate = XMLDate.add days to(dummyCustomInputDate, 1)</td>

 addCustomDateAttribute(taskConfigurationRuleOutcome, "dummyCustomOutputDate", dummyCustomInputDate)

### 3.3.2 List of Functions to Set Rule Outcome

Following functions are available to configure the TaskConfigurationRuleOutcome:

#### 1. getTaskPrioriy(String priority): int

The input to this function is a number as a String and it returns the number as int type. For example, variable1.priority has a value of 2 getTaskPriority(variable1.priority) will return 2.

This method can be used when assigning the TaskConfigurationRuleOutcome.taskPriority

 createSLA(String expirationDuration, String dueDuration): SIa This method takes as inputs the expiration duration and due duration as Strings written in xsd:duration format. Please refer to the description of xsd:duration in section 3.2.1 - 2 Service Level Agreement (SLA) for more details.

#### 3. createParticipantFromUsers(String users): ParticipantSet

Use this method to create ParticipantSet from a string containing user names separated with commas, that is, user1,user2,user3. The ParticipantSet can then be used as an input parameter to createStageParticipant function.

#### 4. createParticipantFromGroups(String groups): ParticipantSet

Use this method to create ParticipantSet from a string containing group names separated with commas, that is, group1,group2. The ParticipantSet can then be used as an input parameter to createStageParticipant function.

#### 5. createParticipant(String groups, String users): ParticipantSet

Use this method to create ParticipantSet containing users as well as groups. The first argument, groups, is a string containing group names separated with commas, that is, group1,group2, and the second argument, users, is a string containing user names separated with commas, that is,

user1,user2,user3. The ParticipantSet can then be used as an input parameter to createStageParticipant function.

#### 6. getCustomTextAttribute(CustomAttributes customAttributes,String attributeName): String

This method is used to fetch a text attribute from a CustomAttributes object. Its inputs are:

- customAttributes: the CustomAttributes object from which attribute is to be fetched.
- attributeName: string containing the name of attribute that is to be fetched.

It returns the value for the specified attribute as a String.

#### 7. getCustomNumberAttribute (CustomAttributes customAttributes, String attributeName): int

This method is used to fetch a number attribute from a CustomAttributes object. Its inputs are:

- customAttributes: the CustomAttributes object from which attribute is to be fetched
- attributeName: string containing the name of attribute that is to be fetched

It returns the value for the specified attribute as a int.

# 8. getCustomDateAttribute (CustomAttributes customAttributes,String attributeName ): XMLGregorianCalendar

This method is used to fetch a date attribute from a CustomAttributes object. Its inputs are:

- customAttributes: the CustomAttributes object from which attribute is to be fetched.
- attributeName: string containing the name of attribute that is to be fetched.

It returns the value for the specified attribute as an XMLGregorianCalendar.

XMLGregorianCalendar is the java representation for xml dateTime. For more information see, http://docs.oracle.com/javase/1.5.0/docs/api/javax/xml/datatype/XMLGregorianCalendar.html

# 9. createUserAttributeFilterCriteria (String attributeName,String attributeValue,UserAttributeFilterOperator operator): UserAttributeFilterCriteria

This method constructs a new UserAttributeFilterCriteria object using the given parameters. Its inputs are:

- attributeName: string containing name of the attribute on which the filter criteria is based on.
- attributeValue: string containing the reference value with which the actual value of the attribute is compared to.
- operator: userAttributeFilterOperator object specifying the operator to be used for comparison. The allowed values are GREATER\_THAN, LESS\_THAN, EQUALS and IN. Refer Figure 3-7 for the UML class diagram of UserAttributeFilterOperator and the related types.

# 10. addUserAttributeFilterCriteria (UserFilterCriteriauserFilterCriteria, UserAttributeFilterCriteria): UserFilterCriteria

This method adds a UserAttributeFilterCriteria object to the given UserFilterCriteria object. Its input are:

- userFilterCriteria: userFilterCriteria object to which the attribute filter criteria needs to be added.
- userAttributeFilterCriteria: userAttributeFilterCriteria object which needs to be added to userFilterCriteria. UserAttributeFilterCriteria can be created using the function createUserAttributeFilterCriteria.

#### 11. createStageParticipant (ParticipantSet participant,UserFilterCriteria userFilter): StageParticipant

This method is used to create a StageParticipant from ParticipantSet and a UserFilterCriteria, which are passed in as following parameters.

- participant: participantSet object which can be created using any of the three functions createParticipant, createParticipantFromUsers or createParticipantFromGroups.userFilter:
- userFilterCriteria object.

#### 12. addStageParticipant

# (TaskConfigurationRuleOutcometaskConfigurationRuleOutcome, StageParticipant stageParticipant): TaskConfigurationRuleOutcome

This method is used to add a StageParticipant to a TaskConfigurationRuleOutcome object.

- taskConfigurationRuleOutcome: taskConfigurationRuleOutcome to which the stage participant is to be added.
- stageParticipant: stageParticipant object which is added to taskConfigurationRuleOutcome. A StageParticipant can be created using createStageParticipant function

The function addStageParticipantWithStageName can also be used to the same task, and it also has the capability of setting the stage name.

#### 13. createTaskOwnerUser(String ownerUser): ParticipantSet

This method is used to create a ParticipantSet, that is suitable to be set to TaskConfigurationRuleOutcome.taskOwner, from a string containing the owner user name, for example, user1. The ParticipantSet can then be assigned to TaskConfigurationRuleOutcome.taskOwner.

#### 14. createTaskOwnerGroup(String ownerGroup): ParticipantSet

This method is used to create a ParticipantSet, that is suitable to be set to TaskConfigurationRuleOutcome.taskOwner, from a string containing the owner group name, for example, group1. The ParticipantSet can then be assigned to TaskConfigurationRuleOutcome.taskOwner.

# 15. addCustomTextAttribute (TaskConfigurationRuleOutcome ruleOutcome, String attrName,String attrValue): void

This method is used to add a custom text attribute to a TaskConfigurationRuleOutcome object. Its inputs are:

- ruleOutcome: the TaskConfigurationRuleOutcome object to which attribute is to be added.
- attrName: string containing the name of attribute that is to be added.

- attrValue: string containing the value of attribute that is to be added.
- 16. addCustomNumberAttribute(TaskConfigurationRuleOutcome ruleOutcome,String attrName,int attrValue): void

This method is used to add a custom number attribute to a TaskConfigurationRuleOutcome object. Its inputs are:

- ruleOutcome: the TaskConfigurationRuleOutcome object to which attribute is to be added.
- attrName: string containing the name of attribute that is to be added.
- attrValue: int containing the value of attribute that is to be added.

# 17. addCustomDateAttribute (TaskConfigurationRuleOutcome ruleOutcome, String attrName,XMLGregorianCalendar attrValue): void

This method is used to add a custom date attribute to a TaskConfigurationRuleOutcome object. Its inputs are:

- ruleOutcome: the TaskConfigurationRuleOutcome object to which attribute is to be added.
- attrName: string containing the name of attribute that is to be added.
- attrValue: XMLGregorianCalendar object containing the value of attribute that is to be added.

XMLGregorianCalendar is the java representation for xml dateTime. For more information see, http://docs.oracle.com/javase/1.5.0/docs/api/javax/xml/datatype/XMLGregorianCalendar.html

#### 18. addStageParticipantWithStageNam

# (TaskConfigurationRuleOutcometaskConfigurationRuleOutcome,StageParticipant stageParticipant,StringstageName): TaskConfigurationRuleOutcome

This method is has a similar function as that of addStageParticipant and is used to add a StageParticipant to a TaskConfigurationRuleOutcome object and also specify a stage name.

- taskConfigurationRuleOutcome: TaskConfigurationRuleOutcome to which the stage participant is to be added.
- stageParticipant: StageParticipant object which is added to taskConfigurationRuleOutcome. A StageParticipant can be created using createStageParticipant function.
- stageName: String containing the desired stage name.

# 4 Data Management

This chapter describes data related activities to be performed as an administrator.

# 4.1 Oracle Banking Platform Batch Execution

Oracle Banking Platform Batch Execution refers to bulk processing of records to perform business operations in real-time environment. Business operations include complex processing of large volumes of information, that is most efficiently processed with minimal or no user interaction using OBP Batch Execution.

The batch process is run through the **End of Day (Fast path: EOD10)** page with a varied combination of category, job code and job type for a particular business day.

This section explains the steps involved in Oracle Banking Platform Batch Execution.

#### Note

To view the detailed procedure to be followed in the application page **End of Day (Fast Path: EOD10)**, see its context-sensitive help in the application.

### 4.1.1 Database Backup

Perform Database Backup before starting with the Batch Execution.

## 4.1.2 Navigate to End of Day Page

To navigate to the End of Day page:

- 1. Log in to Admin Application.
- 2. Navigate to *End of Day* page either by entering the Fast path **EOD10** or through the menu **Administration > End of Day**.

Figure 4–1 End of Day (Fast path:EOD10)

E ORACLE <sup>®</sup>	Fast Path/Screen Name	Posting Date Jul 24, 2017 t3010 - m
* E0D1 <u>0</u> ×		
End of Day		Print 🗷 C <u>l</u> ear 🗙 E <u>x</u> it
✓ Category Details		^
Process Category	Category Status	
Јођ Туре	Process Date	
Job Code 🔓	Next Process Date	
Category Start Time	Category End Time	
Polling Interval	Last Refreshed Time	
⊿ Process		Restart Start Recover
✓ Shell Details		Ģ
Clear All Filters		
View v JII Export To Excel		

### 4.1.3 Cutoff Category Execution

This category marks the logical closure of business in the system to ensure that all online transactions during batch run get processed with the next process date.

To execute the Cutoff category:

1. Select the relevant Category Details as shown in the table below:

Process Category	Cutoff
Job Type	GROUP
Job Code	BRN_GRP_1

2. Click the **Refresh** button. The rest of the **Category Details** and the **Process Details** appear.

Here, the Shell State is Not Started.

The Category Status is Fresh Start.

Figure 4–2 Cutoff Category - Not Started

							Fast Path/Screen Name 🔍 🗏 🛧	Posting Date Jul 24, 2017	t3010	• •••
* EODI <u>0</u> ×										
End of Day								Print d	Z Clear	🗙 Exit
✓ Category Details										
Process Category     Cutoff	~						Category Status Fresh Start			
* Job Type GROUP 🗸							Process Date Jul 21, 2017			
* Job Code BRN_GRP_1 V							Next Process Date Jul 24, 2017			
Category Start Time							Category End Time			
Polling Interval							Last Refreshed Time 03-Apr-2018 11:55:55			
✓ Process								€ Restart	Start	Recover
Shell Details										Ģ
Clear All Filters										
View 👻 🎟 Export To Excel 🔓 🗟 Detach										
	~						1			
Name of Shell	Status Trend	Duration	No of Aborts	Throughput	Total Records	Status	Expected Completion Time			
Cutoff Prologue	Not Started Trend	00:00:00								
< C										>

- 3. Verify the **Process Date** and the **Next Process Date**.
- 4. Click the **Start** button to begin the execution.

Once the process starts the **Category Status** and the **Shell State** of currently running process display *In Progress.* 

Figure 4–3 Cutoff Category - Start

							Fast Path/Screen Name Q	目★	Posting Jul 24,	Date 2017 t301	0 - ===
REDDIQ ×											
End of Day									Prin	t 🥂 Clear	🗙 E <u>x</u> it
✓ Category Details			0 Information	1		×					
Process Category     Cutoff	$\sim$		The category has start	ed. Logging Leve	= WARNING	6	Category Status Fresh Start				
* Job Type GROUP 🗸					ок		Process Date Jul 21, 2017				
* Job Code BRN_GRP_1 V							Next Process Date Jul 24, 2017				
Category Start Time							Category End Time				
Polling Interval							Last Refreshed Time 03-Apr-2018 11:57:59				
▲ Process									Q Rest	art Start	Recover
⊿ Shell Details											Ģ
Clear All Filters											
View * 🗊 Export To Excel 😨 🗟 Detach											
	~										
Name of Shell	Status 1	rend Dura	tion No of Aborts	Throughput	Total Records	Status	s Expected Completion Time				
Cutoff Prologue	Not Started	rend 00:0	0:00								
https://mum00cbi.in.oracle.com:30162/com.ofss.fc.ui.view/faces/main.i											

5. On completion of the category, the **Category Status** and the **Shell State** of all the processes display *Completed*.

Figure 4–4 Cutoff Category - Complete

							Fast Path/Screen Name Q 🗐 🌟 - Posting Date 13010 -	
							Print 🧷 Clear 💥	Exit
~							Category Status Completed	
OUP V Process Date Jul 21, 2017								
Next Process Date Jul 24, 2017								
Time 03-Apr-2018 11:58:11 Category End Time 03-Apr-2018 11:58:11								
							Last Refreshed Time 03-Apr-2018 11:58:20	
							Restart Start Rec	over
								Ģ
~								
Status	Trend	Duration	No of Aborts	Throughput	Total Records	Status	Expected Completion Time	
Complete	-	00:00:00		0	0			
								_
	11 Status	11 Status Trend	11 Status Trend Duration	11 Status Trend Duration No of Aborts	11 Status Trend Duration No of Aborts Throughput	11 Status Trend Duration No of Throughput Total Records	11 Status Trend Duration No of Aborts Throughput Total Records Status	Print       #C Qer       X         Category Status       Completed       Process Date       Jul 21, 2017         Process Date       Jul 22, 2017       Next Process Date       Jul 24, 2017         11       Category End Time       03-Apr-2018 11:58:11       Last Refreshed Time       03-Apr-2018 11:58:20         X       Restart       Blart       Rectart       Blart       Rectart         Status       Trend       Duration       No of Trroughput       Total Rectard Completion Time       Status       Expected Completion Time

### 4.1.4 End of Day (EOD) Category Execution

This category performs the tasks required to mark closure of a business day in a bank. For example, value date cleaning, instruction expiry, auto disbursement instruction execution, bundle expiry, report generation and so on. Each task or transaction is performed by a shell in a predefined dependency and sequence.

To execute the End of Day category:

1. Select the relevant **Category Details** as shown in the table below:

Process Category	End of Day
Job Type	GROUP
Job Code	BRN_GRP_1

2. Click the **Refresh** button. The rest of the **Category Details** and the **Process Details** appear.

Here, the Shell State is Not Started.

The Category Status is Fresh Start.

Figure 4–5 EOD Category - Not Started

							Fast Path/Screen Name Q	Posting Dat Jul 24, 201	te 7 t3010	• •••
fod10 ×										
End of Day								Print	Z Clear	🗙 E <u>x</u> it
✓ Category Details										^
Process Category End of Day	~						Category Status Fresh Start			
* Job Type GROUP 🗸							Process Date Jul 21, 2017		G	
* Job Code BRN_GRP_1							Next Process Date Jul 24, 2017			- 11
Category Start Time							Category End Time			
Polling Interval							Last Refreshed Time 03-Apr-2018 11:59:36			- 11
✓ Process								Q. Restart S	Dec.	
Flocess								G Restart S	tart Rec	over
▲ Shell Details										Ģ
Clear All Filters										
View 👻 💯 Export To Excel										
	~									
Name of Shell	Status Trend	Duration	No of Aborts	Throughput	Total Records	Status	Expected Completion Time			
Reg CC Schedule Generation EOD Shell	Not Started Trend	00:00:00								^
Bundle Reports	Not Started Trend	00:00:00								
										~

- 3. Verify the **Process Date** and the **Next Process Date**.
- 4. Click the **Start** button to begin the execution.

Once the process starts the **Category Status** and the **Shell State** of currently running process display *In Progress.* 

Figure 4–6 EOD Category - Start

						Fast Path/Screen Name	Posting Date 13010 - 🚥
The second secon							
End of Day							Print 🗷 Clear 💥 Exit
✓ Category Details		Infor	mation	×	1		^
* Process Category End of Day	$\sim$	The categor	ry has started. Logging L	evel = WARNING		Category Status Fresh Start	
* Job Type GROUP 🗸				ок		Process Date Jul 21, 2017	
Job Code BRN_GRP_1						Next Process Date Jul 24, 2017	
Category Start Time						Category End Time	
Polling Interval						Last Refreshed Time 03-Apr-2018 12:00:42	
A Process							Q Restart Start Recover
⊿ Shell Details							0
Clear All Filters							
View * 398 Export To Excel							
	~						
Name of Shell	Status Trer	nd Duration	No of Aborts Throughpu	rt Total Records	Status	Expected Completion Time	
Submission EOD Expiry Shell	In Progress 👄	00:00:00	0	0	0%	03-Apr-2018 08:00:41	^
▶ Value Date EOD Shell	Not Started	00:00:00	0	0	0%		~
https://mum00cbi.in.oracle.com:30162/com.ofss.fc.ui.view/faces/main.	spx#						

Figure 4–7 EOD Category - In Progress

								Fast Path/Screen Name Q	E,	Postii Jul 24	ng Date 1, 2017 t301	0 ~ •••
The second secon												
End of Day										Pri	nt 🧷 Clear	🗙 E <u>x</u> it
✓ Category Details												^
* Process Category End of Day	~							Category Status In Progress				
* Job Type GROUP 💙								Process Date Jul 21, 2017				
* Job Code BRN_GRP_1	~							Next Process Date Jul 24, 2017				
Category Start Time 03-Apr-2018 12	:00:40							Category End Time				
Polling Interval	]							Last Refreshed Time 03-Apr-2018 12:01:08				- 11
✓ Process										C+ Restan	Start R	ecover
∡ Shell Details												Ģ
Clear All Filters												
View 🔻 彈 Export To Excel 📴 🔛 Detach												
	~											
Name of Shell	Status	Trend	Duration	No of Aborts	Throughput	Total Records	Status	Expected Completion Time				
Insurance EOD Shell	Complete	-	00:00:00		0	0	0%					^
Processing of Reverse Sweep	Complete	-	00:00:00		0	0	0%					
												~

5. On completion of the category, the **Category Status** and the **Shell State** of all the processes display *Completed.* 

Figure 4–8 EOD Category - Complete

								Fast Path/Screen Name 🝳 🗏 🛧 - Posting Date 13010 -	
f EOD10 ×									
End of Day								Print <i>d</i> Clear	<mark>≍ E</mark> ⊻it
✓ Category Details									^
* Process Category End of Day	~							Category Status Completed	
• Job Type GROUP 🗸								Process Date Jul 21, 2017	
* Job Code BRN_GRP_1								Next Process Date Jul 24, 2017	
Category Start Time 03-Apr-2018 12:00:	40							Category End Time 03-Apr-2018 12:01:30	
Polling Interval								Last Refreshed Time 03-Apr-2018 12:02:05	
▲ Process								G Restart Start Reco	ver
✓ Shell Details									Ģ
Clear All Filters									
View 👻 🍱 Export To Excel 📴 🔛 Detach									
	~								
Name of Shell	Status	Trend	Duration	No of Aborts	Throughput	Total Records	Status	Expected Completion Time	
DD Instruction Rearrangement For Calender Change	Complete	-	00:00:00		0	0			^
Customer Value Date EOD Shell	Complete	-	00:00:00		0	0			
PC Reports	Complete	-	00:00:00		0	0			~

## 4.1.5 Internal System EOD Category Execution

This category performs interest accrual, interest capitalisation, interest compounding, accounting balance verification, ledger balance verification and update and related reporting.

To execute the Internal System EOD category:

1. Select the relevant **Category Details** as shown in the table below:

Process Category	Internal System EOD
Job Type	GROUP
Job Code	BRN_GRP_1

2. Click the Refresh button. The rest of the Category Details and the Process Details appear.

Here, the Shell State is Not Started.

The Category Status is Fresh Start.

Figure 4–9 Internal S	vstem FOD	Category - N	ot Started
i igui e 4-3 internar S	ystem LOD	Calegory - N	ol Starteu

								Fast Path/Screen Name Q	Posting Dat	7 t3010	-
f EOD1Q ×											
End of Day									Print a	<b>∉ Clea</b> r	🗙 E <u>x</u> it
✓ Category Details											^
Process Category     Internal System 1	OD ~							Category Status Fresh Start			
• Job Type GROUP 🗸								Process Date Jul 21, 2017			
Job Code BRN_GRP_1								Next Process Date Jul 24, 2017			
Category Start Time								Category End Time			
Polling Interval								Last Refreshed Time 03-Apr-2018 12:03:09			
⊿ Process									Q Restart St	art Rec	over
⊿ Shell Details											G
Clear All Filters											
View 🔻 彈 Export To Excel							5	}			
	~										
Name of Shell	Status	Trend	Duration	No of Aborts	Throughput	Total Records	Status	Expected Completion Time			
Lending Account Statistics Shell	Not Started	Trend	00:00:00								^
Account Action Internal EOD Shell	Not Started	Trend	00:00:00								
											~

- 3. Verify the **Process Date** and the **Next Process Date**.
- 4. Click the **Start** button to begin the execution. Once the process starts the **Category Status** and the **Shell State** of currently running process display *In Progress.*

Figure 4–10 Internal System EOD Category - Start

								Fast Path/Screen Name Q	目★.	Posting Jul 24, 2	Date 017 t3010	)
TEOD10 ×												
End of Day										Print	Z Clear	🗙 E <u>x</u> it
✓ Category Details			Infor	mation		1	ĸ					^
* Process Category Internal System Ed	D V		The categor	y has starte	d. Logging Level	= WARNING		Category Status Fresh Start				- 11
* Job Type GROUP 🗸						ок		Process Date Jul 21, 2017				- 11
* Job Code BRN_GRP_1								Next Process Date Jul 24, 2017				- 11
Category Start Time								Category End Time				- 11
Polling Interval								Last Refreshed Time 03-Apr-2018 12:04:21				- 11
Process									Ģ	Restart	Start Re	cover
✓ Shell Details												Ģ
Clear All Filters												
View 👻 🃅 Export To Excel												
	~											
Name of Shell	Status	Trend	Duration	No of Aborts	Throughput	Total Records	Status	Expected Completion Time				
Party EOD Shell	In Progress		00:00:00		0	0	0%					^
Interest Shell     Interest Shell     Interest Shell     Interest/mum00cbi.in.oracle.com:30162/com.ofss.fc.ui.view/faces/main.i	In Progress	-	00:00:00		0	0	0%					~

Figure 4–11 Internal System EOD Category - In Progress

								Fast Path/Screen Name Q	🗏 ★ ·	Posting D Jul 24, 20	ite 17 t3010	
f EOD1 <u>0</u> ×												
End of Day										Print	Æ C]ear	🗙 E <u>x</u> it
✓ Category Details												^
Process Category     Internal System E	0D 🗸							Category Status In Progress				
• Job Type GROUP 🗸								Process Date Jul 21, 2017				
* Job Code BRN_GRP_1 V								Next Process Date Jul 24, 2017				
Category Start Time 03-Apr-2018 12:04	21							Category End Time				
Polling Interval								Last Refreshed Time 03-Apr-2018 12:04:33				- 1
✓ Process									Q	Restart	Start Re	cover
▲ Shell Details												Ģ
Clear All Filters												
View 👻 ৃ Export To Excel 📴 🔛 Detach												
	~											
Name of Shell	Status	Trend	Duration	No of Aborts	Throughput	Total Records	Status	Expected Completion Time				
▶ Interest Shell	In Progress	Ş	00:00:12		26.03	94	0%	03-Apr-2018 08:04:33				î
Accounting batch Verification Shell     https://mum00cbi.in.oracle.com:30162/com.ofss.fc.ui.view/faces/main	Not Started	Trend	00:00:00		-	-	-					

5. On completion of the category, the **Category Status** and the **Shell State** of all the processes display *Completed.* 

Figure 4–12 Internal System EOD Category - Complete

							Fast Path/Screen Name 🝳 🗏 🌟 Posting Date 13010 -	•••
FOD1 <u>0</u> ×								
End of Day							Print 🧷 Clear 💥 Eg	t
✓ Category Details								^
Process Category     Internal System EO	) ×						Category Status Completed	l
* Job Type GROUP 🗸							Process Date Jul 21, 2017	H
* Job Code BRN_GRP_1 V							Next Process Date Jul 24, 2017	H
Category Start Time 03-Apr-2018 12:04:2	1						Category End Time 03-Apr-2018 12:05:33	H
Polling Interval							Last Refreshed Time 03-Apr-2018 12:05:33	U
✓ Process							Q Restart Start Recover	
✓ Shell Details							Ģ	
Clear All Filters								
View 🔻 🎵 Export To Excel 📴 📰 Detach								
	~							
Name of Shell	Status Trend	Duration	No of Aborts	Throughput	Total Records	Status	Expected Completion Time	
Account Action Internal EOD Shell	Complete -	00:00:00		0	0		^	
▶ Interest Shell	Complete 🏾 🕹	00:00:21		26	94			
Accounting hatch Verification Shell	Comolete -	00-00-02		n	n			•

### 4.1.6 Beginning of Day (BOD) Category Execution

This category performs the tasks required for opening a business day in a bank. For example, loan account charging, periodic repayment instruction execution, period fee charging, and report generation. Each task or transaction is performed by a shell in a predefined dependency and sequence.

To execute the Beginning of Day category:

1. Select the relevant Category Details as shown in the table below:

Process Category	Beginning of Day
Job Type	GROUP
Job Code	BRN_GRP_1

2. Click the **Refresh** button. The rest of the **Category Details** and the **Process Details** appear.

Here, the Shell State is Not Started.

The Category Status is Fresh Start.

Figure 4–13 BOD Category - Not Started

								(Fast Path/Screen Name 🭳 🗏 🗙 - Pos	ing Date 24, 2017 t3010	
<b>60010</b> ×										
End of Day								F	rint 🧷 Clear	🗙 E <u>x</u> it
✓ Category Details										^
* Process Category Beginning of Day	$\sim$							Category Status Fresh Start		- 11
* Job Type GROUP 🗸								Process Date Jul 24, 2017		- 11
Job Code								Next Process Date Jul 27, 2017		- 11
Category Start Time								Category End Time		- 11
Polling Interval								Last Refreshed Time 03-Apr-2018 12:06:42		- 11
A Process								O Rest	rt Start Res	sower
▲ Shell Details								(*		_
										Ģ
Clear All Filters View *  P Export To Excel										
	~									
Name of Shell	Status	Trend	Duration	No of Aborts	Throughput	Total Records	Status	Expected Completion Time		
Reg CC Schedule Release BOD Shell	Not Started	Trend	00:00:00							^
Business Transfer Periodic Execution BOD Shell	Not Started	Trend	00:00:00							
										~

- 3. Verify the **Process Date** and the **Next Process Date**.
- 4. Click the **Start** button to begin the execution.

Once the process starts the **Category Status** and the **Shell State** of currently running process display *In Progress.* 

Figure 4–14 BOD Category - Started

							Fast Path/Screen Name Q	Posting Date Jul 24, 2017 t3010 -	-
f EOD10 ×									
End of Day								Print 🗷 Clear	🗙 E <u>x</u> it
✓ Category Details			0 Information		,	٢.			^
* Process Category Beginning of Day	$\sim$		The category has starte	d. Logging Level	I = WARNING	1	Category Status Fresh Start		
* Job Type GROUP 🗸					ок		Process Date Jul 24, 2017		
Job Code BRN_GRP_1							Next Process Date Jul 27, 2017		
Category Start Time							Category End Time		
Polling Interval							Last Refreshed Time 03-Apr-2018 12:07:14		- 11
<sup>™</sup> Process								G Restart Start Reco	iver
⊿ Shell Details									Ģ
Clear All Filters									
View 🔻 輝 Export To Excel									
	~								
Name of Shell	Status T	Frend Durati	tion No of Aborts	Throughput	Total Records	Status	Expected Completion Time		
Business Transfer Periodic Execution BOD Shell	In Progress	= 00:00	0:00	0	0	0%			^
Payments Auto Credit Run BOD Shell	Not Started	- 00:00	0:00	0	0	0%			÷
https://mum00cbi.in.oracle.com:30162/com.ofss.fc.ui.view/faces/main.j	spx#								

Figure 4–15 BOD Category - In Progress

	ORACLE®									Fast Path/Screen Name Q	∎ ★ - 🖁	osting Date Il 24, 2017	t3010	
<u> </u>	OD1 <u>0</u> ×													
End	of Day											Print 2	Z Clear	🗙 E <u>x</u> it
⊿ Ca	ategory Details													^
	* Process Category	Beginning of Day	~							Category Status In Progress				
	* Job Type	GROUP V								Process Date Jul 24, 2017				- 11
	* Job Code	BRN_GRP_1 Y								Next Process Date Jul 27, 2017				- 11
	Category Start Time	03-Apr-2018 12:07:1	4							Category End Time				
	Polling Interval	$\sim$								Last Refreshed Time 03-Apr-2018 12:07:26				
e ⊿ Pr	ocess										C Res	start Sta	art Rec	over
⊿ Sh	ell Details													Ģ
Clear	All Filters													
Viev	🔹 🕫 Export To Excel 📑 🗟 Detach													
			~											
	Name of Shell		Status	Trend	Duration	No of Aborts	Throughput	Total Records	Status	Expected Completion Time				
	Untanking Adjustment Posting		In Progress	٠	00:00:12		14.5	4	0%	03-Apr-2018 08:07:26				^
+	Customer Value Date BOD Shell		Complete	-	00:00:00		0	0	0%					~
https://m	um00cbi.in.oracle.com:30162/com.ofss.fc.ui.	view/faces/main.is	nx#											•

5. On completion of the category, the **Category Status** and the **Shell State** of all the processes display *Completed*.

Figure 4–16 BOD Category - Completed

								Fast Path/Screen Name Q E 🛧 - Posting Date Jul 24, 2017 t3010 -			
f EOD10 ×											
End of Day								Print Z Clear 🕻	(Exit		
✓ Category Details									^		
Process Category     Beginni	ng of Day							Category Status Completed			
* Job Type GROUP	* Job Type GROUP 🗸				Process Date Jul 24, 2017						
* Job Code BRN_GRP_1					Next Process Date Jul 27, 2017						
Category Start Time 03-Apr-2018 12:07:14				Category End Time 03-Apr-2018 12:07:35							
Polling Interval					Last Refreshed Time 03-Apr-2018 12:08:29						
⊿ Process								Q Restart Start Recov	er		
▲ Shell Details							0				
Clear All Filters											
View 👻 💬 Export To Excel											
	~										
Name of Shell	Status	Trend	Duration	No of Aborts	Throughput	Total Records	Status	Expected Completion Time			
Reg CC Schedule Release BOD Shell	Complete	-	00:00:00		0	0			^		
▶ Customer Value Date BOD Shell	Complete	-	00:00:00		0	0					
Human Task EOD Resume Shell	Complete	-	00:00:00		0	0			~		

## 4.1.7 Housekeeping Category Execution

This category performs the tasks such as loan statement generation, alert generation, exposure tracking, offset benefit calculation, and facility closure.

To execute the Housekeeping category:

1. Select the relevant **Category Details** as shown in the table below:

Process Category	Housekeeping				
Job Type	GROUP				
Job Code	BRN_GRP_1				

2. Click the Refresh button. The rest of the Category Details and the Process Details appear.

Here, the Shell State is Not Started.

The Category Status is Fresh Start.

Figure 4–17	' Housekeeping	Category -	Not Started
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							Fast Path/Screen Name		Posting	Date 2017 t3010	)
f EOD10 ×											
End of Day									Print	<u> </u>	🗙 E <u>x</u> it
✓ Category Details											^
* Process Category Housekeeping	$\sim$						Category Status Fresh Start				
* Job Type GROUP 🗸							Process Date Jul 24, 2017				
* Job Code BRN.GRP_1							Next Process Date Jul 27, 2017				
Category Start Time							Category End Time				
Polling Interval							Last Refreshed Time 03-Apr-2018 12:09:14				
Process									G Restart	Start Re	cover
✓ Shell Details											Ģ
Clear All Filters											
View 👻 🍱 Export To Excel 📴 🚟 Detach											
	~										
Name of Shell	Status Tre	end Duration	No of Aborts	Throughput	Total Records	Status	Expected Completion Time	ß			Ψ.
Facility Auto Closure Shell	Not Started Tre	end 00:00:00									^
Accounting Event History Shell	Not Started Tre	end 00:00:00									
											~

- 3. Verify the Process Date and the Next Process Date.
- 4. Click the **Start** button to begin the execution.

Once the process starts the **Category Status** and the **Shell State** of currently running process display *In Progress.* 

Figure 4–18 Housekeeping Category - In Progress

								Fast Path/Screen Name Q	≣ ★•	Posting Da Jul 24, 201	te 7 t3010	-
Teodio X												
End of Day										Print	Æ C]ear	🗙 E <u>x</u> it
✓ Category Details												^
Process Category     Housekeeping	$\sim$							Category Status In Progress				
* Job Type GROUP 🗸								Process Date Jul 24, 2017				
Job Code BRN_GRP_1								Next Process Date Jul 27, 2017				
Category Start Time 03-Apr-2018 12:10	03							Category End Time				
Polling Interval								Last Refreshed Time 03-Apr-2018 12:10:16				
▲ Process									Q	Restart S	tart Rec	cover
▲ Shell Details												Ģ
Clear All Filters												
View 🔻 💯 Export To Excel 📴 记 Detach												
	~											
Name of Shell	Status	Trend	Duration	No of Aborts	Throughput	Total Records	Status	Expected Completion Time				
Move driver table data to History table	Complete	Trend	00:00:00				0%					^
Accounting Event History Shell	Complete	Trend	00:00:00		-	-	0%					~
Accounting Event History Shell  https://mum00cbi.in.oracle.com:30162/com.ofss.fc.ui.view/faces/main.		Trend	00:00:00		-	-	0%	-				~

5. On completion of the category, the **Category Status** and the **Shell State** of all the processes display *Completed.* 

Figure 4–19 Housekeeping Category - Completed

								Fast Path/Screen Name Q	★ Posting Date     Jul 24, 2017     t3010
f EOD10 ×									
End of Day									Print 🗷 Clear 🗙 Exit
✓ Category Details									^
* Process Category Housekeeping	~	ß						Category Status Completed	
* Job Type GROUP 🗸								Process Date Jul 24, 2017	
* Job Code BRN_GRP_1								Next Process Date Jul 27, 2017	
Category Start Time 03-Apr-2018 12:10:	03							Category End Time 03-Apr-2018 12:22:49	
Polling Interval								Last Refreshed Time 03-Apr-2018 12:22:49	
▲ Process									Q Restart Start Recover
▲ Shell Details									Ģ
Clear All Filters									
View 🔻 💯 Export To Excel 📴 🗟 Detach									
	~								
Name of Shell	Status	Trend	Duration	No of Aborts	Throughput	Total Records	Status	Expected Completion Time	
Move driver table data to History table	Complete	-	00:00:00		0	0			^
Accounting Event History Shell	Complete	-	00:00:00		0	0			
http://www.00shi in aracle.com/20162/com ofcr.fr.ui.view/facer/main.ii					-	-			v

## 4.1.8 Alert Generation Category Execution

This category is used to generate previously logged alerts.

To execute the Alert Generation category:

1. Select the relevant **Category Details** as shown in the table below:

Process Category	Alerts Generation
Job Type	GROUP
Job Code	BRN_GRP_1

2. Click the Refresh button. The rest of the Category Details and the Process Details appear.

Here, the Shell State is Not Started.

The Category Status is Fresh Start.

								Fast Path/Screen Name 🧿 🗏 🛧 🐁	Posting Date Jul 24, 2017 t3010	)
REODI <u>O</u> ×										
End of Day									Print 🏾 🥂 Clear	<mark>≍ E</mark> <u>x</u> it
✓ Category Details										^
* Process Category Alert Generation	~							Category Status Fresh Start		
• Job Type GROUP 💙								Process Date Jan 1, 2016		
Job Code BRN_GRP_1								Next Process Date Jan 4, 2016		
Category Start Time								Category End Time		
Polling Interval								Last Refreshed Time 03-Apr-2018 12:23:24		
▲ Process								Q	lestart Start Res	cover
▲ Shell Details										Ģ
Clear All Filters										
View 🔻 🎢 Export To Excel 📴 🔛 Detach										
	×									
Name of Shell	Status	Trend	Duration	No of Aborts	Throughput	Total Records	Status	Expected Completion Time		
Alert generation Shell	Not Started	Trend	00:00:00							
										~

- 3. Verify the Process Date and the Next Process Date.
- 4. Click the **Start** button to begin the execution.

Once the process starts the **Category Status** and the **Shell State** of currently running process display *In Progress.* 

Figure 4–21 Alert Generation Category - In Progress

								Fast Path/Screen Name Q	Post	ing Date 4, 2017 t301	0
The second secon											
End of Day									Pr	int 🛛 🗷 C <u>l</u> ear	🗙 E <u>x</u> it
✓ Category Details											^
* Process Category Alert Generation	$\sim$							Category Status In Progress			
* Job Type GROUP 🗸								Process Date Jan 1, 2016			
> * Job Code BRN_GRP_1								Next Process Date Jan 4, 2016			
Category Start Time 03-Apr-2018 12:23	51							Category End Time			
Polling Interval								Last Refreshed Time 03-Apr-2018 12:24:00			- 1
Process									Q Resta	t Start R	ecover
⊿ Shell Details											Ģ
Clear All Filters											
View 👻 💬 Export To Excel											
	~										
Name of Shell	Status	Trend	Duration	No of Aborts	Throughput	Total Records	Status	Expected Completion Time			
Alert generation Shell	In Progress	-	00:00:09		276.32	84	0%	03-Apr-2018 08:24:00			
Alert generation Shell Shell Details	spx#										~

5. On completion of the category, the **Category Status** and the **Shell State** of all the processes display *Completed.* 

E ORACLE <sup>®</sup>								Fast Path/Screen Name 🔍 🗏 ★ -	Posting Date Jul 24, 2017 t3010	
TEOD10 ×										
End of Day									Print 🛛 🥂 Clear	🗙 E <u>x</u> it
✓ Category Details										^
Process Category Alert Generation	~			ß				Category Status Completed		
• Job Type GROUP 💙								Process Date Jan 1, 2016		
Job Code BRN_GRP_1								Next Process Date Jan 4, 2016		
Category Start Time 03-Apr-2018 12:23:5	1							Category End Time 03-Apr-2018 12:24:11		
Polling Interval								Last Refreshed Time 03-Apr-2018 12:24:58		
▲ Process								<u>0</u>	Restart Start Re	
A Shell Details										Ģ
Clear All Filters										
View 🔻 💯 Export To Excel 📴 🔛 Detach	~									
Name of Shell	Status	Trend	Duration	No of Aborts	Throughput	Total Records	Status	Expected Completion Time		
Alert generation Shell	Complete	-	00:00:20	70010	276	84				
https://mum00cbi.in.oracle.com:30162/com.ofss.fc.ui.view/faces/main.js										~

## 4.2 Oracle Banking Platform Batch Exception Recovery

Oracle Banking Platform Batch Exception Recovery refers to mechanism to allow support and business users perform actions on the records that were skipped during batch execution. During batch execution, if the number of failures due to business exception is less than pre-configured threshold, such records are skipped for future processing.

In OBP, the batch exception recovery can be done using the Batch Exception Recovery (Fast Path: OPA007) page. It is recommended that user in support or operations role, checks this page after every batch processing is completed for any PENDING records.

This section explains the steps involved in Oracle Banking Platform Batch Exception Recovery.

OBP batch exception recovery actions can be broadly classified in two categories:

- Actions for Support/Operations user (Performed on Batch Exception Recovery page)
- Actions for Business user (Viewed in worklist application and actioned using OBP screens, data patches.)

In its entire life cycle, the batch exception record will go through the above mentioned actions starting with PENDING and ending with either IGNORED or REPROCESSED. Support or Operations user acts on exception record using the Batch Exception Recovery page.

To navigate to the Batch Exception Recovery page:

- 1. Log in to OBP.
- Navigate to Batch Exception Recovery page either by entering the Fast path OPA007 or through the menu Back Office --> Operational Services --> Batch Exception Recovery.
- 3. Select the relevant Category Details as shown in the following table:

Branch Group Code	BRN_GRP_1
Category	End of Day

4. Click OK. The Exception Details appear.

#### Figure 4–22 Exception Details

_	Oracle Banking Platform		+					-			100	-	-		- 1 K			-0-
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RACLE	Posting Calls	31-Jul-2026												۰.	ж ъ	۰.	OFSSU	н т
			Account •	Back Office 🔹	CABA •	Collection •	OveRCard •	insurance •	LON .	Loan ¥	Origination •	Party +	Payment And Coll	ection •	Term Depos	1.	FastPath	
of ager																		
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and Except	on necovery															da Pi	e e Chi	
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# Batch Det	ais																	
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5. Select an exception record. The additional details such as Stack Trace and Comments appear. One of the important attributes is Recommended Action for the operator.

Figure 4–23 Exception Record Details

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6. Check the Stack Trace and Comments. It is recommended that if the current action on an exception record is PENDING and there are no Comments, click Assign to create a task for business user to take appropriate corrective actions on the exception record. Also, look for the Recommended Action. By looking at the Stack Trace, if the support or operator users find a similar previous incident, they can capture the same in the Incident Number field as shown in the above figure.

Note

It is mandatory to capture valid meaningful Comments while performing any action on the exception record.

Business user acts on exception record using the Worklist Application

To navigate to the Worklist page:

- 1. Log in to worklist application.
- 2. All the exception records with action as ASSIGNED will appear as a task in the worklist. Select the task to act on.

Figure 4–24 Exception record in Worklist application

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- 3. Click Claim to claim the task.
- 4. Check the Stack Trace, Batch Data, Incident Number and Comments.
- 5. Perform appropriate actions using OBP screens, data patches.
- 6. Capture comments in Comments section. These comments will be used by the support user to further act on the exception record.
- 7. Select the mandatory Recommended Action for the support or operator user.
- 8. Click Done to complete the task. The exception record moves into PENDING state and will be visible to the support user to take further action.

It is mandatory to capture valid meaningful Comments while performing any action on the exception record.

# **5 Setting Up The Bank And Branch**

This chapter provides the process of setting up the bank and the branch commonly referred to as the Day 0 setups. It gives the details of the Administration User Interface (UI) offered by Oracle Banking Channels Bank User Experience, using which, the administrator can perform a bank and a branch setup.

This chapter includes the following topics:

- Common Services Day 0 Setup
- Product Manufacturing Unit Day 0 Setup
- Product Ledger Day 0 Setup

# 5.1 Common Services Day 0 Setup

The Common Services setup includes:

- Core Maintenances
- Currency Maintenances
- Calendar Maintenances

### 5.1.1 Core Maintenances

The Core Entity Services in Oracle Banking Platform, is a common service, which seeks to define the broad parameters within which the rest of the application functions. The service defines the bank, the various modules of the application that the bank may want to introduce, the languages and the time zones it operates in, the core parameters and structures of its various branches. The core entity services are also used by each of the different modules, and provide a variety of support functions to them.

The following Core Maintenances must be completed as a part of bank and branch setup:

- Bank Codes (Fast path: CS01)
- Business Group (Fast path: CS02)
- Bank Parameters (Fast path: CS03)
- Branch Parameters (Fast path: CS06)
- Country Codes (Fast path: CS09)
- Financial Cycle (Fast path: CS10)
- Define Payment Calender Codes (Fast path: CS15)
- Reason Codes (Fast path: CS16)
- State Codes (Fast path: CS17)
- Verification Category (Fast path: CS21)
- Verification Type (Fast path: CS22)
- Verification Checklist Policy (Fast path: CS23)
- Purpose Codes (Fast path: CS24)

- Bank Policy (Fast path: CS26)
- Bank Policy Deviation Definition (Fast path: CS39)
- Risk Category Maintenance (Fast path: CS41)
- Risk Code Maintenance (Fast path: CS42)
- Mitigant Code Maintenance (Fast path: CS43)

To view the detailed procedure for each application page, see its context sensitive help in the application.

#### 5.1.1.1 Head Office Setup

The Head Office branch creation is currently being done via seed data where the Branch Type is HO. Branch Type is a seed table with fixed values for all applicable branch types, that is uploaded to the application from the backend. After the creation of Head Office branch through seed data, you can proceed to create other branches from the application where the Branch Type is shown as a LOV (excluding HO).

The process to set up a head office branch is as follows:

- 1. Create a new bank code in the application through the page Bank Codes (Fast path: CS01).
- 2. Set up the new bank parameters through the page Bank Parameters (Fast path: CS03).
- 3. Modify the seed data for Branch Type to include the new bank code as HO and run the seed. Currently the seed will be for Bank Code 08. The head office branch is created via this seed data.
- 4. Proceed to create the other branches through the application using the page **Branch Parameters (Fast Path: CS06)**, that includes all branch types other than HO.

Note

To view the detailed procedure for each application page, see its context-sensitive help in the application.

### 5.1.2 Currency Maintenances

The Currency Services are a part of the common services of Oracle Banking Platform and serve to record and retrieve the various currency related information.

The following Currency Maintenances must be completed as a part of bank and branch setup:

- Currency Codes (Fast path: CY01)
- Amount Text (Fast path: CY02)
- Currency Pairs (Fast path: CY03)
- Currency Branch Parameters (Fast path: CY04)
- Currency Denomination (Fast path: CY05)
- Currency Rate Types (Fast path: CY06)
- Exchange Rates (Fast path: CY07)

To view the detailed procedure for each application page, see its context-sensitive help in the application.

### 5.1.3 Calendar Maintenances

The calendar services are embedded in the common services of Oracle Banking Platform and serve to record and retrieve the various holidays of the bank in a calendar year.

The following Calendar Maintenances must be completed as a part of bank and branch setup:

- Holiday Rule Maintenance (Fast Path: CAL01)
- Calendar Type Maintenance (Fast Path: CAL02)
- Adhoc Calendar Maintenance (Fast path: CAL03)

#### Note

To view the detailed procedure for each application page, see its context-sensitive help in the application.

# 5.2 Product Ledger Day 0 Setup

The Product Ledger module is supported by Module accounting, Domain Accounting, and Accounting services.

Module accounting handles transaction initiation, raises accounting event, and updates the customer account balances and Overdraft limits, and invokes account services.

Domain Accounting provides the services such as input, authorize, delete, and reverses to the modules to enable the module to initiate appropriate action on the transactions. Domain accounting also validates data and lookup accounting template, builds domain entries, and performs currency conversions.

Accounting services pick up the entries formed by the domain accounting and perform GAAP accounting, netting, currency position, Inter Branch entries, tanking of unauthorized transactions, suspense posting, generation of P&L entries for year end, and hand off data to product ledger.

The following Product Ledger Maintenances must be completed as a part of bank and branch setup:

- System Defined Elements Maintenance (Fast path: PL005)
- Accounting Configuration (Fast path: PL019)
- GAAP Summary (Fast path: PLS001)
- Bank Parameter Summary (Fast path: PLS002)
- Branch Parameter Summary (Fast path: PLS003)
- SDE Number Range Maintenance (Fast path: PLS006)
- System Defined Elements Class Summary (Fast path: PLS007)
- Product Ledger Summary (Fast path: PLS008)
- Ledger Additional Detail Summary (Fast path: PLS009)

- Product Ledger Group Summary (Fast path: PLS010)
- Inter Branch Parameter Summary (Fast path: PLS014)

To view the detailed procedure for each application page, see its context-sensitive help in the application.

# 5.3 Product Manufacturing Unit Day 0 Setup

The Product Manufacturing Unit (PMU) is a flexible and competent framework for defining products. It has list of tasks to be performed for defining a new product. Each task should be completed parallel or sequentially by respective departments in a bank. It can be mandatory, conditional or non mandatory. The product manufacturing is complete if the respective mandatory tasks are complete.

#### Prerequisites

Following are the prerequisites for PMU Day 0 Maintenances:

- Define Interest Rule (Fast path: PM011)
- Asset Classification (AC) Plans Maintenance (Fast path: NP002)
- Installment Rule Details (Fast path: LNM43)
- Loan Schedule Type (Fast path: LNM98)
- Product Ledger Maintenances
- Common Services Purpose Code, Currency Code, Calendar Maintenance, Bank Policy
- Accounting Template Maintenance
- Facility Category (Fast path: LCMS53)
- Collateral Category
- DMS maintenance: Document Type Definition (Fast path: CNM01), Document Category Definition (Fast path: CNM02), Document Policy Definition (Fast path: CNM03)
- GAAP Summary (Fast path: PLS001)
- Risk Indicators Impacts Cross-Reference (Fast path: ACCT010)
- Global Parameter (Fast path: LCM48)
- LTV Matrix (Fast path: LCM52)
- Rate Chart Maintenance (Fast path: PR004)
- Index/Margin Index Code Definition (Fast path: PR005)
- Price Policy Chart Maintenance (Fast path: PR007)
- Price Definition (Fast path: PR006)
- Charge Attribute Definition (Fast path: PR008)
- Tier Criteria Definition (Fast path: PR009)
- Price Benefit Chart (Fast path: PR015)

#### **Day 0 Maintenances**

The following PMU Maintenances must be completed as a part of bank and branch set up:

- Define Party Bank Policy (Fast path: PI314)
- Define CASA Bank Policy (Fast path: PM002)
- Define TD Bank Policy (Fast path: PM003)
- Define Loan Bank Policy (Fast path: PM004)
- Define Bundle Bank Policy (Fast path: PM005)
- Define Hardship Relief Policy (Fast path: PM006)
- Define Statement Policy (Fast Path: PM007)
- Define Dormancy Policy (Fast path: PM008)
- Define Credit Policy (Fast path: PM009)
- Define Product Group (Fast path: PM010)
- Define Interest Rule (Fast path: PM011)
- Define TD Interest Payout Plan (Fast path: PM012)
- Define CASA Product (Fast path: PM013)
- Define Loan Product (Fast path: PM014)
- Define TD Product (Fast path: PM015)
- Define Credit Card Product (Fast path: PM016)
- Define Product Interest Linkage (Fast path: PM017)
- Link Dependent Offers (Fast path: PM018)
- Define Bonus Interest Parameters (Fast path: PM019)
- Define CASA Offer (Fast path: PM020)
- Define TD Offer (Fast path: PM021)
- Define Loan Offer (Fast path: PM022)
- Define Credit Card Offer (Fast path: PM023)
- Define Campaigns (Fast path: PM024)
- Link Offers for Principal Offset Facility (Fast path: PM025)
- Define Offer Bundle (Fast path: PM026)
- Define Transaction Restriction (Fast path: PM027)
- Define Domain Category Settlement Mode (Fast path: PM030)
- Define Product Settlement Mode (Fast path: PM031)
- Define Product Group Accounting Entry Template (Fast path: PM032)
- Define Product Accounting Template (Fast path: PM033)
- Define Product Group Role Mapping (Fast path: PM034)
- Define Product Account Role Mapping (Fast path: PM035)
- Define Accounting Class (Fast path: PM036)

- Define Domain Category Accounting Template (Fast path: PM037)
- Define Domain Role Mapping (Fast path: PM038)
- Define Affinity (Fast path: PM042)
- Define Activity Profile Questions (Fast path: PM046)
- Define Investment Product (Fast path: PM047)
- Define Investment Offer (Fast path: PM048)

To view the detailed procedure for each application page, see its context-sensitive help in the application.

# 6 Setting Up Sales Offer Handoff

This chapter describes the sales offer handoff related activities to be performed as an administrator.

# 6.1 Day Zero Setup (Configuration)

This section explain the day zero setup required for setting up the sales offer handoff.

## 6.1.1 Changes to be done in OBP

Following are the steps:

1. ODI has two schemas, namely, one for source and another for target. Source schema is the schema of the DB to which the OBP HOST is connected. The following tables are to be created in target schema:

FLX\_PM\_SALES\_OFFER\_STG FLX\_PM\_SALES\_OFFER\_STG\_H FLX\_PM\_CC\_SALES\_OFFER\_STG FLX\_PM\_CC\_SALES\_OFFER\_STG\_H FLX\_PM\_CS\_SALES\_OFFER\_STG\_H FLX\_PM\_TD\_SALES\_OFFER\_STG\_H FLX\_PM\_TD\_SALES\_OFFER\_STG\_H FLX\_PM\_LN\_SALES\_OFFER\_STG\_H

- 2. Following configuration is needed in the source schema tables:
  - a. UPDATE FLX\_FW\_CONFIG\_VAR\_B SET PROP\_VALUE = '10.180.4.60' WHERE PROP\_ ID = 'odi.server.name'; (where '10.180.4.60' is the HOST IP of ODI Agent i.e. ip of the server on which odi is installed).
  - b. UPDATE FLX\_FW\_CONFIG\_VAR\_B SET PROP\_VALUE = '15101' WHERE PROP\_ID = 'odi.server.port'; (where '15101' is the port number of ODI Agent).
  - c. UPDATE FLX\_FW\_CONFIG\_ALL\_B SET PROP\_VALUE = 'WORKREP' WHERE PROP\_ID = 'WORK\_REPOSITORY'; (where 'WORKREP' is the name of work repository).
  - d. INSERT INTO FLX\_FW\_ENUM\_REPRESENTATIONS (ENUM\_FQN,ENUM\_ VALUE,USER\_LOCALE,ENUM\_NAME,ENUM\_REPRESENTATION,ORDINAL\_ NUMBER,CREATED\_BY,CREATION\_DATE,LAST\_UPDATED\_BY,LAST\_UPDATED\_ DATE,OBJECT\_STATUS\_FLAG,OBJECT\_VERSION\_NUMBER) VALUES ('com.ofss.fc.enumeration.ProcessCategoryType','17','en\_us','PMU\_SALES\_OFFER','Sales Offer Handoff Shell',0,'OFSSUSER',TO\_TIMESTAMP('SYSDATE,'DD-MON-RR HH.MI.SSXFF AM'),'OFSSUSER',TO\_TIMESTAMP('SYSDATE ','DD-MON-RR HH.MI.SSXFF AM'),'A',1);

- e. UPDATE FLX\_FW\_CONFIG\_ALL\_B SET PROP\_VALUE = 'SUPERVISOR' WHERE PROP\_ID = 'ODI\_USER\_NAME; (where 'SUPERVISOR' is password for master repository).
- f. UPDATE FLX\_FW\_CONFIG\_ALL\_B SET PROP\_VALUE = 'SUNOPSIS' WHERE PROP\_ID = 'ODI\_USER\_PASSWORD'; (where 'SUNOPSIS' is password for master repository).
- g. INSERT INTO FLX\_DI\_ETL\_JOB\_DEFINITION (CREATED\_BY, CREATION\_DATE, LAST\_UPDATED\_BY, LAST\_UPDATED\_DATE, EXECUTION\_UNIT, BATCH\_ CATEGORY, EXECUTION\_UNIT\_DESC, IS\_ENABLED, JOB\_FREQUENCY) VALUES ('Admin', TO\_DATE('10-05-2013', 'dd-mm-yyyy'), 'Admin', TO\_DATE('10-05-2013', 'dd-mmyyyy'), 'PKG\_PM\_SALES\_OFFER\_STG', 17, '', 1, 1);

## 6.1.2 Changes to be done in ODI

Following are the steps:

#### Step 1 Connect to Repository

To connect to a repository:

- 1. Click Connect to Repository.
- 2. Enter the following details:
  - Password for SUPERVISOR is SUNOPSIS. Its corresponding configuration is given in source schema in Day Zero Setup changes in OBP in source schema tables as given in step e and f. This same username and password needs to be configured on OBP HOST weblogic server console under appConnector.
  - Password for Database Connection: welcome1

Figure 6–1 Repository Connection Information

Login Name:	ODI_PMU	evelo
User:	SUPERVISOR	dmin
Password:	•••••	-
Database Conne	ction (Master Repository)	
User:	ODIPMU_ODI_REPO	
Password:	•••••	
Driver List:	Oracle jDBC Driver 🔹 🔍	ll On
Driver Name:	oracle.jdbc.OracleDriver	
URL:	jdbc:oracle:thin:@10.180.4.60:1521/PD8460A	7, 20
Work Repositor	У	1,20
🔘 Master Rej	ository Only	
Work Report	sitory WORKREP	
Default Conne	ction	
<u>H</u> elp	Test OK Cancel	

#### Step 2 Physical Architecture

To generate a physical architecture:

- 1. Navigate to Topology tab -> Physical Architecture -> Technologies -> Oracle.
- 2. Right-click and select the **New Data Server** option.

Figure 6–2 Physical Architecture - New Data Server

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3. In the **Definition** tab of that data server, enter the data server name, connection username and password of the DB.

For your source data server, the name should be OBP\_SRC. The target data server name can be of your choice.

Figure 6–3 Data Server - Definition

•	3 Start Page Start Page OBP_1 Test Connection	SRC ···
<b>^</b>	Definition JDBC	莺 Data Server
	JDBC On Connect/Disconnect Datasources Version Privileges Flexfields	Name: OBP_SRC Instance / dblink (Data Server): Connection User: R26PMU Password:
		JNDI Connection Array Fetch Size: 30 Batch Update Size: 30 Degree of Parallelism for Target: 1

4. In the **JDBC** tab, enter the details as shown in Figure 6–4.

Click Test Connection. Select Physical agent as Local and click OK.

Figure 6–4 Data Server - JDBC

Definition			
DBC	JDBC Driver:	oracle.jdbc.OracleDriver	
On Connect/Disconnect		jdbc:oracle:thin:@OBPDB-RAC-CLUSTER-SCAN.in.oracle.com:1521/PDBPMU	
Datasources	JDBC URL:		
/ersion			
Privileges	Properties		
lexfields			

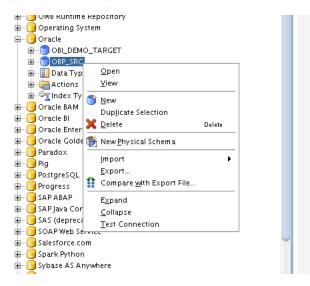
5. Repeat the above steps to make a new target data server.

Figure 6–5 Create New Target Data Server

	🛛 🚰 OBP_SRC.RZ6PMU 🚿 🕤 OBI_DEMO_TARGET 🐣				
- 🎽 🕶	Test Connection				
	Definition				
-	JDBC	📁 Data Server			
	On Connect/Disconnect	Name: OBI_DEMO_TARGET			
	Datasources	Instance / dblink (Data Server):			
	Version				
0	Privileges	Connection			
	Flexfields	User: OBI_DEMO			
		Password: ••••••			
		JNDI Connection			
		Array Fetch Size: 30 Batch Update Size: 30 Degree of Parallelism for Target: 1			

6. Right-click source data server and select New Physical Schema.

Figure 6–6 New Physical Schema



7. Select the schema and work schema of the data server which you just created.

Definition Context	🖉 Physical Schema (Data	Physical Schema [Data Server: OBP_SRC]	
Version	Name: OI	BP_SRC.R26PML	J
Privileges	Schema (Schema): RZ	:6PMU	
Flexfields			
	Schema (Work Schema): RZ	R26PMU 💌	
	✓ Default		
	Work Tables Prefix		
	Errors: E\$_	Errors: E\$_ Loading: C\$_ Integration: I\$_ Temporary Indexes: D\$_	
	Journalizing elements pro	Views: JV\$ Triggers: T\$	
	Datastores: J\$		
	Naming Rules		
	Character Encoding:		
	Local Object Mask:		%SCHEMA.%OBJECT
	Remote Object Mask:		%SCHEMA.%OBJECT@%DSERVER
	Partition Mask:		%SCHEMA.%OBJECT PARTITION(%PARTITION)
	Sub-Partition Mask:		%SCHEMA.%OBJECT SUBPARTITION(%PARTITION)
	Local Sequence Mask:		%SCHEMA.%OBJECT.nextval
	Remote Sequence Mask:		%SCHEMA.%OBJECT.nextval@%DSERVER
	Local Sequence Current	Value Mask:	%SCHEMA.%OBJECT.currval
	Remote Sequence Curre	nt Value Mask:	

Figure 6–7 Physical Schema - Definition

8. Perform the same steps for target source and select the schema of target data server.

Figure 6–8 Physical Schema - Target Data Server

	🛛 📆 OBP_SRC.R26PMU 🔺 👹 OBI_DEMO_TARGET.OBI_DEMO 🐣					
<b>"</b> •	Definition	Physical Schema [Data Server: OBI_DEMO_TARGET]				
	Context		OBI_DEMO_TARG	· · · · · · · · · · · · · · · · · · ·		
	Version Privileges					
	Flexfields	Schema (Schema):	OBI_DEMO	▼		
Schema (Work Schema): OBI_DEMO 💌						
		✓ Default				
		Work Tables Prefix				
	Errors: E\$_ Loading: C\$_ Integration: I\$_ Tempor		Integration: I\$_ Temporary Indexes: 🖾			
		Journalizing elements prefixes				
		Datastores: J\$ Views: JV\$ Triggers: T\$				
		🗆 Naming Rules	es			
		Character Encoding:		BASE38		
		Local Object Mask:		%SCHEMA.%OBJECT		
		Remote Object Mask:		%SCHEMA %OBJECT#%DSERVER %SCHEMA %OBJECT PARTITION(%PARTITION)		
		Partition Mask:				
		Sub-Partition Mask:		%SCHEMA.%OBJECT SUBPARTITION(%PARTITION)		
		Local Sequence Mask:		%SCHEMA.%OBJECT.nextval		
		Remote Sequence Mas	k.	%SCHEMA.%OBJECT.nextval@%DSERVER		
		Local Sequence Curre	nt Value Mask:	%SCHEMA.%OBJECT.currval		
U		Remote Sequence Cur	rent Value Mask:	%SCHEMA.%OBJECT.currval@%DSERVER		

Figure 6–9 Physical Schema List



#### Step 3 Logical Architecture

To generate a logical architecture:

- 1. Navigate to Topology tab -> Logical Architecture -> Technologies -> Oracle.
- 2. Right-click and select the **New Logical Schema** option.

Designer (	Operator Topology × Securi	ty	
2			<u> -</u>
Physical Arcl	nitecture		
Contexts			<u> -</u>
Logical Arch	itecture		_
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🗄 🕛 İn-Mı	emory Engine		
🗄 📋 Infor			
🗄 [ Ingre			
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	soft Access		
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🛓 🥛 Oper	ating System		
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Figure 6–10 Logical Architecture - New Logical Schema

3. In the **Definition** tab of that logical schema, enter the name.

For your source logical schema, the name should be OBP\_SRC.

4. Set its context to its corresponding physical schema.

Figure 6–11 Logical Schema - Definition

U			
•	Definition Privileges	🔂 Logical Schema	
	Flexfields	Name: OBP_SRC	
		Context	Physical Schemas
		Global	OBP_SRC.R26PMU

5. Open the physical schema. Under its context tab, set its context to this logical schema.

Figure 6–12 Physical Schema - Set Context

	👼 OBP_SRC	× 👹 OBP_SRC.R26PMU 🐣	
•	Definition Context		
*	Version	Context Global	Logical Schema OBP_SRC
I	Privileges Flexfields		

The architecture is now complete.

#### Step 4 Creating Model

To create a model:

1. Navigate to Designer tab -> Models.

Click the symbol on its upper right corner and select New Model.

```
Figure 6–13 New Model
```

	Help 19 30 11 110
Designer × Operator   Topology   Security	🗉 🔚 OBP_SRC 🐣
G2	👗 🔹 🔞 Reverse Engineer 🛷 Check i
± Projects	Definition
_ Models	Reverse Engineer
₽- 📻 OBI_DEMO_SOURCE	🚞 New Model Folder
	🛗 New Model
⊞	🛗 New Model and Topology Objects
	🚞 Import Model Folder
	🛗 Import Model
	📁 Version Browser Model Folders
	🛗 Version Browser Model
	Version

2. In the **Definition** tab, name the source model as OBP\_SRC. Target model name can be of your choice.

3. Select **Technology** as Oracle and select the corresponding **Logical Schema**.

Figure 6–14 OBP\_SRC Model - Definition

Reverse Engineer 🛷 Check	Model Generate ar	nd Deploy Data Services
finition	C Madal	
verse Engineer	📠 Model	
elective Reverse-Engineering	Name:	OBP_SRC
ontrol	Code:	OBP_SRC
burnalizing		
ournalized Tables	Technology:	Oracle
ervices	Logical Schema:	OBP_SRC
larkers	0 -+i Cu	
1emo	Action Group:	<generic action=""></generic>
fersion (	Default Folder:	
rivileges		Display the Metadata changes in the Model tree
lexfields	Description:	

Figure 6–15 OBP\_SRC Model - Reverse Engineer

	BOBP_SRC ×					
<b>Å.</b> -	🔞 Reverse Engineer 🔗 Check	KModel Generate and Deploy Data Services				
	Definition	Standard Ocustomized				
	Reverse Engineer					
	Selective Reverse-Engineering	Context: Global				
	Control	Types of objects to reverse-engineer				
	Journalizing	Types of objects to reverse engineer				
	Journalized Tables	Table View Queue System Table Table Alia:				
	Services	Mask: %				
	Markers					
	Memo	Characters to Remove from Table Alias:				
	Version	Table Alias maximum length: 35				
	Privileges					
	Flexfields					

4. Repeat the steps for the other model.

Figure 6–16 OBI\_DEMO\_TARGET Model - Definition

🖁 Reverse Engineer 🛛 🖋 Check	Model Generate ar	nd Deploy Data Services
efinition	m Model	
everse Engineer elective Reverse-Engineering ontrol	Name:	OBI_DEMO_TARGET
ournalizing	Code:	OBI_DEMO_TARGET
urnalized Tables	Technology:	Oracle
ervices arkers	Logical Schema:	L_OBI_DEMO_TARGET
emo	Action Group:	<generic action=""></generic>
ersion	Default Folder:	
rivileges lexfields	Description:	Display the Metadata changes in the Model tree

Figure 6–17 OBI\_DEMO\_TARGET Model - Reverse Engineer

Definition Reverse Engineer	Standard Customized	
Selective Reverse-Engineering Control Journalizing	Context: Global Types of objects to reverse-engineer Table View Oueue	System Table
Journalized Tables Services Markers	Mask: Characters to Remove from Table Alias:	%
Memo Version Privileges	Table Alias maximum length:	35

- 5. In the **Reverse Engineer** tab, select the Standard option.
- 6. From the **Context** list select the value as Global.
- 7. In the Types of objects to reverse-engineer section, select the **Table** check box.
- 8. Click **Reverse Engineer.** This will take a few minutes.

Figure 6–18 Click Reverse Engineer

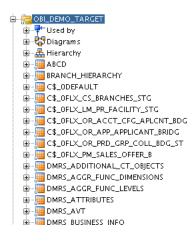
Definition Reverse Engineer	📠 Model						
Selective Reverse-Engineering	Name:	OBP_SRC					
Control ournalizing	Code:	OBP_SRC					
ournalized Tables	Technology:	Oracle					
Services	Logical Schema:	OBP_SRC					
Markers Memo	Action Group:	<generic action=""></generic>					
/ersion	Default Folder:						
Privileges Flexfields	Display the Metadata changes in the Model tree Description:						
	A Please wait@of Phase 1: Reverse-er	ss310004 × ngineering Datastore: FLX_LM_BANK_GUARANTEE Cancel					

9. Expand the model that you have generated. You can see all the tables of your DB under it.

Figure 6–19 OBP\_SRC DB Tables

OBP_SRC     OBP_SRC     OBP_SRC     OBP_SRC     OBP_SRC     OBP_SRC     OBP_SRC     OBP_SRC     OBP_SCOLLATERALDEDUPE_IDX\$I     OR\$COLLATERALDEDUPE_IDX\$K     OR\$COLLATERALDEDUPE_IDX\$R     OR\$COLLATERALDEDUPE_IDX\$R     OR\$FLX_FW_CONFIG_ALL_B_N1\$I     OR\$FLX_FW_CONFIG_ALL_B_N1\$I     OR\$FLX_FW_CONFIG_ALL_B_N1\$I
Contraction     Contracti
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DR\$COLLATERALDEDUPE_IDX\$K     DR\$COLLATERALDEDUPE_IDX\$N     DR\$COLLATERALDEDUPE_IDX\$N     DF DR\$COLLATERALDEDUPE_IDX\$R     DF DR\$FLX_FW_CONFIG_ALL_B_N1\$I
DR\$COLLATERALDEDUPE_IDX\$N     DR\$COLLATERALDEDUPE_IDX\$R     DR\$COLLATERALDEDUPE_IDX\$R     DR\$FLX_FW_CONFIG_ALL_B_N1\$I
🖬 💭 DR\$COLLATERALDEDUPE_IDX\$R 🖶 💭 DR\$FLX_FW_CONFIG_ALL_B_N1\$I
DR\$FLX_FW_CONFIG_ALL_B_N1\$I
- <u>-</u>
🖶 🔚 DR\$IDX_FLX_AC_TRN_PARTY_SMRY\$I
🖶 🔚 DR\$IDX_FLX_AC_TRN_PARTY_SMRY\$K
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🖶 🔚 DR\$IDX_FLX_AC_TRN_PARTY_SMRY\$R
🖮 🔚 DR\$IDX_FLX_CS_AUDIT_SMRY\$I
🖶 🔚 DR\$IDX_FLX_CS_AUDIT_SMRY\$K
🖮 🔚 DR\$IDX_FLX_CS_AUDIT_SMRY\$N
🖶 🔚 DR\$IDX_FLX_CS_AUDIT_SMRY\$R
🖮 🔚 DR\$IDX_FLX_DD_FIN_SMRY\$I
🖶 🔚 DR\$IDX_FLX_DD_FIN_SMRY\$K
🖮 🔚 DR\$IDX_FLX_DD_FIN_SMRY\$N
🖶 归 DR\$IDX_FLX_DD_FIN_SMRY\$R
🖶 归 DR\$IDX_FLX_DD_NON_FIN_SMRY\$I
🗄 🧰 DDŘIDV, ELV, DD, MAN, EIN, CNDVŘK

Figure 6–20 OBI\_DEMO\_TARGET DB Tables

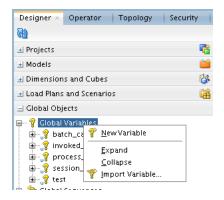


Step 5 Creating Global Variables

To create global variables:

- 1. Navigate to Designer tab -> Global Objects.
- 2. Right-click on Global Variables and select New Variable.

Figure 6–21 New Variable



3. Enter the following values:

Name: batch\_category Datatype: Numeric Keep History: No Default Value: 17

Figure 6–22 Variable - Definition

💡 batch_cat	egory ×	
Definition		
Refreshing	🦪 Variable	
History	Name:	batch_category
Markers	Datatype:	Numeric
Memo	Datatype.	Indificite
Version	Keep History:	No History
Privileges	Secure Value:	
	Default Value:	17
	Description:	

4. In the Refreshing tab, from the Schema list select the OBP\_SRC schema.

In the Select Query section, enter "select 17 from dual".

Figure 6–23 Variable - Refreshing

batch_cat	egory ×
<b>.</b>	
Definition	Schema: OBP_SRC 🗸
Refreshing	Scheine.
History	Select Query:
Markers	select 17 from dual
Memo	
Version	
Privileges	

5. Create global variable invoked\_scenario with the following values in the Definition tab:

Name: invoked\_scenario Datatype: Alphanumeric Keep History: No

In the Refreshing tab, enter the following values:

Schema: OBP\_SRC Query: "SELECT '<%=odiRef.getPackage("PACKAGE\_NAME")%>' from dual".

6. Create global variable process\_date with the following values in the Definition tab:

Name: process\_date Datatype: Alphanumeric Keep History: No

In the Refreshing tab, enter the following values:

Schema: OBP\_SRC Query: "select '12345' from dual".

7. Create global variable session\_id with the following values in the Definition tab:

Name: session\_id Datatype: Numeric Keep History: No

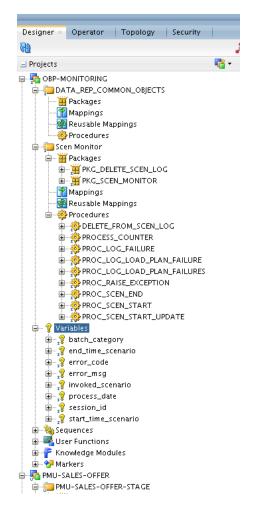
In the Refreshing tab, enter the following values:

Schema: OBP\_SRC Query: "SELECT <%=odiRef.getSession("SESS\_NO")%> from dual".

#### Step 6 Projects Required in ODI

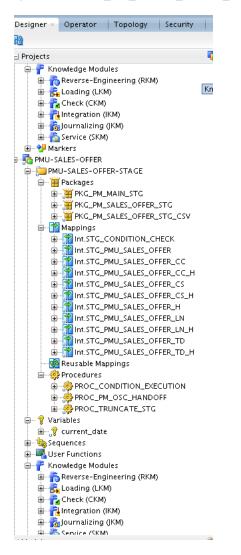
Modify the projects, scenarios, package, mappings of PMU-SALES-OFFER and OBP-MONITORING.





The package PKG\_PM\_SALES\_OFFER\_STAGE is the main package which is called from the OBP HOST and is configured in Day Zero Setup changes in OBP in source schema tables as given in step g.

Figure 6-25 PKG\_PM\_SALES\_OFFER\_STG



#### Step 7 CSV File Generation and Exporting it to Required Server

The procedure is as follows:

1. As seen in Figure 6–26, in the Properties section, in the General tab, the value mentioned in the **Target File** parameter is the path where the csv file New\_Package.csv is generated.

Similarly, you must also enter the jdbc and other related parameter details of your target schema.

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Integration (IKM)			<u> </u>	
🖶 💑 Journalizing (JKM)		🔔 OdiBeep	🗾 - ok	
iii 🚡 Service (SKM)		强 OdiCreateDeploymentArchiv	Execution of the S., Int.STG_PMU_SALE., Int.STG_PMU_SALE., Int.STG_PMU_SALE.	ALE Int STG_PMU SALE Execution of the Sale
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a PMU-SALES-OFFER		n OdiEnterpriseDataQuality		
- Packages		1 OdiExportAllScen		
B- FKG_PM_MAIN_STG		OdiExportEnvironmentInform		
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Int.STG_PMU_SALES_OFFER_CS		G OdiFileAppend		
B Int.STG_PMU_SALES_OFFER_CS_F	1	CdiFileCopy	OdiSqUDlead 4 OdiOSCommand 8 Execution of the S	
Int.STG_PMU_SALES_OFFER_H     Int.STG_PMU_SALES_OFFER_LN		OdiFileDelete	oursepondent + oursecontinue o Execution of the s	
Int.STG_PMU_SALES_OFFER_LN_F			Properties	
B MILSTG_PMU_SALES_OFFER_TD		CdiFileMove		
	4	CdiFileWait	General Command Advanced Memo Version Privileges	
Reusable Mappings		odiFtp 🖓	OdiSqlUnload	
		🗞 OdiFtpGet	Select a parameter for more information about it.	
B-SPROC_CONDITION_ELECTION		3 OdiFtpPut	Step name	
B PROC_TRUNCATE_STG		S OdiGenerateAllScen	OdiSqlUnload 4	
🖶 💡 Variables		Codilm portObject		
🖶 🧊 current_date			Parameter	Value
Sequences		GilmportScen 🚽	Target File	/scratch/app/product/fmw/oracle_common/common_projects/New_Package.csv
🖶 🚟 User Functions 😑 🥐 Knowledge Modules			JDBC Driver IDBC URL	oracle.jdbc.OracleDriver idbc:oracle.thin:@sic11kti.us.oracle.com:1521/PD8O8P
Reverse-Engineering (RKM)		😂 Changed Data Capture	User	CXOBP
E 🛃 Loading (LKM)		Section Detection	Password	******
🗉 🙀 Check (CKM)		🗁 Files	File Format	Delimited
Integration (IKM)		😂 Internet	Field Separator Field Separator (Hexa)	· · · · · · · · · · · · · · · · · · ·
Service (SKM)		😂 Metadata	Record Separator	\r\n
Addels	-	Gracle Data Integrator Objects	Record Separator (Hexa)	
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oad Plans and Scenarios		🗁 Plugins	Charset XML Charset	IS08859_1 IS0-8859-1
	48	😂 SAP	SQL Query	select txt from (
Slobal Objects	-0	🗁 Utilities		
abels		2		

Figure 6–26 PKG\_PM\_SALES\_OFFER\_STG Properties

2. As shown in Figure 6–27, the New\_Package.csv file is being sent to ofss312987.in.oracle.com where rsmohite is the username of the machine in the director /scratch/.

#### Figure 6–27 Export the .csv File



# **7 Setting Up Product**

This chapter describes the process of setting up the product. Products need to be configured manually from the Sales Offer Handoff file. The steps for manually adding Product in OCH are explained in this chapter.

# 7.1 Creating New Product

This section explains the procedure to set up Product for Oracle Banking Platform as Asset or Liability. Following are the steps to configure new Product in OCH:

1. Log on to the UCM application (Siebel Universal Customer Master) with following credentials:

User ID: sadmin

Password: sadmin

Figure 7–1 Log on to UCM

SWETS=1507615007369&S	WEPreLd=1	- C S
	ORACLE	
	User ID	
	sadmin	
	Password	
	•••••	
	Remember my User ID	
	Login	
	Siebel Universal Customer Master	
	Accessibility	
	HTML5 Browser Compatibility	
	XHR2: Fail	
	Placeholder Text: Fail History: Fail	
	DataTransfor	

2. Navigate to Site Map.

#### Figure 7–2 Sitemap

-									- Constant State
>	ttp://ofss3131325.in. <b>c</b>	racle.co	m:7777/	ucm_enu	/start.swe?SW	ECmd=Log	jin&SWEP	L=1&SRN=	&SWETS=15076
Siebel Universa	l Customer ×	_	_	_	_		_	_	
🔳 Home		File	Edit	View	Navigate	Query	Tools	Help	
Q (€	) 🔗 🗄 🔒 🖣								
	Site Map								
Home Welcome Back	Siebel Administra	tor. Too	lay is N	londay, C	)ctober 09, 2	017.			
My Househ	olds								

3. Click the Administration - Product link.

Figure 7–3 Administration - Product

<ul> <li>Administration - Incentive Compensation</li> </ul>
Administration - Insurance
Administration - Integration
Administration - Market Development Funds
Administration - Partner
Administration - Personalization
Administration - Pricing
<u>Administration - Product</u>
Administration - Resolution Documents
Administration - Runtime Events
Administration - Sales Quota
Administration - Scheduling

4. Navigate to the Products view.

Figure 7–4 Products View

( ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (	enu/star	t.swe?SV	VECmd=
🥔 Product Administration: N 🛛 🛛	_	_	
Administration - Pro ORACLE	File	Edit	View
Products 🔻 Product:			
Aggregate     Component     User Interface     Versions     Products     Bundle Product     Category     Collateral     Images			
<ul> <li>Key Features</li> <li>Literature</li> </ul>			
- News			
<ul> <li>Eligibility and Compatibility Rules</li> </ul>			
<ul> <li>Asset Membership Cardinality</li> </ul>			
- Eligibility			
<ul> <li>Product Compatibility</li> </ul>			
<ul> <li>Product Line Compatibility</li> </ul>			

5. In the **Products** list, add a new record and complete the necessary fields.

Provide the following details:

- Name: Name of the Product. Eg: OBP Product
- Type: Product (Should be mentioned as is)
- Product Type: Fin Account (Should be mentioned as is)
- Description

Figure 7–5 Product List

																• ×
			e?SWECmd=GotoVie	w&SWEView=1SS+	Product+Administra	tion+View&SWER	F=1&SWEHo=ofss	3131440.in.oracle.com&SWEBU=1&SWEA	lp ≠ C Sear	ch					P-	<b>↑</b> ★ ☆
Product Administration: OBP P.				_		_	_		_	_	_	_	-			
Administration - Pro		LE' File Ec	dit View Navi	gate Query	Tools Help								<u>_</u>	* All Pro N	٩Q	<b>P</b> 0 <b>2</b>
Q ⊕ ⊉ ₺ & III □ Products ▼ Product	● ₩															
Products											+	- 0	۹	ф 3-	- 16 of 17	<ul> <li>^</li> </ul>
Update Commerce App	Release	Synchronize		~		•										
Name Part #	T) Product	ts:Release UCt Typ	e Description	Product Line	Product Class	Locked Flag	Locked By	Check Eligibility Inclusive Eligibilit	Revision	Status	1	rendor	Billab	le Flag	Report	t Header
Customer Note SEBLRSVNP1																
Penalty Charges	Product		Penalty Charges							Active						
PS Generic Veh	Product	Vehicle														
Write-in Event	Product	Event Order Iter	n													
Write-in Menu I	Product	Menu Item											2			
Write-in Menu	Product	Menu Per Perso	on													
Write-in Packag	Product	Package Each											2			
Write-in Packag	Product	Package Item P														
Write-in Packag	Product	Package Per Pe														
Transportation Trans	Transportation	Transportation														
OBP Product	Product	Fin Account	New Asset Pro				SADMIN									
CASA001	Product	Fin Account														
NCS007	Asset	Fin Account	Reward Saver							Active			2			_
TestProduct	Product	Fin Account	To test Accoun													
						P	( 44 H) HI									
More Info 🔻																
										+	Ô	۹	•	13 of 17	• • •	<ul> <li></li> </ul>
Product + OBP Pro	duct D	roduct Type: Fin	Account		rganization: Defau	t Orozoit 📼		Orderable: 🗹								
		Status:			roduct Line:	m organiz 💿		Bundle:								
Description: New Ass	et 🗘	Status.			100000 Lante.	80		purvie.								

6. Step off the record. Press Ctrl + S to save the record.

- 7. From the list, select the newly created product record. Click Release.
- 8. In the More Info Applet, navigate to the first occurrence of **More Info** in the list.
- 9. In the subsequent page, navigate to the first occurrence of More Info in the Product Activities list.

Figure 7–6 Product Activities

Penalty Charges	Product	Penalty Charges
PS Generic Veh	Product	Vehicle
Write-in Event	Product	Event Order Item
Write-in Menu I	Product	Menu Item
Write-in Menu	Product	Menu Per Person
Write-in Packag	Product	Package Each
Write-in Packag	Product	Package Item P
Write-in Packag	Product	Package Per Pe
Transportation Trans	Transportation	Transportation
Activity T Product Activity T More Info Name More Info More Info Product Info Ease and C	Fourth Le dications Workflow	vel View Bar
Fees and C	onditions	

10. From the **Category** list select the value as Asset or Liability.

Figure 7–7 More Info - Select Category

			SWECmd=GotoView&	SWEView=LS+Product+Admin	sistration+Detail+View	%SWERF=1&SWEHo=ofss3131440.in.oracle.com&S	WEBU=1 ▼ C S
Product Administrat Administration		RACLE' File Edi	t View Navigat	e Query Tools Hel			_
			t view Navigat	e query roois Hei	,		
Products V Pr							
OBP Produ	uct						
Product	OBP Product	Product Type: Fin A	ccount 🔽	Organization:	Default Organiz. 📧	Orderable: 🗹	
Description	New Asset	Status:	~	Product Line:	88	Bundle:	
	Product Desc			Unit of Measure:	~	Customizable:	
Payment Type	~			Structure Type:	None	Track as Asset:	
				Structure Type.		HOLK OF ASSEL	
More Info V	lore Info 🔻						
Parent:	30	Start:		Price Type:*	One-Time 💙	Unique Assets: 🗖	
Organization:	Pension	End:	02	Sample Cost:	٢	Requires Approval: 🗖	
Profit Rank:	Asset	spproval #:		Promo Cost:	3	>1 Barcode:	
Level:	Liability	proval Org:	~	WAC:	(9)	Orderable: 🗹	
Rollup Level:	Life & Annuity	Product Administratio	n Detail 🗸 🗸	IMS Id:		Sales Product: 🗹	
Root	Personal Lines	Insurance U/M:	~	NDC #:		Service Product:	
Barcode:	Service	oses/Unit:		Manufacturer:		Resource:	
Unique Id:	Transaction Group Insurance	e Unit Size:		Part # Method:	~	Bundle:	
Expression:	Individual Healt	~		Vendor:		Taxable:	
Lot #	Derivative	Qtv:		Vendor Part #:		Disable Discount:	
Short Days:	Currency	Region:		Lead Time:	[	Compensable:	
Boute Used:	Commodity			Equivalent(s):		OTC Product:	
Category:	Commercial Ins	Global Id:		Ship Carrier:		Pre-1938:	
Thumbnail:			1.1700		· · · ·	Auto Explode:	
			1-17DA	Shipping Via:	· · · · · ·		
Image:		Division (SAP):		Model #:		Track as Asset: 🗹	
Type:	~			Catalog #:		Leaf Level:	

11. From the **Type** list, select the appropriate value.

Figure 7–8 More Info - Select Type

lucts   Product  BP Product								1	8	٩	0	
Joi moduci												
Product:	BP Product	Product Type: Fi	in Account	Organization:	Default Organiz 🗟	Orderable:	2					
Description: Ne	ew Asset	Status:	~	Product Line:	3	Bundle:						
Pr	roduct Desc V	Part #:		Unit of Measure:	~	Customizable:						
Payment Type:	~			Structure Type:	None	Track as Asset:	×.					
e Info 🛛 🔻 More	e Info 🔻											
									+	Ô	۹	1
Parent:		Sta	ert 🛛 🔘	Price Type:	One-Time 🗸	Unique Assets: 🗆						
Organization: Def	ault Organiz 📧	Er			0	Requires Approval:						
Profit Rank: L		Approval		Promo Cost		>1 Barcode:						
	Guarantee	Approval O		WAC:		Orderable: 🗹						
Rollup Level:	CASA	Frequenc	ey:	IMS Id:		Sales Product: 🗹						
Court I	:SA Retail Deposit	U/	M: 🗸	NDC#		Service Product:						
	ietaii Deposit DDA	Doses/Ur	vit:	Manufacturer:		Resource:						
	avings/MMA	Unit Siz	ze:	Part # Method:	~	Bundle:						
Expression: C		Units/Ca:	se:	Vendor:	3	Taxable:						
	nvestments Credit Card		ty:	Vendor Part #:		Disable Discount:						
Lot #:	oredit Card	Regio	an: 🗸	Lead Time:		Compensable: 🗹						
c		si	te:	Equivalent(s):		OTC Product:						
Short Days:	ksset Finance					Pre-1938:						
Short Days: L Route Used: A Category: R	Retirement	Global	Id:	Ship Carrier:	~	PTE-1938.						
Short Days: L Route Used: A Category: F		Global		Ship Carrier: Shipping Via:	×	Auto Explode:						

12. Press Ctrl+S to save the record.

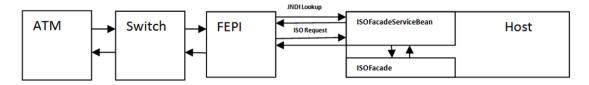
# 8 Setting Up Channels

This chapter describes the process of setting up the channels.

## 8.1 Channel Setup

This section explains the procedure to set up Channels for Oracle Banking Platform. The Figure 8–1 gives an overview of the transaction message flows.

#### Figure 8–1 Transaction Message Flows



The Channels setup involves three main steps as follows:

#### Step 1 Front End Processing Interface (FEPI) Application Installation

Install the FEPI application on the host server as a separate application, which will listen to any incoming request from the switch. There is separate FEPI application for ATM and POS.

#### Step 2 ATM or POS Bank Parameter Maintenance (Fast Path: ATM001)

Log in to Oracle Banking Platform and define the Bank Level parameters for ATM transactions using the **ATM** or **POS Bank Parameter Maintenance page (Fast Path: ATM001)**.

Following are some useful definitions of fields used in this page:

- **Originating Branch:** The originating branch code refers to the branch through which the ATM transactions of Remote On-us would be routed to respective branches.
- ATM Offline Limit: The offline limit is in turn maintained operationally in the Switch. When the ATM is offline, the offline limit is compared with the balance in the PBF file. The amount that is lower on comparison that is, either the PBF balance or the Switch limit is permitted for withdrawal. This functionality of comparison will be only for On-us transactions.
- Institution ID: Each code uniquely identifies the bank in the network. Institution ID is allotted by the central bank of the country, or the body that governs payment systems in the country.
- Institution Name: The name of the institution.
- Holds Applicable:
  - ATM Debit Hold, POS Debit Hold: It is applicable for marking hold on debit instructions. Rather than direct debiting the account, hold will be marked and then later after some time amount is debited from account.

- ATM Credit Hold: It is applicable for marking hold on credit instructions. Rather than direct crediting the account, hold will be marked and then later after some time amount is credited to account.
- **ATM Offline Hold:** It is applicable once ATM becomes online. Rather than direct debiting the account, hold will be marked and then later after some time amount is debited from account.
- Forwarder Institution ID: It identifies the network or Institution forwarding the request or advice message in an interchange system. Forwarder Institution ID is allotted by the central bank or the governing body for non-branch channels to Master Card, VISA, cash net. In case of tie-up, other bank's Acquirer Institution ID will be Forwarder Institution ID.
- Forwarder Cash GL: This GL account will be credited or debited for remote-on us transactions and off-us transactions done through the Bank's ATM.
- Forwarder Fee GL: This GL account will be credited for the transactions performed by other bank's customers through ATM, owned and managed by our bank.

#### Note

To view the detailed procedure for **ATM or POS Bank Parameter Maintenance page (Fast Path: ATM001)**, see its context-sensitive help in the application.

#### Step 3 ATM or POS Terminal Setup (Fast Path: ATM002)

Set up individual ATM or POS terminal for the bank for transactions using the ATM or POS Terminal Setup (Fast Path: ATM002) page.

Following are some useful definitions of fields used in this page:

- Card Acceptor Terminal ID: User inputs the code which uniquely identifies a terminal at the card acceptor location. It is maintained for both ATM and POS machines.
- Acquirer Institution ID: Identifies the acquirer institution ID associated with the ATM/ POS terminal.
- Forwarder Institution Supported: Identifies the forwarder Institution ID to be supported for this ATM/POS terminal.
- Branch Code: The originating branch code refers to the branch through which the ATM transactions would be routed to respective branches. Originating Branch handles Cash Funding (To/ From ATM) and Cheque Deposited at ATM.
- POS Terminal GL: This GL account will be credited or debited for cash transactions done through the Bank's POS terminal.
- ATM Cash GL: This GL account will be credited or debited for cash transactions done through the Bank's ATM terminal by the bank customers.

#### Note

To view the detailed procedure for **ATM or POS Terminal Setup** (Fast Path: ATM002), see its context-sensitive help in the application.

## 8.2 Front End Processing Interface (FEPI)

This section contains information related to FEPI.

### 8.2.1 Installation

FEPI is installed in the same location as Oracle Banking Platform (/scratch/app/product/fmw/obpinstall/obp). Following are the steps for FEPI installation:

- 1. Create a directory structure for FEPI similar to the OBP environment.
- 2. Change the paths in FEPI start scripts as per the environment, **start\_fepi\_atm.sh** and **start\_fepi\_ pos.sh** at /fepi/scripts.
- 3. Change the following property values in **channels\_atm.properties** and **channels\_pos.properties** as per the environment:
  - BANK\_CODE: Indicates the bank code

For example, BANK\_CODE=335

LISTENER\_PORT: The port number on which FEPI server accepts incoming ISO message requests.

For example, LISTENER\_PORT=9999

 COMMAND\_PORT: The port number on which FEPI server accepts command message. (Note: Need to specify an available valid port number, so that FEPI starts; it is a feature of native code and currently no messages are sent)

For example, COMMAND\_PORT=9998

FNDI.FJ.java.naming.provider.url: The IP address and port number on which WebLogic accepts requests

For example, FNDI.FJ.java.naming.provider.url=t3://10.180.9.108:7001

4. Start ATM and POS FEPI; On prompt enter WebLogic Log in credentials.

For example, **\$ sh start\_fepi\_atm.sh** 

5. After running the start\_fepi\_\*.sh, it will prompt for password. This password is the same as the admin password on Weblogic server.

### 8.2.2 ATM And POS Trace Logs

The Trace logs are available in logs folder, for example, /fepi/logs.

Additionally **fepi-console** and **fepi-ofss** logs are also stored at the above location for ATM and POS FEPI server.

### 8.2.3 module.channel or cz.module.channel enabling of logs

This is not related to FEPI, and these logs (host logs) are controlled by logging.xml of the WebLogic server.

To understand the logging mechanism, see the OEM Diagnosibility details at http://docs.oracle.com/cd/E25054\_01/doc.1111/e24473/diagnosability\_adminuser.htm.

### 8.2.4 Multiple Instances

Currently there are two instances of FEPI, they are ATM and POS. Each instance has a set of individual files along with the common shared files.

For example, for the ATM FEPI server:

File Name	Description
channels_atm.properties	Configuration file
fepi_atm.logging.xml	Logging configuration file
start_fepi_atm.sh	Start script
stop_fepi_atm.sh	Stop script

# 9 Application Monitoring Using OBP Application

This chapter provides an overview on the various monitoring operations performed as an administrator using Oracle Banking Platform application.

## 9.1 Dynamic Monitoring Service (DMS)

The aim is to monitor different channels involved in performing transactions with OBP. The monitoring parameters consists of channels, services, trends (current behavior of execution), and time metrices. The monitoring is performed by DMS (Dynamic Monitoring Service).

#### What is DMS?

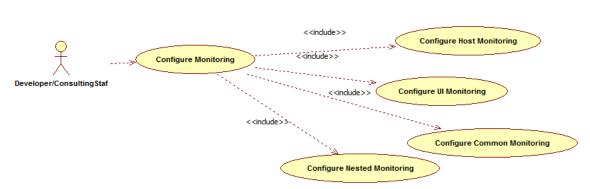
The Oracle Dynamic Monitoring Service (DMS) provides a set of Java APIs that measure and report performance metrics, trace performance and provide a context correlation service for Fusion Middleware and other Oracle products. Along with the APIs, DMS provides interfaces to enable application developers, support analysts, system administrators, and others to measure application-specific performance information.

### 9.1.1 Usage

The usage of DMS is defined by the role of the user. Based on their roles, users can either take part in configuration of services for DMS or monitor the statistics collected via DMS.

#### **Developers**

These are the set of people who configure the monitoring services that are the part of OBP system. The configuration can be made either for available services or for new services.

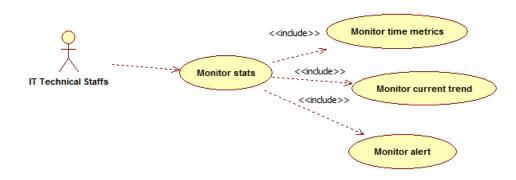


#### Figure 9–1 Developers

#### IT Technical Staff

This consists of set of people who monitor the DMS statistics generated for the service. With the help of various metrics generated they can analyze the behaviour of the target service. For example, 'time taken to execute' service could indicate need of optimization of the service.

#### Figure 9–2 IT Technical Staff



### 9.1.2 Monitoring Application using the OPA001 page

Once DMS statistics are captured for a particular Channel and transactions involving it, it requires a UI representation to understand the statistics in a readable form so that one can analyse the behaviour. The monitoring activities are mainly carried out by IT Technical staff.

### 9.1.2.1 Monitoring Application Performance (Fast path: OPA001)

This page gives the monitoring statistics of different channels and the transactions occurring through it. It gives the time metric of the transactions, trend of the current transactions, and alert for the channel.

																	🚔 Prir	* 🛛
í Mo	nitor App	plication Perfor	mance															
і Арр	plication P	Performance Sum	mary										Pa	ige Refrest	ed 27-May-	2015 11:40:12 AM	GMT+05:30	
						🖋 Bra	nch (2) ATM	<li>Internet</li>	Mobile									
Ар	plication P	Performance																
				All   Transactions	For E	Branch												
				Al   Transactions	▼ For E	Branch												
View	• 🛛	Export To Excel	9 🛦 »		▼ For E	Branch												
View	•	Export To Excel	9 🛦 »		• For E	Branch												
View	• 9	Export To Excel	9 🛦 »		• For E	Branch					Time in n	niliseconds		Transact	tion Count	An	nount	
	• 😥 I	Export To Excel (	❶ ▲ » Layer		For E		Alert Event Time	Trend Reference Queue	Last Alert User	Average	Time in n Max	nilliseconds Min	Total	Transact		An Debit		Cred
Jert				EF Detach		Trend		Trend Reference Queue 4147, 5047, 3252, 3984,		Average 4,563							1	
	Channel	Module	Layer	C Detach	Task Code	Trend	27-May-2015 11:39:37		arun	-	Max	Min	36,501	Success	Failure	Debit	1	Cred
Vert	Channel Branch	Module	Layer Spi	Detach      Transaction  Perform Auto Decision	Task Code	Trend	27-May-2015 11:39:37 27-May-2015 10:46:53	4147, 5047, 3252, 3984,	arun	4,563	Max 6,463 19,078	Min 2,880	36,501 58,167	Success 8	Failure 0	Debit	1	
lert	Channel Branch Branch	Module ORIGINATION TD	Layer Spi Backing Bean	Detach      Transaction      Perform Auto Decision      Mixed Payin_UI	Task Code	Trend	27-May-2015 11:39:37 27-May-2015 10:46:53	4147, 5047, 3252, 3984, 881, 936, 2143, 2616, 6816 6739, 2380, 1740, 758, 1	arun	4,563 4,155	Max 6,463 19,078	Min 2,880 881	36,501 58,167 35,936	Success 8 14	Failure 0 0	Debit		
lert	Channel Branch Branch Branch	Module ORIGINATION TD PARTY	Layer Spi Backing Bean Spi	Detach     Transaction     Perform Auto Decision     Mied Payin, UI     Add Or Update Party Financial Profile	Task Code - TD002 -	Trend • • •	27-May-2015 11:39:37 27-May-2015 10:46:53 27-May-2015 11:39:21 27-May-2015 10:39:16	4147, 5047, 3252, 3984, 881, 936, 2143, 2616, 6816 6739, 2380, 1740, 758, 1	arun - arun	4,563 4,155 3,993	Max 6,463 19,078 11,972	Min 2,880 881 758	36,501 58,167 35,936 3,185	Success 8 14 9	Failure 0 0 0	Debit - - -		
lert	Channel Branch Branch Branch Branch	Module ORIGINATION TD PARTY CASA	Layer Spi Backing Bean Spi Backing Bean	Perform Auto Decision      Perform Auto Decision      Mend Payle, UI      Add Or Update PUTy Fauncial Profile      Add Oru Update Accounts Save_UI	Task Code - TD002 - CASA037	Trend © © © © ©	27-May-2015 11:39:37 27-May-2015 10:46:53 27-May-2015 11:39:21 27-May-2015 10:39:16 27-May-2015 11:36:01	4147, 5047, 3252, 3984, 881, 936, 2143, 2616, 6816 6739, 2380, 1740, 758, 1 465, 2720	arun • arun • arun	4,563 4,155 3,993 1,593	Max 6,463 19,078 11,972 2,720	Min 2,880 881 758 465	36,501 58,167 35,936 3,185 56,535	Success 8 14 9 2	Failure           0           0           0           0           0           0	Debit - - - -		

The overall page can be subdivided in to 3 sub parts on the basis of information they provide:

#### 9.1.2.1.1 Application Performance Summary

This section gives the information about the different channels of OBP through which transactions are taking place. The information is about the health and active channels. The 'Refresh Button' on top of this section gets the latest (refreshed) metrics.

#### Figure 9–4 Application Performance Summary

∡ Application Performance Summary					Page Refreshed 27-May-2015 11:40:12 AM GMT+05:30	69
	Stanch	() ATM	<ol> <li>Internet</li> </ol>	Ø Mobile		

Following are the few notification about the channels:

- Denotes transactions not present for the Channel
- Denotes normal status that is, the number of alerts are less than the specified limit
- Denotes warning status that is, the number of alerts are in the warning range
- Denotes critical status that is, number of alerts exceeds the limit

#### 9.1.2.1.2 Log Level

This section gives logger level information for the host and UI server.

#### Figure 9–5 Log Level

Ja Log Level UI: Host:

#### 9.1.2.1.3 Application Performance

This section gives the metrics for the transaction. Metrics include timing, alert, trending information. Certain filters can be applied over the metric table. Initially only 100 (Initial page size which is configurable) transactions are displayed. To display all the transactions, 'ALL' button is to be clicked.

#### Trend

Indicates trending of execution timings of transaction. It is calculated by algorithm namely, Exponential Moving Average where if the execution time goes above the specified limit which is calculated by adding average execution time of the transaction and allowed limit (varies logarithmically to execution time); the transaction is considered as trending upwards and vice-versa for downwards trend.

However, if the execution time is with the range, trend is considered as neutral.

#### Alert

Indicates alerting state of the transaction. A transaction is given weight based on its properties namely, transaction type, timing category and OBP module. The weight gives the offset allowed for transaction execution time. If the current transaction time is greater than average transaction time + offset, it is marked as alert. Initially it is marked as 'Critical' and after sometime the state is marked as 'Warning'.

#### Figure 9–6 Alert State

		erformance Sum	mary					Branch 3 ATM	1 Intern	et 🛛	Mobile						Pa	je Refreshe	d 27-May	-2015 11:40:12 AM	GMT+05:30
				· Al • ·	Transactions	<ul> <li>For</li> </ul>	Branch														
ew	• 🗟 🗉	Export To Excel	⊎ <b>▲</b> »	🖙 🔡 Detach																	
											Time in r	nillsecond	is .	Transac	tion Count	Amount					
1	Channel	Module	Layer	Transaction	Task Code	Trend	Alert Event Time	Trend Reference Queue	Last Alert User	Average	Max	Min	Total	Success	Failure	Debit	Credit	Trend Reference	Nested Status	Alert ECID	Service
	Branch		Spi	Perform Auto Decision				4147, 5047, 3252, 3984,		4,563	6,463	2,880	38,501	8	0			6,457	NA	ffa7b029b61303	CreditDecisionAppl
	Branch	TD	Backing Bean	Mixed Payin _ U	TD002	٠	27-May-2015 10:46:53	881, 936, 2143, 2616, 6816	•	4,155	19,078	881	58,167	14	0			0,810	NA	9dfdeddo72dae	backing.MixedPayi
	Branch	PARTY	Spi	Add Or Update Party Financial Profile		٠	27-May-2015 11:39:21	6739, 2380, 1740, 758, 1	arun	3.993	11,972	758	35,938	9	0			11,972	NA	ffa7b029b81303	PartyFinancialProfi
	Branch	CASA	Backing Bean	Alternate Accounts Save _ UI	CASA037		27-May-2015 10:39:16	485, 2720	÷	1,593	2,720	405	3,185	2	0			2,720	NA	9dfdeddo72dae	AlternateAccounts
	Branch	ACCOUNT	Spi	Recommend Bundles	WL000		27-May-2015 11:38:01	424, 901, 399, 1103, 1927	arun	1,528	10,281	308	58,535	37	0			1,927	NA	9dfdeddc72dae	BundleRecommend
	Branch	CONTENT	Spi	Deliver And Save Documents	OR247		27-May-2015 10:38:39	1308, 1359, 1420, 1303,	asavant	1,515	2,339	1,303	10,602	7	2			2,339	NA	9d35854d4414a	OutboundDocumen
	Branch	ORIGINATION	Spi	Submit Create Offer	OR223		27-May-2015 10:40:22	1025, 1271, 1170, 1288,	asavant	1,382	2,008	972	9,637	7	0			2,008	NA	9d35654d4414a	LendingOfferApplic
•	Branch	ORIGINATION	Spi	Execute Policies And Create Linkages	•	٠	27-May-2015 11:39:40	1398, 1421, 1025, 748, 2	arun	1,352	2.320	748	10.817	8	0			2.320	NA	ffa7b029b81303	CreditDecisionAppl
	Branch	ORIGINATION	Spi	Construct Offer Document Linkage DTO	OR247	٠	27-May-2015 10:38:40	1010, 1070, 926, 886, 1294	asavant	1,002	1,294	828	7,015	7	0			1,294	NA	9d35554d4414a	LendingOfferApplic
	Branch	ORIGINATION	Spi	Inquire Detailed Application	OR223	٠	27-May-2015 10:39:26	383, 343, 333, 618, 3891	asavant	603	3.891	332	18,270	27	0			3.891	NA	9d35854d4414a	BaseApplicationSe
Log						-															

The table below explains each column of the table present in the given snapshot.

Sr. no.	Column Name	Description
1	Alert	Alert state of the transaction Valid Values: BLANK: No alert, Warning: Alert in past (default 5 minutes), Critical: Alerted Transaction
2	Channel	Channel through which the transaction occurred Valid Values: Branch, ATM, and POS.
3	Module	OBP module of which transaction is a part
4	Layer	Configured Noun generation layer. Backing Bean for UI and Spi and App Service for Host.
5	Transaction	Name of the transaction
6	Task Code	Task code of the OBP page by which the transaction was triggered
7	Trend	Trending of transaction Valid Values: Upwards, Downwards, Neutral
8	Alert Event Time	Time at which last alert occurred for the transaction
9	Trend Reference Queue	Execution time of last n transactions (n=5)
10	Last Alert User	Teller who performed the last alerted transaction
11	Average Time	Average execution time
12	Max Time	Maximum time of execution of the transaction

Sr. no.	Column Name	Description
13	Min Time	Minimum time of execution of the transaction
14	Total Time	Total time of execution
15	Success Count	Number of times transaction executed successfully
16	Failure Count	Number of times transaction failed.
17	Debit Amount	Amount debited after transaction
18	Credit Amount	Amount credited after transaction
19	Trend Reference	Execution time of last transaction
20	Nested Status	Nested Status
21	Alert ECID	ECID of the last alerted transaction
22	Service	Service name of the transaction
23	Completed Operations	Number of completed transactions
24	Active Threads	Active Threads
25	Max Active Threads	Maximum active threads
26	Host	Host name
27	Process	Process Name
28	Server Name	Server name
29	App Root Type	Root type of noun
30	Failure Security Event	Failure due to security error
31	2FA Event	Authentication error
32	Failure Database Event	Failure due to database error
33	Failure Technical Event	Failure due to technical error
34	Failure Outbound Event	Failure due to outbound call (call outside OBP)

One can select any of the task code which opens a popup with information about that task code only.

#### Figure 9–7 Select Task Code

IG PL	ATFORM	Posting Date	a ST-Aug	-2016									i	▼ ×	F4 74	<ul> <li>amrit</li> </ul>	•
	Account 👻	Back Office	, CA	SA 🗸 🤇	Collection 👻 C	redit Card 🔻	Insurance 👻 LCM	▼ Loa	י ד	Origination 🔻	Party	▼ Pa	ayment And Collection 👻	Term Deposi	t 🔻 Fas	t Path	
ŀ	OPA001 ×													_			
														×			
nito	or Applicati	ion Performanc	e	OR22	3												
																🚔 Print	🙁 Exit
				View 🔻	E 🗐 Det	ach											
				Channel	Module	Layer	Transaction	Average	Max	Min	Success	Failure	Trend Reference Queue				_
ert	Channel	Module	Laver	Branch	ORIGINATION	Spi	Submit Create Offer	1,362	2,006	972	7	0	1025, 1271, 1170, 1288, 2		in millisecor	nds	
CIL	Channer	Wodule	Layer	Branch	ORIGINATION	Spi	Inquire Detailed Application	603	3,891	332	27	0	383, 343, 333, 618, 3891	e Max	Min	Total	SI
2	Branch	ORIGINATION	Spi	Branch	ORIGINATION	Spi	Fetch Application	319	860	206	25	0	206. 375. 307. 320. 525	3,891	332	16,270	27 *
Δ	Branch	SMS	App Se				Approval Data							1,523	146	16,796	31
Δ	Branch	PRICING	Spi	Branch	ORIGINATION	Spi	Documents	148	701	39	27	0	63, 145, 169, 306, 701	893	140	1,033	2
4	Branch	ORIGINATION	Spi	Branch	ORIGINATION	Spi	Fetch Offer Expiry For Application	112	249	74	13	0	100, 96, 84, 81, 249	860	206	7,980	25
	Branch	WORKLIST	Spi	Branch	COMMON	Spi	Fetch State	45	256	23	137	0	157, 79, 243, 256, 106	711	59	7,974	3€
	Branch	WORKLIST	Spi	•							1			, 698	19	5,503	35
	Branch	ORIGINATION	Spi											562	51	1,215	8
7	Branch	ORIGINATION	Spi										OK Can	701	39	3,988	27
	Branch	ORIGINATION	Spi											587	64	1,175	8
4	Branch	ORIGINATION	Spi		Fetch Offer Expiry	For Application	OR223	27-1	1ay-2015	10:39:28 10	0, 96, 84, 8	1, 249	asavant 1	12 249	74	1,450	12 -

#### **Detailed Transaction View**

This section gives the detailed view of a selected transaction. The desired transaction can be selected from the table (metric table). Click on any row to display a detailed view of the transaction.

Figure 9–8 Selection of Desired Transaction

											🗎 Print	🙁 E
Inquire Detailed Application (Spi C	RIGINATION OR:	23)										
	erver Name	Trend	Trend Reference Queue	Last Alert User	Average	Max	Min	Active	Transac	tion Count		
		Trend		Last Alert User				Threads	Success	Failure		
	ost_Server	•	383, 343, 333, 618, 3891	asavant	603	3,891	332	0	27	0		
▲ Transaction Details					∡ Tra	nsaction Metr	ics					
(	hannel BRN				^			Average 60	3			í
Tas	k Code OR223							Max 3,8	91			- 1
	Service BaseApplic	ationServic	eSpi.inquireDetailedApplication	on				Min 33	2			- 1
Tran	saction Inquire Det	ailed Applic	ation					Success 27				
Alert and Trend Details					.∡ Fai	ure Events						
Last A	ert User asavant						Failure Secu	ity Event 0				í.
Alert Ev	ent Time 27-May-20	15 10:39:2	6				2	FA Event 0				- 1
Trend Defense	e Queue 383 343	222 640 2	904				Failure Databa	Europa A				- 1

Figure 9–9 Transaction Details

Transaction Details	
Channel	BRN
Task Code	OR223
Service	BaseApplicationServiceSpi.inquireDetailedApplication
Transaction	Inquire Detailed Application
App Root Type	Transaction
Host	ofss3121059.in.oracle.com
Server Name	Host_Server
Process	obphost_server1:8001

Figure 9–10 Transaction Metrics

Transaction Metrics	
Average	603
Max	× 3,891
Mir	n 332
Success	\$ 27
Success 27	
Failure 0	
Active Threads 0	
Max Active Threads 1	

Figure 9–11 Alert and Trend Details

▲ Alert and Trend Details	
Last Alert User	asavant
Alert Event Time	27-May-2015 10:39:26
Trend Reference Queue	383, 343, 333, 618, 3891
Alert ECID	9d35654d4414a931:-6e0ab1f:14d8b6681e1:-8000-00000000000d612

#### Figure 9–12 Failure Events

Failure Events		
Failure Security Event	0	0
2FA Event	0	D
Failure Database Event	0	0
Failure Technical Event	0	0
Failure Outbound Event	0	0

#### Configurations

The below mentioned configurations can be made in DMSConfig.properties:

- Channel Status: Number of alerts for which the channel shows 'Critical and 'Warning' status can be configured
- Alert Status: The time after which a 'Critical' alert changes to 'Warning' is configurable
- Initial Page Size: Every time host data is fetched only rows equal to page size are displayed. The
  page size is configurable

These configurations can be made in DMSConfig.properties.

## 9.2 Batch Performance Monitoring

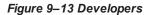
Most of the enterprise applications would require bulk processing of records to perform business operations in real time environments. These business operations include complex processing of large volumes of information that is most efficiently processed with minimal or no user interaction. Such operations would typically include time based events (for example, month-end calculations, notices or correspondence), periodic application of complex business rules processed repetitively across very large data sets (for example, rate adjustments). Batch monitoring includes monitoring of all such batch processes. These batch processes generate huge statistics, which needs to be monitored in order to understand and improve its performance. OPA003 page is used to monitor these processes in detail along various metrices like duration, throughput, aborts, and so on.

### 9.2.1 Use Cases

The overall use cases for the whole Batch monitoring operation are divided into two units on the basis of actor that works over batch monitoring operations. The different actors along with their use cases are as below:

#### Developers

These are the set of people who configure the monitoring services that are the part of OBP system. The configuration can be made in the properties file BatchStatistics.properties. Configuration include the number of previous batch runs to be considered for calculation for monitored metrics.





#### **IT Technical Staff**

This consists of set of people who monitor the Batch statistics generated during the batch run.

#### Figure 9–14 IT Technical Staff

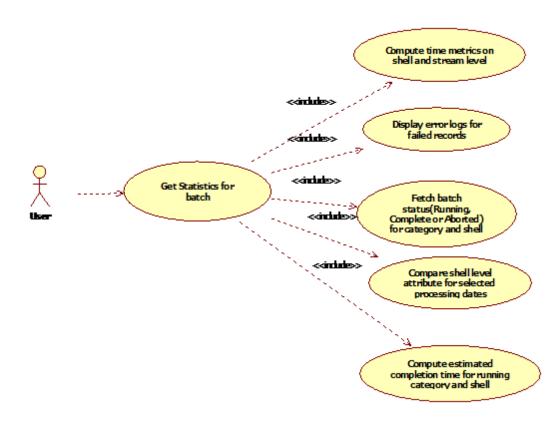


Figure 9–15 IT Technical Staff - Monitor Batch Stats



### 9.2.2 Monitoring Batch Performance Using OPA003 page

Once batch starts it needs UI representation to easily understand and interpret the batch stats. By monitoring these stats, one can understand the bottle necks of the batch process and hence can work in a way to improve batch performance.

#### 9.2.2.1 Monitor Batch Performance (Fast path: OPA003)

This page takes category, job code, job type, and processing date as input and provides monitoring stats for shells running for selected category.

Figure 9–16 Batch Performance Monitoring

OPA003 ×						
Monitor Batch Performan	ce				🚔 Print 🗸 O <u>K</u> 🤌 O	ljear 🖪 Exit
			R	efresh Time 01-Jun	-2015 10:06:48 AM GMT+0 Auto Refresh	5:30 🝓
s	elect Category Beginning of Day 🔻		Job Type	GROUP		
• Pr	ocessing Date 31-Mar-2017 📮 😱		Job Code	BRN_GRP_1		
				⊿ Adhoc Gene	Generate Document	View Document
A Batch Summary						
Category Name	BEGINING OF DAY	Start Time 29 May 2015 14:05:37		Wait Time	00:20:20	
Status	COMPLETE	End Time 29 May 2015 14:44:06		Execution Time	00:18:09	
# of Aborts	2			Time Taken	00:38:29	

Figure 9–17 Batch Performance Monitoring - Shell Details

a Sł	nell Details									ଜ
Cleai View	r All Filters									
		•								
	Name of Shell	State	Trend	Duration	No of Aborts	Throughput	Total Records	Status	Expected Completion Time	
Þ	DDA Standing Instruction BOD Shell	Complete	-	00:00:04		0	0			
Þ	DDA Sweepout Instruction BOD Shell Default L	Complete	-	00:00:00		0	0			
Þ	DDA Sweepout Instruction BOD Shell Non Defa	Complete	-	00:00:00		0	0			
►	Account Settlement Payout BOD Shell	Complete	4	00:00:00		0	0			
•	Split Loan Account Opening BOD Shell	Complete	4	00:00:20		7776	1			
Þ	Loan Action due BOD shell	Complete	4	00:28:35	1	1180	508			
Þ	Loan Post Action due BOD shell	Complete	-	00:00:02		0	0			
b.	CASA BOD Reports	Complete		00:00:00		0	0			

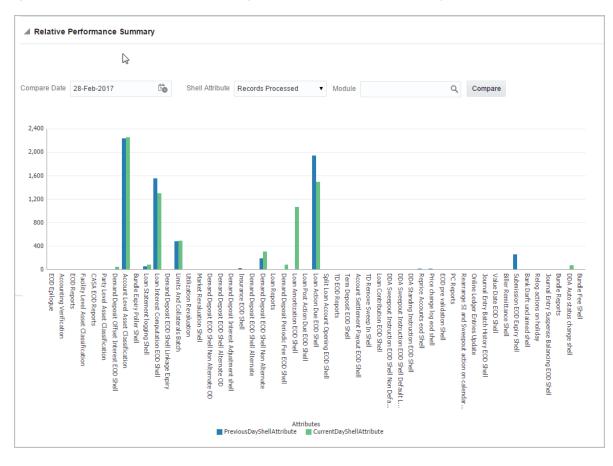


Figure 9–18 Batch Performance Monitoring - Relative Performance Summary

The batch statistics are monitored at different levels as follows:

- Category Level
- Shell Level
- Record level

#### **Category Details**

The parameter monitored at category level as given as below:

Attribute Name	Description
Category Name	Name of category for example, EOD (End Of Day)
Status	Indicates status of selected category. Valid Values: COMPLETE, RUNNING, ABORTED.
Start Time	Indicates start time of category. The time is represented in DD-MM-YYYY hh:mm:ss format.
End Time	Indicates end time of category. The time is represented in DD-MM-YYYY hh:mm:ss format.

#### Table 9–2 Category Details

Attribute Name	Description
Wait Time	It is the time for which category is in Aborted state. Wait time for category denotes the time for which batch was halted.
Execution Time	It the time for which category is in Running state.
Number Of Aborts	Indicates number of times category was aborted.
Total Time	It is the total time taken by category to complete. Time taken for category is summation of wait and execution time.
Estimated Completion Time	It is the predicted time for category completion. This time is calculated based on number of incomplete and pending shells for the current running category. The averaged value of previous run duration is considered for calculating estimated time. Similar calculation is done for estimating completion time for shell. This attribute is displayed only during batch run. It is not displayed once batch is complete
Time Status	The status of category (that is, delayed or early) denotes whether category is running slow or fast. This value is calculated based on average of historical data. This attribute is displayed only during batch run. It is not displayed once batch is complete

#### Shell Details

This level displays statistics of all shells corresponding to selected category. The parameters monitored at shell level are given below:

Attribute Name	Description
Name of shell	Represents name of shell
Trend	Valid Values: UPWARD, DOWNWARD, NEUTRAL. It denotes the trend based on historical data for time required by shells to complete.
Status	Valid Values: Complete, Running, Aborted, Not Started. Indicates status of shell
Duration	It is the time required by shell to complete.
Start Time	Indicates start time of shell. The time is represented in DD-MM-YYYY hh:mm:ss format.
End Time	Indicates the time at which shell is completed. The time is represented in DD-MM-YYYY hh:mm:ss format.
Wait Time	It is the time for which shell is in aborted state.
Expected Completion Time	Indicates the estimated time for a shell to complete.
Failed Records	Number of failed records for a shell
Records Processed	Number of records processed in a shell
Number of Streams	Number of streams denote number of processes running in parallel for a shell. On proper analysis of historical data of stream count, number of records and duration for particular shell one can optimize throughput for it.

#### Table 9–3 Shell Details

Attribute Name	Description
Throughput	It is the average processing time for one record. Throughput is denoted in millisecs.

#### Figure 9–19 Shell Details

	itor Batch Performance						읈 Print 🗸 이는 Clear	Exit
	Shell Details							69
clei	ar All Filters							
/iei	w 🔻 🗋 Export To Excel 📑	8	Detach					
		٠						
	Name of Shell	State	Tre Duration	No of Throughput Ab	Total Records	Status	Expected Completion Time	
Þ	Insurance BOD Shell		••• 00:00:00	0	0			Â
Þ	Value Date BOD Shell			0	0			
4	Untanking Adjustment Posting		<b>Ø</b> 00:00:20	29	4			
	Module Cod	AS					Wait Time Pending Time 00.00.00	
	Number of Stream	1				,	to of Aborts CommentCount 0	
	Start Tim	201	5-05-06 18:28:01			Records	Processed 4	
	End Tim	201	5-05-06 18:28:21			Fai	ed Records 0	
Þ	Limits Bod Batch		<b>8</b> 00:00:00	0	0			_

Figure 9–20 Shell Details - DDA Standing Instructions

⊿ DDA Standing Instruction BOD Shell Details		
Module Code DD	Wait Time	Pending Time 00:00:00
Number of Streams 1	No of Aborts	commentCount 0
Start Time 2015-05-06 18:28:45	Records Processed	
End Time 2015-05-06 18:28:45	Failed Records 0	
⊿ DDA Standing Instruction BOD Shell Notes		
+ Add New Note		
No items to display		
JDA Standing Instruction BOD Shell Stream Details		
Clear All Filters		
View 🔻 🗋 Export To Excel		

Note

Note the following:

Trend for a particular shell is decided based on comparison of time statistics (that is, current run time and historical data for previous batch runs). Number of previous batch run to be considered is configurable. It is configured in the property file that is, (BatchStatistics.properties). The trend and other estimated time seems more realistic if number of previous run days configured in property file are more.  Trend gives an idea whether a particular shell is running fast or slow compared to previous runs though it is important to consider number of records being processed in that shell.

The following figure shows the view displayed during batch run. Few extra parameters like estimated completion time for shell and category are monitored during batch run.



	hell Details										<u>6</u>
Clea View	r All Filters / 👻 📓 Export To Excel 🔤 🔐 Detach										
		•									
	Name of Shell	State	Trend	Duration	No of Aborts	Throughput	Total Records	Status		Expected Completion Time	_
+	DDA Standing Instruction BOD Shell	Complete	-	00:00:03		0	0	0%	100%		^
•	DDA Sweepout Instruction BOD Shell Default L	Complete	-	00:00:00		0	0	0%	100%		
×	DDA Sweepout Instruction BOD Shell Non Defa	Complete	-	00:00:00		0	0	0%	100%		
÷	Account Settlement Payout BOD Shell	Complete	ą	00:00:21		238	1	0%	100%		
+	Split Loan Account Opening BOD Shell	Complete	٠	00:00:20		11,390	1	0%	100%		
÷	Loan Action due BOD shell	In Progress	Ş	00:17:02		1,280.85	859	0%	100%	02-Jun-2015 14:38:00	
+	Loan Post Action due BOD shell	Not Started	-	00:00:00		0	0	0%	100%		

#### **Comments Table**

Comments Table is rendered based on row click of shell details table.

- In case of batch abort, it is important to know the reason behind abort and how that is fixed. Comments table serves this purpose as one can log the details regarding fix and reason behind shell abort. Multiple comments can be captured for particular shell.
- Also one can query historical data for comments. The historical data of comments can be used to analyse the reason behind failure of particular shell.

#### Stream Details Table

Stream Details table is rendered based on row click of shell details table.

Table 9–4 Stream Detai
------------------------

Attribute Name	Description
Stream Number	Indicates the number of a stream in which the record is being processed
First Row	Indicates the start sequence number of a record, processing in a particular stream.
Last Row	Indicates the end sequence number of a record, processing in a particular stream.
Duration	It is the time required for stream to complete.
Status	Valid Values: COMPLETED, RUNNING. It indicates the status of selected stream
Processed Count	Number of records processed in a stream
Server Name	Name of a server running the stream

#### Figure 9–22 Stream Based Shells

🚽 Loan Acti	ion due BOD shell I	Notes								
+ Add New No	ote									
	Cr		m (USER) on 27/05	/2015 at 14:38:45					Subject patch applied	
			applied							
	C	comment								
	Interna	I to Bank 🗸								
Reply 0		Stage 2								
керіу 🕨 и	1									
🔺 Loan Acti	ion due BOD shell \$	Stream Details								
		Stream Details								
Clear All Filters	s									
Clear All Filters	s	Stream Details								
Clear All Filters	s									
Clear All Filters	s B Export To Excel			Duration	Status	Processed Count	Failed Count	Server Name		
Clear All Filters View 🔻 😰	s B Export To Excel	🚰 📄 Detach		Duration 1,681	Status COMPLETED	Processed Count 1,266	Failed Count	Server Name obphost_server1		
Clear All Filters View 🔻 😰 Stream Number	s g Export To Excel r First Row	P Detach	Current Row							
Clear All Filters View V 😨 Stream Number	s g Export To Excel r First Row	Last Row	Current Row		COMPLETED					
Clear All Filters View V 😨 Stream Number	s g Export To Excel g r First Row 1	Last Row	Current Row							
Clear All Filters View V 😨 Stream Number	s g Export To Excel g r First Row 1	Last Row	Current Row		COMPLETED					
Clear All Filters View View View Stream Number	s g Export To Excel r First Row 1 ion due BOD shell I	Last Row	Current Row	1,681	COMPLETED					
Clear All Filters	s b Export To Excel r First Row 1 1 1 1 1 1 1 1 1 1 1 1 1	Last Row 1,269	Current Row 1270	1,681	COMPLETED	1,266	0			
Clear All Filters View V R Stream Number 1 Loan Action FrorCode	a Export To Excel	Last Row 1.269	Current Row 1270 BranchGroupCo	1,681	COMPLETED	1,266 SummaryText	0			

Note

Shells are categorized into two types that is, Stream based shells and Report based shells. Figure 9–22 displays the view for stream based shells.

#### **Exception Log**

On row click of the driver level details, it pops up a window showing the stack trace of failed records if present. One can analyse and know the reason behind the failure of that particular record.

#### Figure 9–23 Exception Log

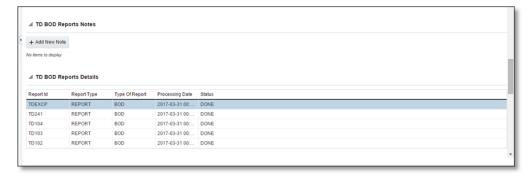
IKING PLATFORM																
	Account 🔻	Back Office 🔻	CASA 🔻	Collection <b>v</b>	Credit Card 🔻	Insurance 🔻	LCM V	Loan 🔻	Origination <b>v</b>	Party 🔻	Payment And Coll	ection v	Term Deposit	▼ Fa	ist Path	
OPA003 ×																
Ionitor Batch Performance																
													🚔 Print	✓ 0 <u>k</u>	🤣 C <u>l</u> ear	😆 Exi
fss.fc.framework.batch.exception.Batc fss.fc.framework.exception.BusinessE fss.fc.domain.accounting.da.entity.trar fss.fc.domain.accounting.da.entity.trar	hActionProcessing exception: The ledge sactionentry Accounts actionentry Accounts	Exception: Excepti er was not found fo intingTransaction( intingTransaction)	ion occured w or the account ContainerFact ContainerFact	by: java.lang.refler hile executing Act role LN_INSURA pry.fetchDerivedC pry.updateAccourt	ct.InvocationTargett tion(s). at com.ofss. NCE_PAYABLE an 3LForAliasOrFactBa ntingEntryBasedOn	Exception at com.o fc.domain.account nd LPLUN. at ased(AccountingTr DerivedOrModule)	fss.fc.framew .service.actio ansactionCo Supplied(Acc	ork.batch.pro n.executor.A ntainerFactor ountingTrans	ocess.BatchProces ctionSetProcessor ry.java:618) at sactionContainerF	s.execute(Ba processActio	chProcess.java:918 1Set(ActionSetProce	6 moreC			er.java:49) a	
ofis 6: Emervorit-batch av-caption Batc 56: 6: Cramerovic-batch av-caption Batc 56: 8: Cramerovic-batch 56: 8: Cramerovic-batch 56: 8: Crameria accounting da entity far 56: 8: Crameria accounting da entity far 57: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8:	hAction Processings ixception: The ledge isactionentry Accouns isactionentry Accounce isactionentry Accounce isact	Exception: Exception rr was not found for inting Transaction C inting Transaction C inting Transaction C Fetcher generate/ tion Service raise/ rvice raise/ counter and Raise/ counter and Raise/ counter and Raise/ counter and Raise/ counter and Raise/ counter and Raise/ rvice raise/ counter and Raise/ rvice	ion occured w or the account ContainerFact ContainerFact AccountingCo AndProcessAc ntingEvent(Lo untingForNeu suranceAmou nActionExecu	by: java.lang.reflet hile executing Acc role LN_INSURA ony, fetchDerivedG ony.updateAccount ony.createInstancountainerFromTemp coounting EventInE anAccounting Sen (Premium(Loanlin intOnReviewDate tor java.228) at co	ct.InvocationTargetE tion(s). at com.ofss.: NICE_PAYABLE an 3LForAliasOrFactBa thingEntryBasedOn olate(AccountingCent Jate/Mode(AccountingTent Jate/Mode(AccountingTent Jate/Mode(AccountingTent Jate/Ande(AccountingCent Jate/Ande(AccountingCent Jate/Ande(AccountingCent Jate/Ande(AccountingCent Jate/Ande(AccountingCent Jate/Ande(AccountingCent Jate/Ande(AccountingCent Jate/Ande(AccountingCent Jate/Ande(AccountingCent Jate/Ande(AccountingCent Jate/Ande(AccountingCent Jate/Ande(AccountingCent Jate/Accounti	Exception at com.o fc.domain.account rd LPLUN. at ased(AccountingTr DerivedOrModule: tainer(AccountingT mplateFetcher.java tingEventApplicati m.ofss.fc.app.loan .java:4043) at com olication.java:4341	fss.fc.framew service.action Supplied(Acc ransactionCo 1:34) at com.co onService.jav insurance.Lo .ofss.fc.app.li ) at com.ofss	ork.batch.pro n.executor.Av ntainerFactor countingTrans ontainerFacto rss.fc.domain ra:1709) at co anInsurance pan.insurance	ctionSetProcess ctionSetProcessor ry. java:618) at sactionContainerF ry. java:222) at n. accounting. da.se m. ofss.fc.app.ada Application.raiseA e. LoanInsuranceA e. count.CCIRevie	s.execute(Ba processActio actory.java:44 rvice.Accoun pter.impl.loar ccounting(Lo pplication.up vApplication.up	chProcess.java:918 1Set(ActionSetProce 9) at ingEventService.pro LoanAccountingAdi anInsuranceApplicat lateInsuranceBalani rocess(CCIReview/	6 moreC ssor.java:1 cessAccour pter.raiseA on.java:91 esAndRais	aused by: 91) 7 moreCar ntingEvent(Acco ccountingEvent 9) at eAccounting(Lo	used by: untingEve LoanAcc	ntService.ja puntingAdap	va:560) a ter.java:6

**Reports Table** 

For Report based shells different parameters related to report processing are monitored. The monitored parameters are given below:

Attribute Name	Description
Report Id	ID to uniquely identify report
Report Type	Report
Type Of Report	Indicates type of reports. Reports are classified based on category.
Processing Date	Indicates processing date of report.
Status	Indicates the status of the report. Valid Values: DONE, PENDING, RUNNING, ABORTED.
Error Message	Error message represents the reason for report failure. No message is displayed in case of successful run.

#### Figure 9–24 Report Based Shells



The status of report based shell during batch run is shown in Figure 9-25:

Figure 9–25 Status of Report Based Shell

													-
Monitor Batch	Performance												
										🖨 Print	V 08	🤣 Cjear 🛛	8
						176	100						
BOD Rep	ports	Comp	slete Trend 00	00:00	· ·	0%	100						
> BOD Epi	loque	In Pr	ogress Trend 00	00-09									
4												_	ł
BOD Epilo	gue Shell Details												
	N	Iodule Code EO					Wait Time		Pending Time -				
	Number	of Streams -					No of Aborts		commentCount 0				
		Start Time 2015-0	6-02 14:38:10				Records Processed						
		End Time					Failed Records						
BOD Epilo	gue Shell Notes												
+ Add New No													
io items to atsplay	Y												
Report Id	Report Type	Type Of Report	Processing Date										_
CADVICE	REPORT	BOD	2017-04-15 00:	FAILED									
DEXCP 0241	REPORT	BOD BOD	2017-04-15 00:										
0241 0104	REPORT	800	2017-04-15 00:	FAILED									
D103	REPORT	BOD	2017-04-15 00:	FAILED									
D102	REPORT	BOD	2017-04-15 00:										
NS08	REPORT	BOD	2017-04-15 00:	FAILED									
4 BOD E 1	Error Day							R					
M BOD Epilo	gue Error Desc							63					
	CI Datab												-
View •	Detach												
ErrorCode	ProcessResult	BranchCode	BranchGroupCod		ErrorDesc	SummaryText	_						
4	4	1010	BRN_GRP_1	1	javax.xml.ws.soap.SOAPFaultE								
4	4	1010	BRN_GRP_1	1	javax.xml.ws.soap.SOAPFaultE								
-	4	1010	BRN_GRP_1 BRN_GRP_1	1	javax.xml.ws.soap.SOAPFaultE								
-	4	1010	BRN_GRP_1 BRN_GRP_1	1	javax.xm.ws.soap.SCAPFaultE								
		1010	DRV[ORP_1	1.1	javax.xiiix.ws.508p.SUAPFBUEE	10104							

#### **Exception Report**

On click of Generate Document, it generates a report for aborted shells with information like Abort count and exception log.

Figure 9–26 Exception Report

OPA003 x				
Monitor Batch Performance	1 Information ×			
Monitor Batch Performance	Documents generated successfully.		😫 Print 🗸 O <u>k</u> 🧳 Clear	Exit
		F	Refresh Time 01-Jun-2015 10:06:48 AM GMT+05:30	R 🕯
			Auto Refresh	•
Select Category Beginning of Da	iy 🔻	Job Type	GROUP Q	
Processing Date 31-Mar-2017	<b>0</b>	Job Code	BRN_GRP_1 Q	
			⊿ Adhoc Generate and View	
			Generate Document	ument
✓ Batch Summary				
Category Name BEGINING OF DAY	Start Time	29 May 2015 14:05:37	Wait Time 00:20:20	
Status COMPLETE	End Time	29 May 2015 14:44:06	Execution Time 00:18:09	
# of Aborts 2			Time Taken 00:38:29	

The different parameter monitored at shell level and exception logs for all aborted shells are part of exception report. Figure 9–27 displays sample report for a particular shell.

#### Figure 9–27 Sample Report

			BATCH EXC	CEPTION REPORT	Jah Tura - CROUT
ank :10 EMERALD_BU					Job Type : GROUF
ranch : 1010					Job Code: BRN_GRP_
νρ. ID :					Report Date : 15-04-201
BOD Epilogue					
Start Time :	2-Jun-2015 9:	08 AM	End Time :	2-Jun-2015 9:13 AM	
<b>Records Skipped :</b>			Duration :	00:05:18	
Number of Aborts :	1		Wait Time :	00:05:08	
Abort Time	Res	tart Time	÷	Abort Duration	
Abort Time 2-Jun-2015 9:08 AM				Abort Duration 00:05:08	
2-Jun-2015 9:08 AM Exception Summary	2-Jun-2	tart Time 015 9:13 AM			Error Description
2-Jun-2015 9:08 AM		tart Time	Error Code Time Of Last Upp javax.xml.ws.soa oracle.xdo.webse	00:05:08 date : 2015-06-02 14:38:11.411 p.SOAPFaultException: ervice.exception.AccessDeniedException:	Error Description javax.xml.ws.soap.SOAPFaultException: oracle.xdo.webservice.exception.AccessDeni edException: java.lang.SecurityException:
2-Jun-2015 9:08 AM Exception Summary Report Name Maturities Due Report	2-Jun-2 Report ID TD102	tart Time 015 9:13 AM Module Code TD	Error Code Time Of Last Up javax.xml.vs.soa oracle.xdo.webs java.lang.Securit invalid username	00:05:08 date : 2015-06-02 14:38:11.411 p.SOAPFaultException: ervice.exception.AccessDeniedException: yException: Failed to log into BI Publisher: or password.	javax.xml.ws.soap.SOAPFaultException: oracle.xdo.webservice.exception.AccessDeni edException: java.lang.SecurityException: Failed to log into BI Publisher: invalid username or password.
2-Jun-2015 9:08 AM Exception Summary Report Name	2-Jun-2	tart Time 1015 9:13 AM Module Code	Error Code Time Of Last Up javax.xml.vs.soa java.lang.Securit invaild username Time Of Last Up javax.xml.vs.soa oracle.xdo.webs; java.lang.Securit invaild username	00:05:08 date : 2015-06-02 14:38:11.411 p.SOAPFaultException: ervice.exception.AccessDeniedException: yexception: Failed to log into BI Publisher: or password. date : 2015-06-02 14:38:11.374 p.SOAPFaultException: ervice.exception.AccessDeniedException: yexception: Failed to log into BI Publisher:	javax.xml.ws.soap.SOAPFaultException: oracle.xdo.webservice.exception.AccessDeni edException: java.lang.SecurityException: Failed to log into BI Publisher: invalid

#### Exception Log Table

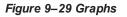
The figure below provides the details of the exception log.

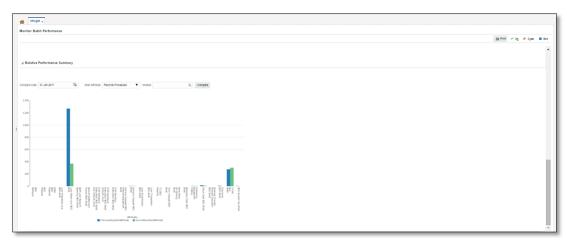
#### Figure 9–28 Exception Log Table

ERROR CODE	ERROR DESCRIPTION	SUMMARY
kException: An error occurred in batch process.862-8203-0444- 6360		
Time Of Last Update : 2013-09-11 11:28:51 438 Error reference Number :802-8182-2552-7227 Error msg : An error occurred in batch process. Error cause :com.ofss.fc.framework.batc h.exception. BatchFramewor KException: An error occurred in batch process.862-8182-2552- 7227	com ofss.fc.framework.batch.exception.BatchFrameworkException: An error occurred in batch process. at com ofss.fc.framework.batch.process.BatchProcess.execute(BatchProcess.java:910) at com ofss.fc.framework.batch.process.RecoverableBatchProcess.executeBatch(RecoverableB atchProcess.java:432) at com ofss.fc.framework.batch.process.RecoverableBatchProcess.processBatch(RecoverableB atchProcess.java:	
Time Of Last Update : 2013-09-11 11:28:53.868 Error reference Number :862-8206-5767-2044Error msg :An error occurred in batch process.Error cause :com.ofss fc.framework.batc h.exception: An error occurred in batch process.862-8206-5767- 2044	com.ofss.fc.framework.batch.exception.BatchFrameworkException: An error occurred in batch process. at com.ofss.fc.framework.batch.process.BatchProcess.execute(BatchProcess.java:910) at com.ofss.fc.framework.batch.process.RecoverableBatchProcess.executeBatch(RecoverableB atchProcess.java:422) at com.ofss.fc.framework.batch.process.RecoverableBatchProcess.processBatch(RecoverableB atchProcess.java:	

### 9.2.3 Histogram of Shell Attribute Comparison

This section provides graphical view for comparing shell attributes for any two selected dates. The processing date, shell attribute and module name are taken as input to this table. The output is displayed as bar graph in which X axis represents the name of the shell and Y axis denotes value of shell attribute. For each shell two records are displayed, these records corresponds to the dates for which the data is being compared.





## 9.3 ODI Batch Handoff Monitoring

This section provides, top package level execution details for monitoring of ODI handoff. The input for these details are category ID, branch group code, branch group type, and processing date.

Figure 9–30 describes the input parameters for the batch handoff monitoring and the shell details like name of shell, start time, end time, number of aborts.

Figure 9–30 Input Parameters for Batch Handoff

	tor Batch Performa	ance												
										Ē	Print 🗸	0 <u>k</u> 🤣	Clear	× E
								P	ofroch Timo	02 Jun 20	15 11:12:34	AM OMT.	05-20	ଜ
								R.	enesii time	03-5011-20				
			_	_								Auto Refresh	Off	<b>`</b>
		Select Category	Analytics Batch Di	-				Job Type	GROUP					
		Processing Date	15-Dec-2016	<b>1</b>				Job Code	BRN_GRF	_1 Q				
									Adho	c Genera	te and Viev	w		
											Generate	Document		
													Doc	ument
⊿ B	atch Summary													
	Category Nam	e Analytics Batch	h Data Hand-off		Start Time	28 May 2015 16:1	1:19		W	ait Time 🛛 🕻	2:29:36			
	Statu	IS ABORTED			Estimated Completion Time	03 Jun 2015 11:27	7:34 *		Elapse	ed Time 1	139:01:15			
	Statu # of Abort	ABORTED			Time	03 Jun 2015 11:27 DELAYED BY 835			Elapse	ed Time 1	139:01:15			
	# of Abort	ABORTED			Time				Elapse	ed Time 1	139:01:15			
		ABORTED			Time				Elapse	ed Time 1	139:01:15			জি
3	# of Abort	ABORTED			Time				Elaps	ed Time 1	139:01:15			ଜ
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Clea	# of Abort hell Details r All Filters v	Excel	Detach		Time Status	DELAYED BY 835	56 mins		E			e		दि

#### **Execution Unit**

On click of the analytics data Handoff shell, the below table is shown with the execution unit (top level package) level details:

This table contains the following attributes:

- Execution unit name
- Start time of execution of the execution unit
- End time of execution of the execution unit
- Number of aborts of the execution unit
- Duration of execution of the execution unit
- Service provider for ETL process (ODI)
- Execution status of the execution unit, that is, complete, running, and aborted
- Records processed at the stage level in ETL process

#### Figure 9–31 Execution Unit

-	Off Details							
Module Code	DI	Wa	it Time -			Pending Time -		
Number of Streams		No of	Aborts		commentCount 0			
Start Time	2015-05-28 16:11:19	Records Pro	cessed -					
End Time	2015-05-28 16:12:26	Failed R	ecords -					
Analytics Data Hand-C	Off Notes							
Add New Note								
- Add New Note								
			No Of					
	Start Time	End Time	No Of Aborts	Duration	Service Provider	Execution Status	Records Processed	
ecution Unit				Duration 00:01:07	Service Provider ODI_SERVICE_PROVIDER	Execution Status	Records Processed	
ecution Unit (G_LN_CONTRACT_INTER	FACES 28-May-2015 16:12:	27 28-May-2015 16:13:34	Aborts				Records Processed	
ecution Unit G_LN_CONTRACT_INTER G_ACCOUNT_RATE_TIER	FACES 28-May-2015 16:12: S 28-May-2015 16:12:	27 28-May-2015 16:13:34 26 28-May-2015 16:12:41	Aborts 0	00:01:07	ODI_SERVICE_PROVIDER	С	Records Processed	
ecution Unit KG_LN_CONTRACT_INTERI KG_ACCOUNT_RATE_TIER KG_AS_ACCOUNT_ENTRY	FACES 28-May-2015 16:12: S 28-May-2015 16:12:	27         28-May-2015 16:13:34           26         28-May-2015 16:12:41           26         28-May-2015 18:05:03	Aborts 0 0	00:01:07 00:00:15	ODI_SERVICE_PROVIDER ODI_SERVICE_PROVIDER	C C	Records Processed	
ecution Unit G_LN_CONTRACT_INTERI G_ACCOUNT_RATE_TIER G_AS_ACCOUNT_ENTRY G_TD_INTERFACES	FACES 28-May-2015 16:12: IS 28-May-2015 16:12: 28-May-2015 16:12:	28-May-2015 16:13:34           26         28-May-2015 16:12:41           26         28-May-2015 18:05:03           23         28-May-2015 18:34:17	Aborts 0 0 1	00:01:07 00:00:15 01:52:37	ODI_SERVICE_PROVIDER ODI_SERVICE_PROVIDER ODI_SERVICE_PROVIDER	C C C	Records Processed	
ecution Unit G_LN_CONTRACT_INTERR IG_ACCOUNT_RATE_TIER IG_AS_ACCOUNT_ENTRY IG_TD_INTERFACES IG_PM_INTERFACES	FACES 28-May-2015 16:12: IS 28-May-2015 16:12: 28-May-2015 16:12: 28-May-2015 16:12: 28-May-2015 16:12: 28-May-2015 16:12:	27         28-May-2015 16:13:34           26         28-May-2015 16:12:41           26         28-May-2015 18:05:03           23         28-May-2015 18:34:17           13         28-May-2015 16:12:32	Aborts 0 0 1 1 1	00:01:07 00:00:15 01:52:37 02:21:54	ODI_SERVICE_PROVIDER ODI_SERVICE_PROVIDER ODI_SERVICE_PROVIDER ODI_SERVICE_PROVIDER	C C C C	Records Processed	
ecution Unit IG_LN_CONTRACT_INTERR IG_ASCOUNT_RATE_TIERR IG_TD_INTERFACES IG_PM_INTERFACES IG_PARTY_FIN_INTERFAC	FACES 28-May-2015 16:12: IS 28-May-2015 16:12: 28-May-2015 16:12: 28-May-2015 16:12: 28-May-2015 16:12: 28-May-2015 16:12:	28-May-2015 16:13:34           26         28-May-2015 16:12:41           26         28-May-2015 16:12:41           26         28-May-2015 18:05:03           23         28-May-2015 18:34:17           13         28-May-2015 16:12:32           58         28-May-2015 16:12:27	Aborts 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00:01:07 00:00:15 01:52:37 02:21:54 00:00:19	ODI_SERVICE_PROVIDER ODI_SERVICE_PROVIDER ODI_SERVICE_PROVIDER ODI_SERVICE_PROVIDER ODI_SERVICE_PROVIDER	C C C C C C C	Records Processed	
acution Unit G_LN_CONTRACT_INTERI G_ACCOUNT_RATE_TIER G_AS_ACCOUNT_ENTRY KG_TD_INTERFACES G_PARTY_FIN_INTERFACES KG_PAINTYERFACES	FACES         28-May-2015 16:12:           IS         28-May-2015 16:12:           28-May-2015 16:12:         28-May-2015 16:12:           28-May-2015 16:12:         28-May-2015 16:12:           28-May-2015 16:12:         28-May-2015 16:12:	27         28-May-2015 16:13:34           26         28-May-2015 16:12:41           26         28-May-2015 18:05:03           28         28-May-2015 18:05:03           23         28-May-2015 18:12:32           24         28-May-2015 16:12:32           28         28-May-2015 16:12:27           55         28-May-2015 16:12:38	Aborts           0           1           1           0           0	00:01:07           00:00:15           01:52:37           02:21:54           00:00:19           00:00:29	ODI_SERVICE_PROVIDER ODI_SERVICE_PROVIDER ODI_SERVICE_PROVIDER ODI_SERVICE_PROVIDER ODI_SERVICE_PROVIDER ODI_SERVICE_PROVIDER	C C C C C C C C C C C C C C C C C C C	Records Processed	
Add New Note xecution Unit KG_LN_CONTRACT_INTERI KG_ACCOUNT_RATE_TIER KG_AS_ACCOUNT_ENTRY KG_TD_INTERFACES KG_PARTY_FIN_INTERFACES KG_OR_INTERFACES KG_OR_INTERFACES	FACES 28-May-2015 16:12: IS 28-May-2015 16:12: 28-May-2015 16:12: 28-May-2015 16:12: 28-May-2015 16:11: 28-May-2015 16:11: 28-May-2015 16:11:	28-May-2015         16:13:34           28         28-May-2015         16:12:41           26         28-May-2015         18:05:03           23         28-May-2015         18:34:17           13         28-May-2015         18:12:32           28         28-May-2015         16:12:32           58         28-May-2015         16:12:27           58         28-May-2015         16:12:49           53         28-May-2015         16:12:49	Aborts           0           1           1           0           0           0           0           0           0           0           0           0           0	00:01:07           00:00:15           01:52:37           02:21:54           00:00:19           00:00:29           00:00:43	ODI_SERVICE_PROVIDER ODI_SERVICE_PROVIDER ODI_SERVICE_PROVIDER ODI_SERVICE_PROVIDER ODI_SERVICE_PROVIDER ODI_SERVICE_PROVIDER ODI_SERVICE_PROVIDER	C C C C C C C C C C C C C C C C C C C	Records Processed	

#### **Abort Statistics**

On click of aborted execution unit, the below table is shown with the abort details like run count, the actual error description, and summary of the exception containing the interface name for which the exception occurred.

Eiguro	0 22	Abort	Statistics
riyure	3-3Z	ADUIL	Statistics

								Print	🗸 O <u>K</u> 🤌 C <u>l</u> ea	ar 🖪 Ex
xecution Unit	Start Time	End Time	No Of Aborts	Duration	Service Provider	Execution Statu	Records Processed			
KG_TD_INTE	28-May-2015 1	28-May-2015 1	1	02:21:54	ODI_SERVICE	С				-
KG_PM_INTE	28-May-2015 1	28-May-2015 1	0	00:00:19	ODI_SERVICE	С				
KG_PARTY_F	28-May-2015 1	28-May-2015 1	0	00:00:29	ODI_SERVICE	С				
KG_PI_INTER	28-May-2015 1	28-May-2015 1	0	00:00:43	ODI_SERVICE	С				
KG_OR_INTE	28-May-2015 1	28-May-2015 1	0	00:00:56	ODI_SERVICE	С				
KG_MITIGAN	28-May-2015 1	28-May-2015 1	0	00:00:49	ODI_SERVICE	С				
KG_LN_INTE	28-May-2015 1	28-May-2015 1	0	00:00:49	ODI_SERVICE	С				
KG_GL_INTE	28-May-2015 1	28-May-2015 1	0	00:00:11	ODI_SERVICE	С				
KG_FACILITY	28-May-2015 1	28-May-2015 1	0	00:00:41	ODI_SERVICE	С				
KG_DDA_INT	28-May-2015 1	28-May-2015 1	1	01:54:50	ODI_SERVICE	с				

On click of the error description table, the error description message appears as shown in Figure 9–33:

RACLE Posting Date 21-Feb	-2017 Head Office, AUD, OFSSUser Last Logi	in 25-Jun-2014 09:0	4.21 AM	Busines	s Unit: OBP Business Unit 💌 🎆	? 1 0 0
ount * Back Office * CASA * Co	ollection * Credit Card * LCM * Loan *	Origination • Par	ty * Payment And Collection *	Term Deposit *	🏷 🕸 🕺 Fast Path 💼	
OFADO3 x						
Ionitor Batch Performance					i ∰ Print ✔(	Oğ 🛷 Clear 🗳
KG_OR_INTERFACES	24-Jun-2014 1 24-Jun-2014 1 1	00:00:04	ODI_SERVICE_PROVIDER	A		
KG_MITIGANT_INTERFACES	24-Jun-2014 1 24-Jun-2014 1 1	00:00:05	ODI_SERVICE_PROVIDER	A		
KG_LN_INTERFACES	24-Jun-2014 1 24-Jun-2014 1 1	00:00:05	ODI_SERVICE_PROVIDER	A		
KG_GL_INTERFACES	24-Jun-2014 1 24-Jun-2014 1 1	00:00:04	ODI_SERVICE_PROVIDER	A		
PKG_FACILITY_INTERFACES	24-Jun-2014 1 25-Jun-2014 0 2	13.43.42	ODI_SERVICE_PROVIDER	A		
PKG_DDA_INTERFACES	24-Jun-2014 1 25-Jun-2014 0 2	13.43.39	ODL_SERVICE_PROVIDER	A		
KG_CUST_INTERFACES	24-Jun-2014 1 24-Jun-2014 1 1	00.00.15	ODI_SERVICE_PROVIDER	A		
	at		R. Check Operator logs 11.0 for further details. OK. Cancel			
ErrorCode ProcessResult B	89999 BRN_GRP_1 0 Fa	Int.STG_TD_MASTE	IR. Check Operator logs 1.0 for further details. OK. Cancel	tail for int	erface	
ErrorCode ProcessResult B	89999 BRN_GRP_1 0 Fa	Int.STG_TD_MASTE	IR. Check Operator logs 1.0 for further details. OK. Cancel	etail for int	erface	
ErrorCode ProcessResult B	89999 BRN_GRP_1 0 Fa	Int.STG_TD_MASTE	IR. Check Operator logs 1.0 for further details. OK. Cancel	etail for int	erface	
ErrorCode Processitesuit B	89999 BRN_GRP_1 0 Fa	Int.STG_TD_MASTE	IR. Check Operator logs 1.0 for further details. OK. Cancel	etail for int	erface	
ErrorCode Processitesuit B	89999 BRN_GRP_1 0 Fa	Int.STG_TD_MASTE	IR. Check Operator logs 1.0 for further details. OK. Cancel	etail for int	erface	
ErrorCode Processificant B 2 2 0	890990 BRN_GRP_1 0 7 at	Int.STG_TD_MASTE	R. Check Operator logs 1.0 for further details. OK Center Error de	etail for int	erface	
ErrorCode Processificant B 2 2 0	890990 BRN_GRP_1 0 7 at	Int.STG_TD_MASTE	IR. Check Operator logs 1.0 for further details. OK. Cancel	etail for int	erface	
ErrorCode ProcessResult B	890990 BRN_GRP_1 0 7 at	Int.STG_TD_MASTE	R. Check Operator logs 1.0 for further details. OK Center Error de	etail for int	erface	

# 10 Application Monitoring Using OBP EM Plugin

This chapter provides an overview on the various monitoring operations performed as an administrator, using Oracle Banking Platform - Enterprise Manger (EM) Plugin.

## **10.1 Monitoring Application Using OBP EM Plugin**

Once DMS statistics are captured for a particular Channel and transactions involving in it, it requires a UI representation to understand the stats in a readable form so that one can analyse the behavior. The monitoring activities are mainly carried out by IT Technical staff.

### 10.1.1 Oracle Enterprise Manager (EM)

Oracle Enterprise Manager is the application where all the OBP monitoring data exists. It includes server and machines status and performance and also OBP monitoring statistics.

All the OBP servers are monitored by EM including Host, UI, SOA, and so on.

We have a view corresponding to every environment containing all the components of OBP which include outbound components.

Some notations in EM are provided below:

•	Indicates component is down
+	Indicates component is up and running
8	Indicates Alerts
۸	Indicates Warnings
le	Indicates metric collection error
*	Indicates healthy status

Table	10-1	Notations	in EM	1
1 and		11010110110		

The following figure shows the environment view in Oracle Enterprise Manager:

#### Figure 10–1 Oracle Enterprise Manager

Services											Auto Ret	resh Off	~	Page	Refres	hed Nov	1, 2017 5:04	31 PM IST 🏌
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View 👻 🎽 Create 👻 🗙 Remo	ve																	
Name	Туре	Service Level Agreement Status Availability Status			Incidents			System	Key Components					Key Tests				
				v 🛛		P	Performan Usage		age		Status	Incidents				Status	Monitorin	
					<u>۳</u>	•	3 🔺	. 1	8		•	Status	•	8	Δ	-	Status	Beacons
OBP_SMOKEPROD261_SOA_Service	Generic Service	+	Tests	-	-			-	-		/SMOKEPROD261_SOA_mum00aba_in_oracle_c /base_domain/soa_server1/soa-infra	n/a	0	0	0	0	<b>1</b>	1
OBP_SMOKEPROD261_HOST_Service	Generic Service	+	Tests	-	-			-	-		/SMOKEPROD261_HOST_ofss3121179_in_oracle /host_domain	n/a	0	0	0	0	<b>1</b> 1	1
OBP_SMOKEPROD261_Monitoring_Se	Generic Service	+	System	-	-			-	-		OBP_SMOKEPROD261_Monitoring_System	<b>1</b>	0	0	0	0	n/a	0
OBP_SMOKEPROD261_UI_Service	Generic Service	+	Tests	-	-			-	-		/SMOKEPROD261_UI_ofss310490_in_oracle_co /ui_domain	n/a	0	0	0	0	<b>1</b>	1
OBP_SMOKEPROD261_OID_Service	Generic Service	+	Tests	-				-	-		/SMOKEPROD261_OID_ofss3121155_in_oracle /IDMDomain	n/a	0	0	0	0	<b>1</b> 1	1
OBP_SMOKEPROD261_View	Aggregate Service	+	Sub	-	-			-	_		n/a	<b>\$</b> 5	0	0	0	0	n/a	0

The views in the above figure include OBP UI, Host, and SOA servers.

Security Stacks components such as OAAM, OID, OES, outbound components such as BIP, IPM, Documaker, ATM and POS channels are also part of the environment view.

Each component can be further explored for details by clicking on the links provided for them.

### 10.1.2 OBP UI

For OBP UI, all the managed servers created under Weblogic cluster can be monitored. EM provides the following information for OBP UI Cluster:

- Active Session about all Managed Servers
- CPU Usage
- Heap Usage
- Request Processing Time

#### Figure 10–2 OBP UI Cluster in EM

DRACLE' Enterprise Manager Cloud Control 13c	Enterprise V 🔘 Targets V 🛧 Eavorites V 🕒	Hist <u>o</u> ry▼ 🙀 Setup▼ 🔍 🌲 SYSMAN ▼ 🚥								
↑ obpui_cluster1		🚪 ofss310524.in.oracle.co								
📕 🖟 WebLogic Cluster 👻 🌗 Startup 📑 Shutdown 🌟 Create Blackout 🕓 End Blackout	Page Refreshed Nov 3, 2017 4:17:26 AM GMT 4									
erver Performance		<ul> <li>Metric Palette</li> </ul>								
Past 2 hours	Day 2 hours 15 minutes Slider	✓ Targets								
		View  View Search								
Chart Set Default View View View View	Hide Metric Palette	🖌 😓 obpui_cluster1								
	Availability	Clustered Application Deployment (2)								
02:20 AM 02:30 02:40 02:50 03:00 03:10 03:20 03:30 03:40 November 03, 2017	03:50 04:00 04:10	▶ 🖶 obpui_server1								
10	×	Related Targets								
e s	Coput server1:	🔺 Metrics 👢 obpui_server1								
1.5		View View Search								
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0.0		Connection Pool Metrics By Server								
4,000	×	Datasource Metrics								
<u>딸</u> 2,000	■ dbpui server1: Heap Usage (MB)	EJB Cache Metrics By Server								
0	03:50 04:00 04:10	EJB Pool Metrics By Server								
150	×	EJB Transaction Metrics By Server								
S 100	obpui_server1: Request Processing Time (ms)	JMS Destination Metrics     JMS Metrics								
		JMS Metrics								

OBP UI is hosted on WebLogic domain, so the EM target of UI machine is WebLogic domain. EM gives the following information for UI:

- Server Performance Statistics
- Up/Down Status
- List of deployed applications
- Incidents or Alerts; if any

The following figure displays the WebLogic domain for UI.

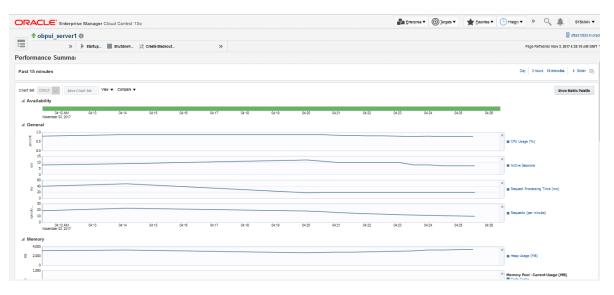
#### Figure 10–3 WebLogic Domain for UI

OR		e Ma	anager Cloud Control 13c	Interprise ▼ (◎) Intrgets ▼ ★ Envorites ▼ (○) History ▼ 40 Setup ▼ (<
	ui_domain 🚯			e ofs310624 in oracle com
t=	🐇 WebLogic Domain 👻	•	Startup Shutdown	Page Refreshed Nov 3, 2017 4:21:28 AM GNT 🕎
Sum	mary		General	
	Administration Server Administration Server 22, 2017 Lossis 24 MI GMT Lugit Lossis 24 MI GMT ers 2 Up	•	- Version Domain Home	tofs310524 in.oracle.com     tofs310524
Clust	ters 1 up	Þ	Incidents Descendant Target Incidents Configuration Changes Diagnostic Findin Support Workbench Problem	0 0 34 29 0
Deple	oyments V			

The performance metric includes metrics like CPU Utilization, Memory Utilization, Active Sessions and are default metrics provided by EM.

The following figure displays the metrics chart.

#### Figure 10–4 Metrics Chart

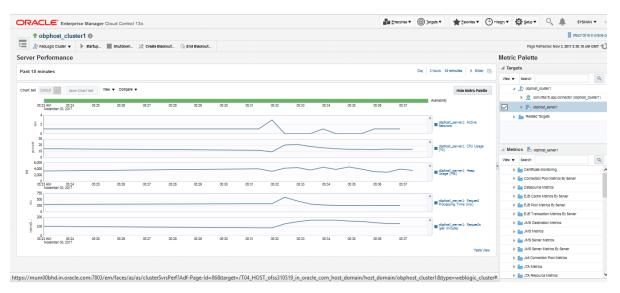


### 10.1.3 OBP Host

For OBP Host, all the managed servers created under Weblogic cluster can be monitored. EM provides the following information for OBP Host Cluster:

- Active Session about all Managed Servers
- CPU Usage
- Heap Usage
- Request Processing Time

#### Figure 10–5 OBP Host Cluster in EM



Similar to UI, OBP host is also deployed on WebLogic domain and has similiar metrics like UI. The following figure displays the OBP host target in EM.

Figure 10–6 OBP Host Target in EM

OR,	ACLE <sup>®</sup> Enterprise	e Manager Cloud Control 13c		Enterprise V	Targets V 🛉 Eavorites V	History V	Setu 🔍	SYSMAN V
_	host_domain 🚯							efss310519.in.oracle.co
t -	>>	Startup >>				0	Page Refreshed Nor	3, 2017 5:59:34 AM GMT 👈
Summ	nary	General						
	AdminServer Administration Server 2017 10:57:42 AM GMT ogic Domain Refreshed	Administration Server Host Listen Port	ofss310519 in.oracle.com 7001					
Serve	rs 2 Up	Version	7002 Nov 2, 2017 10:57:42 AM GMT 12.2.1.2.0 Arastchiappiproduct/fmwiuser_projecto/domains/host_domain					
Cluste		JRF Monitoring and Diagnostics						
Cluste	1 Up	Descendant Target Incidents     Configuration Changes	● 1 46					
Deploy	yments	Diagnostic Findings Support Workbench Problems						
	1 Down 8 Up	►						

The following figure displays the metric charts.

#### Figure 10–7 Metrics Chart

RACLE' Enterprise Manager Cloud Control 13c	🛃 Enterprise 🔻 🎯 Targets 🔻 🌟 Encrites 🔻 🕒 History 🔻 🏟 Setup 👻 🔍 🌲 SYSMAN
tobphost_server1 0	🔤 of66310515.in
🖳 WetLogio Server 🔻 🌗 Startup 📰 Shutdown 🔆 Create Blackout 🚱 End Blackout	Page Refreshed Nov 3, 2017 5:19:57 AM G
rformance Summary	
ast 2 hours	Day 2 hours 15 minutes > Silder (
art set Defluit was surv Churt set View V Corpae V A Availability	Show Metric Palette
a Avolaisening 0.022/AM 00.25 02.30 00.36 03.40 03.45 03.50 03.55 04.00 04.06 04.16 04.16 04.20 04.25 04.30 04.40 November 03.2017	04.45 04.50 04.58 06.00 05.06 06.10 05.15
/ General	
75 50 50 23	X BCPU Usege (%)
2	×
§ 1	Active Sessions
0	
E 200	Request Processing Time (ms)
0	
0.05	Requests (per minute)
0 020 AMI 0225 03:00 0236 03:40 03:45 03:50 03:55 04:00 04:05 04:10 04:15 04:20 04:25 04:30 04:36 04:40 November 03.2017	04:45 04:50 04:55 05:00 05:05 05:10 05:15
Memory	
6000	
1 400 200	Heap Usage (MB)
0	
://mum00bhd.in.oracle.com:7803/em/faces/as/as/serverPerf?Adf-Page-Id=838:target=/T04_HOST_ofss310519_in_oracle_com_host_domain/hos	domain (obshort convert 8/th/non-weblogic i2eeconver# Karbage Collector-Invocations (permin)

### 10.1.4 OBP SOA

In OBP, SOA server is deployed on WebLogic domain where the SOA processes are deployed.

The process list can be seen in the list of deployed applications. The other metrics remain same as for WebLogic domain in EM. The following figure displays the process list.

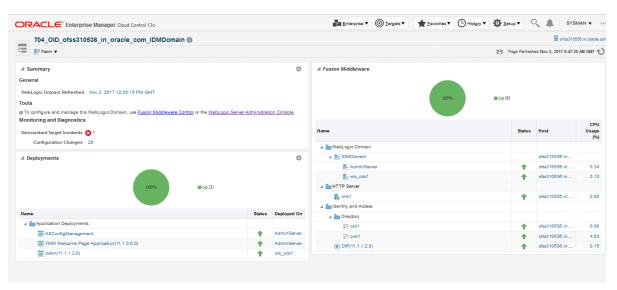
Figure 10–8 Viewing Process List

RACLE Enterprise Manager Cloud Control 13c	Enterprise V	<u> </u>	rgets 🔻	+ Eavorites	• 🕒	Hist <u>o</u> ry ▼	<b>Ø</b> <u>s</u>	tup 🔻 🔍		SYSMAN V
✿ soa-infra (soa_server1) ❻									📕 ofss	3121918.in.ora
🚼 SOA Infrastructure 🔻 🕨 Startup 🔄 Shutdown 🂢 Create Blackout 🖓 End Blackout						(		Page Refreshed I	Nov 3, 2017 6	8:05:10 AM GM
Deployed Composites Dehydration Store Performance Faults and Rejected Messages Error Hospital										
Composite Table of SOA Composite deployed on the SOA Infra. To trace a instance, select a Composite and dick 'Trace instance' urch ov Deployment Details Export Composite Export Composite									Com	posite Heat M
						SOA Com	ponent Ro	llup		
			Messages	-	-					Composite
Composite		Status	(per minute)	Errors (per minute)	Error Rate (%)	System Faults	Business Faults	Recoverable Faults	WS Policy Violations	Instances
Composite		Status		(per	Rate			Faults	Policy Violations	Instances
			minute)	(per minute)	Rate (%)	Faults	Faults 0	Faults 0	Policy Violations	Instances 0
k∰ default'oom ofs fc approval submissionfinancialspi_submitfinancialcapture (1.0)		1	minute)	(per minute) 0.00	Rate (%) 0.00	Faults 0	Faults 0	Faults 0 0	Policy Violations 0	Instances 0 0
4∰ default/com.ofssfc.approval.submissionfinancialspi_submitfinancialcapture [1.0] 4∰ default/com.ofssfc.approval.creditdecisionspi_waivecollateralvaluation [1.0]		1 1	0.00 0.00	(per minute) 0.00 0.00	Rate (%) 0.00 0.00	Faults 0	Faults 0 0	Faults 0 0 0	Policy Violations 0 0	Instances 0 0 0 0 0 0
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************************************		1 1 1 1	0.00 0.00 0.00 0.00	(per minute) 0.00 0.00 0.00	Rate (%) 0.00 0.00 0.00 0.00	Faults 0 0 0	Faults           0           0           0           0           0           0           0           0           0           0	Faults 0 0 0 0	Policy Violations 0 0 0 0 0	Instances 0 0 0 0 0 0 0 0 0 0 0 0
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### 10.1.5 OBP Security Stack (OID and OAM)

OID and OAM are also deployed as WebLogic domain.

#### Figure 10–9 OID WebLogic Domain



# 10.1.6 Document Generation Outbound Components (Documaker, BIP, IPM)

These are not part of OBP application, but we monitor these so as to detect the cause of failure in case the document generation fails at any point of time.

A webservice is invoked for generating the documents from OBP with BIP as well as documaker. From EM, we check whether that webservice is up and running or not, which gives the status of these components. The following figure displays the status from EM.

Figure 10–10 Document Generation Status

OBP_T12_BIP_Service	Generic Service	1
OBP_T12_Documaker_Service	Generic Service	1
OBP_T12_HOST_Service	Generic Service	1
OBP_T12_IPM_Service	Generic Service	1

BIP is also deployed on WebLogic domain.

#### Figure 10–11 BIP Deployment

	rise Manager Cloud Control 13c	Interprise	Hist <u>o</u> ry ▼	Ö <u>S</u> etup ▼ C	<b>L</b>	SYSP	MAN 🔻			
bi_domain 🚯					🗐 ofs	s31211	23.in.ora	acle.co		
WebLogic Domain	Startup     Shutdown	Page Refreshed Nov 3, 2017 12:51:56 PM GMT								
Summary	Deployments									
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Administration Server  Nov 3, 2017 12:47:00 PM GMT	er 🕨		Status	Deployed On		Incide	ents			
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2 up	adminservice(11.1.1)				0	0	0 0	)		
	▲ Adminservice(11.1.1)		1	bi_cluster	0	0	0 0	)		
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	🖌 🎆 analytics				0	0	0 0	)		
	A 👷 analytics		1	bi_cluster	0	0	0 0	)		
Clusters 1 up	analytics		1	bi_server1	0	0	0 0	)		
	asyncadminservice(11.1.1)				0	0	0 0	)		
	▲ A asyncadminservice(11.1.1)		1	bi_cluster	0	0	0 0	)		
	asyncadminservice(11.1.1)		+	bi_server1	0	0	0 0	)		
	🖌 🌺 bi-actions				0	0	0 0	)		
	A 👷 bi-actions		1	bi_cluster	0	0	0 0	)		
eployments	Join bi-actions		1	bi_server1	0	0	0 0	)		
44 up	∡ ﷺ biadminservlet(11.1.1)				0	0	0 0	)		
	▲ A biadminservlet(11.1.1)		+	bi_cluster	0	0	0 0	)		
								~		

### 10.1.7 ATM and POS (Point Of Sales) Channels

ATM and POS work on socket listener mechanism.

So, for them to be up and running the port on which they listen should be up. In EM, to monitor these channels, check if the port is listening.

The following figure displays the status from EM.

#### Figure 10–12 EM Monitoring



### 10.1.8 Outbound OFSAA call

OBP calls OFSAA for calculation of economic cost. This is done through a webservice.

To monitor this, check if the webservice is up and running.

#### Figure 10–13 Web Monitoring



### 10.1.9 OBP Monitoring Views

OBP monitoring views show the OBP batch and application performance statistics along with server performance history. It consists of Batch Monitoring and Application Monitoring tabs, which show detailed view of batch performance and application performance statistics along with the server performance statistics on which they are running.

#### 10.1.9.1 Batch Monitoring

Batch Monitoring shows detailed view for host and database server performance charts along with batch performance statistics of OBP.

The batch performance statistics are the details of the categories run in OBP. The date for which category details are shown is the last run date. The categories include EOD, CutOff, Internal System EOD and BOD.

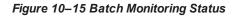
To get the details of a particular category, select it from the combo box. This will display the list of shells in the category in the table below. From the table, select the desired shell, the shell details provides the stream details of the selected shell.

BP_T04_VIEW								📃 mum00				
3P View 🔻							Page	Refreshed Nov 4, 2017 11:19				
Summary Status	Application Services User Interface Origination User Interface Integration Eatch Monitoring											
urrent Status T Up	shellName	duration	noOfAborts	throughput	totalRecords	processedCo	startTime	endTime				
Up Since Nov 2, 2017 6:37 pm IST vailability % 100.0%	ac_action_relog_sh	00:00:00	0	0	0	0	03-nov-2017 10:16	03-nov-2017 10:16				
wallability is 100.0 is	ac_bundle_exp_poller	00:00:00	0	0	0	0	03-nov-2017 16:47	03-nov-2017 16:47				
	ac_bundle_fee_shell	00:00:03	0	208	14	14	03-nov-2017 10:16	03-nov-2017 10:16				
	ac_stl_pyt_eod_shell	00:00:00	0	0	0	0	03-nov-2017 10:16	03-nov-2017 10:16				
	as_eod_check	00:00:00	0	0	0	0	03-nov-2017 16:47	03-nov-2017 16:47				
	dd_auto_statuschange	00:00:00	0	0	0	0	03-nov-2017 10:16	03-nov-2017 10:16				
	dd_eod_action1	00:00:15	9	78	193	193	03-nov-2017 16:45	03-nov-2017 16:45				
	dd_eod_action2	00:00:00	0	0	0	0	03-nov-2017 16:46	03-nov-2017 16:46				
	dd_eod_action3	00:00:00	0	0	0	0	03-nov-2017 16:46	03-nov-2017 16:46				
	dd_eod_action4	00:00:00	0	332	2	2	03-nov-2017 16:46	03-nov-2017 16:46				
	dd_eod_action5	00:00:00	0	0	0	0	03-nov-2017 16:47	03-nov-2017 16:47				
		00.00.00	-									
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Figure 10–14 Database Server Info

The streams can run in different servers. To get the details of the performance of the server in which the stream is executed, select the stream. The charts below gives the performance summary of the server in which the stream is executed and the database performance.

The following figure displays the status from EM.

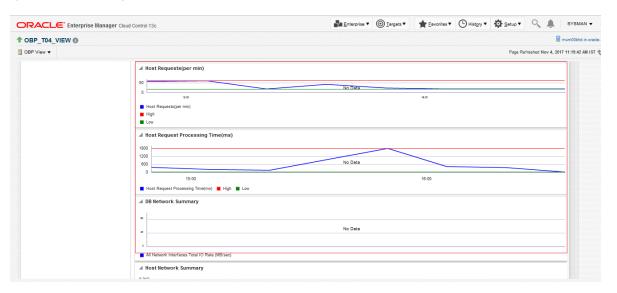


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P_T04_VIEW ()									📃 mum0
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	shellName	streamNumber	streamFirstRow	streamCurrentR	streamLastRow	duration	processedCount	serverName	dbinstanceName
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	c	n(%) <b>=</b> High <b>=</b> Low			No Data				
	c	n(%) 📕 High 📕 Low			No Data				
	e DB CPU Utilization	n(%) 📕 High 📕 Low			No Data				
	DB CPU Utilization	n(%) 📕 High 📕 Low			~		\$g		

#### Figure 10–16 Batch Configuration

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OBP View V				Page Re	freshed Nov 4, 20	017 11:19:42 AM IST ⋞
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						_
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	15:00	16:00				
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	Active Inreads High					
	Low					
	# DB ThroughPut					

Figure 10–17 WebLogic Service Info



### **10.1.9.2** Application Monitoring

Application Monitoring shows detailed view of UI and host clusters and servers.

There are four separate tabs, namely Application Services, User Interface, Origination User Interface, and Integration.

#### 10.1.9.2.1 Application Services

This section provides performance metrics for all application services executed on OBP Host Server. Metrics include timing, alert, trending information, and so on.

For cluster details, click the 'Show cluster details' link.

Click on CLUSTER to view application metrics for the servers present in the HOST cluster. User can export the application metric data by clicking the 'Export To Excel' button.

DRACLE' Enterprise Manager C	Cloud Control 13c						<u>E</u> nterpris	• •	argets 🔻	+ Eavorites	• 🕒 Hist	ory▼ ‡‡	<u>S</u> etup ▼	्र 🌲 🛛	SYSMAN V
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Figure 10–18 Application Metrics of Application Services for all servers in cluster

Expand 'CLUSTER' to get a list of all the servers.

Each server can be further selected to get the details at the server level. On clicking the server, the application metrics are displayed in the table as shown in the following figure.

Figure 10–19 Application Metrics of Application Services for selected server

RACLE' Enterprise Manager Clou	d Control 13c					4	<u>E</u> nterprise	• (0)	argets 🔻	* Eavorites	• 🕒 Hist	ery 🕶 🖸	<u>S</u> etup ▼	्र 🌲	SYSMAN ¥
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▲ Summary	Application Services	Jser Interface	Originatio	n User Interfac	e Integration	Batch Mo	onitoring								-
Status	Show Cluster Details														
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Up Since Nov 2, 2017 6:37 pm IST	V CLUSTER														
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The following table explains each column of the table present in the given snapshot:

Table 10–2 Details of the Application Metrics table of Application Services

Sr. No.	Column Name	Description
1	Name	Logical name of the application services

Sr. No.	Column Name	Description
2	Channel	Channel through which the transaction occurred Valid Values: Branch, ATM, and POS.
3	Task Code	Task code of the OBP page by which the transaction was triggered. OBP module of which transaction is a part
4	Average Time	Average execution time of the application service
5	Max Time	Maximum time of execution of the application service
6	Min Time	Minimum time of execution of the application service
7	Success Count	Number of times application service executed successfully
8	Alert	Alert state of the application service
9	Alert User	Teller who performed the last alerted transaction
10	Trend Reference Queue	Execution time of last n transactions (n=5)
11	Trend	Trending of transaction Valid Values: Upwards, Downwards, Neutral
12	Transaction Type	Maximum time of execution of the transaction
13	Server Name	Server name
14	Actual Service Name	Service name of the transaction

#### 10.1.9.2.2 User Interface

This section provides performance metrics for all major UI components executed on OBP UI Server. Metrics include timing, alert, trending information, and so on.

For cluster details, click the 'Show cluster details' link.

Click on CLUSTER to view application metrics for the servers present in the UI cluster. User can export the application metric data by clicking the 'Export To Excel' button.

Figure 10–20 Application Metric for all UI servers in cluster

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Expand 'CLUSTER' to get a list of all the servers. Each server can be further selected to get the details at the server level. On clicking the server, the application metrics are displayed in the table as shown in the following figure.

Figure 10–21 Application Metrics of UI components for selected server

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	Name CollateralCategoryPreferanceMnt.update	BRN L	CM07	15937	15937	15937	1	false	Alert	15937	Tren	Transacti	obpui_se	CollateralCate
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The following table explains each column of the table present in the given snapshot:

Table 10–3 Details of the Application Metrics table of UI Components

Sr. No.	Column Name	Description
1	Name	Logical name of the UI component
2	Channel	Channel through which the transaction occurred

Sr. No.	Column Name	Description
		Valid Values: Branch, ATM, and POS
3	Task Code	Task code of the OBP page by which the transaction was triggered. OBP module of which transaction is a part
4	Average Time	Average execution time of UI component
5	Max Time	Maximum time of execution of the UI component
6	Min Time	Minimum time of execution of the UI component
7	Success Count	Number of times UI component executed successfully
8	Alert	Alert state of the UI component
9	Alert User	Teller who performed the last alerted transaction
10	Trend Reference Queue	Execution time of last n transactions (n=5)
11	Trend	Trending of transaction Valid Values: Upwards, Downwards, Neutral
12	Transaction Type	Type of transaction
13	Server Name	UI Server name
14	Actual Service Name	Actual name of UI component

### 10.1.9.2.3 Origination User Interface

This section provides performance metrics for rendering all multistep train taskflows with OBP. The metrics capture the time taken for entering and exiting a particular step of the application form. If there are any host calls made to persist data before leaving a step or to fetch data from host server before entering a step, these metrics encapsulate those timings. Metrics include timing, alert, trending information, and so on.

For cluster details, click the 'Show cluster details' link.

Click on CLUSTER to view application metrics for the servers present in the UI cluster. User can export the application metric data by clicking the 'Export To Excel' button.

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Figure 10–22 Application Metrics of Origination UI Components for all UI servers in cluster

Expand 'CLUSTER' to get a list of all the servers. Each server can be further selected to get the details at the server level. On clicking the server, the application metrics are displayed in the table as shown in the following figure.

Figure 10–23 Application Metrics of Origination UI components for selected server

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	Name           Applicant StepExit           Basic BeforeStepEntry           Basic BeforeStepExit           FinancialProfileTrainFin           StructureSolution StepEs	BRN BRN BRN BRN BRN BRN	0R097 63 0R097 0 80	2057.54545 33 10 76	11118 3 633 0 800	28 3 633 0 800	11 1 1 1 1 1	false false false false false	AlertU	33, 69, 28, 3 633 0 800	DOWNWAR	Transaction Transaction Transaction Transaction Transaction	obpui_serw obpui_serw obpui_serw obpui_serw obpui_serw obpui_serw	ApplicantSt * BasicStepHi BasicStepHi FinancialPn StructureSo
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The following table explains each column of the table present in the given snapshot:

Table 10–4 Details of the Application Metrics table of Origination UI Components

Sr. No.	Column Name	Description
1	Name	Logical name of the multistep train taskflow component

Sr. No.	Column Name	Description
2	Channel	Channel through which the transaction occurred Valid Values: Branch, ATM, and POS.
3	Task Code	Task code of the OBP page by which the transaction was triggered. OBP module of which transaction is a part
4	Average Time	Average execution time
5	Max Time	Maximum time of execution of the multistep train taskflow component
6	Min Time	Minimum time of execution of the multistep train taskflow component
7	Success Count	Number of times multistep train taskflow component executed successfully
8	Alert	Alert state of the multistep train taskflow component
9	Alert User	Teller who performed the last alerted transaction
10	Trend Reference Queue	Execution time of last n transactions (n=5)
11	Trend	Trending of transaction Valid Values: Upwards, Downwards, Neutral
12	Transaction Type	Type of transaction
13	Server Name	UI Server name
14	Actual Service Name	Actual name of multistep train taskflow component

#### 10.1.9.2.4 Integration

This section provides performance metric for all outbound services called from OBP Host Server. Metrics include timing, alert, trending information, and so on.

For cluster details, click the 'Show cluster details' link.

Click on CLUSTER to view application metrics for the servers present in the HOST cluster. User can export the application metric data by clicking the 'Export To Excel' button.

Figure 10–24 Application Metrics of all outbound services called from all host servers in cluster

DRACLE' Enterprise Manager Clou	ud Control 13c					Enterprise	• <u>•</u>	rgets ▼	🚖 <u>F</u> avorites 🔻	Histor	y 🕶 💁	tup▼ O	L 🔒 🗄	SYSMAN V
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	Name CommonSecurityManage CommonSecurityManage Generate Set Of Docume	BRN BRN BRN	9.11089 0 5976.85	448 2580 0 714 10267	0 0 4127	6134 0 14	false true		1, 2, 2, 1, 1	NEUTRAL UPWARDS	Transaction Transaction Transaction	obphost_se obphost_se obphost_se	CommonS CommonS Documake	e
	Name CommonSecurityManage CommonSecurityManage Generate Set Of Docume	BRN BRN BRN	9.11089 0 5976.85	448 2580 0 714 10267	0 0 4127	6134 0 14	false true		1, 2, 2, 1, 1	NEUTRAL UPWARDS	Transaction Transaction Transaction	obphost_se obphost_se obphost_se	CommonS CommonS Documake	e
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Expand it to get a list of all the servers. Each server can be further selected to get the details at the server level. On clicking the server, the application metrics are displayed in the table as shown in the following figure.

Figure 10–25 Application Metrics of all outbound services called from selected server

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									rishika		DOWNWAR				
									rishika		DOWNWAR				
									rishika		DOWNWAR				

The following table explains each column of the table present in the given snapshot:

Table 10–5 Details of the Application Metrics table of all Outbound Services

Sr. No.	Column Name	Description
1	Name	Logical name of the Outbound services
2	Channel	Channel through which the transaction occurred Valid Values: Branch, ATM, and POS.

Sr. No.	Column Name	Description
3	Task Code	Task code of the OBP page by which the transaction was triggered. OBP module of which transaction is a part
4	Average Time	Average execution time
5	Max Time	Maximum time of execution of the outbound service
6	Min Time	Minimum time of execution of the outbound service
7	Success Count	Number of times outbound service executed successfully
8	Alert	Alert state of the outbound service
9	Alert User	Teller who performed the last alerted transaction
10	Trend Reference Queue	Execution time of last n transactions (n=5)
11	Trend	Trending of transaction Valid Values: Upwards, Downwards, Neutral
12	Transaction Type	Maximum time of execution of the transaction
13	Server Name	Server name
14	Actual Service Name	Service name of the transaction

# **11 Configuration Export-Import Operations**

This chapter gives an insight to the Configuration Export-Import operations.

## 11.1 Objective

Config operations include exporting business configurations, from one environment, to DB or file and importing these configurations in another environment, thus replicating the entire data with the golden copy.

Compare Business Configurations (OPA005) page provides the UI to compare the entities present in two environments on the basis of the data attributes.

Suppose R1 is an environment where the teller has maintained an entity, say currency AUD and in R2 environment the teller wants the exact copy of R1. The 'Import Export' operations allows the user to export a single entity or all entities of a 'taskCode' and can replicate the working environment with the exported version of data very effectively.

The overall Config operations are divided into five parts, each part representing an operation with its specific functionality. The user has the option to invoke any of the operation to get the required work done.

## 11.2 Export

This operation aims at exporting a business configuration of a 'taskCode' to the configured location. It stores the serializable response of the entity. When export operation is invoked, data gets exported to the database or file as per configuration.

This operation can be carried out as a webservice call for the Export operation of the specific taskcode whose page level configuration has not been done.

## 11.3 Import

This operation aims at replicating the entity of target environment with exported data from a source environment. It retrieves the serializable response of the entity from database or file as per configuration and de-serializes the response to replicate the entity in target environment. When import operation is performed, it fetches the response from the source environment database and inserts/updates in the target environment.

## 11.4 Export All

This operation aims at exporting all the entities of a given taskcode. So that the same can be replicated in other environment. It is carried out through a web service call, by invoking the fetchAllAndExport method of ExportImportApplicationService. The request parameters are sessionContext, taskCode.

### Export Request

Export request xml is provided below:

```
- <soapenv:Envelope xmlns:soapenv="http://
schemas.xmlsoap.org/soap/envelope/"
xmlns:exp="http://eximp.service.ops.app.fc.ofss.com/ExportImportAp
plicationService" xmlns:con="http:// context.app.fc.ofss.com"
xmlns:exc="http://exception.infra.fc.ofss.com">
```

```
<soapenv:Header />
- <soapenv:Body>
- <exp:fetchAllAndExportExportImport>
- <exp:sessionContext>
<con:bankCode>48</con:bankCode>
<con:businessUnit>MODELBANK</con:businessUnit>
<con:channel>BRN</con:channel>
<con:marketEntity>MODEL01</con:marketEntity>
<con:postingDateText>20130228000000</con:postingDateText>
<con:targetUnit>MODELBANK</con:targetUnit>
<con:transactionBranch>8542</con:transactionBranch>
<con:userId>OFSSUser</con:userId>
</exp:sessionContext>
<exp:taskCode>PM031</exp:taskCode>
</exp:fetchAllAndExportExportImport>
</soapenv:Body>
</soapenv:Envelope>
```

#### **Export Response**

Once this service is invoked with the above request, it fetches the configVersionNo of the exported data in response which is the version number with which Export All was performed.

```
- <S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
- <S:Body>
- <ns11:fetchAllAndExportExportImportResponse
xmlns:ns11="http://eximp.service.ops.app.fc.ofss.com/ExportImportA
pplicationService" xmlns:ns10="http://fact.enumeration.fc.ofss.com"
xmlns:ns9="http://enumeration.fc.ofss.com"
xmlns:exceptioninfra="http://exception.infra.fc.ofss.com"
xmlns:datatype="http://datatype.fc.ofss.com"
xmlns:contextapp="http://context.app.fc.ofss.com"
xmlns:dtocoreseedopsapp="http://dto.core.seed.ops.app.fc.ofss.com"
xmlns:dtocommondomainframework="http://dto.common.domain.framework
.fc.ofss.com"
xmlns:errorvalidationinfra="http://error.validation.infra.fc.ofss.
com" xmlns:opsapp="http://ops.app.fc.ofss.com"
xmlns:responseservice="http://response.service.fc.ofss.com">
- <ns11:return>
<responseservice:configVersionId>104</responseservice:configVersio
nId>
- <responseservice:status>
<responseservice:errorCode>0</responseservice:errorCode>
<responseservice:extendedReply />
<responseservice:internalReferenceNumber>2016075018875027</respons
eservice:internalReferenceNumber>
<responseservice:isOverriden>false</responseservice:isOverriden>
```

```
<responseservice:isServiceChargeApplied>false</responseservice:isS
erviceChargeApplied>
- <responseservice:postingDate>
<datatype:dateString>20130228000000</datatype:dateString>
<datatype:month>2</datatype:month>
<datatype:monthDate>228</datatype:monthDate>
<datatype:monthDateTime>228000000</datatype:monthDateTime>
<datatype:timestamp>2013-02-28T00:00:00+05:30</datatype:timestamp>
<datatype:year>2013</datatype:year>
</responseservice:postingDate>
<responseservice:replyCode>0</responseservice:replyCode>
<responseservice:replyText>Operation completed
successfully.</responseservice:replyText>
<responseservice:spReturnValue>0</responseservice:spReturnValue>
</responseservice:status>
</ns11:return>
</ns11:fetchAllAndExportExportImportResponse>
</S:Body>
</S:Envelope>
```

The user can import the required data based on this version number.

## 11.5 Import All

This operation aims at importing the record for the given taskCode and configVersionNo in the target environment. This method fetches the exported record based on versionNo and taskCode and tries to update if the records exist, else create the new records.

This is carried out by making a web service call to importAll method of ExportImportApplicationService with taskCode, versionNo as input. The request and response xml are as attached.

#### **Import Request**

```
- <soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:exp="http://eximp.service.ops.app.fc.ofss.com/ExportImportAp
plicationService" xmlns:con="http://context.app.fc.ofss.com"
xmlns:exc="http://exception.infra.fc.ofss.com">
<soapenv:Header />
- <soapenv:Body>
- <exp:importAllExportImport>
- <exp:sessionContext>
<con:bankCode>48</con:bankCode>
<con:businessUnit>MODELBANK</con:businessUnit>
<con:channel>BRN</con:channel>
<con:marketEntity>MODEL01</con:marketEntity>
<con:postingDateText>20130228000000</con:postingDateText>
<con:targetUnit>MODELBANK</con:targetUnit>
<con:transactionBranch>8542</con:transactionBranch>
<con:userId>OFSSUser</con:userId>
</exp:sessionContext>
```

```
<exp:taskCode>PM031</exp:taskCode>
<exp:versionNo>104</exp:versionNo>
</exp:importAllExportImport>
</soapenv:Body>
</soapenv:Envelope>
```

#### Import Respose

```
- <S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
- <S:Body>
- <ns5:importAllExportImportResponse
xmlns="http://enumeration.fc.ofss.com"
xmlns:ns2="http://fact.enumeration.fc.ofss.com"
xmlns:ns3="http://context.app.fc.ofss.com"
xmlns:ns4="http://exception.infra.fc.ofss.com"
xmlns:ns5="http://eximp.service.ops.app.fc.ofss.com/ExportImportAp
plicationService"
xmlns:ns6="http://dto.common.domain.framework.fc.ofss.com"
xmlns:ns7="http://datatype.fc.ofss.com"
xmlns:ns8="http://ops.app.fc.ofss.com"
xmlns:ns9="http://response.service.fc.ofss.com"
xmlns:ns10="http://error.validation.infra.fc.ofss.com"
xmlns:ns11="http://dto.core.config.app.fc.ofss.com">
- <ns5:return>
<ns9:errorCode>0</ns9:errorCode>
<ns9:extendedReply />
<ns9:internalReferenceNumber>2012132010145535</ns9:internalReferen
ceNumber>
<ns9:isOverriden>false</ns9:isOverriden>
<ns9:isServiceChargeApplied>false</ns9:isServiceChargeApplied>
- <ns9:postingDate>
<ns7:month>4</ns7:month>
<ns7:monthDate>425</ns7:monthDate>
<ns7:monthDateTime>425000000</ns7:monthDateTime>
<ns7:timestamp>2012-04-25T00:00:00+05:30</ns7:timestamp>
<ns7:year>2012</ns7:year>
</ns9:postingDate>
<ns9:replyCode>0</ns9:replyCode>
<ns9:replyText>Operation completed successfully.</ns9:replyText>
<ns9:spReturnValue>0</ns9:spReturnValue>
</ns5:return>
</ns5:importAllExportImportResponse>
</S:Body>
</S:Envelope>
```

## 11.6 Config Compare

This operation is used to compare Domain Objects, with same key, for a given taskCode. It aims at comparing the entities from two databases which are termed as TO and FROM database. The comparison is

such as it contains following information:

Present only in TO database (presently working environment)

Present only in FROM database (configurable DB environment)

Present in both, but data is different

In the whole set of operations, Export and Import can be performed either by screen or by webservice. For performing import using DB datastore, the reference DataSource needs to be configured in the target environment (the reference datasource is initially configured at the time of installation), which points to the data base where export has been performed. For ExportAll and ImportAll there is a common service ExportImportApplicationService which have the operation to perform the duties.

## 11.7 Data Store Configuration

The Data Store for Config operations can be configured to either Database or File. The user has the option to choose any one of the two data store configurations. The exported response will be stored in database or file as per this configuration.

### 11.7.1 DB Data Store

This configuration stores the exported data to database. For using this configuration, following changes have to be made:

1. In FLX\_FW\_CONFIG\_ALL\_B table, maintain DataSourceType=File

select \*from flx\_fw\_config\_all\_b where category\_id='DataSourceDestination' and prop\_ id='DataSourceType'

Note

No separate configuration is required for export and import in case of DB Data Store.

### 11.7.2 File Data Store

This configuration stores the exported data to file. For using this configuration, following changes have to be made:

1. In FLX\_FW\_CONFIG\_ALL\_B table, maintain DataSourceType=FILE.

select \* from flx\_fw\_config\_all\_b where category\_id='DataSourceDestination' and prop\_ id='DataSourceType'

2. Set the location of system property **fc.io.dir** in **setDomainEnv.sh** to a valid directory.

#### Figure 11–1 File Data Store

2	/scr	atch/a	app/p	rodu	uct/fi	mw/	user_	proje	ects/	/doma	ains/	host	_dom	ain/b	oin/se	DomainEnv.sh - OCH_HOST_10.180.5.23	
I.	iii P	¢		Ж	Ē	$\times$	(a)	s)	$\cap$	<i>6</i> 4	<b>pa</b> A≯B	<u>ام</u>	•	•	1		
Le=	\${1	ogEr	rors	roCo	onso	leF	lag}	-D:	fc.i	io.di	lr=/	scr	atch	/app	/pro	duct/fmw/obpinstall/obp/Export_Import	
																	-

### **11.7.2.1 Configuration for Export**

The configuration for export requires the following changes:

1. Set **ExportLoggingPath** variable in **FLX\_FW\_CONFIG\_ALL\_B** to the directory where the exported files are needed to be stored. This is relative path with respect to **fc.io.dir/runarea/BusinessUnit**.

select \* from flx\_fw\_config\_all\_b where category\_id='DataSourceDestination' and prop\_ id='ExportLoggingPath'.

If **fc.io.dir** is set to /scratch/app/product/fmw/obpinstall/obp/Export\_Import, **ExportLoggingPath** is set to **export** and **business unit** is **DEMO\_BANK**, then the files will be stored at /scratch/app/product/fmw/obpinstall/obp/Export\_Import/runarea/DEMO\_BANK/export.

#### **11.7.2.2 Configuration for Import**

The configuration for import requires the following changes:

1. Set **ImportLoggingPath** variable in **FLX\_FW\_CONFIG\_ALL\_B** to the directory from where the exported response has to imported.

select \* from flx\_fw\_config\_all\_b where category\_id='DataSourceDestination' and prop\_ id='ImportLoggingPath'

/scratch/app/product/fmw/obpinstall/obp/Export\_Import/runarea/DEMO\_BANK/export will be set as ImportLoggingPath in our case.

## 11.8 How to Export Records

Export Operations can be performed using screen or webservice. This operation can be used to export either a single record or multiple records based on the requirement.

In case of DB Data Store, exported data is stored in **flx\_ops\_config\_data\_item** and for File Data Store, exported files are generated at the path specified for export configuration. For more information, see Chapter 11.7 Data Store Configuration.

### 11.8.1 Exporting Single Record

This operation is used to export single record of an entity.

Let us assume the configuration is done for **DATABASE**, so the data gets stored in **flx\_ops\_config\_data\_ item** table of the source database. The entity inquiry response gets stored as a serialized byte into the database.

Export operation can be carried out as a webservice call for the export operation of the specific taskcode. A single record of business configuration can be exported using the service **<BusinessConfiguration>ApplicationService**, which provides a **'fetch<BusinessConfiguration>AndExport'** method.

The request parameters to this service are:

- SessionContext
- <BusinessConfiguration>DTO Representing the key of the record to be exported.

In response of the service call, it returns '**configVersionNo**'. This 'configVersionNo' will be used to import this record into the target environment.

Sample request and response are as follows:

#### **Export Single Request**

```
- <soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:act="http://action.service.ep.app.fc.ofss.com/ActivityEventA
ctionApplicationService" xmlns:con="http://context.app.fc.ofss.com"
xmlns:exc="http://exception.infra.fc.ofss.com"
xmlns:dto="http://dto.common.domain.framework.fc.ofss.com"
xmlns:dat="http://datatype.fc.ofss.com"
xmlns:act1="http://action.dto.ep.app.fc.ofss.com"
xmlns:rule="http://rule.action.dto.ep.app.fc.ofss.com"
xmlns:sub="http://subscriber.action.dto.ep.app.fc.ofss.com">
<soapenv:Header />
- <soapenv:Body>
- <act:fetchActivityEventActionAndExportActivityEventAction>
- <!-- Optional:
-->
- <act:sessionContext>
<con:bankCode>08</con:bankCode>
<con:businessUnit>OBP BU</con:businessUnit>
<con:channel>BRN</con:channel>
<con:marketEntity>SUN01</con:marketEntity>
<con:postingDateText>20130228000000</con:postingDateText>
<con:targetUnit>OBP BU</con:targetUnit>
<con:transactionBranch>089999</con:transactionBranch>
<con:userId>OFSSUser</con:userId>
</act:sessionContext>
- <!-- Optional:
-->
- <act:activityEventActionDTO>
```

```
- <act1:keyDTO>
- <!-- Optional:
-->
<act1:actionId>A</act1:actionId>
- <!-- Optional:
-->
<actl:activityId>com.ofss.fc.domain.lcm.batch.service.BatchCovenan
tService.processNotificationForCompliance</act1:activityId>
- <!-- Optional:
-->
<act1:eventId>LM STATUS COV</act1:eventId>
</act1:keyDTO>
</act:activityEventActionDTO>
</act:fetchActivityEventActionAndExportActivityEventAction>
</soapenv:Body>
</soapenv:Envelope>
```

#### **Export Single Response**

```
- <S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
- <S:Header>
<work:WorkContext
xmlns:work="http://oracle.com/weblogic/soap/workarea/">r00ABXdWABx
3ZWJsb2dpYy5hcHAub2JwLXdlYnNlcnZpY2VzAAAA1gAAACN3ZWJsb2dpYy53b3JrY
XJlYS5TdHJpbmdXb3JrQ29udGV4dAAJMi4yLjAuMC4wAAA=</work:WorkContext>
</S:Header>
- <S:Body>
<ns14:fetchActivityEventActionAndExportActivityEventActionResponse
xmlns:ns14="http://action.service.ep.app.fc.ofss.com/ActivityEvent
ActionApplicationService"
xmlns:ns13="http://ep.enumeration.fc.ofss.com"
xmlns:ns12="http://enumeration.fc.ofss.com"
xmlns:exceptioninfra="http://exception.infra.fc.ofss.com"
xmlns:validationdtoapp="http://validation.dto.app.fc.ofss.com"
xmlns:ruleactiondtoepapp="http://rule.action.dto.ep.app.fc.ofss.co
m" xmlns:datatype="http://datatype.fc.ofss.com"
xmlns:contextapp="http://context.app.fc.ofss.com"
xmlns:dtocommondomainframework="http://dto.common.domain.framework
.fc.ofss.com"
xmlns:errorvalidationinfra="http://error.validation.infra.fc.ofss.
com" xmlns:actiondtoepapp="http://action.dto.ep.app.fc.ofss.com"
xmlns:responseservice="http://response.service.fc.ofss.com"
xmlns:userdtosmsapp="http://user.dto.sms.app.fc.ofss.com"
xmlns:subscriberactiondtoepapp="http://subscriber.action.dto.ep.ap
p.fc.ofss.com">
- <ns14:return>
<responseservice:configVersionId>187</responseservice:configVersio
nId>
```

```
- <responseservice:status>
<responseservice:errorCode>0</responseservice:errorCode>
<responseservice:extendedReply />
<responseservice:internalReferenceNumber>2016305031622005</respons
eservice:internalReferenceNumber>
<responseservice:isOverriden>false</responseservice:isOverriden>
<responseservice:isServiceChargeApplied>false</responseservice:isS
erviceChargeApplied>
- <responseservice:postingDate>
<datatype:dateString>20130228000000</datatype:dateString>
</responseservice:postingDate>
<responseservice:replyCode>0</responseservice:replyCode>
<responseservice:replyText>Operation completed
successfully.</responseservice:replyText>
<responseservice:spReturnValue>0</responseservice:spReturnValue>
</responseservice:status>
- <actiondtoepapp:activityEventActionDTO>
```

<dtocommondomainframework:auditSequence>1</dtocommondomainframewor
k:auditSequence>

<dtocommondomainframework:createdBy>ArvindKu</dtocommondomainframe
work:createdBy>

```
- <dtocommondomainframework:creationDate>
```

<datatype:dateString>20130809000000</datatype:dateString>

```
</dtocommondomainframework:creationDate>
```

```
<dtocommondomainframework:generatedPackageId>false</dtocommondomai
nframework:generatedPackageId>
```

```
<dtocommondomainframework:lastUpdatedBy>OFSSUser</dtocommondomainf
ramework:lastUpdatedBy>
```

```
- <dtocommondomainframework:lastUpdatedDate>
```

```
<datatype:dateString>20140721162124</datatype:dateString>
```

```
</dtocommondomainframework:lastUpdatedDate>
```

```
<dtocommondomainframework:version>2</dtocommondomainframework:vers
ion>
```

```
<actiondtoepapp:alertName>Covenant Status
Complied</actiondtoepapp:alertName>
```

- <actiondtoepapp:alertTemplate>

<dtocommondomainframework:auditSequence>1</dtocommondomainframework:auditSequence>

<dtocommondomainframework:generatedPackageId>false</dtocommondomai
nframework:generatedPackageId>

```
<dtocommondomainframework:version>1</dtocommondomainframework:vers
ion>
- <actiondtoepapp:keyDTO>
<actiondtoepapp:id>1</actiondtoepapp:id>
</actiondtoepapp:keyDTO>
<actiondtoepapp:importance>CRITICAL</actiondtoepapp:importance>
<actiondtoepapp:language>ENG</actiondtoepapp:language>
<actiondtoepapp:name>Email Template</actiondtoepapp:name>
<actiondtoepapp:urgency>HIGH</actiondtoepapp:urgency>
</actiondtoepapp:alertTemplate>
<actiondtoepapp:alertType>MANDATORY</actiondtoepapp:alertType>
- <actiondtoepapp:decisionAgent>
```

<dtocommondomainframework:auditSequence>1</dtocommondomainframework:auditSequence>

<dtocommondomainframework:generatedPackageId>false</dtocommondomai
nframework:generatedPackageId>

```
<dtocommondomainframework:version>1</dtocommondomainframework:vers
ion>
```

```
- <ruleactiondtoepapp:keyDTO>
```

```
<ruleactiondtoepapp:id>0</ruleactiondtoepapp:id>
```

```
</ruleactiondtoepapp:keyDTO>
```

```
- <ruleactiondtoepapp:rule>
```

<dtocommondomainframework:auditSequence>1</dtocommondomainframework:auditSequence>

```
<dtocommondomainframework:generatedPackageId>false</dtocommondomai
nframework:generatedPackageId>
```

```
<dtocommondomainframework:version>1</dtocommondomainframework:vers
ion>
```

```
<ruleactiondtoepapp:description>Invokes the default
rule</ruleactiondtoepapp:description>
<ruleactiondtoepapp:keyDTO />
<ruleactiondtoepapp:name>defaultRule</ruleactiondtoepapp:name>
```

```
<ruleactiondtoepapp:ruleClass>com.ofss.fc.domain.ep.service.action
.rule.DefaultRuleHandler</ruleactiondtoepapp:ruleClass>
```

```
<ruleactiondtoepapp:ruleEngine>INTERNAL</ruleactiondtoepapp:ruleEngine>
```

```
</ruleactiondtoepapp:rule>
```

```
</actiondtoepapp:decisionAgent>
```

```
- <actiondtoepapp:expiryDate>
```

<datatype:dateString>20991231000000</datatype:dateString>

```
</actiondtoepapp:expiryDate>
<actiondtoepapp:isConditional>false</actiondtoepapp:isConditional>
<actiondtoepapp:isRetryAllowed>true</actiondtoepapp:isRetryAllowed>
<actiondtoepapp:isTransactional>false</actiondtoepapp:isTransactio</pre>
nal>
- <actiondtoepapp:keyDTO>
<actiondtoepapp:actionId>A</actiondtoepapp:actionId>
<actiondtoepapp:activityId>com.ofss.fc.domain.lcm.batch.service.Ba
tchCovenantService.processNotificationForCompliance</actiondtoepap
p:activityId>
<actiondtoepapp:eventId>LM STATUS COV</actiondtoepapp:eventId>
</actiondtoepapp:keyDTO>
<actiondtoepapp:maxRetryCount>2</actiondtoepapp:maxRetryCount>
- <actiondtoepapp:recipientMessageTemplates>
<dtocommondomainframework:auditSequence>1</dtocommondomainframewor</pre>
k:auditSequence>
<dtocommondomainframework:generatedPackageId>false</dtocommondomai</pre>
nframework:generatedPackageId>
<dtocommondomainframework:version>1</dtocommondomainframework:vers</pre>
ion>
<subscriberactiondtoepapp:amount>0</subscriberactiondtoepapp:amoun
t >
<subscriberactiondtoepapp:bankerType>NA</subscriberactiondtoepapp:
bankerType>
<subscriberactiondtoepapp:conditional>false</subscriberactiondtoep
app:conditional>
- <subscriberactiondtoepapp:decisionAgent>
<dtocommondomainframework:auditSequence>1</dtocommondomainframewor</pre>
k:auditSequence>
<dtocommondomainframework:generatedPackageId>false</dtocommondomai</pre>
nframework:generatedPackageId>
<dtocommondomainframework:version>1</dtocommondomainframework:vers</pre>
ion>
- <ruleactiondtoepapp:keyDTO>
<ruleactiondtoepapp:id>0</ruleactiondtoepapp:id>
</ruleactiondtoepapp:keyDTO>
- <ruleactiondtoepapp:rule>
```

```
<dtocommondomainframework:auditSequence>1</dtocommondomainframewor
k:auditSequence>
```

<dtocommondomainframework:generatedPackageId>false</dtocommondomai
nframework:generatedPackageId>

<dtocommondomainframework:version>1</dtocommondomainframework:vers
ion>
<ruleactiondtoepapp:description>Invokes the default
rule</ruleactiondtoepapp:description>
<ruleactiondtoepapp:keyDTO />
<ruleactiondtoepapp:name>defaultRule</ruleactiondtoepapp:name>

<ruleactiondtoepapp:ruleClass>com.ofss.fc.domain.ep.service.action .rule.DefaultRuleHandler</ruleactiondtoepapp:ruleClass>

<ruleactiondtoepapp:ruleEngine>INTERNAL</ruleactiondtoepapp:ruleEn gine> </ruleactiondtoepapp:rule>

</subscriberactiondtoepapp:decisionAgent>

- <subscriberactiondtoepapp:keyDTO>

<subscriberactiondtoepapp:actionId>A</subscriberactiondtoepapp:actionId>

```
<subscriberactiondtoepapp:activityId>com.ofss.fc.domain.lcm.batch.
service.BatchCovenantService.processNotificationForCompliance</sub
scriberactiondtoepapp:activityId>
```

<subscriberactiondtoepapp:destinationType>EMAIL</subscriberactiond toepapp:destinationType> <subscriberactiondtoepapp:eventId>LM\_STATUS\_ COV</subscriberactiondtoepapp:eventId> <subscriberactiondtoepapp:messageTemplateId>LCM\_Covenant status is Complied</subscriberactiondtoepapp:messageTemplateId>

```
<subscriberactiondtoepapp:subscriberType>PARTY</subscriberactiondt
oepapp:subscriberType>
```

```
<subscriberactiondtoepapp:subscriberValue>CUSTOMER</subscriberacti
ondtoepapp:subscriberValue>
</subscriberactiondtoepapp:keyDTO>
```

```
<subscriberactiondtoepapp:recipientType>INTERNAL</subscriberaction
dtoepapp:recipientType>
</actiondtoepapp:recipientMessageTemplates>
</actiondtoepapp:activityEventActionDTO>
</ns14:return>
```

```
</nsl4:fetchActivityEventActionAndExportActivityEventActionRespons
e>
</S:Body>
</S:Envelope>
```

### 11.8.2 Exporting All Records

This operation is used to export all the entities of a given task code. The exported package can then be replicated into the target environment. All records of a Business configuration entity can be exported using the **FetchAllAndExport** method of **ExportImportApplicationService**.

The request parameters to this service are:

- SessionContext
- TaskCode

A 'configVersionNo' is returned in the response. This 'configVersionNo' will be used as an identifier to trigger an import into the target environment.

Sample request and response are as follows:

#### **Export All Request**

```
- <soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:exp="http://eximp.service.ops.app.fc.ofss.com/ExportImportAp
plicationService" xmlns:con="http://context.app.fc.ofss.com"
xmlns:exc="http://exception.infra.fc.ofss.com">
<soapenv:Header />
- <soapenv:Body>
- <exp:fetchAllAndExportExportImport>
- <!-- Optional:
-->
- <exp:sessionContext>
<con:bankCode>08</con:bankCode>
<con:businessUnit>OBP BU</con:businessUnit>
<con:channel>BRN</con:channel>
<con:marketEntity>SUN01</con:marketEntity>
<con:postingDateText>20130228000000</con:postingDateText>
<con:targetUnit>OBP BU</con:targetUnit>
<con:transactionBranch>089999</con:transactionBranch>
<con:userId>OFSSUser</con:userId>
</exp:sessionContext>
<exp:taskCode>AL04</exp:taskCode>
</exp:fetchAllAndExportExportImport>
</soapenv:Body>
</soapenv:Envelope>
```

#### **Export All Response**

- <S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
- <S:Header>

```
<work:WorkContext
xmlns:work="http://oracle.com/weblogic/soap/workarea/">r00ABXdWABx
3ZWJsb2dpYy5hcHAub2JwLXdlYnNlcnZpY2VzAAAA1gAAACN3ZWJsb2dpYy53b3JrY
XJlYS5TdHJpbmdXb3JrQ29udGV4dAAJMi4yLjAuMC4wAAA=</work:WorkContext>
</S:Header>
- <S:Body>
- <ns13:fetchAllAndExportExportImportResponse
xmlns:ns13="http://eximp.service.ops.app.fc.ofss.com/ExportImportA
pplicationService" xmlns:ns12="http://ops.enumeration.fc.ofss.com"
xmlns:ns11="http://fact.enumeration.fc.ofss.com"
xmlns:ns10="http://enumeration.fc.ofss.com"
xmlns:exceptioninfra="http://exception.infra.fc.ofss.com"
xmlns:validationdtoapp="http://validation.dto.app.fc.ofss.com"
xmlns:datatype="http://datatype.fc.ofss.com"
xmlns:contextapp="http://context.app.fc.ofss.com"
xmlns:dtocoreseedopsapp="http://dto.core.seed.ops.app.fc.ofss.com"
xmlns:dtocommondomainframework="http://dto.common.domain.framework
.fc.ofss.com"
xmlns:errorvalidationinfra="http://error.validation.infra.fc.ofss.
com" xmlns:opsapp="http://ops.app.fc.ofss.com"
xmlns:responseservice="http://response.service.fc.ofss.com">
- <ns13:return>
<responseservice:configVersionId>186</responseservice:configVersio
nId>
- <responseservice:status>
<responseservice:errorCode>0</responseservice:errorCode>
<responseservice:extendedReply />
<responseservice:internalReferenceNumber>2016305031622003</respons
eservice:internalReferenceNumber>
<responseservice:isOverriden>false</responseservice:isOverriden>
<responseservice:isServiceChargeApplied>false</responseservice:isS
erviceChargeApplied>
- <responseservice:postingDate>
<datatype:dateString>20130228000000</datatype:dateString>
</responseservice:postingDate>
<responseservice:replyCode>0</responseservice:replyCode>
<responseservice:replyText>Operation completed
successfully.</responseservice:replyText>
<responseservice:spReturnValue>0</responseservice:spReturnValue>
</responseservice:status>
</ns13:return>
</ns13:fetchAllAndExportExportImportResponse>
</S:Body>
</S:Envelope>
```

In case of DB Data Store, exported data is stored in **flx\_ops\_config\_data\_item** and for File Data Store, exported files are generated at the path specified for export configuration. For more information, see Chapter 11.7 Data Store Configuration.

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**-#46	SQL Output Sta	vistics					
objects	•	43	. data data shawa ta ta -			11641 and an anti-	
- Recent objects	select * from	n flx_ops_config	_data_item where task_co	de='PM011' and con:	fig_ver_no=	<pre>'104' and operation_type='E</pre>	xport'
- Recycle bin	anlant + from	fly one confid	data item where task on	des IDM0111 and com	fig was not	'104' and operation type='In	mort
- Functions	Select - Ifor	a rix_ops_conrig	_data_item where task_co	de- PMOII and Con	rig_ver_no=		npore.
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Packages							
Package bodies							
Types							
Type bodies							
Triggers							
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Queue tables	<ul> <li>1 BRN</li> <li>2 BRN</li> </ul>	<blob> <blob></blob></blob>	··· 04-06-2013 11:16:59 AM	Export	··· success ···	104 PM011	
Queue tables     Ubraries     Directories	<ul> <li>1 BRN</li> <li>2 BRN</li> <li>3 BRN</li> </ul>	<blob> <blob> <blob></blob></blob></blob>	<ul> <li>04-06-2013 11:16:59 AM</li> <li>04-06-2013 11:16:59 AM</li> <li>04-06-2013 11:16:59 AM</li> </ul>	Export Export	success	104 PM011 104 PM011	
Queue tables     Libraries     Directories     Tables	<ul> <li>1 BRN</li> <li>2 BRN</li> <li>3 BRN</li> <li>4 BRN</li> </ul>	<blob> <blob> <blob> <blob> <blob></blob></blob></blob></blob></blob>	<ul> <li>04-06-2013 11:16:59 AM</li> </ul>	Export Export Export	success ··· success ··· success ···	104 PM011 104 PM011 104 PM011	
Queue tables     Libraries     Directories     Tables     Wews	<ul> <li>1 BRN</li> <li>2 BRN</li> <li>3 BRN</li> <li>4 BRN</li> <li>5 BRN</li> </ul>	<pre> &lt;8L0B&gt;   &lt;8L0B&gt;</pre>	<ul> <li>04-06-2013 11:16-59 AM</li> </ul>	Export Export Export Export	SUCCESS ··· SUCCESS ··· SUCCESS ··· SUCCESS ···	104 PM011 104 PM011 104 PM011 104 PM011	
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Gueue tables     Ubraries     Directories     Tables     Vews     Materialized views     Sequences	<ul> <li>1 BRN</li> <li>2 BRN</li> <li>3 BRN</li> <li>4 BRN</li> <li>5 BRN</li> <li>6 BRN</li> <li>7 BRN</li> </ul>	<bl0b> <bl0b> <bl0b> <bl0b> <bl0b> <bl0b> <bl0b></bl0b></bl0b></bl0b></bl0b></bl0b></bl0b></bl0b>	<ul> <li>04-06-2013 11:16:59 AM</li> </ul>	Export Export Export Export Export Export	SUCCESS ··· SUCCESS ··· SUCCESS ··· SUCCESS ···	104 PM011 104 PM011 104 PM011 104 PM011 104 PM011 104 PM011	
Gueue tables     Gueue tables     Directories     Tables     Vews     Mexes     Sequences     Users	<ul> <li>1 BRN</li> <li>2 BRN</li> <li>3 BRN</li> <li>4 BRN</li> <li>5 BRN</li> <li>6 BRN</li> </ul>	<bl0b> <bl0b> <bl0b> <bl0b> <bl0b> <bl0b></bl0b></bl0b></bl0b></bl0b></bl0b></bl0b>	<ul> <li>04-06-2013 11:16-59 AM</li> </ul>	Export Export Export Export Export Export	SUCCESS SUCCES	104 PM011 104 PM011 104 PM011 104 PM011 104 PM011	
Oueve tables     Ubrarkes     Drarkes     Drarkes     Tables     Vews     Materialized views     Geguences     Users     Users     Drafies	<ul> <li>1 BRN</li> <li>2 BRN</li> <li>3 BRN</li> <li>4 BRN</li> <li>5 BRN</li> <li>6 BRN</li> <li>7 BRN</li> </ul>	<bl0b> <bl0b> <bl0b> <bl0b> <bl0b> <bl0b> <bl0b></bl0b></bl0b></bl0b></bl0b></bl0b></bl0b></bl0b>	<ul> <li>04-06-2013 11:16:59 AM</li> </ul>	Export Export Export Export Export Export Export	SUCCESS ··· SUCCESS ··· SUCCESS ··· SUCCESS ··· SUCCESS ··· SUCCESS ···	104 PM011 104 PM011 104 PM011 104 PM011 104 PM011 104 PM011	
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Locue tables     Lorates     Dectores     Tables     Vens     Vens     Vens     Vens     Sequences     Polfes     Polfes     Soproms     Database links     Tableposes	<ul> <li>1 BRN</li> <li>2 BRN</li> <li>3 BRN</li> <li>4 BRN</li> <li>5 BRN</li> <li>6 BRN</li> <li>7 BRN</li> <li>8 BRN</li> <li>9 BRN</li> <li>10 BRN</li> <li>11 BRN</li> </ul>	<pre> &lt;8L08&gt;   &lt;8L08&gt;</pre>	<ul> <li>04-06-2013 11:16:59 AM</li> </ul>	Export Export Export Export Export Export Export Export Export Export Export Export	SUCCESS " SUCCESS " SUCCESS " SUCCESS " SUCCESS " SUCCESS " SUCCESS " SUCCESS " SUCCESS "	104 PM011 104 PM011 104 PM011 104 PM011 104 PM011 104 PM011 104 PM011 104 PM011 104 PM011 104 PM011	
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#### Figure 11–2 Exported Data

#### Figure 11–3 Exported Files

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anize 🔹 Include in library 👻 Share with 💌	Burn	New folder					)II •	
🅌 Host_Workspace	*	Name	Date modified	Туре	Size			
HostWorkspace2014		ACCT010_ACCT010_130	6/30/2014 5:42 PM	File	44 KB			
🕌 JaPa		ACCT013_ACCT013_428	6/30/2014 6:47 PM	File	1 KB			
🎉 Java		AL03_AL03_182	6/30/2014 5:44 PM	File	575 KB			
🎉 Junit		AL04_AL04_342	6/30/2014 6:04 PM	File	274 KB			
🎉 kanika		ATM001_ATM001_254	6/30/2014 5:46 PM	File	5 KB			
🎍 Links		ATM002_ATM002_414	6/30/2014 6:47 PM	File	4 KB			
📗 logs		BR001_BR001_241	6/30/2014 5:46 PM	File	7 KB			
My Documents		BRM01_BRM01_403	6/30/2014 6:45 PM	File	12 KB			
New folder (2)		CAL01_CAL01_43	7/16/2014 3:45 PM	File	1 KB			
New_UI_Workspace		CAL02_CAL02_399	6/30/2014 6:45 PM	File	92 KB			
li newlogs		CASA023 CASA023 117	7/10/2014 3:20 PM	File	8 KB			
OCH_Workspace		CASA0403_CASA0403_460	7/2/2014 3:13 PM	File	77 KB			
📕 off-1.3.13		CNM01_CNM01_187	6/30/2014 5:44 PM	File	24 KB			
OPS	E	CNM03_CNM03_347	6/30/2014 6:05 PM	File	49 KB			
OWASP ZAP		CNM09_CNM09_21	7/16/2014 11:28 AM	File	7 KB			
Program Files (x86)_OLD		CNM11_CNM11_349	6/30/2014 6:06 PM	File	1 KB			
Program FilesOLD		CS01_CS01_200	6/30/2014 5:45 PM	File	4 KB			
R2BSupport		CS03_CS03_466	7/3/2014 12:23 PM	File	64 KB			
n 123		CS06_CS06_176	6/30/2014 5:44 PM	File	7 KB			
🎍 report		CS10_CS10_4261	7/3/2014 6:36 PM	File	147 KB			
Ruby Clients		CS15_CS15_239	6/30/2014 5:46 PM	File	4 KB			
Softwares		CS16_CS16_364	6/30/2014 6:19 PM	File	27 KB			
📕 Study		CS17_CS17_178	6/30/2014 5:44 PM	File	5 KB			
Study Material		CS21_CS21_4262	7/3/2014 7:10 PM	File	99 KB			
🎍 tempdir		CS22_CS22_206	6/30/2014 5:45 PM	File	10 KB			
Jan runarea		CS23_CS23_4264	7/3/2014 7:42 PM	File	22 KB			
Expressions		CS24_CS24_202	6/30/2014 5:45 PM	File	39 KB			
🎉 lib		CS26_CS26_217	6/30/2014 5:45 PM	File	5 KB			
BOBP_BU		CY01_CY01_201	6/30/2014 5:45 PM	File	42 KB			
🎉 export		CY02_CY02_235	6/30/2014 5:46 PM	File	8 KB			
🅌 rules		CY03_CY03_208	6/30/2014 5:45 PM	File	19 KB			
SUNCORP	*							

## **11.9 How to Import Records**

Import Operations can be performed using webservice clients. This operation can be used to import either a single record or multiple records based on the requirement.

## 11.9.1 Importing Single Record

This operation is used to import single record of an configuration.

### 11.9.1.1 Using API Client

A single record of a business configuration entity can be imported using the **ExportImportApplicationService**, which provides an **'importAll'** method.

The request parameters to this service are:

- SessionContext
- TaskCode
- configVersionNo (from Export Single Record response)

The steps to import single record using API client are same as importing all records. These are mentioned in the further section.

Sample request and response are as below:

#### Import All Request

```
- <soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:exp="http://eximp.service.ops.app.fc.ofss.com/ExportImportAp
plicationService" xmlns:con="http://context.app.fc.ofss.com"
xmlns:exc="http://exception.infra.fc.ofss.com">
<soapenv:Header />
- <soapenv:Body>
- <exp:importAllExportImport>
- <!-- Optional:
-->
- <exp:sessionContext>
<con:bankCode>08</con:bankCode>
<con:businessUnit>OBP BU</con:businessUnit>
<con:channel>BRN</con:channel>
<con:marketEntity>SUN01</con:marketEntity>
<con:postingDateText>20130228000000</con:postingDateText>
<con:targetUnit>OBP BU</con:targetUnit>
<con:transactionBranch>089999</con:transactionBranch>
<con:userId>OFSSUser</con:userId>
</exp:sessionContext>
<exp:taskCode>AL04</exp:taskCode>
<exp:versionNo>186</exp:versionNo>
</exp:importAllExportImport>
</soapenv:Body>
</soapenv:Envelope>
```

#### Import All Response

```
- <S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
- <S:Header>
```

```
<work:WorkContext
```

```
xmlns:work="http://oracle.com/weblogic/soap/workarea/">r00ABXdWABx
3ZWJsb2dpYy5hcHAub2JwLXdlYnNlcnZpY2VzAAAA1gAAACN3ZWJsb2dpYy53b3JrY
XJ1YS5TdHJpbmdXb3JrQ29udGV4dAAJMi4yLjAuMC4wAAA=</work:WorkContext>
</S:Header>
```

```
- <S:Body>
```

```
- <ns13:importAllExportImportResponse
xmlns:ns13="http://eximp.service.ops.app.fc.ofss.com/ExportImportA
pplicationService" xmlns:ns12="http://ops.enumeration.fc.ofss.com"
xmlns:ns11="http://fact.enumeration.fc.ofss.com"
xmlns:ns10="http://enumeration.fc.ofss.com"
xmlns:exceptioninfra="http://exception.infra.fc.ofss.com"
xmlns:validationdtoapp="http://validation.dto.app.fc.ofss.com"
xmlns:datatype="http://datatype.fc.ofss.com"
xmlns:contextapp="http://context.app.fc.ofss.com"
xmlns:dtocoreseedopsapp="http://dto.core.seed.ops.app.fc.ofss.com"
xmlns:dtocommondomainframework="http://dto.common.domain.framework
.fc.ofss.com"
```

```
xmlns:errorvalidationinfra="http://error.validation.infra.fc.ofss.
com" xmlns:opsapp="http://ops.app.fc.ofss.com"
xmlns:responseservice="http://response.service.fc.ofss.com">
- <ns13:return>
<responseservice:errorCode>0</responseservice:errorCode>
<responseservice:extendedReply />
<responseservice:internalReferenceNumber>2016305031622004</respons
eservice:internalReferenceNumber>
<responseservice:isOverriden>false</responseservice:isOverriden>
<responseservice:isServiceChargeApplied>false</responseservice:isS
erviceChargeApplied>
<responseservice:replyCode>0</responseservice:replyCode>
<responseservice:spReturnValue>0</responseservice:spReturnValue>
</ns13:return>
</ns13:importAllExportImportResponse>
</S:Body>
</S:Envelope>
```

### 11.9.2 Importing All Records

This operation is used to import the records belonging to the given 'TaskCode' and 'configVersionNo' into the target environment. This method fetches the exported records based on the 'configVersionNo' and 'TaskCode', and upserts the same into the target environment. All records of a Business configuration entity can be imported using the ImportAII method of ExportImportApplicationService.

The request parameters to this service are:

- TaskCode
- ConfigVersionNo

For performing the import operation, the '**Config Data Source**' needs to be configured in the target environment, this datasource points to the database of the reference environments.

Sample request and response are as below:

#### Import All Request

```
<con:channel>BRN</con:channel>
<con:marketEntity>SUN01</con:marketEntity>
<con:postingDateText>20130228000000</con:postingDateText>
<con:targetUnit>OBP_BU</con:targetUnit>
<con:transactionBranch>089999</con:transactionBranch>
<con:userId>OFSSUser</con:userId>
</exp:sessionContext>
<exp:sessionContext>
<exp:taskCode>AL04</exp:taskCode>
</exp:wersionNo>186</exp:versionNo>
</exp:importAllExportImport>
</soapenv:Body>
</soapenv:Envelope>
```

#### Import All Response

```
- <S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
- <S:Header>
<work:WorkContext</pre>
```

```
xmlns:work="http://oracle.com/weblogic/soap/workarea/">r00ABXdWABx
3ZWJsb2dpYy5hcHAub2JwLXdlYnNlcnZpY2VzAAAA1gAAACN3ZWJsb2dpYy53b3JrY
XJlYS5TdHJpbmdXb3JrQ29udGV4dAAJMi4yLjAuMC4wAAA=</work:WorkContext>
</S:Header>
```

```
- <S:Body>
```

```
- <ns13:importAllExportImportResponse
```

```
xmlns:ns13="http://eximp.service.ops.app.fc.ofss.com/ExportImportA
pplicationService" xmlns:ns12="http://ops.enumeration.fc.ofss.com"
xmlns:ns11="http://fact.enumeration.fc.ofss.com"
xmlns:ns10="http://enumeration.fc.ofss.com"
xmlns:exceptioninfra="http://exception.infra.fc.ofss.com"
xmlns:validationdtoapp="http://validation.dto.app.fc.ofss.com"
xmlns:datatype="http://datatype.fc.ofss.com"
xmlns:contextapp="http://context.app.fc.ofss.com"
xmlns:dtocoreseedopsapp="http://dto.core.seed.ops.app.fc.ofss.com"
xmlns:dtocommondomainframework="http://dto.common.domain.framework
.fc.ofss.com"
xmlns:errorvalidationinfra="http://error.validation.infra.fc.ofss.
com" xmlns:opsapp="http://ops.app.fc.ofss.com"
xmlns:responseservice="http://response.service.fc.ofss.com">
- <ns13:return>
<responseservice:errorCode>0</responseservice:errorCode>
<responseservice:extendedReply />
```

```
<responseservice:internalReferenceNumber>2016305031622004</respons
eservice:internalReferenceNumber>
<responseservice:isOverriden>false</responseservice:isOverriden>
<responseservice:isServiceChargeApplied>false</responseservice:isS
erviceChargeApplied>
<responseservice:replyCode>0</responseservice:replyCode>
<responseservice:spReturnValue>0</responseservice:spReturnValue>
```

```
</ns13:return>
</ns13:importAllExportImportResponse>
</S:Body>
</S:Envelope>
```

Database entry for imported response will be stored in **flx\_ops\_config\_data\_item**.

Figure 11–4 Importing Data Using SOAP UI - Storing Response

File Project Edit Sessio	on Debug Tools Ma	cro Documents Reports Window Hel	p					- 8
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	SQL Output S	atistics						
♦ – # ፋ ጜ								
bjects	select * fro	m flx ops config data item who	ere task code='PMO	11' and co	nfig ver no='104'	and operatio	n type='Export'	
Recent objects			-					
Recycle bin	select * fro	m flx_ops_config_data_item whe	ere task_code='PMO	11' and co	nfig_ver_no='104'	and operatio	n_type='Import'	
Functions								
Procedures								
Packages								
Package bodies								
Types								
Type bodies								
Triggers	-							
Java sources	🗄 - 🕀 +	- 🗸 🔻 🖉 🗛 🥖 🏫 🗸 4	🦽 🖬 🖀 🛍 -	•			-	
📄 Jobs	SERIAL	ED ENTITY CREATION DATE	OPERATION TYPE	STATUS	CONFIG_VER_N0	TASK CODE	EXCEPTION DESC	ID
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		04 0C 2012 11/21/54 AM	Import		104	DM011		
Queue tables	▶ 1 <blob></blob>	··· 04-06-2013 11:31:54 AM		success		PM011		
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Gueue tables Ubraries Directories	1 <8LOB>2 <8LOB>3 <8LOB>	··· 04-06-2013 11:31:54 AM · ··· 04-06-2013 11:31:54 AM ·	Import Import	success success	··· 104 ··· 104	PM011 PM011	-	8a
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Queue tables Libraries Directories Tables Views	▶ 1 <8L0B> 2 <8L0B> 3 <8L0B> 4 <8L0B> 5 <8L0B>	<ul> <li>04-06-2013 11:31:54 AM</li> </ul>	Import Import Import	success success	··· 104 ··· 104 ··· 104 ··· 104	PM011 PM011 PM011 PM011		8a 8a 8a 8a
Queue tables Ubraries Directories Tables Views Materialized views	<ul> <li>▶ 1 &lt;8L0B&gt;</li> <li>2 &lt;8L0B&gt;</li> <li>3 &lt;8L0B&gt;</li> <li>4 &lt;8L0B&gt;</li> </ul>	<ul> <li>04-06-2013 11:31:54 AM</li> <li>04-06-2013 11:31:54 AM</li> <li>04-06-2013 11:31:54 AM</li> <li>04-06-2013 11:31:54 AM</li> </ul>	Import Import Import Import	success success success	··· 104 ··· 104 ··· 104 ··· 104	PM011 PM011 PM011		8a 8a 8a 8a
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Queue tables Libraries Directories Tables Views Materialized views Sequences Users	<ul> <li>▶ 1 &lt;8L0B&gt;</li> <li>2 &lt;8L0B&gt;</li> <li>3 &lt;8L0B&gt;</li> <li>4 &lt;8L0B&gt;</li> <li>5 &lt;8L0B&gt;</li> <li>6 &lt;8L0B&gt;</li> </ul>	<ul> <li>04-06-2013 11:31:54 AM</li> </ul>	Import Import Import Import Import Import	SUCCESS SUCCES		PM011 PM011 PM011 PM011 PM011		8a 8a 8a 8a 8a 8a 8a
Queue tables Libraties Directories Tables Views Materialized views Sequences Users Profiles	▶ 1 <8L0B> 2 <8L0B> 3 <8L0B> 4 <8L0B> 5 <8L0B> 6 <8L0B> 7 <8L0B>	- 04-06-2013 11:31:54 AM - 04-06-2013 11:31:54 AM	Import Import Import Import Import Import	SUCCESS SUCCES	··· 104 ··· 104 ··· 104 ··· 104 ··· 104 ··· 104 ··· 104 ··· 104 ··· 104	PM011 PM011 PM011 PM011 PM011 PM011		8a 8a 8a 8a 8a 8a 8a
Queue tables Libraties Directories Tables Views Materialized views Sequences Users Profiles Roles	<ul> <li>▶ 1</li> <li>&lt;8LOB&gt;</li> <li>2</li> <li>&lt;8LOB&gt;</li> <li>3</li> <li>&lt;8LOB&gt;</li> </ul>	<ul> <li>04-06-2013 11:31:54 AM</li> </ul>	Import Import Import Import Import Import Import Import	SUCCESS SUCCES		PM011 PM011 PM011 PM011 PM011 PM011 PM011		8a3 8a3 8a3 8a3 8a3 8a3 8a3 8a3
Queue tables Ubrates Directories Tables Vervis Materialized views Sequences Profiles Roles Synonyms	<ul> <li>▶ 1 &lt;8L08&gt;</li> <li>2 &lt;8L08&gt;</li> <li>3 &lt;8L08&gt;</li> <li>4 &lt;8L08&gt;</li> <li>5 &lt;8L08&gt;</li> <li>6 &lt;8L08&gt;</li> <li>7 &lt;8L08&gt;</li> <li>8 &lt;8L08&gt;</li> <li>9 &lt;8L08&gt;</li> <li>10 &lt;8L08&gt;</li> </ul>	- 04-06-2013 11:31:54 AM - 04-06-2013 11:31:54 AM	Import Import Import Import Import Import Import Import Import	SUCCESS SUCCES		PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011		8a3 8a3 8a3 8a3 8a3 8a3 8a3 8a3 8a3 8a3
Queue tables Libraise Directories Tables Vens Sequences Usen Profiles Roles Synonyms Diababse links	<ul> <li>▶ 1 &lt;8LOB&gt;</li> <li>2 &lt;8LOB&gt;</li> <li>3 &lt;8LOB&gt;</li> <li>4 &lt;8LOB&gt;</li> <li>6 &lt;8LOB&gt;</li> <li>6 &lt;8LOB&gt;</li> <li>7 &lt;8LOB&gt;</li> <li>8 &lt;8LOB&gt;</li> <li>9 &lt;8LOB&gt;</li> <li>10 &lt;8LOB&gt;</li> <li>11 &lt;8LOB&gt;</li> </ul>	- 04-06-2013 11:31:54 AM - 04-06-2013 11:31:55 AM - 04-06-2013 11:31:55 AM	Import Import Import Import Import Import Import Import Import	SUCCESS SUCCES		PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011		8a3 8a3 8a3 8a3 8a3 8a3 8a3 8a3 8a3 8a3
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Queue tables Librates Dectories Tables Vews Materialized views Sequences Profiles Roles Synoryms Database linka	<ul> <li>1 (8L08)</li> <li>2 (8L08)</li> <li>3 (8L08)</li> <li>4 (8L08)</li> <li>5 (8L08)</li> <li>6 (8L08)</li> <li>7 (8L08)</li> <li>8 (8L08)</li> <li>9 (8L08)</li> <li>10 (8L08)</li> <li>10 (8L08)</li> <li>11 (8L08)</li> <li>12 (8L08)</li> <li>13 (8L08)</li> <li>14 (8L08)</li> </ul>	- 04-06-2013 11:31:54 AM - 04-06-2013 11:31:55 AM	Import Import Import Import Import Import Import Import Import Import Import Import Import	SUCCESS SUCCES		PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011		8a3 8a3 8a3 8a3 8a3 8a3 8a3 8a3 8a3 8a3
Queues Queue tables Ubraries Ubraries Ubraries Vervs Vervs Materialized views Sequences Usen Profiles Sinoryms Database links Tablespoces Quiters	<ul> <li>1 (8L08)</li> <li>2 (8L08)</li> <li>3 (8L08)</li> <li>4 (8L08)</li> <li>5 (8L08)</li> <li>6 (8L08)</li> <li>7 (8L08)</li> <li>8 (8L08)</li> <li>9 (8L08)</li> <li>10 (8L08)</li> <li>10 (8L08)</li> <li>11 (8L08)</li> <li>12 (8L08)</li> <li>13 (8L08)</li> <li>14 (8L08)</li> </ul>	- 04-06-2013 11:31:54 AM - 04-06-2013 11:31:55 AM	Import Import Import Import Import Import Import Import Import Import Import Import Import	SUCCESS SUCCES		PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011		8a3 8a3 8a3 8a3 8a3 8a3 8a3 8a3 8a3 8a3

## **11.10** Configuration Comparison

This section describes the details of configuration comparison.

## 11.10.1 Compare Business Configuration (Fast Path: OPA005)

This page is used to compare two entities on basis of its content.

It provides facility to compare Domain Objects, with same key, for a given task code. It aims at comparing the entities from two database which are termed as **TO** and **FROM** database. The comparison is such as it contains following information:

- Present only in TO database (presently working environment).
- Present only in FROM database (configurable DB environment).

• Present in both, but data is different.

### 11.10.2 Usage

The comparison results among entities can be generated by performing the following steps:

1. Open the OPA005 page, which loads all the entities configured in the table **flx\_ops\_task\_defn**.

Figure 11–5 Entity Comparison

ompare Bus	iness Configurat	ions			
				🗎 Print 🗸 Ok 🖌 Clear	🛛 E
		No d	ata to display	10	
_				10	
View View	port To Excel				
Select	Task Code	Task Description	Matching Percentage	Exception	
	PM008	PM008 - Dorma			
	PLS003	PLS003 - Produ			
	PLS003 PLS002	PLS003 - Produ PLS002 - Produ			
)					
	PLS002	PLS002 - Produ			
) ) )	PLS002 PLS001	PLS002 - Produ PLS001 - GAAP			
	PLS002 PLS001 PM002	PLS002 - Produ           PLS001 - GAAP           PM002 - Define			

2. Select the option under **Select** column to do the comparison of configuration/configurations which shows the matching % of data in the two environment.

Figure 11–6 Entity Comparison Results

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		1			
0			1	.0	
View -	Export To Excel				
Select	Task Code	Task Description	Matching Percentage	Exception	
•	COR17	COR17 - State Code Summary	25		
	PM008	PM008 - Dormancy Rule Configuration			
	PLS003	PLS003 - Product Ledger - Branch Parameters			
	PLS002	PLS002 - Product Ledger - Bank Parameters			
	PLS001	PLS001 - GAAP Code Definition			
	PM002	PM002 - Define CASA Bank Policy			
	CNM09	CNM09 - Layout Resolution Policy			
	ACCT010	ACCT010 - Warning Indicators			
	PM034	PM034 - Product Group Role Mapping			
	PM037	PM037 - Domain Category Accounting Entry Template			
	PM032	PM032 - Product Group Accounting Entry Template			
	PM025	PM025 - Link offers for Principal Offset Facility			

Progress bar denoting that the compare operation has finished.

Figure 11–7 Progress Bar

	siness Configurat				
			C₽	🚊 Print 🗸	O <u>k</u> 🤌 C <u>l</u> ear 🛛
			3		
			3		
0				4.0	
View 🔻 🛛	Export To Excel				
Select	Task Code	Task Description	Matching Percentage	Exception	
•	PM008	PM008 - Dorma	16.67		
•	PLS003	PLS003 - Produ	100		
		PLS002 - Produ	100		
2	PLS002	FL3002 - Fl000			
	PLS002 PLS001	PLS002 - F1000			
Z					
2	PLS001	PLS001 - GAAP			
v	PLS001 PM002	PLS001 - GAAP PM002 - Define			

3. Select the % match to launch a pop up which shows the comparison result with different keys associated to it.

Figure 11–8 Comparison Details

		Account V E	Back Office 🔻	CASA 🔻 👘	Collection 🔻	Credit Card 🔻	Insurance 🔻	LCM 🔻	Loan 🔻	Origination 🔻	Party 🔻	Payment And Collection	n 🔻 🛛 Term D	eposit 🔻	Fast Path	
	-				Comparison	Details				×	1					
OPA <u>0</u> 0	× di															
ompare Bu	siness Configura	ions														
					Compari	son Result K	eys						8	Print 🗸	O <u>k</u> 🤣 C <u>l</u> ear	
			4		View 🔻	2 Detach										
			4	_	Entity Key	To	From									
0					DormFMD#20	)1	Dorm	FMD#201512	30000000							
					1#201601020	00	1#20	16010200000	)							
View 🗸 🗍	Export To Excel				1#201512300			15123000000	)							
Select	Task Code	Task Description	Matching Percentage	Exception	1#201601010 DormAuto1#2											
			-		Dominatio 1#2	Donnaut	1#20				_					_
<b>e</b>	PM008	PM008 - Dorma	16.67													
	PLS003	PLS003 - Produ	100													
<b>e</b>	PLS002	PLS002 - Produ	100													
<b>Z</b>	PLS001	PLS001 - GAAP	100													
	PM002	PM002 - Define														
	CNM09	CNM09 - Layou														
	ACCT010	ACCT010 - War				_	_									
	PM034	PM034 - Produ														

4. Select any of the key to see the difference of its associated attributes in the two environment.

Figure 11–9 Attributes Difference

Note         Account         Back Office < CAAA	BANKING PLATFO				Comparison Details ×				i 🗸 💥 🍬 🔺 OFSSUser 💌			
Drkkips x         Ently K/av         To         Prom           Compare Business Configurations         1									Party 🔻	Payment And Collection 🔻	Term Deposit 👻 Fast Path	
Link         Entry kry         To         Pen           Compare Business Configurations         Arrival         Compares Business Configurations         Compa	OP400	15		View -	View 🔻 🔄 Detach							
Image: Sector Define         Task Code		X		Entity Key	То	From						
Image: Section of the sectin of the section of the section	Compare Bu	siness Configura	ations	ACT#AU	ACT#AU	ACT#AU						
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Image: state content in the				TAS#AU		TAS#AU						
Verv Eport To Excel   Select Tak Code   Tak Code Task Description   Verv COR17   Stak Code Task Description   Verv COR17   Stak Code Stake Code Summary   Verv Stake Stake Stake Name			1									
0           Ver         Epsilt To Excel           Select         Tak Code         Tak Description           Select         Tak Code         Tak Description           P         COR17         COR17 - State Code Summary         Cole           P         PM008         PM008 - Domany Rule Configuration         Image: Configuration         Image: Configuration           P         PL5003         PL5003 - Product Ledger-Branch Parameters         Image: Configuration         Field Key List           P         PL5001         PL5001         PL5002 - Define CASA Bank Pointy         To         From         Field         To           Label Value         To         From         Name         Control Name         Easter Name         Control Name           Revision Capitre         Acctrolito         Acctrolito         Acctrolito         Acctrolito         Acctrolito         Acctrolito Robitation Policy           PM037         PM037 - Domain Calegory Accounting Entry Templated         Permittem         State Sale         Ver         State Sale			1									
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Select     Task Code     Task Code     Task Code     Same       Image: CoR17     COR17 - State Code Summary     Image: Construction       Image: CoR17     COR17 - State Code Summary     Image: Construction       Image: CoR17     PL0000     PL0001 - Domain Code Summary       Image: CoR17     COR17 - State Code Summary     Image: Construction       Image: CoR17     PL0001 - Domain Code Summary     Image: Construction       Image: CoR17     PL0002 - Product Ledger- Branch Parameters     Image: Corport Construction       Image: Corport Corport Construction     PL0001 - QAAP Code Definition     Prom       Image: Corport Corp												
Select     Task Code     Task Code     Task Code     Select	View -	Export To Excel										
Number     Number     Number     Number       Number     Number     Number     Number     Number			Task Description									
Image: Probability of the stands of the s		COR17 COR17 - State Code Summary 2				Field Key	List					
Verv     Index       PL5002     PL5002-Product Ledger-Bank Parameters       Label Value     To		PM008	PM008 - Dormancy Rule Configuration	⊿ Comp	arison Results							
Image: Public	8 .	PLS003	PLS003 - Product Ledger - Branch Parameters	View -	Detach							
PLS001     PLS001 - GAAP Code Definition     Bate Name     Australian Capital     Australian Capital     State state Name       PM002     PM002 - Define CASA Bank Policy       PM002     CMM09 - Layout Resolution Policy     PM002 - Define CASA Bank Policy     PM002 - Define CASA Bank Policy       PM014     ACCT010 - Warning Indicators     PM034 - Product Group Role Mapping     PM034 - Product Group Role Mapping       PM037     PM037 - Domain Cabegory Accounting Entry Template     PM037 - Domain Cabegory Accounting Entry Template	0	PLS002	PLS002 - Product Ledger - Bank Parameters	Label Valu		From						
CNM09     CNM09-Layout Resolution Policy       ACCT010     ACCT010-Warning Indicators       M034     Product Group Role Mapping       M037     Domain: Category Accounting Entry Template		PLS001	PLS001 - GAAP Code Definition	State Nam	Australian Capital	Australian Capital Terri						
ACCT010     ACCT010-Warning Indicators       M034     PM034- Product Group Role Mapping       M037 - Domain Category Accounting Entry Template	8	PM002	PM002 - Define CASA Bank Policy									
PM034     PM034 - Froduct Group Role Mapping       PM037     PM037 - Domain Category Accounting Entry Template		CNM09	CNM09 - Layout Resolution Policy									
PM037 PM037 - Domain Category Accounting Entry Template		ACCT010	ACCT010 - Warning Indicators									
	0	PM034	PM034 - Product Group Role Mapping									
PM032 PM032 PM032 - Product Group Accounting Entry Template		PM037	PM037 - Domain Category Accounting Entry Template									
		PM032	PM032 - Product Group Accounting Entry Template									
PM025 PM025 + Link offers for Principal Ofbot Facility		PM025	PM025 - Link offers for Principal Offset Facility									

## **11.11 Application Configuration**

This section describes the application configuration details.

### 11.11.1 Cache Configuration

Configuration cache is where we cache configuration information (stored in the configuration tables in database or some files) for every application on each server in the farm.

The entire application configuration to be cached is pre-defined in **Preferences.xml**.

Sample entries in Preferences.xml are as below:

#### Preferences.xml

```
<Preferences>
<Nodes>
<Preference name="jdbcpreference"
PreferencesProvider="com.ofss.fc.infra.config.impl.PropertiesFileC
onfigProvider" parent="" propertyFileName="jdbc.properties"
syncTimeInterval="600000" />
<Preference name="ConfigurationVariable"
PreferencesProvider="com.ofss.fc.infra.config.impl.DBBasedProperty
Provider" parent="jdbcpreference" propertyFileName="select prop_id,
prop_value from flx_fw_config_var_b" syncTimeInterval="600000" />
<Preference name="ChannelConstants"
PreferencesProvider="com.ofss.fc.infra.config.impl.JavaConstantsConfigProvider" parent="jdbcpreference"
propertyFileName="com.ofss.fc.common.ChannelConstantsConfiguration"
syncTimeInterval="600000" />
```

Important parameters in preferences.xml are as follows:

- **PreferencesProvider**: DB based provider, File base provider or Java constant base provider.
- propertyFileName: Describes the configuration source. Either sql query, file name or fully qualified Java constant class name.
- syncTimeInterval: Refresh time
- name: Acts as configuration key in the cache
- parent: Enables building the dependency hierarchy
- overriddenBy: This parameter specifies the name of preference which will override the current one.

# **12 Batch Shells in OBP**

This chapter describes the batch shells used in OBP and their execution sequence.

## **12.1 Batch Shells Description**

The following table lists the batch shells along with their detailed description.

Table 12-1	Batch Shell	Descriptions
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SR#	Process Category	Category Description	Shell	Shell Description	Module Code	Description
1	0	Reports Health Check	reports_chk_ shell	Reports Health Check	FW	This is dummy shell. It is used to check whether report framework is ready to process reports and to check if there is any issue on framework or not.
2	1	End of Day	ac_action_ relog_sh	Relog actions on holiday	AC	The actions are logged into the base tables (Module Specific). When there change in calendars, this shell rearranges the pickup dates for all the affected future actions, as per the new calendar dates.
3	1	End of Day	ac_bundle_ fee_shell	Bundle Fee Shell	BN	This shell charges the bundle period fees defined while originating CASA.
4	1	End of Day	bundle_ report_shell	Bundle Reports	BN	This shell generates the various bundle offer related reports.
5	1	End of Day	dd_auto_ statuschange	DDA Auto status change shell	DD	The shell marks the accounts whose last activity date is breached and can be either auto closed or identified for manual closure. Similarly based on last activity date, the account can be auto unclaimed or identified for unclaim that could be unclaimed after taking an operational decision.
6	1	End of Day	ins_quote_ exp_eod	Expire Quote EOD Shell	LM	This shell processes all the Insurance quote's quote status to Expired on quote expiry date.
7	1	End of Day	je_susp_bal_ shell	Journal Entry Suspense Balancing EOD Shell	JE	This shell checks if each of the single entry batches are balanced, and if not it passes a suspense entry into the branch suspense GL under the same branch. It checks for the balancing Branch wise (Contingent/Real) or Period Code wise.
8	1	End of Day	pc_blr_remit_	Biller	PC	This shell does the consolidation biller amount settlement in EOD, for example,

SR#	Process Category	Category Description	Shell	Shell Description	Module Code	Description
			shell	Remittance Shell		selected settlement mode of biller like CASA or GL during biller setup.
9	1	End of Day	pc_value_ date_eod_sh	Value Date EOD Shell	PC	This shell moves the funds from unclear to clear balance, where float of instrument is getting over at EOD. This is the 1st shell that runs post cut off. Value Date Clearing shell is run for 0 Day float items. Hence, it becomes mandatory to run it with the current process date even though cut off has been run. This is taken care of by the Value Date Clearing Shell. As the float realization is derived based on branch dates, the date is always set to the working day of the branch.
10	1	End of Day	pi_srv_ord_ sta_eod	Service Order Deactivation EOD Shell	PI	This shell handles de-activation of Service Orders based on Service Order end date. (US localization specific shell)
11	1	End of Day	py_bank_val_ date_eod	Bank Value Date EOD Shell	ΡY	This shell will intimate the respective account modules (CASA\Loans\TD) on a given Bank Value Date for any valid transaction posted successfully in Payments module. The respective account module will update the Bank Float Balance bucket for the respective accounts on this date which is taken further for interest calculations. The funds are still not available for the customer.
12	1	End of Day	py_regcc_ sch_gen	Reg CC Schedule Generation EOD Shell	PY	This shell will pick the valid transactions posted in Payments module and generate the schedule of fund availability for the respective account (Reg CC capable CASA accounts only) as per the rules defined in the system for Reg CC. (US localization specific shell)
13	1	End of Day	py_regcc_ sch_rel_eod	Reg CC Schedule Release EOD Shell	ΡY	This shell will process only the accounts which follow the RegCC contract in the US localization. This shell will make funds available to the customer as per the generated schedule from "Reg CC Schedule Generation EOD Shell". (US localization specific shell)
14	1	End of Day	dd_inst_ rearrg_sh	DD Instruction Rearrangement For Calender Change	DD	This shell rearranges instruction pickup dates after calendar change for SI and sweep outs.
15	1	End of Day	je_batch_ hist_shell	Journal Entry Batch History EOD Shell	JE	<ul><li>This shell performs the following activities:</li><li>1. Moves the Journal Entries (Single and Multi) details into history.</li></ul>

SR#	Process Category	Category Description	Shell	Shell Description	Module Code	Description
						2. Flushes the Batch codes table (Single and Multi).
						<ol> <li>Drops the Sequences related to the above batch codes which are used to generate the Journal Entry Reference numbers.</li> </ol>
16	1	End of Day	pl_onl_ledg_ bal_upd	Online Ledger Entries Update	AS	This shell updates the GL balance of all the online transactions in the day. If the GL balance is updated using MDB, then there is contention for huge number of entries and hence batch shell to update the GL balance ap_as_gl_bal_update_on
17	1	End of Day	pc_report_ shell	PC Reports	PC	This shell generates Payments and Clearing Reports.
18	1	End of Day	py_cust_val_ date_eod	Customer Value Date EOD Shell	PY	This shell will intimate the respective account modules (CASA\Loans\TD) on a given Customer Value Date for any valid transaction posted successfully in Payments module. The respective account module will make the funds available for the customer on this date. This will process the transactions in EOD.
19	1	End of Day	eod_preval	EOD pre validation Shell	DD	Reprice Failed Accounts Verify. The shell is to cross check if there are still pending accounts, for which repricing was failed. EOD will not start if there are such pending accounts.
20	1	End of Day	pr_price_ changes_eod	Price change action log shell for account opened today	PR	This shell identifies the accounts (which are opened today) eligible for rate and fee changes and logs action for further processing in pr_reprice_acn_eod shell.
21	1	End of Day	pr_reprice_ acn_eod	Reprice Action shell for account opened today	PR	This shell processes accounts (which are opened today) for interest or fee changes happened in the system.
22	1	End of Day	dd_si_eod	DDA Standing Instruction EOD Shell	DD	This shell executes all Standing Instructions that need to be executed for the day, based on holiday processing parameter.
23	1	End of Day	dd_swp_eod_ default	DDA Sweepout Instruction EOD Shell Default Level	DD	Account may be set up to sweep the balance above a certain amount to other CASA or TD account. This is the primary shell where all accounts with priority 1 are executed. This is executed in EOD based on customers preference.

SR#	Process Category	Category Description	Shell	Shell Description	Module Code	Description
24	1	End of Day	dd_swp_eod_ non_def	DDA Sweepout Instruction EOD Shell Non Default Level	DD	This shell behaves same as DDA Sweepout Instruction EOD Shell Default Level. But priority 2 and above sweep out instructions are executed. This is required to divide the priority 1 and priority 2 above to avoid conflicts among accounts.
25	1	End of Day	dd_swp_ hold_remove	SweepIn Hold Removal shell	DD	This shell removes the sweep hold marked during the day.
26	1	End of Day	In_contri_ eod_shell	Loan Contribution EOD Shell	LN	This shell processes customer's Contribution Instruction set at time of Origination.
27	1	End of Day	ac_stl_pyt_ eod_shell	Account Settlement Payout EOD Shell	AC	Thi shell execute settlement pay out instructions that are maintained on CASA & Loan Accounts
28	1	End of Day	td_remove_ swpin_lien	TD Remove Sweep In Shell	TD	During sweep in process, when CASA is short of funds, funds will be taken from TD as provider account by marking lien to TD account. If CASA is not funded before EOD processing, system will remove the lien from TD account and debit TD account.
29	1	End of Day	In_split_eod_ shell	Split Loan Account Opening EOD Shell	LN	Split Loan Account Opening and Disbursement request execution
30	1	End of Day	td_eod_ action	Term Deposit EOD Shell	TD	<ul> <li>This shell logs the following actions:</li> <li>Lien Expiry - mark lien as inactive during EOD process.</li> <li>Back dated Interest computation - For Contract Modification OR Backdated rate Change.</li> <li>Balance Change - Balance change (at time of contact modification) due to Contract</li> <li>Modification, Part Redemption.</li> </ul>

SR#	Process Category	Category Description	Shell	Shell Description	Module Code	Description
						<ul> <li>Interest Capitalization - Interest capitalization to TD.</li> </ul>
						<ul> <li>TD statement generation - Generates TD statements.</li> </ul>
						<ul> <li>Account Closure - Close the TD account due for that day.</li> </ul>
						This shell performs the following actions:
						<ul> <li>Interest Charging</li> </ul>
		End of Day				<ul> <li>Interest Compounding</li> </ul>
						<ul> <li>Interest Cap</li> </ul>
31	1		In_actn_eod_ shell	Loans Action Due EOD Shell	LN	■ Fee Cap
						<ul> <li>Customer Initiated Rollover</li> </ul>
						<ul> <li>Auto Disbursement</li> </ul>
						<ul> <li>Repayment Review (Apply and Generate) also called as periodic reschedule</li> </ul>
32	1	End of Day	td_eod_ report_shell	TD EOD Reports	TD	This shell generates TD related reports in EOD.
33	1	End of Day	In_actn_ post_eod_sh	Loan Post Action Due EOD Shell	LN	When a backdated index change is done and as part of the processing in EOD, it fails due to a proper business reason (funds not there or beyond redraw) as part of the replay process, the backdated rate change is skipped. Subsequently, when a payment happens on the account action for retrying the backdated rate change is logged on the account which gets picked up in Loan Post Action Due EOD Shell. It will get picked up if the action date happens to be a holiday.
34	1	End of Day	dd_prdc_fee_ shell	Demand Deposit Periodic Fee EOD Shell	DD	All periodic fees that applicable to CASA will be applied in EOD. For example, account keeping fees or debit card annual fees. Once SI is complete, the charges that need to be levied are available and this is then executed for all accounts, based on holiday processing parameter.
35	1	End of Day	In_report_ shell	Loan Reports	LN	Loan Related Reports
36	1	End of Day	dd_rev_swp_	Processing of	DD	This shell reverses any extra funds available in CASA account which is fetched

SR#	Process Category	Category Description	Shell	Shell Description	Module Code	Description
			eod	Reverse Sweep		during online sweep-in.
37	1	End of Day	ins_eod_ action	Insurance EOD Shell	LM	This shell is used for insurance expiry alerts. Customer gets the notification about expired insurances.
						Amortization of fees - Guided by holiday processing logic This shell runs actions of non-alternate and non-OD accounts and actions, except interest related, for non-alternate OD and non-OD accounts with alternate account. All transactions on alternate account are done before their EOD actions are performed. Interest related actions on OD accounts are performed in a separate shell as proportionate OD calculations are done after balance freeze (Proportionate OD calculation logic needs to be specified/doc linked). Following actions are performed as per holiday processing parameter:
		End of Day	dd_eod_ action1	Demand Deposit EOD Shell Non Alternate	DD	<ul> <li>Execute any applicable rate changes (batch based) for the account. Holiday treatment: Next Working Day</li> </ul>
						<ul> <li>Based on the cheques under clearing if there are any advance under unclear funds that need update that function is executed. Holiday treatment: Next Working Day</li> </ul>
38	1					<ul> <li>Computation of Minimum Average Balance. Holiday treatment: Next Working Day</li> </ul>
						<ul> <li>Balance Change Action: After making adjustments for balances, system executes an interest computation action (Done in Interest Module). These snapshot balances are used to compute interest and also form the basis for the future audits and rebuild of balances when the back dated transactions are done. This is done only for accounts which are not OD.</li> </ul>
						<ul> <li>Credit and Debit Interest Settlement - All cases where capitalization of interest needs to be executed, are picked up and processed. Interest adjustment for back dated transactions happen. It is run for non-OD accounts. Holiday treatment: obtained from IRD.</li> </ul>
						<ul> <li>Product based events log for alerts and outbound documentation. Holiday treatment: Next Working Day</li> </ul>

SR#	Process Category	Category Description	Shell	Shell Description	Module Code	Description
						<ul> <li>Statement generation. Holiday treatment: Next Working Day</li> </ul>
						<ul> <li>All status checks and updates are done such as inactivity, unclaimed, dormancy. Holiday treatment: Next Working Day</li> </ul>
						<ul> <li>Reward Credit action is performed. Holiday treatment: Next Working Day</li> </ul>
						<ul> <li>Offset linkage/expiry action is performed for both offset account and alternate account. Holiday treatment: Next Working Day</li> </ul>
39	1	End of Day	dd_eod_ action2	Demand Deposit EOD Shell Alternate	DD	This shell is run for all actions of accounts which are alternates and all actions except interest related actions for accounts which are alternate with OD facility. It will run the same set of actions as the shell above, based on holiday processing parameter.
40	1	End of Day	dd_eod_in_ adjst	Demand Deposit Interest Adjustment shell	DD	This shell does Proportionate OD calculation and Offset balances calculation.
41	1	End of Day	dd_eod_ action3	Demand Deposit EOD Shell Alternate OD	DD	<ul> <li>This shell is run for interest related actions of alternate accounts which are OD. Following actions are performed based on holiday processing parameter:</li> <li>Proportionate OD action: Calculation and stamping of proportionate OD and OL utilization. This action is done on any balance change on accounts which share the same facility.</li> <li>Offset interest benefit: calculation of total offset balance for a beneficiary account. This action will be done on balance change on any of the offset accounts.</li> <li>Intimate interest for computation: After the above two actions are executed, interest will be intimated for computation.</li> <li>Credit and Debit Interest Settlement: All cases where capitalization of interest needs to be executed are picked up and processed. Interest adjustment for back dated transactions happens. This is run for accounts which are OD.</li> </ul>

SR#	Process Category	Category Description	Shell	Shell Description	Module Code	Description
						<ul> <li>Statement generation</li> </ul>
42	1	End of Day	dd_eod_ action4	Demand Deposit EOD Shell Non Alternate OD	DD	This shell is run for interest related actions for non-alternate accounts which have OD and for non-OD accounts that have alternate. It runs the set of actions as the above shell, based on holiday processing parameter.
43	1	End of Day	lm_market_ reval	Market Revaluation Shell	LM	This shell revaluates the Collaterals as per current market values.
44	1	End of Day	lm_util_reval	Utilization Revaluation	LM	If the utilization of the credit facility is done in a currency which is not the same as its currency, then revaluation process will be triggered as part of the End of the Day process.
45	1	End of Day	lm_batch_p_ eod_shell	LCM EOD Pre Processor	LM	This shell is used to form a group of Icm eod actions for processing in multi streams.
46	1	End of Day	lm_batch_ eod_shell	Limits And Collaterals Batch	LM	Credit Facility Review: Credit Facility can be subjected to review based on the parameters set during the creation of the facility. On the review date, the facility is submitted to the rule engine for processing. The rule ID is maintained as part of the facility category. On successful completion the next review date, facility conduct is updated on the credit facility. Credit Facility Earmarking Expiry: LCM system provides an option to block/earmark the credit facility for a certain amount. This amount will not contribute towards the available amount of the facility. On the start date, the amount has to be moved into the earmarked amount column which will ensure that the amount will not be utilized. A reinstatement of the earmarked amount is to be done on the earmark expiry date. Credit Facility Transfer Expiry: LCM system provides option of transfer of the available amount of the facility. The facility transfer is bound by a start and end date. On the facility transfer expiry date, the transfer amount needs to be reinstated to the facility. This is handled in the batch. Facility Amount Schedule Processing: System provides an option define the facility amount in schedules. The amount sored is the effective amount. On the start date, the effective amount maintained will become the effective Limit of the facility. On the end date, the amount will be removed and the new limit amount will be calculated.

SR#	Process Category	Category Description	Shell	Shell Description	Module Code	Description
						Credit Facility Availment Expiry Date: The credit facility created is expected to be utilized within a particular date. For example, first drawdown of the loan has to be done before the Availment expiry date. In case it is not done, the facility will be made unavailable. Facility Expiry Date Processing: The facility being created can have an expiry date. On the expiry date of the facility, system is expected to make the facility unavailable for further utilization.
47	1	End of Day	dd_eod_ action5	Demand Deposit EOD Shell Linkage Expiry	DD	This shell handles offset expiry actions.
48	1	End of Day	In_intrst_ comp_shell	Loan Interest Computation EOD Shell	LN	This shell does Interest Computation (balance change).
49	1	End of Day	In_stmt_log_ shell	Loan Statement logging Shell	LN	Statement Item generation based on frequency maintained at the product level Records from the last statement generation date to current date is copied to Statement Item. Statement Generation is not done in this shell. Data is copied from Loan Financial Statement to Statement Item.
50	1	End of Day	ac_bundle_ exp_poller	Bundle Expiry Poller Shell	BN	This shell maintains Track Bundle expiry.
51	1	End of Day	dd_eod_ offset_int	Demand Deposit Offset Interest EOD Shell	DD	The shell calculates and credits interest, if eligible for offset saving accounts. Based on priority, if there are offset accounts whose balance is not used to offset loan or overdraft account, then the unused balance gets the credit interest.
52	1	End of Day	np_eod_acion	Asset Classification EOD action	NP	This shell processes all EOD actions of Asset Classification module using action framework.
53	1	End of Day	ch_eod_ report_shell	CASA EOD Reports	СН	This shell generates CASA related batch reports.
54	1	End of Day	np_account_ classify	Account Level Asset Classification	NP	This is the first and mandatory shell for asset classification which processes all the Loan, CASA, and OD accounts which are due for classification as per the current processing date. The process derives the expected classification code using the

SR#	Process Category	Category Description	Shell	Shell Description	Module Code	Description
						rule setup on the product class. The rule is based on arrears information received from the module along with other information like limit expiry, TOD or overline. Based on the classification code details, it will be arrived at whether the classification has to be Manual or Automatic. In case of Manual classification, the expected classification code is stamped and the process continues with the next account. In case of Automatic classification, the expected classification code and actual classification code will be stamped the same. Necessary accounting entries will be passed for Normal to Suspended or Suspended to Normal movements. The new classification code, classification status (Normal or Suspended) and clawback details (only in case of forward movement) will be sent to Loan/CASA/OD module. Customer alerts will be generated as required.
55	1	End of Day	np_party_ classify	Party Level Asset Classification	NP	This shell runs immediately after account shell, if the asset classification applicability level is Party. This process first determines the worst classification of the party by comparing the expected code of all accounts under the party that have been classified today and actual code of the remaining accounts under the party. Based on the classification code details, it will be arrived at whether the classification has to be Manual or Automatic. In case of Manual classification, the worst classification code will be stamped as the expected classification code of the party and the same will be propagated as the expected code of all accounts under the party, and the process continues with the next party. In case of Automatic classification, the worst classification code will be stamped as the expected classification code and actual classification code of the party. The same will be propagated as the expected classification code of all accounts under the party. For each account under the party, necessary accounting entries will be passed for Normal to Suspended or Suspended to Normal movements. The new classification code, classification status (Normal or Suspended) and clawback details (only in case of forward movement) will be sent to Loan/CASA/OD module. Customer alerts will be generated as required.
56	1	End of Day	np_facility_ classify	Facility Level Asset Classification	NP	This shell runs immediately after account shell, if the asset classification applicability level is Facility. This process first determines the worst classification of the facility by comparing the expected code returned from the facility rule, the expected code of all accounts under the facility that have been classified today and actual code of the remaining accounts under the facility. Based on the classification code details, it will be arrived at whether the classification has to be Manual or Automatic. In case of Manual classification, the worst classification code will be stamped as the expected classification code of the facility and the

SR#	Process Category	Category Description	Shell	Shell Description	Module Code	Description
						same is propagated as the expected code of all accounts under the facility, and the process continues with the next facility. In case of Automatic classification, the worst classification code will be stamped as the expected classification code and actual classification code of the facility. The same is propagated as the expected classification code and actual classification code of all accounts under the facility. For each account under the facility, necessary accounting entries will be passed for Normal to Suspended or Suspended to Normal movements. The new classification code, classification status (Normal or Suspended) and clawback details (only in case of forward movement) will be sent to Loan/CASA/OD module. Customer alerts will be generated as required.
57	1	End of Day	eod_report_ shell	EOD Reports	AL	This shell generates reports in EOD.
58	1	End of Day	as_eod_ check	Accounting Verification	AS	This shell ensures that the Accounting events raised for the day are processed and all the balances updated. It also verifies whether the system is balanced (Credits and Debits match) for certain criteria for all the accounting entries raised and also for the period balance update.
59	1	End of Day	eod_epilogue	EOD Epilogue	EO	This shell waits for all the reports to be generated and changes the Process date.
60	2	Beginning of Day	ac_bod_bn_ fee_shell	BOD Bundle Fee Shell	BN	This shell processes the subscription and maintenance fees.
61	2	Beginning of Day	as_untank_ adjustment	Untanking Adjustment Posting	AS	The shell is used to process Untanking Adjustment entries during the batch.
62	2	Beginning of Day	ins_bod_ action	Insurance BOD Shell	LM	This shell is responsible for renewing the premium of CCI policy for next review period. If CCI is loan funded, then next review premium is charged on the nominated loan or OD account.
63	2	Beginning of Day	lz_pi_child_ exmpt_sh	Exemption code BOD shell	PI	The shell is used to automatically update the Identification Type to TFN and Identification value to NO TFN of a party (onboarded as child) when the party turns 17 years. (Australia localization specific shell)
64	2	Beginning of Day	pc_business_ transfr	Business Transfer Periodic	PC	Business Transfer SI Execution Shell

SR#	Process Category	Category Description	Shell	Shell Description	Module Code	Description
				Execution BOD Shell		
65	2	Beginning of Day	pc_value_ date_shell	Value Date BOD Shell	PC	This shell moves the funds from unclear to clear balance, where float of instrument is getting over at BOD. Value Date Clearing shell in BOD is run for more than 0 day float items. Hence it becomes mandatory to run this with the current process date, even though cut off has been run. This is taken care of by the Value Date Clearing Shell. As the float realization will be derived based on branch dates, the date will be always set to the working day of the branch.
66	2	Beginning of Day	pi_srv_ord_ sta_bod	Service Order Activation BOD Shell	PI	This shell handles activation of Service Orders based on Service Order start date. (US localization specific shell)
67	2	Beginning of Day	py_auto_ credit_bod	Payments Auto Credit Run BOD Shell	ΡY	This shell processes records for outward collection transactions and intimate the respective modules (CASA/LOANS) on customer value date configured in the Bank Float Definition. This shell is effective only if the Bank Float Definition is configured to not wait for network settlement in case of non-unclear balance method treatment.
68	2	Beginning of Day	py_cust_val_ date_bod	Customer Value Date BOD Shell	PY	This shell will intimate the respective account modules (CASA\Loans\TD) on a given Customer Value Date for any valid transaction successfully posted in Payments module. The respective account module will make the funds available for the customer on this date. This will process the transactions in BOD.
69	2	Beginning of Day	py_regcc_ sch_rel_bod	Reg CC Schedule Release BOD Shell	PY	This shell will intimate the account module (Reg CC capable CASA accounts only) with fund value that has to be made available for the customer on this date as per the schedule generated in Reg CC Schedule Generation EOD Shell for the respective accounts. (US localization specific shell)
70	2	Beginning of Day	as_untank_ bod_shell	Accounting Un- tanking Shell	AS	This shell is used to un-tank the accounting entries during batch process. Online Transactions during EOD do not process accounting entries but are tanked. This shell processes accounting of the tanked records.
71	2	Beginning of Day	lm_batch_p_ bod_shell	LCM BOD Pre Processor	LM	This shell is used to form a group of Icm bod actions for processing in multi streams.
72	2	Beginning of Day	pc_activ_ date_shell	Activation Date BOD Shell	PC	This shell takes the data of those transacation which are getting activated for processing for that day. For e.g- transcation like Outward collection, flat extended

SR#	Process Category	Category Description	Shell	Shell Description	Module Code	Description
						inward and outward clearing, future dated outgoing payments etc
73	2	Beginning of Day	lm_batch_ bod_shell	Limits Bod Batch	LM	Same as Limits And Collaterals Batch shell in EOD Category
						This shell logs the following actions:
						<ul> <li>Maturity Processing - Maturity proceeds till yesterday will be credited to chosen settlement mode.</li> </ul>
74	2	Beginning of Day	td_bod_ action	Term Deposit BOD Shell	TD	<ul> <li>Future dated Redemption - Process the future dated redemption request due for that day.</li> </ul>
						<ul> <li>Interest Payout - Interest payout to settlement mode.</li> </ul>
						<ul> <li>Unclaim Processing - Movement of Unclaim TD to Unclaim GL.</li> </ul>
75	2	Beginning of Day	In_post_ trans_bod	Loan Transaction BOD shell	LN	This shell processes all the transactions done after cutoff is run.
76	2	Beginning of Day	td_bod_ report_shell	TD BOD Reports	TD	This shell generates TD related reports in BOD.
77	2	Beginning of Day	In_contri_ bod_shell	Loan Contribution BOD Shell	LN	This shell processes customer's Contribution Instruction set at time of Origination.
						This shell runs in BOD before other CASA shells in BOD. It handles the following actions:
78	2	Beginning of	dd_bod_ action	Demand Deposit BOD	DD	<ul> <li>Earmark expiry. Holiday treatment: Next Working Day</li> </ul>
		Day	action	Shell		<ul> <li>OD linkage action. Holiday treatment: Next Working Day</li> </ul>
						<ul> <li>Offset account linkage action. Holiday treatment: Next Working Day</li> </ul>
79	2	Beginning of Day	dd_bod_in_ adjst	Demand Deposit BOD Interest Adjustment	DD	In case of OD, if facility is shared, the shell proportionates the utilized amount among all the stake holders.

SR#	Process Category	Category Description	Shell	Shell Description	Module Code	Description
				shell		
80	2	Beginning of Day	dd_si_bod	DDA Standing Instruction BOD Shell	DD	This shell executes all Standing Instructions that need to be executed for the day - Based on holiday processing parameter
81	2	Beginning of Day	dd_swp_bod_ default	DDA Sweepout Instruction BOD Shell Default Level	DD	Account may be set up to sweep the balance above a certain amount to other CASA or TD account. This is the primary shell where all accounts with priority 1 are executed. This is executed in BOD based on customer's preference.
82	2	Beginning of Day	dd_swp_bod_ non_def	DDA Sweepout Instruction BOD Shell Non Default Level	DD	This shell behaves same as DDA Sweepout Instruction BOD Shell Default Level. But priority 2 and above sweep out instructions are executed. This is required to divide the priority 1 and priority 2 and above to avoid conflicts among accounts.
83	2	Beginning of Day	ac_stl_pyt_ bod_shell	Account Settlement Payout BOD Shell	AC	This shell executes settlement pay out instructions that are maintained on CASA and Loan Accounts.
84	2	Beginning of Day	In_split_bod_ shell	Split Loan Account Opening BOD Shell	LN	Split Loan Account Opening and Disbursement request execution - Guided by holiday processing logic
						This shell does the following actions:
						<ul> <li>Interest Charging</li> </ul>
						<ul> <li>Interest Compounding</li> </ul>
85	2	Beginning of Day	In_actn_bod_ shell	Loan Action due BOD shell	LN	<ul> <li>Interest Cap</li> </ul>
		-				■ Fee Cap
						<ul> <li>Customer Initiated Rollover</li> </ul>
						<ul> <li>Auto Disbursement - Guided by holiday processing logic</li> </ul>

SR#	Process Category	Category Description	Shell	Shell Description	Module Code	Description			
						<ul> <li>Repayment Review (Apply and Generate) also called as periodic reschedule - Guided by holiday processing logic</li> </ul>			
						<ul> <li>Backdated PPF - These transactions will get processed as a part of host EOD.</li> </ul>			
						<ul> <li>Back dated installment - These transactions will get processed as a part of host EOD.</li> </ul>			
86	2	Beginning of Day	ln_actn_ post_bod_sh	Loan Post Action due BOD shell	LN	When a backdated index change is done and as part of the processing in EOD, it fails due to a proper business reason (funds not there or beyond redraw) as part of the replay process, the backdated rate change is skipped. Subsequently, when a payment happens on the account, action for retrying the backdated rate change is logged on the account which gets picked up in Loan Post Action Due BOD Shell.			
87	2	Beginning of Day	ch_bod_ report_shell	CASA BOD Reports	СН	This shell generates CASA Reports in BOD.			
88	2	Beginning of Day	bod_report_ shell	BOD Reports	AL	This shell generates reports.			
89	2	Beginning of Day	bod_epilogue	BOD Epilogue	EO	This shell waits for all the reports to be generated.			
90	3	Cut Off	co_cutoff_ prologue	Cutoff Prologue	СО	This shell is used to indicate that the cut off has been started by setting the flg_ cutoff_run_today in flx_cs_branch_dates_b to 'Y'. (This flag is set back to 'N' at the end of the EOD category.)			
91	12	FSDF master data hand-off	handoff_ initialise	Analytics Hand-Off Initialisation Shell	DI	This shell initializes the start time of CSA (Common staging area) data handoff time frame.			
92	12	FSDF master data hand-off	handoff_shell	Analytics Hand-Off Shell	DI	This shell initiates all ODI scenario execution defined in FLX_DI_ETL_JOB_ DEFINITION table.			
93	12	FSDF master data hand-off	epilogue_ shell	Analytics epilogue Shell	DI	This shell checks all running ODI scenario execution status. If any error occurs, the scenario execution is restarted after resolve.			
94	13	FSDF EOD	handoff_shell	Analytics	DI	This shell initiates all ODI scenario execution defined in FLX_DI_ETL_JOB_			

SR#	Process Category	Category Description	Shell	Shell Description	Module Code	Description			
		data hand-off		Hand-Off Shell		DEFINITION table.			
95	13	FSDF EOD data hand-off	epilogue_ shell	Analytics epilogue Shell	DI	This shell checks all running ODI scenario execution status. If any error occurs, the scenario execution is restarted after resolve.			
96	14	FSDF Txn data Hand-off	handoff_shell	Analytics Hand-Off Shell	DI	This shell initiates all ODI scenario execution defined in FLX_DI_ETL_JOB_ DEFINITION table.			
97	14	FSDF Txn data Hand-off	epilogue_ shell	Analytics epilogue Shell	DI	This shell checks all running ODI scenario execution status. If any error occurs, the scenario execution is restarted after resolve.			
98	15	Analytics Batch Data Hand-off	handoff_ initialise	Analytics Hand-Off Initialisation Shell	DI	This shell initializes the start time of CSA (Common staging area) data handoff time frame.			
99	15	Analytics Batch Data Hand-off	handoff_shell	Analytics Hand-Off Shell	DI	This shell initiates all ODI scenario execution defined in FLX_DI_ETL_JOB_ DEFINITION table.			
100	15	Analytics Batch Data Hand-off	epilogue_ shell	Analytics epilogue Shell	DI	This shell checks all running ODI scenario execution status. If any error occurs, the scenario execution is restarted after resolve.			
101	16	Internal System EOD	ac_actn_ ieod_shell	Account Action Internal EOD Shell	LN	This shell processes all Internal EOD actions of Account module using action framework.			
102	16	Internal System EOD	interest_eod_ action	Interest Shell	IN	<ul> <li>This shell does following activities:</li> <li>Interest Accrual Process: When interest accrual is done, system raises events for the current working day, even though the cut off has been executed. This is required to enable posting of transaction on the current date and not for the next working day. It looks up at the host date.</li> <li>Interest Capitalization: Based on holiday processing logic.</li> <li>Interest Compounding: Based on holiday processing parameter.</li> <li>Related tax events for any of the above functions, as configured, based or</li> </ul>			

SR#	Process Category	Category Description	Shell	Shell Description	Module Code	Description			
						holiday processing parameter.			
103	16	Internal System EOD	lending_acct_ stat	Lending Account Statistics Shell	AC	This shell is responsible for recording data required for reporting purposes of a Loan and LOC account. Delinquency, account status, arrears of an account are populated which is further extracted for reporting purposes.			
104	16	Internal System EOD	pi_eod_shell	Party EOD Shell	PI	This shell is used to process the Party Due Diligence Expiry if the Expiry date is a holiday.			
						There are certain checks and validations that are done as part of the Accounting in the EOD framework. These checks ensure that the system has balanced accounting entries, correct ledger balances and system account balances. Some of the checks are listed below:			
	16	Internal	as batch	Accounting batch		<ul> <li>Ensure that all the accounting events raised for the day are processed.</li> </ul>			
105		System EOD	verify	Verification Shell	AS	<ul> <li>Ensure that all the accounting entries generated for the day are updated for the ledger and system account balances.</li> </ul>			
						<ul> <li>Ensure that the accounting entries raised for the day are balanced. The balancing has to be branch wise and not group wise.</li> </ul>			
						<ul> <li>Ensure that period balances for ledger and system account are balanced.</li> </ul>			
106	16	Internal System EOD	pl_ledg_bal_ upd	Deferred Ledger Balance Update	AS	For all the events raised during the batch process, the ledger balances will not be updated near online (no messages will be put into the Balance queue for processing). The ledger balances for such events will be Deferred and the balance will be updated through a procedure in the Internal EOD and as part of BOD (last batch in BOD). This is done to ensure that there is no lock on the ledgers when the balance update happens. (Scenario: when most of the accounts are mapped to the same product and hence update the same GL.)			
107	16	Internal System EOD	pl_sdeadjmt_ eod_shel	SDE Adjustment Shell	AS	This shell is used to adjust the system account balances if there are any change in the account, party and product attributes.			
108	16	Internal System EOD	as_verify_ prereval	Accounting batch Pre Revaluatiom Verify Shell	AS	<ul> <li>Some of the checks that are done are listed below:</li> <li>Ensure that all the accounting events raised for the day are processed.</li> </ul>			

SR#	Process Category	Category Description	Shell	Shell Description	Module Code	Description			
						<ul> <li>Ensure that all the accounting entries generated for the day are updated for the ledger and system account balances.</li> </ul>			
						<ul> <li>Ensure that the accounting entries raised for the day are balanced. The balancing has to be branch wise and not group wise.</li> </ul>			
						<ul> <li>Ensure that period balances for ledger and system account are balanced.</li> </ul>			
109	16	Internal System EOD	pl_reval_eod_ shell	Revaluation Shell	AS	Ledgers whose balances are maintained in the Foreign Currency will be revalued (i required) based on a specific Reval Rate. This is done when all the batch transactions are completed in the OBP system, since the current/closing balance of the ledgers are used for this purpose.			
110	16	Internal System EOD	as_verify_ prefinclsr	Accounting batch Pre Fin Closure Verify Shell	AS	Same as per accounting verification.			
111	16	Internal System EOD	pl_fin_period_ shell	Balance FIN Period Creation Shell	AS	It creates the system period FIN whenever applicable.			
112	16	Internal System EOD	pl_finclose_ eod_shel	Financial Closure Shell	AS	When the financial cycle changes, the system has to calculate the Profit/Loss for the current financial year and has to post to the Profit/Loss ledgers maintained. This will include the zeroization of the Income/Expense Ledgers and posting the profit or loss to the Profit/Loss Accounts maintained. This operation is done on the system period code FIN. All the accounting entries created for this purpose are posted in the FIN period.			
113	16	Internal System EOD	as_verify_ prerptglns	Accounting batch Pre Reporting Lines Verify Shell	AS	Same as per accounting verification			
114	16	Internal System EOD	pl_rptglns_ eod_shell	ReportingLines Shell	AS	If the bank requires Central Bank and Head Office Reporting system obtains the rule code maintained for the ledger, derives the Reporting GL and creates balances for the Reporting ledger.			
115	16	Internal	as_verify_	Accounting	AS	There are certain checks and validations that are done as part of the Accounting in			

SR#	Process Category	Category Description	Shell	Shell Description	Module Code	Description		
						the EOD framework. These validations are to ensure that the system has balanced accounting entries, correct ledger balances and system account balances. Some of the checks are listed below:		
						<ul> <li>Ensure that all the accounting events raised for the day are processed.</li> </ul>		
	System EC	System EOD	prearchiv	batch Pre Archive Verify		<ul> <li>Ensure that all the accounting entries generated for the day are updated for the ledger and system account balances.</li> </ul>		
				Shell		<ul> <li>Ensure that the accounting entries raised for the day are balanced. The balancing has to be branch wise and not group wise.</li> </ul>		
						<ul> <li>Ensure that period balances for ledger and system account are balanced.</li> </ul>		
						All the checks are with respect to each account branch and not branch group.		
116	16	Internal System EOD	pl_intr_eod_ rep_shel	PL Internal EOD Report Shell	PL	This shell generates Ledger related reports in EOD.		
117	16	Internal System EOD	pl_balance_ history	Periodic PL balance history	PL	This shell archives GL Period balances.		
118	16	Internal System EOD	pl_period_ bod_shell	Balance Period Creation Shell	AS	If there is a period change, then the system moves the period balances of the last month to the current month. The opening balances are updated and the movements for the current period is set to 0. The period balance update and the working of this shell are tightly coupled.		
119	16	Internal System EOD	int_eod_ report_shell	Internal EOD Reports	AL	This shell generates Reports during Internal system EOD.		
120	16	Internal System EOD	int_eod_ epilogue	Int EOD Epilogue	EO	This shell waits for all the reports to be generated.		
121	18	Clearing	pc_rej_ reproc_shell	Scan Reject Reprocess Shell	PC	This shell reprocesses Reject Items.		
122	18	Clearing	pc_scn_pas_ plr_shell	Scan Pass Poller Shell	PC	Honored Items Poller		

SR#	Process Category	Category Description	Shell	Shell Description	Module Code	Description			
123	18	Clearing	pc_oc_ return_shell	Outgoing Clearing Return Shell	PC	OC Return Shell			
124	17	Sales Offer Handoff	pm_sales_ offer_hoff	Sales Offer Handoff Shell	РМ				
125	17	Sales Offer Handoff	handoff_shell	Analytics Hand-Off Shell	DI	This shell initiates all ODI scenario execution defined in FLX_DI_ETL_JOB_ DEFINITION table.			
126	17	Sales Offer Handoff	epilogue_ shell	Analytics epilogue Shell	DI	This shell checks all running ODI scenario execution status. If any error occurs, the scenario execution is restarted after resolve.			
127	19	CMD Hand- off	cmd_ handoff_shell	CMD Hand-Off Shell	DI	This shell initiates ODI task for Datamart population for Credit Monitor Dashboard			
128	19	CMD Hand- off	cmd_ epilogue_ shell	CMD epilogue Shell	DI	This shell monitors and allows for restart of ODI task for Datamart population for Credit Monitor Dashboard.			
129	23	Global Float	pc_glb_flt_ ext_shell	Global Float Extension Shell	PC	Global Float Extension			
130	30	Scan Payment Queue Process	pc_scn_rej_ plr_shell	Scan Reject Poller Shell	PC	Rejected Items Poller			
131	63	Business Transfer	pc_b_colln_ cdt_shell	Business Collection Credit Shell	PC	Business Collection Credit			
132	63	Business Transfer	pc_b_pymt_ dbt_shell	Business Payment Debit Shell	PC	Business Payment Debit			
133	63	Business Transfer	pc_b_colln_ dbt_shell	Business Collection Debit Shell	PC	Business Collection Debit			

SR#	Process Category	Category Description	Shell	Shell Description	Module Code	Description			
134	63	Business Transfer	pc_b_pymt_ cdt_shell	Business Payment Credit Shell	PC	Business Payment Credit			
135	69	mdm_Publish	mdm_ publish_shell	mdm Publish	IN	<ul> <li>This shell publishes to OCH following status updates taken place during EOD:</li> <li>Account closures during batch execution</li> <li>Account opening during batch execution</li> <li>KYC updates during batch execution</li> </ul>			
136	100	Health Check	health_chk_ shell	Health Checkup Shell	FW	This is dummy shell. It is used to check whether framework is ready to process batch and to check if there is any issue on framework or not.			
137	100	Health Check	excep_ pending_shell	Batch Exceptions Pending Check Shell	FW	This shell will check in exception log for all unprocessed records which marked as deferred. If any record is found, then this shell will be marked as aborted as there are still pending exception record available.			
138	102	Analytics Result Upload	rslt_handoff_ shell	Analytics Result Upload Shell	DI	This shell initiates OFSAA LLFP result area data upload scenario execution.			
139	102	Analytics Result Upload	rslt_epilogue_ shell	Analytics Result Upload Epilogue Shell	DI	This shell checks OFSAA LLFP result area data upload scenario execution status. If any error occurs, the scenario execution is restarted after resolve.			
140	117	Housekeeping	ac_arrear_ history	Arrear history shell.	AC	This shell moves the details from FLX_AC_ARREAR_DETAILS_B to FLX_AC_ ARREAR_DETAILS_H.			
141	117	Housekeeping	ac_casa_ housekeeping	CASA housekeeping shell.	AC	This shell updates the account statistics by moving the details to history in last day of the month.			
142	117	Housekeeping	ac_stl_alrt_ scdl	Procssing of Frequency based Alerts	DD	This shell executes the recurring alerts.			
143	117	Housekeeping	acct_benefit_ shell	Account Benefit Shell	AC	This shell calculates amount benefited due to offset account.			

SR#	Process Category	Category Description	Shell	Shell Description	Module Code	Description			
144	117	Housekeeping	as_hist_log_ eod_shel	Accounting Transaction History Log Shell	AS	This shell archives accounting events and accounting entries into history table.			
145	117	Housekeeping	ba_purge_ shell_proc	Procedure based Purge shell to be run during Housekeeping	DD	This procedure based shell purges data with desired retention policy at configured purge frequency. This shell works on purge configuration (seed data) that stores purge related configuration like when to purge, how much data to retain, at what frequency, any additional where clause if any, whether or not to move data to history table, etc.			
146	117	Housekeeping	bd_ unclaimed_ shell	Bank Darft unclaimed shell	PC	The bank draft which has breached unclaimed period, is picked up and marked the instrument status as Unclaimed.			
147	117	Housekeeping	da_event_h_ eod_shel	Accounting Event History Shell	AS	This shell archives accounting events and accounting entries into history table.			
148	117	Housekeeping	dd_hsk_ actions	Processing of House Keeping shell	DD	This shell logs periodic alerts and maintain counters for CASA account.			
149	117	Housekeeping	lm_auto_ closur_shell	Facility Auto Closure Shell	LM	For non revolving facilities, auto closure will be done and all the records are picked up for processing in this shell.			
150	117	Housekeeping	lm_exp_ track_shell	Exposure Tracking Shell	LM	The exposures for the bank is tracked across the dimensions party and account. LCM tracks all the exposure of the transaction based on the facts that are created for the account and party. The exposure values are calculated and shown across each fact values. For example, the bank might require to track the exposure under different currency. The account fact is defined as the currency code and each transaction in the system will be tracked against the account currency and the exposures are calculated under each different currency.			
151	117	Housekeeping	lm_insider_ exp	Insider Exposure Tracking Shell	LM	This shell calculates the exposure of an insider. This data will be used while creating/amending the facility to check the total exposure of an insider for breach calculation.			
152	117	Housekeeping	In_adv_alert_ shell	Loan Advance Alert Action	LN	This shell sends alerts based on Lead and Lag Days defined at product levels.			

SR#	Process Category	Category Description	Shell	Shell Description	Module Code	Description			
				BOD Shell					
153	117	Housekeeping	move_drv_ table_data	Move driver table data to History table	DD	This shell moves Driver table data into History Table.			
154	117	Housekeeping	np_prvsn_ updt_shell	Account Level Provision Update	NP	This shell is used for Account Level Provision Update.			
155	117	Housekeeping	or_sub_exp_ shell	Submission EOD Expiry Shell	OR	This shell expires the submission IDs which have breached the defined submission period.			
156	117	Housekeeping	pi_bod_shell	Party BOD Shell	PI	This shell is used to process the Party Due Diligence Expiry if it falls on a working day. This shell also updates the future party address getting active on this day. It updates such addresses to be current and marks the previous current address as past.			
157	117	Housekeeping	td_stmt_gen_ shell	TD Statement Generation Shell	TD	This shell generates TD statements.			
158	117	Housekeeping	In_stmt_gen_ shell	Loan Statement Generation EOD Shell	LN	This shell generates all the loan account statements.			
159	117	Housekeeping	dd_stmt_ gen_shell	CASA Statement Generation Shell	DD	This shell generates CASA statements.			
160	117	Housekeeping	ac_pop_ domain_ind	Domain index tables populate shell	AC	This shell populates the domain index table, which is used for Oracle text search.			
161	120	Alert Generation	ep_ generation_ shell	Alert generation Shell	DI	All pending alert requests is picked and processed. If the status of the alert is generated state, it means processing is pending for the alerts. This shell picks the alerts which are less than current date.			

SR#	Process Category	Category Description	Shell	Shell Description	Module Code	Description			
162	125	Adhoc Scheduler Online	as_online_ ledg_upd	Online Ledger Balance Update Shell	AS	This shell handles the Ledger balance posting of online accounting entries.			
163	125	Adhoc Scheduler Online	dd_acct_ online	Adhoc action shell for CASA	DD				
164	125	Adhoc Scheduler Online	dd_si_online	DDA No Retry Standing Instruction Online Shell	DD				
165	127	Human Task Action	wf_task_ resume_shell	Human Task Resume Shell	WF				
166	247	Reprice	pr_acrl_ batch_shell	Price Accrual Batch Shell	PR	This shell identifies accounts and performs fee accrual.			
167	247	Reprice	pr_price_ changes	Price change log online shell	PR	This shell identifies the accounts (which are not opened today) eligible for rate and fee changes and logs action for further processing in pr_reprice_action shell.			
168	247	Reprice	pr_reprice_ action	Reprice action online Shell	PR	This shell processes accounts (which are not opened today) for interest or fee changes happened in the system.			

## **12.2 Batch Shells Execution Sequence**

The following table presents the execution sequence of the batch shells.

## Table 12–2 Shell Execution Sequence

SR#	Process Category	Category Description	Category Significance	Shell Execution Sequence	Shell	Shell Description	Module Code	Required Shells	Required Shell Description
1	0	Reports Health Check	Optional	1	reports_chk_ shell	Reports Health Check	FW		
2	1	End of Day	Mandatory	1	ac_action_ relog_sh	Relog actions on holiday	AC		

SR#	Process Category	Category Description	Category Significance	Shell Execution Sequence	Shell	Shell Description	Module Code	Required Shells	Required Shell Description
3	1	End of Day	Mandatory	1	ac_bundle_ fee_shell	Bundle Fee Shell	BN		
4	1	End of Day	Mandatory	1	bundle_ report_shell	Bundle Reports	BN		
5	1	End of Day	Mandatory	1	dd_auto_ statuschange	DDA Auto status change shell	DD		
6	1	End of Day	Mandatory	1	ins_quote_ exp_eod	Expire Quote EOD Shell	LM		
7	1	End of Day	Mandatory	1	je_susp_bal_ shell	Journal Entry Suspense Balancing EOD Shell	JE		
8	1	End of Day	Mandatory	1	pc_blr_remit_ shell	Biller Remittance Shell	PC		
9	1	End of Day	Mandatory	1	pc_value_ date_eod_sh	Value Date EOD Shell	PC		
10	1	End of Day	Mandatory	1	pi_srv_ord_ sta_eod	Service Order Deactivation EOD Shell (US localization specific shell)	PI		
11	1	End of Day	Mandatory	1	py_bank_val_ date_eod	Bank Value Date EOD Shell	PY		
12	1	End of Day	Mandatory	1	py_regcc_ sch_gen	Reg CC Schedule Generation EOD Shell (US localization specific shell)	ΡY		
13	1	End of Day	Mandatory	1	py_regcc_ sch_rel_eod	Reg CC Schedule Release EOD Shell (US localization specific shell)	PY		

SR#	Process Category	Category Description	Category Significance	Shell Execution Sequence	Shell	Shell Description	Module Code	Required Shells	Required Shell Description
14	1	End of Day	Mandatory	2	dd_inst_ rearrg_sh	DD Instruction Rearrangement For Calender Change	DD	ac_action_ relog_sh	Relog actions on holiday
15	1	End of Day	Mandatory	2	je_batch_ hist_shell	Journal Entry Batch History EOD Shell	JE	je_susp_bal_ shell	Journal Entry Suspense Balancing EOD Shell
16	1	End of Day	Mandatory	2	pl_onl_ledg_ bal_upd	Online Ledger Entries Update	AS	je_susp_bal_ shell	Journal Entry Suspense Balancing EOD Shell
17	1	End of Day	Mandatory	2	pc_report_ shell	PC Reports	PC	pc_value_ date_eod_sh	Value Date EOD Shell
18	1	End of Day	Mandatory	2	py_cust_val_ date_eod	Customer Value Date EOD Shell	PY	py_bank_ val_date_eod	Bank Value Date EOD Shell
19	1	End of Day	Mandatory	3	eod_preval	EOD pre validation Shell	DD	pc_report_ shell	PC Reports
20	1	End of Day	Mandatory	4	pr_price_ changes_eod	Price change action log shell for account opened today	PR	eod_preval	EOD pre validation Shell
21	1	End of Day	Mandatory	5	pr_reprice_ acn_eod	Reprice Action shell for account opened today	PR	pr_price_ changes_eod	Price change action log shell for account opened today
22	1	End of Day	Mandatory	6	dd_si_eod	DDA Standing Instruction EOD Shell	DD	ac_bundle_ fee_shell dd_auto_ statuschange pr_reprice_ acn_eod	Bundle Fee Shell DDA Auto status change shell Reprice Action shell for account opened today
23	1	End of Day	Mandatory	7	dd_swp_eod_ default	DDA Sweepout Instruction EOD Shell Default Level	DD	dd_si_eod	DDA Standing Instruction EOD Shell
24	1	End of Day	Mandatory	8	dd_swp_eod_ non_def	DDA Sweepout Instruction EOD Shell	DD	dd_swp_ eod_default	DDA Sweepout Instruction EOD Shell

SR#	Process Category	Category Description	Category Significance	Shell Execution Sequence	Shell	Shell Description	Module Code	Required Shells	Required Shell Description
						Non Default Level			Default Level
25	1	End of Day	Mandatory	9	dd_swp_ hold_remove	SweepIn Hold Removal shell	DD	dd_swp_ eod_non_def	DDA Sweepout Instruction EOD Shell Non Default Level
26	1	End of Day	Mandatory	9	In_contri_ eod_shell	Loan Contribution EOD Shell	LN	dd_swp_ eod_non_def	DDA Sweepout Instruction EOD Shell Non Default Level
27	1	End of Day	Mandatory	10	ac_stl_pyt_ eod_shell	Account Settlement Payout EOD Shell	AC	In_contri_ eod_shell	Loan Contribution EOD Shell
28	1	End of Day	Mandatory	10	td_remove_ swpin_lien	TD Remove Sweep In Shell	TD	dd_swp_ hold_remove	SweepIn Hold Removal shell
29	1	End of Day	Mandatory	11	In_split_eod_ shell	Split Loan Account Opening EOD Shell	LN	ac_stl_pyt_ eod_shell	Account Settlement Payout EOD Shell
30	1	End of Day	Mandatory	11	td_eod_ action	Term Deposit EOD Shell	TD	td_remove_ swpin_lien	TD Remove Sweep In Shell
31	1	End of Day	Mandatory	12	In_actn_eod_ shell	Loans Action Due EOD Shell	LN	In_split_eod_ shell	Split Loan Account Opening EOD Shell
32	1	End of Day	Mandatory	12	td_eod_ report_shell	TD EOD Reports	TD	td_eod_ action	Term Deposit EOD Shell
33	1	End of Day	Mandatory	13	In_actn_ post_eod_sh	Loan Post Action Due EOD Shell	LN	In_actn_eod_ shell	Loans Action Due EOD Shell
34	1	End of Day	Mandatory	14	dd_prdc_fee_ shell	Demand Deposit Periodic Fee EOD Shell	DD	ln_actn_ post_eod_sh	Loan Post Action Due EOD Shell
35	1	End of Day	Mandatory	14	In_report_ shell	Loan Reports	LN	ln_actn_ post_eod_sh	Loan Post Action Due EOD Shell
36	1	End of Day	Mandatory	15	dd_rev_swp_ eod	Processing of Reverse Sweep	DD	dd_prdc_fee_ shell	Demand Deposit Periodic Fee EOD Shell

SR#	Process Category	Category Description	Category Significance	Shell Execution Sequence	Shell	Shell Description	Module Code	Required Shells	Required Shell Description
37	1	End of Day	Mandatory	15	ins_eod_ action	Insurance EOD Shell	LM	In_report_ shell	Loan Reports
38	1	End of Day	Mandatory	16	dd_eod_ action1	Demand Deposit EOD Shell Non Alternate	DD	dd_rev_swp_ eod	Processing of Reverse Sweep
39	1	End of Day	Mandatory	17	dd_eod_ action2	Demand Deposit EOD Shell Alternate	DD	dd_eod_ action1	Demand Deposit EOD Shell Non Alternate
40	1	End of Day	Mandatory	18	dd_eod_in_ adjst	Demand Deposit Interest Adjustment shell	DD	dd_eod_ action2	Demand Deposit EOD Shell Alternate
41	1	End of Day	Mandatory	19	dd_eod_ action3	Demand Deposit EOD Shell Alternate OD	DD	dd_eod_in_ adjst	Demand Deposit Interest Adjustment shell
42	1	End of Day	Mandatory	20	dd_eod_ action4	Demand Deposit EOD Shell Non Alternate OD	DD	dd_eod_ action3	Demand Deposit EOD Shell Alternate OD
43	1	End of Day	Mandatory	21	lm_market_ reval	Market Revaluation Shell	LM	dd_eod_ action4	Demand Deposit EOD Shell Non Alternate OD
44	1	End of Day	Mandatory	22	lm_util_reval	Utilization Revaluation	LM	lm_market_ reval	Market Revaluation Shell
45	1	End of Day	Mandatory	23	lm_batch_p_ eod_shell	LCM EOD Pre Processor	LM	lm_util_reval	Utilization Revaluation
46	1	End of Day	Mandatory	24	lm_batch_ eod_shell	Limits And Collaterals Batch	LM	lm_batch_p_ eod_shell	LCM EOD Pre Processor
47	1	End of Day	Mandatory	25	dd_eod_ action5	Demand Deposit EOD Shell Linkage Expiry	DD	lm_batch_ eod_shell	Limits And Collaterals Batch
48	1	End of Day	Mandatory	26	In_intrst_ comp_shell	Loan Interest Computation EOD Shell	LN	dd_eod_ action5	Demand Deposit EOD Shell Linkage Expiry
49	1	End of Day	Mandatory	26	In_stmt_log_ shell	Loan Statement logging Shell	LN	dd_eod_ action5	Demand Deposit EOD Shell Linkage Expiry

SR#	Process Category	Category Description	Category Significance	Shell Execution Sequence	Shell	Shell Description	Module Code	Required Shells	Required Shell Description
50	1	End of Day	Mandatory	27	ac_bundle_ exp_poller	Bundle Expiry Poller Shell	BN	In_intrst_ comp_shell	Loan Interest Computation EOD Shell
51	1	End of Day	Mandatory	27	dd_eod_ offset_int	Demand Deposit Offset Interest EOD Shell	DD	In_intrst_ comp_shell	Loan Interest Computation EOD Shell
52	1	End of Day	Mandatory	27	np_eod_acion	Asset Classification EOD action	NP	In_intrst_ comp_shell	Loan Interest Computation EOD Shell
53	1	End of Day	Mandatory	28	ch_eod_ report_shell	CASA EOD Reports	СН	dd_eod_ offset_int	Demand Deposit Offset Interest EOD Shell
54	1	End of Day	Mandatory	28	np_account_ classify	Account Level Asset Classification	NP	np_eod_ acion	Asset Classification EOD action
55	1	End of Day	Mandatory	29	np_party_ classify	Party Level Asset Classification	NP	np_account_ classify	Account Level Asset Classification
56	1	End of Day	Mandatory	30	np_facility_ classify	Facility Level Asset Classification	NP	np_party_ classify	Party Level Asset Classification
57	1	End of Day	Mandatory	31	eod_report_ shell	EOD Reports	AL	bundle_ report_shell ch_eod_ report_shell np_facility_ classify	Bundle Reports CASA EOD Reports Facility Level Asset Classification
58	1	End of Day	Mandatory	32	as_eod_ check	Accounting Verification	AS	eod_report_ shell td_eod_ report_shell ch_eod_ report_shell	EOD Reports TD EOD Reports CASA EOD Reports
59	1	End of Day	Mandatory	33	eod_epilogue	EOD Epilogue	EO	as_eod_ check	Accounting Verification
60	2	Beginning of Day	Mandatory	1	ac_bod_bn_ fee_shell	BOD Bundle Fee Shell	BN		

SR#	Process Category	Category Description	Category Significance	Shell Execution Sequence	Shell	Shell Description	Module Code	Required Shells	Required Shell Description
61	2	Beginning of Day	Mandatory	1	as_untank_ adjustment	Untanking Adjustment Posting	AS		
62	2	Beginning of Day	Mandatory	1	ins_bod_ action	Insurance BOD Shell	LM		
63	2	Beginning of Day	Mandatory	1	lz_pi_child_ exmpt_sh	Exemption code BOD shell (Australia localization specific shell)	PI		
64	2	Beginning of Day	Mandatory	1	pc_business_ transfr	Business Transfer Periodic Execution BOD Shell	PC		
65	2	Beginning of Day	Mandatory	1	pc_value_ date_shell	Value Date BOD Shell	PC		
66	2	Beginning of Day	Mandatory	1	pi_srv_ord_ sta_bod	Service Order Activation BOD Shell (US localization specific shell)	PI		
67	2	Beginning of Day	Mandatory	1	py_auto_ credit_bod	Payments Auto Credit Run BOD Shell	PY		
68	2	Beginning of Day	Mandatory	1	py_cust_val_ date_bod	Customer Value Date BOD Shell	PY		
69	2	Beginning of Day	Mandatory	1	py_regcc_ sch_rel_bod	Reg CC Schedule Release BOD Shell (US localization specific shell)	PY		
70	2	Beginning of Day	Mandatory	2	as_untank_ bod_shell	Accounting Un-tanking Shell	AS	as_untank_ adjustment	Untanking Adjustment Posting
71	2	Beginning of Day	Mandatory	2	lm_batch_p_ bod_shell	LCM BOD Pre Processor	LM	ins_bod_ action	Insurance BOD Shell

SR#	Process Category	Category Description	Category Significance	Shell Execution Sequence	Shell	Shell Description	Module Code	Required Shells	Required Shell Description
72	2	Beginning of Day	Mandatory	2	pc_activ_ date_shell	Activation Date BOD Shell	PC	pc_value_ date_shell	Value Date BOD Shell
73	2	Beginning of Day	Mandatory	3	lm_batch_ bod_shell	Limits Bod Batch	LM	lm_batch_p_ bod_shell	LCM BOD Pre Processor
74	2	Beginning of Day	Mandatory	3	td_bod_ action	Term Deposit BOD Shell	TD	pc_activ_ date_shell	Activation Date BOD Shell
75	2	Beginning of Day	Mandatory	4	In_post_ trans_bod	Loan Transaction BOD shell	LN	td_bod_ action	Term Deposit BOD Shell
76	2	Beginning of Day	Mandatory	4	td_bod_ report_shell	TD BOD Reports	TD	td_bod_ action	Term Deposit BOD Shell
77	2	Beginning of Day	Mandatory	5	In_contri_ bod_shell	Loan Contribution BOD Shell	LN	In_post_ trans_bod	Loan Transaction BOD shell
78	2	Beginning of Day	Mandatory	6	dd_bod_ action	Demand Deposit BOD Shell	DD	ins_bod_ action Im_batch_ bod_shell In_contri_ bod_shell	Insurance BOD Shell Limits Bod Batch Loan Contribution BOD Shell
79	2	Beginning of Day	Mandatory	7	dd_bod_in_ adjst	Demand Deposit BOD Interest Adjustment shell	DD	dd_bod_ action	Demand Deposit BOD Shell
80	2	Beginning of Day	Mandatory	8	dd_si_bod	DDA Standing Instruction BOD Shell	DD	dd_bod_in_ adjst	Demand Deposit BOD Interest Adjustment shell
81	2	Beginning of Day	Mandatory	9	dd_swp_bod_ default	DDA Sweepout Instruction BOD Shell Default Level	DD	dd_si_bod	DDA Standing Instruction BOD Shell
82	2	Beginning of Day	Mandatory	10	dd_swp_bod_ non_def	DDA Sweepout Instruction BOD Shell Non Default Level	DD	dd_swp_ bod_default	DDA Sweepout Instruction BOD Shell Default Level

SR#	Process Category	Category Description	Category Significance	Shell Execution Sequence	Shell	Shell Description	Module Code	Required Shells	Required Shell Description
83	2	Beginning of Day	Mandatory	11	ac_stl_pyt_ bod_shell	Account Settlement Payout BOD Shell	AC	dd_swp_ bod_non_def	DDA Sweepout Instruction BOD Shell Non Default Level
84	2	Beginning of Day	Mandatory	12	In_split_bod_ shell	Split Loan Account Opening BOD Shell	LN	ac_stl_pyt_ bod_shell	Account Settlement Payout BOD Shell
85	2	Beginning of Day	Mandatory	13	In_actn_bod_ shell	Loan Action due BOD shell	LN	In_split_bod_ shell	Split Loan Account Opening BOD Shell
86	2	Beginning of Day	Mandatory	14	In_actn_ post_bod_sh	Loan Post Action due BOD shell	LN	In_actn_bod_ shell	Loan Action due BOD shell
87	2	Beginning of Day	Mandatory	15	ch_bod_ report_shell	CASA BOD Reports	СН	ln_actn_ post_bod_sh	Loan Post Action due BOD shell
88	2	Beginning of Day	Mandatory	16	bod_report_ shell	BOD Reports	AL	ch_bod_ report_shell	CASA BOD Reports
89	2	Beginning of Day	Mandatory	17	bod_epilogue	BOD Epilogue	EO	bod_report_ shell In_actn_ post_bod_sh	BOD Reports Loan Post Action due BOD shell
90	3	Cut Off	Mandatory	1	co_cutoff_ prologue	Cutoff Prologue	со		
91	12	FSDF master data hand-off	Optional	1	handoff_ initialise	Analytics Hand-Off Initialisation Shell	DI	co_cutoff_ prologue	Cutoff Prologue
92	12	FSDF master data hand-off	Optional	2	handoff_shell	Analytics Hand-Off Shell	DI	handoff initialise	Analytics Hand-Off Initialisation Shell
93	12	FSDF master data hand-off	Optional	3	epilogue_ shell	Analytics epilogue Shell	DI	handoff_shell	Analytics Hand-Off Shell
94	13	FSDF EOD data hand-off	Optional	1	handoff_shell	Analytics Hand-Off Shell	DI		
95	13	FSDF EOD	Optional	2	epilogue_	Analytics epilogue Shell	DI	handoff_shell	Analytics Hand-Off

SR#	Process Category	Category Description	Category Significance	Shell Execution Sequence	Shell	Shell Description	Module Code	Required Shells	Required Shell Description
		data hand-off			shell				Shell
96	14	FSDF Txn data Hand-off	Optional	1	handoff_shell	Analytics Hand-Off Shell	DI		
97	14	FSDF Txn data Hand-off	Optional	2	epilogue_ shell	Analytics epilogue Shell	DI	handoff_shell	Analytics Hand-Off Shell
98	15	Analytics Batch Data Hand-off	Optional	1	handoff_ initialise	Analytics Hand-Off Initialisation Shell	DI		
99	15	Analytics Batch Data Hand-off	Optional	2	handoff_shell	Analytics Hand-Off Shell	DI	handoff_ initialise	Analytics Hand-Off Initialisation Shell
100	15	Analytics Batch Data Hand-off	Optional	3	epilogue_ shell	Analytics epilogue Shell	DI	handoff_shell	Analytics Hand-Off Shell
101	16	Internal System EOD	Mandatory	1	ac_actn_ ieod_shell	Account Action Internal EOD Shell	LN		
102	16	Internal System EOD	Mandatory	1	interest_eod_ action	Interest Shell	IN		
103	16	Internal System EOD	Mandatory	1	lending_acct_ stat	Lending Account Statistics Shell	AC		
104	16	Internal System EOD	Mandatory	1	pi_eod_shell	Party EOD Shell	PI		
105	16	Internal System EOD	Mandatory	2	as_batch_ verify	Accounting batch Verification Shell	AS	interest_eod_ action	Interest Shell
106	16	Internal System EOD	Mandatory	3	pl_ledg_bal_ upd	Deferred Ledger Balance Update	AS	as_batch_ verify	Accounting batch Verification Shell
107	16	Internal System EOD	Mandatory	4	pl_sdeadjmt_ eod_shel	SDE Adjustment Shell	AS	pl_ledg_bal_ upd	Deferred Ledger Balance Update

SR#	Process Category	Category Description	Category Significance	Shell Execution Sequence	Shell	Shell Description	Module Code	Required Shells	Required Shell Description
108	16	Internal System EOD	Mandatory	5	as_verify_ prereval	Accounting batch Pre Revaluatiom Verify Shell	AS	pl_sdeadjmt_ eod_shel	SDE Adjustment Shell
109	16	Internal System EOD	Mandatory	6	pl_reval_eod_ shell	Revaluation Shell	AS	as_verify_ prereval	Accounting batch Pre Revaluatiom Verify Shell
110	16	Internal System EOD	Mandatory	7	as_verify_ prefinclsr	Accounting batch Pre Fin Closure Verify Shell	AS	pl_reval_ eod_shell	Revaluation Shell
111	16	Internal System EOD	Mandatory	8	pl_fin_period_ shell	Balance FIN Period Creation Shell	AS	as_verify_ prefinclsr	Accounting batch Pre Fin Closure Verify Shell
112	16	Internal System EOD	Mandatory	9	pl_finclose_ eod_shel	Financial Closure Shell	AS	pl_fin_ period_shell	Balance FIN Period Creation Shell
113	16	Internal System EOD	Mandatory	10	as_verify_ prerptglns	Accounting batch Pre Reporting Lines Verify Shell	AS	pl_finclose_ eod_shel	Financial Closure Shell
114	16	Internal System EOD	Mandatory	11	pl_rptglns_ eod_shell	ReportingLines Shell	AS	as_verify_ prerptglns	Accounting batch Pre Reporting Lines Verify Shell
115	16	Internal System EOD	Mandatory	12	as_verify_ prearchiv	Accounting batch Pre Archive Verify Shell	AS	pl_rptglns_ eod_shell	ReportingLines Shell
116	16	Internal System EOD	Mandatory	13	pl_intr_eod_ rep_shel	PL Internal EOD Report Shell	PL	as_verify_ prearchiv	Accounting batch Pre Archive Verify Shell
117	16	Internal System EOD	Mandatory	14	pl_balance_ history	Periodic PL balance history	PL	pl_intr_eod_ rep_shel	PL Internal EOD Report Shell
118	16	Internal System EOD	Mandatory	15	pl_period_ bod_shell	Balance Period Creation Shell	AS	pl_balance_ history	Periodic PL balance history
119	16	Internal System EOD	Mandatory	16	int_eod_ report_shell	Internal EOD Reports	AL	pl_period_ bod_shell	Balance Period Creation Shell
120	16	Internal	Mandatory	17	int_eod_	Int EOD Epilogue	EO	int_eod_	Internal EOD Reports

SR#	Process Category	Category Description	Category Significance	Shell Execution Sequence	Shell	Shell Description	Module Code	Required Shells	Required Shell Description
		System EOD			epilogue			report_shell	
121	18	Clearing	Optional	1	pc_rej_ reproc_shell	Scan Reject Reprocess Shell	PC		
122	18	Clearing	Optional	1	pc_scn_pas_ plr_shell	Scan Pass Poller Shell	PC		
123	18	Clearing	Optional	2	pc_oc_ return_shell	Outgoing Clearing Return Shell	PC	pc_rej_ reproc_shell	Scan Reject Reprocess Shell
124	17	Sales Offer Handoff	Optional	1	pm_sales_ offer_hoff	Sales Offer Handoff Shell	РМ		
125	17	Sales Offer Handoff	Optional	2	handoff_shell	Analytics Hand-Off Shell	DI	pm_sales_ offer_hoff	Sales Offer Handoff Shell
126	17	Sales Offer Handoff	Optional	3	epilogue_ shell	Analytics epilogue Shell	DI	handoff_shell	Analytics Hand-Off Shell
127	19	CMD Hand-off	Optional	1	cmd_ handoff_shell	CMD Hand-Off Shell	DI		
128	19	CMD Hand-off	Optional	2	cmd_ epilogue_ shell	CMD epilogue Shell	DI	cmd_ handoff_shell	CMD Hand-Off Shell
129	23	Global Float	Optional	1	pc_glb_flt_ ext_shell	Global Float Extension Shell	PC		
130	30	Scan Payment Queue Process	Optional	1	pc_scn_rej_ plr_shell	Scan Reject Poller Shell	PC		
131	63	Business Transfer	Optional	1	pc_b_colln_ cdt_shell	Business Collection Credit Shell	PC		
132	63	Business Transfer	Optional	1	pc_b_pymt_ dbt_shell	Business Payment Debit Shell	PC		

SR#	Process Category	Category Description	Category Significance	Shell Execution Sequence	Shell	Shell Description	Module Code	Required Shells	Required Shell Description
133	63	Business Transfer	Optional	2	pc_b_colln_ dbt_shell	Business Collection Debit Shell	PC	pc_b_colln_ cdt_shell	Business Collection Credit Shell
134	63	Business Transfer	Optional	2	pc_b_pymt_ cdt_shell	Business Payment Credit Shell	PC	pc_b_pymt_ dbt_shell	Business Payment Debit Shell
135	69	mdm_Publish	Optional	1	mdm_ publish_shell	mdm Publish	IN		
136	100	Health Check	Optional	1	health_chk_ shell	Health Checkup Shell	FW		
137	100	Health Check	Optional	1	excep_ pending_shell	Batch Exceptions Pending Check Shell	FW		
138	102	Analytics Result Upload	Optional	1	rslt_handoff_ shell	Analytics Result Upload Shell	DI		
139	102	Analytics Result Upload	Optional	2	rslt_epilogue_ shell	Analytics Result Upload Epilogue Shell	DI	rslt_handoff_ shell	Analytics Result Upload Shell
140	117	Housekeeping	Mandatory	1	ac_arrear_ history	Arrear history shell.	AC		
141	117	Housekeeping	Mandatory	1	ac_casa_ housekeeping	CASA housekeeping shell.	AC		
142	117	Housekeeping	Mandatory	1	ac_stl_alrt_ scdl	Procssing of Frequency based Alerts	DD		
143	117	Housekeeping	Mandatory	1	acct_benefit_ shell	Account Benefit Shell	AC		
144	117	Housekeeping	Mandatory	1	as_hist_log_ eod_shel	Accounting Transaction History Log Shell	AS		
145	117	Housekeeping	Mandatory	1	ba_purge_ shell_proc	Procedure based Purge shell to be run during Housekeeping	DD		

SR#	Process Category	Category Description	Category Significance	Shell Execution Sequence	Shell	Shell Description	Module Code	Required Shells	Required Shell Description
146	117	Housekeeping	Mandatory	1	bd_ unclaimed_ shell	Bank Darft unclaimed shell	PC		
147	117	Housekeeping	Mandatory	1	da_event_h_ eod_shel	Accounting Event History Shell	AS		
148	117	Housekeeping	Mandatory	1	dd_hsk_ actions	Processing of House Keeping shell	DD		
149	117	Housekeeping	Mandatory	1	lm_auto_ closur_shell	Facility Auto Closure Shell	LM		
150	117	Housekeeping	Mandatory	1	lm_exp_ track_shell	Exposure Tracking Shell	LM		
151	117	Housekeeping	Mandatory	1	Im_insider_ exp	Insider Exposure Tracking Shell	LM		
152	117	Housekeeping	Mandatory	1	In_adv_alert_ shell	Loan Advance Alert Action BOD Shell	LN		
153	117	Housekeeping	Mandatory	1	move_drv_ table_data	Move driver table data to History table	DD		
154	117	Housekeeping	Mandatory	1	np_prvsn_ updt_shell	Account Level Provision Update	NP		
155	117	Housekeeping	Mandatory	1	or_sub_exp_ shell	Submission EOD Expiry Shell	OR		
156	117	Housekeeping	Mandatory	1	pi_bod_shell	Party BOD Shell	PI		
157	117	Housekeeping	Mandatory	1	td_stmt_gen_ shell	TD Statement Generation Shell	TD		
158	117	Housekeeping	Mandatory	2	In_stmt_gen_ shell	Loan Statement Generation EOD Shell	LN	td_stmt_ gen_shell	TD Statement Generation Shell
159	117	Housekeeping	Mandatory	3	dd_stmt_	CASA Statement	DD	In_stmt_gen_	Loan Statement

SR#	Process Category	Category Description	Category Significance	Shell Execution Sequence	Shell	Shell Description	Module Code	Required Shells	Required Shell Description
					gen_shell	Generation Shell		shell	Generation EOD Shell
160	117	Housekeeping	Mandatory	4	ac_pop_ domain_ind	Domain index tables populate shell	AC	dd_stmt_ gen_shell	CASA Statement Generation Shell
161	120	Alert Generation	Optional	1	ep_ generation_ shell	Alert generation Shell	DI		
162	125	Adhoc Scheduler Online	Optional	1	as_online_ ledg_upd	Online Ledger Balance Update Shell	AS		
163	125	Adhoc Scheduler Online	Optional	1	dd_acct_ online	Adhoc action shell for CASA	DD		
164	125	Adhoc Scheduler Online	Optional	1	dd_si_online	DDA No Retry Standing Instruction Online Shell	DD		
165	127	Human Task Action	Optional	1	wf_task_ resume_shell	Human Task Resume Shell	WF		
166	247	Reprice	Default	1	pr_acrl_ batch_shell	Price Accrual Batch Shell	PR		
167	247	Reprice	Default	1	pr_price_ changes	Price change log online shell	PR		
168	247	Reprice	Default	2	pr_reprice_ action	Reprice action online Shell	PR	pr_price_ changes	Price change log online shell

# 13 Configuration Management of Oracle Banking using FSM

This chapter provides an overview of Functional Setup Manager (FSM), its benefits and key features related to the configuration of Oracle Banking.

The Oracle Banking solution is highly parameterized and driven by configuration of products and other core entities. Typical Oracle Banking Implementation involves configuration of initial setup which includes creation of core entities and various products of the bank. The setup data thus configured, has to be ported across multiple Development, Testing, and Production environments of the bank as and when required.

## 13.1 Overview

The data configured for Oracle Banking typically constitute the following:

- Reference data that determines the application behavior:
  - Example: Customer Type (Individual, Organization or Trust), Collateral Type or Category (Property Residential, Aircraft Small Aircraft and Aircraft Helicopter)
  - This is typically a part of the code, and drives the functionality within the application. This cannot be modified through front end screens. Any change to the same, results in customization.
  - In the Oracle Banking parlance, this is referred to as "Closed Enumeration Seed Data".
- Reference data that is bank specific:
  - Example: Chart of Accounts, Bank codes and Branch data
  - Oracle Banking supports front end maintenance of this data. In some banks it is sourced from legacy or MDM systems of the bank (customized interfaces can be provided as a part of consulting for management of the same).
  - In the Oracle Banking parlance, this is referred to as "Day Zero Data".
- Reference data that compliments the transactional information and does not drive application behavior:
  - Example: Customer Prefix (Wing Commander, Doctor or Madame), Declaration questions (Have you ever been bankrupt?, Any default on existing loan repayments?)
  - This is maintained by the bank. The Seed Data Configuration (Fast path: OPA006) page provides a front end for the bank to maintain such data.
  - In the Oracle Banking parlance, this is referred to as "Open Enumeration Seed Data".
- Master data:
  - Example: Customer information, product definition and pricing setups
  - This data is unique to each bank, and is maintained by the bank. Oracle Banking supports front end maintenance of this data.
  - In the Oracle Banking parlance, this is referred to as "Master Data".

- Industry specific Master data:
  - Example: List of currency, currency pairs, calendars and countries
  - This is shipped along with Oracle Banking, and can be maintained by the bank. It helps in accelerating the Master Data maintenance.
  - In the Oracle Banking parlance, this is referred to as "Factory Shipped Data".

Functional Setup Manager (FSM) is an application in the Oracle Fusion Applications suite, which supports agile and adaptive set up of Oracle Banking. FSM helps in configuration of setup data and moving the setup data across different environments, thus enabling efficient and fool proof setup maintenance. Data portability saves a lot of time and effort, and there is no scope for human errors.

Oracle Banking provides a preconfigured sequence of tasks for configuration data for all Oracle Banking modules bundled with Product. Oracle Functional Setup Manager 8.0 is qualified for business data configuration of Oracle Banking releases.

# 13.2 Key Benefits

Data configuration through FSM facilitates smooth flow of business data configuration right from the initial setup through operations. The key benefits of using FSM are as follows:

- Access control restrictions to manage controlled changes through development, testing and production environments can be enforced.
- Appropriate sequence of tasks can be preconfigured to reduce the operational risk profile of managing manual changes.
- The ability to define and test the proposed configuration to implement agile business change with low risk is provided. It is useful for ongoing maintenance activities and also for all the above aspects.
- Portability of data across multiple environments is available to manage business configuration data across environments efficiently and accurately, as it is vital for efficient project or release delivery processes.
- The capability to review and compare proposed configuration with an established environment is provided.
- There is availability of documentation on configuration management, to sustain configuration change requirements both during the project or release delivery, as well as ongoing maintenance.

## 13.3 Key Features

This section describes the key features of Oracle Functional Setup Manager with regards to the configuration of setup for Oracle Banking.

### **13.3.1 Enforcement of Access Control Restriction**

Access to any system needs to be provided on a need basis. Data configuration being a highly sensitive area, needs proper user management.

#### **FSM User Roles**

There are three Functional Setup related roles that are delivered out of the box. They are as follows:

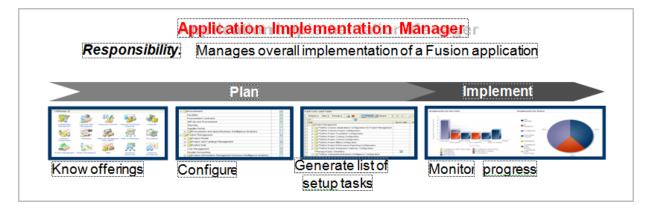
#### Application Implementation Managers

These users are usually responsible for the overall implementation of a Fusion application.

During the planning phase, the implementation managers learn all about the Offerings and related functionalities. Then, they configure the Offerings to fit the business requirements and generate the setup task list.

During the implementation phase, these users monitor the progress of the project.

Figure 13–1 Application Implementation Manager



#### Functional Owners

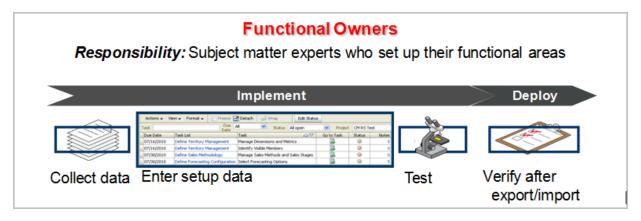
This is a collective term used to identify the users who are typically responsible for entering the setup data. They are usually from respective lines of businesses, and are subject matter experts in their functional areas. These include, for example, the financial administrator, procurement manager, sales operations representative, benefit administrator, and so on.

The task lists for Oracle Banking that are prepackaged, have been sequenced such that a user can be assigned access on need basis. When the access is provided, the user is able to complete all required configurations for the business area. For example, a Term Deposit Product Manager will be given access to Define Term Deposits task list.

During implementation, they collect and enter setup data and then test to verify if the setups are working correctly.

After deployment, these same users are often responsible to verify if export or import has worked correctly, and the setups are working properly at the target instance.

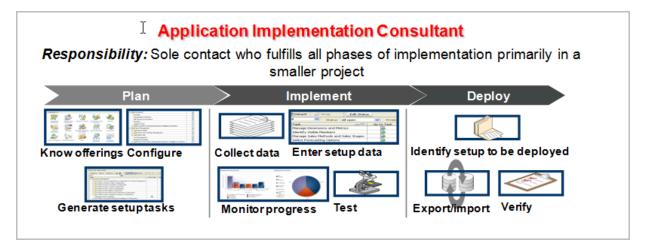
#### Figure 13–2 Function Owner



Application Implementation Consultants

This is the super-user role for Functional Setup Manager. These individuals have full access to all functionalities supported Functional Setup Manager.

#### Figure 13–3 Application Implementation Consultant



### 13.3.2 Pre-configured Sequence of Configuration

The prepackaged, sequential task lists for Oracle Banking business data configuration are shipped, giving the users full visibility of the end-to-end setup requirements of Oracle Banking Offering. One no longer needs to guess or read through stacks of cross-referencing manuals to figure out what exactly must be set up to make Oracle Banking ready for transaction.

In addition to this, easy-to-use interfaces for entering setup data are available directly from the list of tasks. The business users can now make setup changes without depending on their technical staff.

Although the comprehensive list of setup tasks are shipped, the Functional Setup Manager also provides the flexibility to add or remove tasks from the prepackaged task lists.

The following table presents the sequence of task lists and tasks for configuration.

Table 13–1	Task List Sequence
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Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
1	Define Banking Foundati on	Ta sk Li st	Definition of plethora of common services which are commonly required for the various other applicatio ns under Oracle Banking, thereby providing a strong foundation for	Y	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			existing suite of Oracle Banking products.						
2	Define Seed Data Configur ation	Ta sk Li st	Definition of seed data for all modules in Oracle Banking Platform.	Y	Y				
3	Manage Seed Data Configur ation	Ta sk	To configure the seed data applicable to all modules in OBP.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m		
3	Define Risk Categor y	Ta sk Li st	Define Risk category, Risk Code and configure risk mitigation for each risk code.	Y	Y				
4	Manage Risk Categor y	Ta sk	To Configure Risk Category	N	N	OBP User Interf ace	Oracle Bankin g Platfor		

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
							m		
4	Manage Risk Code	Ta sk	To configure Risk Code for each Risk Category	Ν	Ν	OBP User Interf ace	Oracle Bankin g Platfor m		
4	Manage Mitigatio n	Ta sk	To configure Mitigation and linked to Risk code/Cod es	Ν	Ν	OBP User Interf ace	Oracle Bankin g Platfor m		
2	Define Core Entity Service s	Ta sk Li st	Definition of setups to facilitate managem ent and configurati on of transactio ns in Oracle Banking Base.	Y	Y				
3	Define Core Prerequi sites	Ta sk Li st	Definition of all static tasks that are global to various modules in Oracle	Y	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			Banking Foundatio n.						
4	Manage Reason Codes	Ta sk	To configure the standard reasons for granting or rejecting the status of an account or a transactio n.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Reason Code	com.ofss.fc.app.commonservice.core.service.reasoncode.ReasonCodesExpor tImportService
4	Define Purpose s	Ta sk Li st	Definition of purpose codes required as part of different processin g services in Oracle Banking Foundatio n.	Y	Y				
5	Manage Purpose s	Ta sk	To configure the purpose code with	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Purpose Code	com.ofss.fc.app.commonservice.core.service.purposecode.PurposeExportImp ortService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			its applicable line of business.						
4	Define Activity Profile	Ta sk Li st	Definition of task list	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m		
5	Manage Activity Profile	Ta sk	To configure the activity profile and linked to CASA offer	N	N	OBP User Interf ace	Oracle Bankin g Platfor m	Activity Profile	
3	Define Geograp hical Setup	Ta sk Li st	Definition of country codes and state codes in Oracle Banking Foundatio n.	Y	Y				
4	Manage Country Code	Ta sk	To configure the complete ISO 3166- 1 encoding list of countries.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Country Code	com.ofss.fc.app.commonservice.core.service.country.CountryCodeExportImp ortService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
4	Manage State Code	Ta sk	To configure the states that are part of each of the ISO Country codes.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	State Code	com.ofss.fc.app.commonservice.core.service.state.StateExportImportService
3	Define Currenc y	Ta sk Li st	Definition of currency codes, rate type, denominat ions and calendar in Oracle Banking Foundatio n.	Y	Y				
4	Manage Currenc y Rate Type	Ta sk	To configure the categories (like Standard, Cash, TC, Bills) for which the banks maintains exchange rate for the currency	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Currenc y Rate Type	com.ofss.fc.app.commonservice.currency.service.currencyratetype.Currency RateTypesExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			pair.						
4	Define Calenda r Prerequi sites	Ta sk Li st	Definition of calendar holiday rules and types in Oracle Banking Foundatio n.	Y	Y				
5	Manage Holiday Rule	Ta sk	To configure the holiday rules which will have definitions for normal and adhoc holidays. This will be linked to calendar type and will be applied during calendar definition.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Holiday Rule	com.ofss.fc.app.commonservice.calendar.service.holidayrule.HolidayRuleExp ortImportService
5	Manage Calenda r Type	Ta sk	To configure	Y	Y	OBP User Interf ace	Oracle Bankin g	Calenda r Type	com.ofss.fc.app.commonservice.calendar.service.calendartype.CalendarType ExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			the calendar type which will have definitions for marking the weekly work days and holidays along with the shift timings. This will be linked to a branch, currency or payment code.				Platfor m		
4	Manage Currenc y Code	Ta sk	To configure the complete ISO 4217 active list of currencies and their details used in banking and business	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Currenc y Code	com.ofss.fc.app.commonservice.currency.service.currencyDefn.CurrencyDefi nitionExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			globally.						
4	Define Calenda r	Ta sk Li st	Definition of business calendar in Oracle Banking Foundatio n.	Y	Y				
5	Manage Busines s Calenda r	Ta sk	To configure the branch adhoc holidays for the current financial year.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m		
4	Manage Currenc y Denomi nation	Ta sk	To configure the standard currency denominat ions for each currency that the bank deals with in order to break-up the transactio	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Currenc y Denomi nation	com.ofss.fc.app.commonservice.currency.service.currencydenomination.Curre ncyDenominationExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			n amount by denominat ions.						
4	Manage Domain Categor y Settlem ent Mode	Ta sk	To associate a domain category and event to the rate type and to define settlement modes for the rate type.	N	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Domain Categor y Settlem ent Mode	com.ofss.fc.app.pm.service.settlementmode.DomainCategorySettlementMode ExportImportService
4	Manage Amount Text	Ta sk	To configure the verbal descriptio n of the amounts printed on account statement s, message s, advices, in words, for the benefit of the bank customer s.	Ν	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Amount Text	com.ofss.fc.app.commonservice.currency.service.amounttext.AmountTextLan guageExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
3	Define Bank	Ta sk Li st	Definition of core entity service in Oracle Banking Foundatio n for maintainin g the configurati on of legal entities. This includes business rules, bank parameter s, multi entities, branch definitions and bank policy details.	Y	Y				
4	Define Busines s Rules	Ta sk Li st	Definition of all business rules to facilitate rule managem ent in Oracle	Y	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			Banking Foundatio n. This includes - rule author, expressio n builder and filter definition.						
5	Manage Express ions	Ta sk	To configure the rule expressio ns.	N	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Express ion	com.ofss.fc.app.rule.service.expression.ExpressionExportImportService
5	Manage Filters	Ta sk	To configure filters for the rules.	N	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Filter	com.ofss.fc.app.rule.service.expression.FilterExportImportService
5	Manage Rules	Ta sk	Definition of all business rules to facilitate rule managem ent in Oracle Banking Base. This includes - rule author,	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Rule	com.ofss.fc.app.rule.service.maintenance.RuleMaintenanceExportImportServi ce

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			expressio n builder and filter definition.						
5	Manage Rule Set	Ta sk	To configure a ruleset using a combinati on of existing rules.	N	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Rule Set	com.ofss.fc.app.rule.service.maintenance.RuleSetMaintenanceExportImportS ervice
4	Manage Bank	Ta sk	To configure all the banks operating within the same country of its operation s.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Bank Code	com.ofss.fc.app.commonservice.core.service.bank.BankExportImportService
4	Manage Bank Paramet ers	Ta sk	To configure the basic informatio n about the bank.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Bank Paramet er	com.ofss.fc.app.commonservice.core.service.bankparameter.BankParameters DefinitionExportImportService
4	Manage Bank Policy	Ta sk	To configure the bank wide	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Bank Policy	com.ofss.fc.app.commonservice.core.service.bankpolicyparameters.BankPoli cyDefinitionExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			parameter s, pertaining to different modules or common to different modules.						
4	Manage Bank Policy Deviatio n	Ta sk	To configure the policy deviations for legal, complianc e, operations and credit that will be attached during a business process.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Bank Policy Deviatio n	com.ofss.fc.app.commonservice.core.service.bankpolicydeviation.BankPolicy DeviationExportImportService
4	Define Multi Entity	Ta sk Li st	Definition of multi- entity and multi- branding managem ent in Oracle Banking Foundatio n. This	Y	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			includes reference data sharing between the entities within an enterprise and the configurati on of regulatory regions.						
5	Manage Entity Group	Ta sk	To configure the market entities and business units which represent the various brands under legal entity under which business is conducte d.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Entity Group	com.ofss.fc.app.me.service.businessUnitDefinition.MarketEntityExportImport Service
5	Manage	Та	This is	N	Y	OBP	Oracle	Referen	com.ofss.fc.app.me.service.referencedata.ReferenceObjectExportImportServi

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
	Referen ce Object	sk	used to define the reference objects and classify data based on determina nts.			User Interf ace	Bankin g Platfor m	ce Object	ce
5	Manage Regulat ory Region	Ta sk	This is used to configure the regulatory regions which is further used as a determina nt during set definition.	Ν	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Regulat ory Region	com.ofss.fc.app.me.service.regregion.RegulatoryRegionExportImportService
5	Manage Originati on Preferen ce	Ta sk	To configure the origination preference parameter s.	N	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Originati on Preferen ce	com.ofss.fc.app.origination.service.core.preference.OriginationPreferenceExpo rtImportService
4	Define Branch	Ta sk Li st	Definition of core	Y	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			entity service in Oracle Banking Foundatio n, for maintainin g the configurati on of a branches belonging to a legal entity. This includes calendar parameter s, branch parameter s, branch currency dependen cies, branch operation parameter s and journal parameter s.						
5	Define Calenda r Prerequi sites	Ta sk Li st	Definition of calendar holiday rules and	Y	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			types in Oracle Banking Foundatio n.						
6	Manage Holiday Rule	Ta sk	To configure the holiday rules which will have definitions for normal and adhoc holidays. This will be linked to calendar type and will be applied during calendar definition.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Holiday Rule	com.ofss.fc.app.commonservice.calendar.service.holidayrule.HolidayRuleExp ortImportService
6	Manage Calenda r Type	Ta sk	To configure the calendar type which will have definitions for marking	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Calenda r Type	com.ofss.fc.app.commonservice.calendar.service.calendartype.CalendarType ExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			the weekly work days and holidays along with the shift timings. This will be linked to a branch, currency or payment code.						
5	Manage Branch Paramet er	Ta sk	To configure the branches of the bank with basic details along with the reporting hierarchy.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Branch Paramet er	com.ofss.fc.app.commonservice.core.service.branchparameter.BranchParame tersExportImportService
5	Define Calenda r	Ta sk Li st	Definition of business calendar in Oracle Banking Foundatio n.	Y	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
6	Manage Busines s Calenda r	Ta sk	To configure the branch adhoc holidays for the current financial year.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m		
5	Define Financia I Cycle	Ta sk Li st	Definition of core entity service in Oracle Banking Foundatio n, for maintainin g financial periods under various financial cycles.	Y	Y				
6	Manage Financia I Period	Ta sk	To configure the various financial years and monthly accountin g periods under each year.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Financia I Period	com.ofss.fc.app.commonservice.core.service.finyear.FinYearDefinitionExportI mportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
6	Manage Branch Paramet er For Period Update	Ta sk	To configure the current financial year and period for the new branch.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m		
5	Define Branch Currenc y Paramet ers	Ta sk Li st	Definition of currency pair, exchange rate spreads, currency branch parameter s and security parameter s.	Y	Y				
6	Manage Currenc y Pair	Ta sk	To configure the static attributes of currency pairs which will be used for exchange rate computati	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Currenc y Pair	com.ofss.fc.app.commonservice.currency.service.ccypair.CurrencyPairDefiniti onExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			on.						
6	Manage Exchan ge Rate Spreads	Ta sk	To configure the buy and sell rate for a currency pair by applying a spread to the mid- rate of the currency pair.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Exchan ge Rate	com.ofss.fc.app.commonservice.currency.service.exchangerate.ExchangeRat eExportImportService
6	Manage Currenc y Branch Paramet er	Ta sk	To configure the attributes of a currency that will be specific to a branch.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Currenc y Branch Paramet er	com.ofss.fc.app.commonservice.currency.service.currencybranch.CurrencyBr anchParametersExportImportService
6	Manage Transac tion Limits	Ta sk	To configure the limits for authorizati on.	Ν	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Transac tion Limit	com.ofss.fc.app.sms.service.limit.TransactionLimitExportImportService
6	Manage Transac tion Group Limits	Ta sk	To configure the transactio	N	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Transac tion Group Limit	com.ofss.fc.app.sms.service.limit.TransactionGroupLimitExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			n groups and assign daily and threshold limits to the groups.						
5	Define Branch Ledger Paramet ers	Ta sk Li st	Definition of ledger parameter s related to a branch.	Y	Y				
6	Manage GAAP	Ta sk	Generally Accepted Accountin g Principles (GAAP). To configure codes used to identify separate books of accounts.	Ν	Y	OBP User Interf ace	Oracle Bankin g Platfor m	GAAP Code	com.ofss.fc.app.accounting.service.pl.gaap.GAAPExportImportService
6	Manage Ledger	Ta sk	To configure the details of ledger, its hierarchy,	N	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Ledger Code	com.ofss.fc.app.accounting.service.pl.productledger.ProductLedgerExportImp ortService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			GAAP linkages, position accountin g preference s, and restriction s. Allows to configure a multi- level ledger structure for the bank.						
6	Manage Ledger Branch Paramet er	Ta sk	To configure the product ledger parameter s for the entire branch - various real, contingent and profit and loss suspense accounts for its branches,	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Ledger Branch Paramet er	com.ofss.fc.app.accounting.service.pl.branchparameters.BranchParameterExp ortImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			GAAP practices, the previous year's profit and loss adjustmen ts, to split their revaluatio n profits and losses.						
6	Manage Inter Branch Paramet er	Ta sk	To configure the internal ledger accounts for pairs of branches that would host the inter- branch accountin g entries.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Inter Branch Paramet er	com.ofss.fc.app.accounting.service.pl.interbranchparameter.InterBranchParam eterExportImportService
5	Define Branch Clearing Paramet ers	Ta sk Li st	Definition of ledger parameter s related to payments clearing.	N	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
6	Manage Clearing Branch Linkage	Ta sk	To configure the new branch as the clearing branch. The originating branch can be same as either clearing branch or existing branch.	Ν	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Clearing Branch Linkage	com.ofss.fc.app.pc.service.institution.ClearingInstitutionLinkageExportImportS ervice
5	Manage Branch Vault	Ta sk	To configure the vault details and the currency limits for the new branch.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Branch Vault	com.ofss.fc.app.brop.service.branchvault.BranchVaultExportImportService
5	Manage Teller Currenc y Limit	Ta sk	To configure the amount limits that is applicable for a role under a	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Teller Currenc y Limit	com.ofss.fc.app.brop.service.tellercurrencylimit.TellerCurrencyLimitExportImp ortService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			branch and vault.						
5	Manage Journal Paramet ers	Ta sk	To configure the journal entry parameter s applicable at the branch level.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Journal Paramet er	com.ofss.fc.app.je.branchparameters.service.JournalBranchParametersExport ImportService
5	Define Holiday s	Ta sk Li st	Definition of adhoc holiday rule and holiday definition in Oracle Banking Foundatio n.	Y	Y				
6	Manage Holiday Rule	Ta sk	To configure the holiday rules which will have definitions for normal and adhoc holidays. This will be linked	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Holiday Rule	com.ofss.fc.app.commonservice.calendar.service.holidayrule.HolidayRuleExp ortImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			to calendar type and will be applied during calendar definition.						
6	Manage Busines s Calenda r	Ta sk	To configure the branch adhoc holidays for the current financial year.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m		
2	Define Party Manage ment	Ta sk Li st	Definition of Customer Details and Relations hip Informatio n in Oracle Banking Base.	Y	Y				
3	Define Party Prerequi sites	Ta sk Li st	Definition of configurati on related to parties	Y	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			in Oracle Banking Foundatio n, which bank or financial institution deals with as part of its business. This includes party roles, bank policy, credit bureau, financial template, relationshi p and relationshi p rules.						
4	Manage Roles	Ta sk	To configure different roles for a party in the application such as Customer or Vendor.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Party Role	com.ofss.fc.app.party.service.role.RoleExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
4	Manage Party Bank Policy	Ta sk	To configure the bank- level policy parameter s related to general party, KYC and for restricted and unrestricte d legal age maintenan ce.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Party Bank Policy	com.ofss.fc.app.pm.service.partybankpolicy.PartyBankPolicyExportImportSer vice
4	Manage Credit Bureau	Ta sk	To configure the credit bureau details for party.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Credit Bureau	com.ofss.fc.app.party.service.core.decision.CreditBureauExportImportService
4	Manage Relation ship	Ta sk	To configure party to party linkage.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Party Relation ship	com.ofss.fc.app.party.service.relation.PartyRelationshipExportImportService
4	Manage Relation ship Rules	Ta sk	To configure a rule for a given party type to ensure	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Relation ship Rules	com.ofss.fc.app.party.service.relation.rule.RelationshipRuleExportImportServi ce

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			mandatory party relationshi ps.						
4	Manage Account KYC Rules	Ta sk	To configure the KYC rules of account for a business unit and party type.	N	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Account KYC Rule	com.ofss.fc.app.party.service.kyc.AccountKYCRuleExportImportService
3	Define Financia I Detail	Ta sk Li st	Define the financial detail	Y	Y				
4	Manage Financia I Categor y	Ta sk	To configure Financial category to be linked to financial parameter code	Y	Y				
4	Manage Financia I Nature	Ta sk	To configure Financial nature to capture additional details for financial	Y	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			parameter code						
4	Manage Financia I Paramet er Codes	Ta sk	To configure Financial Parameter Code to capture financial details	Y	Y				
4	Financia I Stateme nt Templat e	Ta sk	To configure different statement type in template like Balance sheet, Profit and Loss	Y	Y				
4	Manage Financia I Templat e	Ta sk	To configure the type of financial informatio n being captured for a party.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Financia I Templat e	com.ofss.fc.app.party.service.finance.template.FinancialTemplateExportImpor tService
4	Manage Financia I Templat e	Ta sk	To configure the priority of financial informatio	N	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Financia I Templat e Priority	com.ofss.fc.app.party.service.finance.template.FinancialTemplatePriorityExpo rtImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
	Priority		n being captured for a party.						
4	Manage Benchm ark Financia I Ratio	Ta sk	To configure Benchmar k Financial ratio for an industry and bank Benchmar k values	Y	Y				
4	Manage Busines s Plan	Ta sk	To configure the Business Plan	Y	Y				
2	Define Architec ture Service s	Ta sk Li st	Definition of Architectu re Services in Oracle Banking Base which includes business rules, multi- entity and multi- branding.	Y	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
3	Define Busines s Rules	Ta sk Li st	Definition of all business rules to facilitate rule managem ent in Oracle Banking Foundatio n. This includes rule author, expressio n builder and filter definition.	Y	Y				
4	Manage Express ions	Ta sk	To configure the rule expressio ns.	N	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Express ion	com.ofss.fc.app.rule.service.expression.ExpressionExportImportService
4	Manage Filters	Ta sk	To configure filters for the rules.	N	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Filter	com.ofss.fc.app.rule.service.expression.FilterExportImportService
4	Manage Rules	Ta sk	Definition of all business rules to facilitate	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Rule	com.ofss.fc.app.rule.service.maintenance.RuleMaintenanceExportImportServi ce

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			rule managem ent in Oracle Banking Base. This includes rule author, expressio n builder and filter definition.						
4	Manage Rule Set	Ta sk	To configure a ruleset using a combinati on of existing rules.	N	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Rule Set	com.ofss.fc.app.rule.service.maintenance.RuleSetMaintenanceExportImportS ervice
3	Define Alerts and Notificat ions	Ta sk Li st	Definition of alerts and notificatio ns in Oracle Banking Base.	Y	Y				
4	Define Alerts	Ta sk Li st	Definition of customer alerts and	Y	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			notificatio ns in Oracle Banking Foundatio n, to customers and internal bank users for pre- defined financial or non- financial events. This includes message template, alert rules and alert definition s.						
5	Manage Messag e Templat e	Ta sk	To configure the templates that are predefined set of alerts or notificatio ns.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Messag e Templat e	com.ofss.fc.app.ep.service.dispatch.message.MessageTemplateExportImport Service

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
5	Manage Rules for Alerts	Ta sk	To configure all the business rules required in configurati on of alerts.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m		
5	Manage Alerts	Ta sk	To configure an alert which is the combinati on of activities, events, rules, message formats, and recipients.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Alert	com.ofss.fc.app.ep.service.action.ActivityEventActionExportImportService
2	Define Security Manage ment	Ta sk Li st	Definition of various configurati ons in Oracle Banking Base which handles the security managem	Y	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			ent service.						
3	Define Security Prerequi sites	Ta sk Li st	Definition of security related parameter s in Oracle Banking Foundatio n. This includes managing transactio n and group limits, approval checks, severity configurati on.	Y	¥				
4	Manage Transac tion Limits	Ta sk	To configure the limits for authorizati on.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Transac tion Limit	com.ofss.fc.app.sms.service.limit.TransactionLimitExportImportService
4	Manage Transac tion Group Limits	Ta sk	To configure the transactio n groups and assign daily and	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Transac tion Group Limit	com.ofss.fc.app.sms.service.limit.TransactionGroupLimitExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			threshold limits to the groups.						
4	Manage Approva I Checks	Ta sk	To configure whether authorizati on is required for a particular service.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Approva I Check	com.ofss.fc.app.sms.service.auth.RequiredAuthorizationExportImportService
4	Manage Severity Configur ation	Ta sk	To configure the level of severity for an authorizati on.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m		
2	Define Content Manage ment	Ta sk Li st	Definition of various configurati ons in Oracle Banking Base which handles the document managem ent service.	Ν	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
3	Define Docume nt Prerequi sites	Ta sk Li st	Definition of Document Type, Category and Inserts.	Y	Y				
4	Manage Docume nt Type	Ta sk	To configure the various types of document s that are prescribed for different classes of account.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Docume nt Type	com.ofss.fc.app.content.service.DocumentTypeExportImportService
4	Manage Docume nt Categor y	Ta sk	To configure the document categories and link to specific document types.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Docume nt Categor y	com.ofss.fc.app.content.service.DocumentCategoryExportImportService
4	Manage Docume nt Inserts	Ta sk	To configure the associate d document	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Docume nt Insert	com.ofss.fc.app.content.outbound.service.DocumentInsertExportImportServic e

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			inserts required to accompan y the generated document types.						
3	Define Docume nts	Ta sk Li st	Definition of document rules, document policy and document template layout Resolution Policy in Oracle Banking Foundatio n.	Y	Y				
4	Manage Rules for Docume nt	Ta sk	To configure all the business rules required during configurati on of document s.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m		
4	Manage	Ta sk	This is	Y	Y	OBP	Oracle	Docume nt Policy	com.ofss.fc.app.content.service.DocumentPolicyExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
	Docume nt Policy		defined at the bank level to retrieve the set of document s required for an activity which has multiple stages in the life cycle.			User Interf ace	Bankin g Platfor m		
4	Manage Layout Resoluti on Policy	Ta sk	To configure the layout resolution policy to specify rules on what template must be generated.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Layout Resoluti on Policy	com.ofss.fc.app.content.outbound.service.LayoutPolicyExportImportService
2	Define Account Manage ment	Ta sk Li st	Definition of general account managem ent attributes like Taxation,	Y	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			Statemen t, Interest in Oracle Banking Base.						
3	Manage Warning Indicator s	Ta sk	To configure the warning indicators at the account level.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Warning Indicator	com.ofss.fc.app.account.service.warningindicator.WarningIndicatorExportImpo rtService
3	Define Taxation	Ta sk Li st	Definition of configurati ons in Oracle Banking Foundatio n, which facilitates the execution of tax computati on and application in Oracle Banking Base. This includes tax parameter s and tax	Y	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			waiver criteria.						
4	Manage Tax Paramet ers	Ta sk	To configure the TDS parameter s for the new bank. This includes - Local currency for tax TDS processin g parameter s like exemption basis, exemption level, exempt limit period, taxable income basis, tax year-end parameter s. Rounding rules for TDS.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Tax Paramet er	com.ofss.fc.app.taxation.service.global.TaxParameterExportImportService
4	Manage	Та	То	Ν	Y	OBP	Oracle	Тах	com.ofss.fc.app.taxation.service.waiver.TaxWaiverCriteriaExportImportServic

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
	Tax Waiver Criteria	sk	configure the different tax criteria basis on which the waivers can be given.			User Interf ace	Bankin g Platfor m	Waiver Criteria	e
2	Define Account ing Manage ment	Ta sk Li st	Definition of product ledger managem ent in Oracle Banking Base, which is used by accountin g services.	Y	Y				
3	Define Product Ledger	Ta sk Li st	Definition of accountin g service in Oracle Banking Foundatio n, for configurati on of complete product ledger	Y	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			required as part of product ledger related accountin g.						
4	Manage Account ing Configur ation	Ta sk	To configure the accountin g-related parameter s.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Account ing Configur ation	com.ofss.fc.app.accounting.service.pl.accountingconfiguration.AccountingCon figurationExportImportService
4	Manage GAAP	Ta sk	Generally Accepted Accountin g Principles To configure codes used to identify separate books of accounts.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	GAAP Code	com.ofss.fc.app.accounting.service.pl.gaap.GAAPExportImportService
4	Manage System Element s	Ta sk	To configure all the system defined elements.	N	Y	OBP User Interf ace	Oracle Bankin g Platfor m	System Defined Element	com.ofss.fc.app.accounting.service.pl.sde.SDEExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
4	Manage Number Range	Ta sk	To configure the number ranges for all applicable system elements.	Ν	Y	OBP User Interf ace	Oracle Bankin g Platfor m	SDE Number Range	com.ofss.fc.app.accounting.service.pl.sdenumberrange.SDENumberRangeEx portImportService
4	Manage System Element Class	Ta sk	To configure the system element class which is a combinati on of one or many system defined elements. Class could be of type - Direct, Derived and Balance.	Ν	Y	OBP User Interf ace	Oracle Bankin g Platfor m	System Element Class	com.ofss.fc.app.accounting.service.pl.sdeclass.SDEClassExportImportServic e
4	Manage Ledger	Ta sk	To configure the details of ledger, its	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Ledger Code	com.ofss.fc.app.accounting.service.pl.productledger.ProductLedgerExportImp ortService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			hierarchy, GAAP linkages, position accountin g preference s, and restriction s. Allows to configure a multi- level ledger structure for the bank.						
4	Manage Ledger Group	Ta sk	To configure the ledger group, whi ch will have the ultimate parent for all the categories of ledger. Thi s will be linked to ledger bank parameter,	¥	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Ledger Group	com.ofss.fc.app.accounting.service.pl.productledgergroup.ProductLedgerGrou pExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			which will enable multiple bank under the same banking entity to share the ledger hierarchy.						
4	Manage Ledger Details	Ta sk	To configure the GAAP, SDE Class, Central Bank/Hea d Office Reporting details for the ledger.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Ledger Detail	com.ofss.fc.app.accounting.service.pl.additionaldetails.LedgerAdditionalAttribu tesExportImportService
4	Manage Ledger Bank Paramet er	Ta sk	To configure the product ledger parameter s for the entire bank - Year-end Profit and Loss	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Ledger Bank Paramet er	com.ofss.fc.app.accounting.service.pl.BankParameter.BankParameterExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			details, Inter- branch accountin g route, reporting requireme nts, system accountin g requireme nts.						
4	Manage Ledger Branch Paramet er	Ta sk	To configure the product ledger parameter s for the entire branch - various real, contingent and profit and loss suspense accounts for its branches, GAAP practices, the previous	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Ledger Branch Paramet er	com.ofss.fc.app.accounting.service.pl.branchparameters.BranchParameterExp ortImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			year's profit and loss adjustmen ts, to split their revaluatio n profits and losses.						
4	Manage Inter Bank Paramet er	Ta sk	To configure the internal ledger accounts for pairs of Banks that would host the inter- Bank accountin g entries	Ν	N				
4	Manage Inter Branch Paramet er	Ta sk	To configure the internal ledger accounts for pairs of branches that would host the inter- branch	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Inter Branch Paramet er	com.ofss.fc.app.accounting.service.pl.interbranchparameter.InterBranchParam eterExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			accountin g entries.						
2	Define Channel Manage ment	Ta sk Li st	Definition of various configurati ons in Oracle Banking Base which handles channel access like ATM and POS.	Y	Y				
3	Define Channel s	Ta sk Li st	Definition of banking channels like ATM/POS in Oracle Banking Foundatio n. This includes account preference s, bank parameter s and terminal setup.	Y	Y				
4	Manage Hold Funds	Ta sk	To configure	N	Y	OBP User	Oracle Bankin		

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			the bank level parameter s for the various types of holds.			Interf ace	g Platfor m		
4	Manage Bank Director y	Ta sk	To configure the list of all institution s (banks and their branches) that may participate in clearing and payment process.	Ν	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Bank Director y	com.ofss.fc.app.pc.service.institution.FinancialInstitutionExportImportService
4	Manage Channel Bank Paramet er	Ta sk	To configure the ATM/POS bank parameter s required to start ATM/POS operations for the new branch.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Channel Bank Paramet er	com.ofss.fc.app.channel.service.atmpos.AtmPosParamsExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
4	Manage Channel Terminal Setup	Ta sk	To configure the ATM/POS terminals.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Channel Terminal	com.ofss.fc.app.channel.service.atmpos.AtmPosTerminalIDExportImportServi ce
2	Define Paymen t and Collecti on	Ta sk Li st	Definition of configurati ons which enable payments and collections in Oracle Banking Foundatio n.	Y	Y				
3	Manage Traveller 's Cheque Denomi nation	Ta sk	To configure the denominat ion for Traveler's Cheque	Y	Y				
3	Define Paymen t Calenda r Codes	Ta sk Li st	Definition of core entity service in Oracle Banking Foundatio n, for maintainin g payment	Y	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			calendar code and generating calendar for the same.						
4	Define Calenda r Prerequi sites	Ta sk Li st	Definition of calendar holiday rules and types in Oracle Banking Foundatio n.	Y	Y				
5	Manage Holiday Rule	Ta sk	To configure the holiday rules which will have definitions for normal and adhoc holidays. This will be linked to calendar type and will be applied during calendar	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Holiday Rule	com.ofss.fc.app.commonservice.calendar.service.holidayrule.HolidayRuleExp ortImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			definition.						
5	Manage Calenda r Type	Ta sk	To configure the calendar type which will have definitions for marking the weekly work days and holidays along with the shift timings. This will be linked to a branch, currency or payment code.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Calenda r Type	com.ofss.fc.app.commonservice.calendar.service.calendartype.CalendarType ExportImportService
4	Manage Paymen t Calenda r Code	Ta sk	To configure the payment calendar code for which calendar will be generated.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Paymen t Calenda r Code	com.ofss.fc.app.commonservice.core.service.payment.PaymentTypeCodesM aintExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
4	Define Calenda r	Ta sk Li st	Definition of business calendar in Oracle Banking Foundatio n.	Y	Y				
5	Manage Busines s Calenda r	Ta sk	To configure the branch adhoc holidays for the current financial year.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m		
3	Define Clearing	Ta sk Li st	Definition of payments and clearing service in Oracle Banking Foundatio n which facilitates maintenan ce of cheque clearing operation	Y	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			s. This includes configurati on of zones, bank directory, float configurati on, instrument category, endpoints, circle endpoint segment, institution endpoint, clearing branch linkage, transactio n template, transactio n category, reject codes, endpoint reject code.						
4	Manage Institutio n Categor	Ta sk	To configure the institution	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor	Institutio n Categor y	com.ofss.fc.app.pc.service.institution.InstitutionCategoryExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
	у		types applicable for payments.				m		
4	Manage Process ing Queues	Ta sk	To configure the processin g queues used in payments.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Process ing Queues	com.ofss.fc.app.pc.processingqueues.service.ProcessingQueuesExportImport Service
4	Manage Zone	Ta sk	To configure the payment and clearing zones and circles in a particular country. The physical branch of bank is located physically in a circle.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Clearing Zone	com.ofss.fc.app.pc.service.institution.ZoneExportImportService
4	Manage Bank Director y	Ta sk	To configure the list of all institution s (banks	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Bank Director y	com.ofss.fc.app.pc.service.institution.FinancialInstitutionExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			and their branches) that may participate in clearing and payment process.						
4	Manage Float Configur ation	Ta sk	To configure the various float days (transit days between posting date and value date), for clearing and collection transactio ns.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Float Configur ation	com.ofss.fc.app.pc.service.floatconfiguration.FloatConfigurationExportImportS ervice
4	Manage Instrum ent Categor y	Ta sk	To configure the various kind of instrument s which participate in clearing process.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Instrum ent Categor y	com.ofss.fc.app.pc.service.instrument.InstrumentCategoryExportImportServic e

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			(Cheque, Manager's Cheque)						
4	Manage Transac tion Templat e	Ta sk	To configure various kinds of attributes and parameter s like amendme nt parameter, activation date parameter, activation date parameter, amount constraint for clearing, collection and payment transactio ns. Used to link instrument category for clearing templates.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Transac tion Templat e	com.ofss.fc.app.pc.service.transaction.TransactionTemplateExportImportServi ce
4	Manage Endpoin t	Ta sk	To configure	Y	Y	OBP User Interf	Oracle Bankin g	Endpoin t	com.ofss.fc.app.pc.service.endpoint.ClearingHouseExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			the details of endpoint or network that bank would interact with for clearing and payment transactio ns Endpoint refers to central bank of country or appointed clearing house.			ace	Platfor m		
4	Manage Circle Endpoin t Segmen t	Ta sk	To configure the endpoint for the various circles under a zone. Required only for distance- based, else would default to	N	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Circle Endpoin t Segmen t	com.ofss.fc.app.pc.service.institution.CircleSegmentLinkageExportImportServ ice

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			participati on-based.						
4	Manage Institutio n Endpoin t	Ta sk	To configure the endpoints with participati ng bank and their branches for clearing, payment and collection process. Institution can have direct/indir ect participati on with endpoint.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Institutio n Endpoin t	com.ofss.fc.app.pc.service.institution.InstitutionEndpointParticipationExportIm portService
4	Manage Clearing Branch Linkage	Ta sk	To configure the new branch as the clearing branch. The originating branch can be	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Clearing Branch Linkage	com.ofss.fc.app.pc.service.institution.ClearingInstitutionLinkageExportImportS ervice

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			same as either clearing branch or existing branch.						
4	Manage Transac tion Categor y	Ta sk	To configure various types of clearing and payment transactio ns like inward clearing, outward clearing, incoming collection and outgoing collection. Used for linking transactio n templates based on collection type, transfer type and transactio n type.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Transac tion Categor y	com.ofss.fc.app.pc.service.transaction.TransactionCategoryExportImportServi ce

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
4	Manage Reject Code	Ta sk	To configure the various reject codes for different transactio n category.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Reject Code	com.ofss.fc.app.pc.service.rejectcode.RejectCodeExportImportService
4	Manage Endpoin t Reject Code	Ta sk	To configure the linkage of reject codes with endpoints and its specific reject codes.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Endpoin t Reject Code	com.ofss.fc.app.pc.service.rejectcode.EndpointRejectCodeLinkageExportImp ortService
1	Define Limits and Collater al Manage ment	Ta sk Li st	Definition of configurati ons to handle the maintenan ce and transactio n in Oracle Banking Limits and Collateral Managem ent.	N	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
2	Define LCM Global Paramet ers	Ta sk Li st	Definition of global parameter s in Oracle Banking Limits and Collateral Managem ent, that provides a single source for limits and collateral s.	Y	Y				
3	Manage Global Paramet er	Ta sk	To configure the LCM parameter s as part of initial setup in the applicatio n.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Global Paramet er	com.ofss.fc.app.lcm.service.collaterals.globalparameter.GlobalParameterExpo rtImportService
2	Define Collater al Static Setup	Ta sk Li st	Definition of configurati ons in Oracle Banking Limits and Collateral Managem ent, that	Y	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			provides an efficient and streamline d collateral managem ent.						
3	Manage Issuers	Ta sk	To configure the issuers of collateral of type STOCK. It will also capture the available limit and individual limits based on collateral types.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Issuer	com.ofss.fc.app.lcm.service.core.issuer.IssuerExportImportService
3	Manage Security	Ta sk	To configure the collateral investmen t security details (stocks and	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Security	com.ofss.fc.app.lcm.service.core.security.SecurityExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			shares) like code, start and end date, face value, price sensitivit y, issuer details and the security price details.						
3	Manage Rules for LCM	Ta sk	To configure all the business rules required for limits and collateral s.	Ν	Y	OBP User Interf ace	Oracle Bankin g Platfor m		
3	Manage Collater al Categor y Preferen ce	Ta sk	To configure the preference s for collateral categorie s.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Collater al Categor y Preferen ce	com.ofss.fc.app.lcm.service.collaterals.categorypreference.CollateralCategory PreferanceExportImportService
3	Manage Collater	Ta sk	To configure	Y	Y	OBP User	Oracle Bankin	Collater al Dedupe	com.ofss.fc.app.lcm.service.collaterals.dedupe.CollateralDedupeExportImport Service

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
	al Dedupe		the dedupe for combinati ons of collateral type and category.			Interf ace	g Platfor m		
2	Define Insuranc e	Ta sk Li st	Definition of configurati ons in Oracle Banking Limits and Collateral Managem ent, that facilitates insurance policies related to borrowing entity, facility, collateral and party.	Y	Y				
3	Manage Insuranc e Provider	Ta sk	To configure the insurance provider details - code, name, blackliste	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Insuranc e Provider	com.ofss.fc.app.ins.service.core.provider.InsuranceProviderDetailsExportImpo rtService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			d.						
3	Manage Rules for LCM	Ta sk	To configure all the business rules required for limits and collateral s.	N	Y	OBP User Interf ace	Oracle Bankin g Platfor m		
3	Manage Insuranc e Plan	Ta sk	To configure the insurance plan details for LMI and CCI types; Periodic Premium Details; Policy Term Drivers; Document upload.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Insuranc e Plan	com.ofss.fc.app.ins.service.core.plan.InsurancePlanExportImportService
2	Define Conditio ns and Covena nts	Ta sk Li st	Definition of conditions and covenants in Oracle	Y	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			Banking Limits and Collateral Managem ent, which are clauses or stipulation s or constraint s in an agreement or contract.						
3	Manage Conditio n and Covena nt Code	Ta sk	To configure the condition details for various types such as preliminar y, precedent and subseque nt. Also configure the monitoring details for condition of type	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Conditio n Code	com.ofss.fc.app.lcm.service.core.conditioncode.ConditionCodeExportImportS ervice

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			'subseque nt'. To configure the covenant details for various types - financial, reporting, undertakin g and unstructur ed and also the monitoring preference s like type (fixed, periodic, ongoing), start days, grace days and notice days.						
3	Manage Conditio n and Covena nt Categor y	Ta sk	To configure the list of conditions and covenants that forms the respective categorie	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Conditio n Categor y	com.ofss.fc.app.lcm.service.core.condition.ConditionsCategoryExportImportS ervice

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			S.						
3	Manage Conditio n and Covena nt Policy	Ta sk	To configure the condition and covenant policies for the entities like party, collateral and credit facility. Done via Guided Rule or Decision table.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Conditio n Policy	com.ofss.fc.app.lcm.service.core.condition.ConditionsPolicyExportImportServi ce
2	Define Limits Static Setup	Ta sk Li st	Definition of configurati ons in Oracle Banking Limits and Collateral Managem ent, that provides an efficient and streamline d limits	Y	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			managem ent.						
3	Manage LTV Matrix	Ta sk	To configure an LTV Matrix which comprises a list of codes and the correspon ding range of loan-to- value ratios associate d to code.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	LTV Matrix	com.ofss.fc.app.lcm.service.limits.lccMatrix.LCCMatrixExportImportService
3	Manage Facility Categor y	Ta sk	To configure the default attributes of a facility like revolving type, effective limit amount basis, LTV. The category will be mapped to a credit	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Facility Categor y	com.ofss.fc.app.lcm.service.limits.facilityCategory.FacilityCategoryExportImp ortService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			policy.						
3	Manage Exposur e Limits	Ta sk	To configure the exposure limit under an exposure type - Product, Party, Country.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Exposur e Limit	com.ofss.fc.app.lcm.service.limits.exposurelimits.ExposureLimitsExportImport Service
1	Define Current Account s and Savings Account s	Ta sk Li st	Definition of configurati ons to handle the CASA transactio n accounts in Oracle Banking Current Accounts and Savings Accounts.	Ν	Y				
2	Manage Hold Funds	Ta sk	To configure the bank level parameter s for the	Ν	Y	OBP User Interf ace	Oracle Bankin g Platfor m		

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			various types of holds.						
2	Manage Account Status Restricti ons	Ta sk	To configure the linkage of events to various account status.	N	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Account Status Restricti on	com.ofss.fc.app.dda.service.account.status.RestrictionExportImportService
2	Define CASA Policies	Ta sk Li st	Definition of CASA bank policy, dormancy policy, unclaimed policy, statement policy and hardship relief policy.	Y	Y				
3	Manage CASA Bank Policy	Ta sk	To configure the bank- level policy parameter s pertaining to CASA products - control	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	CASA Bank Policy	com.ofss.fc.app.pm.service.ddabankpolicy.DDABankPolicyExportImportServi ce

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			parameter s, reprice parameter s for OD and channel access parameter s.						
3	Manage Dorman cy Rule Policy	Ta sk	To configure the dormancy rules for account with details of transfer and reminder- inactive, dormancy, unclaimed dormant reactivatio n mode.	Ν	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Dorman cy Rule Policy	com.ofss.fc.app.pm.service.dormancypolicy.AgingRuleConfigurationExportIm portService
3	Manage Unclaim ed Policy	Ta sk	To configure the parameter s to handle the processin g of accounts	Ν	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Unclaim ed Policy	com.ofss.fc.app.pm.service.unclaimedpolicy.UnclaimedPolicyExportImportSer vice

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			which need to be selected as unclaime d.						
3	Manage Hardshi p Policy	Ta sk	To configure the bank- level policy parameter s related to hardship relief types for loan and CASA product class.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Hardshi p Policy	com.ofss.fc.app.pm.service.hardship.HardshipPolicyExportImportService
3	Manage Stateme nt Policy	Ta sk	To configure the bank- level policy parameter s related to general statement and statement frequency.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Stateme nt Policy	com.ofss.fc.app.pm.service.statementpolicy.StatementPolicyExportImportSer vice

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
2	Define Chart of Account s	Ta sk Li st	Definition of product ledgers for all products along with configurati on of bank, branch and inter- branch parameter s which are required for accountin g services.	Y	Y				
3	Manage Ledger	Ta sk	To configure the details of ledger, its hierarchy, GAAP linkages, position accountin g preference s, and restriction s. Allows to	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Ledger Code	com.ofss.fc.app.accounting.service.pl.productledger.ProductLedgerExportImp ortService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			configure a multi- level ledger structure for the bank.						
3	Manage Ledger Group	Ta sk	To configure the ledger group, which will have the ultimate parent for all the categories of ledger. This will be linked to ledger bank parameter, which will enable multiple bank under the same banking entity to share the ledger hierarchy.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Ledger Group	com.ofss.fc.app.accounting.service.pl.productledgergroup.ProductLedgerGrou pExportImportService
3	Manage	Та	То	Y	Y	OBP	Oracle	Ledger	com.ofss.fc.app.accounting.service.pl.additionaldetails.LedgerAdditionalAttribu

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
	Ledger Details	sk	configure the GAAP, SDE Class, Central Bank/Hea d Office Reporting details for the ledger.			User Interf ace	Bankin g Platfor m	Detail	tesExportImportService
3	Manage Ledger Bank Paramet er	Ta sk	To configure the product ledger parameter s for the entire bank - Year-end Profit and Loss details, Inter- branch accountin g route, reporting requireme nts, system accountin g requireme nts.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Ledger Bank Paramet er	com.ofss.fc.app.accounting.service.pl.BankParameter.BankParameterExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
3	Manage Ledger Branch Paramet er	Ta sk	To configure the product ledger parameter s for the entire branch - various real, contingent and profit and loss suspense accounts for its branches, GAAP practices, the previous year's profit and loss adjustmen ts, to split their revaluatio n profits and losses.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Ledger Branch Paramet er	com.ofss.fc.app.accounting.service.pl.branchparameters.BranchParameterExp ortImportService
3	Manage Inter Branch Paramet	Ta sk	To configure the	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor	Inter Branch Paramet er	com.ofss.fc.app.accounting.service.pl.interbranchparameter.InterBranchParam eterExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
	er		internal ledger accounts for pairs of branches that would host the inter- branch accountin g entries.				m		
2	Define CASA Account ing	Ta sk Li st	Definition of accountin g template configurati ons for all products in Oracle Banking Platform. This includes product group accountin g template, product group role map, domain category accountin g template and	Y	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			domain category role map.						
3	Manage Account ing Class	Ta sk	To configure the accountin g template for product class, that comprises of Class of Class code, Class event linkage and Accountin g entry class template.	N	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Account ing Class	com.ofss.fc.app.pm.service.eventclass.EventClassExportImportService
3	Manage Domain Categor y Account ing	Ta sk	To configure the domain category accountin g template, that will be created at the time of Price Policy	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Domain Categor y Account ing	com.ofss.fc.app.pm.service.domaineventlinkage.DomainEventLinkageExportI mportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			Chart creation and updation. It comprises of Domain Category, Product Event Linkage, Accountin g Entry Template.						
3	Manage Domain Role Map	Ta sk	To configure the mapping of account role to the product ledger at domain category level.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Domain Role Map	com.ofss.fc.app.pm.service.domainrolemapping.DomainRoleHeadExportImpor tService
3	Manage Domain Categor y Settlem ent Mode	Ta sk	To associate a domain category and event to the rate type and to define settlement modes for	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Domain Categor y Settlem ent Mode	com.ofss.fc.app.pm.service.settlementmode.DomainCategorySettlementMode ExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			the rate type.						
2	Define Asset Prerequi sites	Ta sk Li st	Definition of credit policy, facility category, asset classificat ion preference s, asset classificat ion codes.	Y	Y				
3	Manage Facility Categor y	Ta sk	To configure the default attributes of a facility like revolving type, effective limit amount basis, LTV. The category will be mapped to a credit policy.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Facility Categor y	com.ofss.fc.app.lcm.service.limits.facilityCategory.FacilityCategoryExportImp ortService
3	Manage Credit Policy	Ta sk	To configure	Y	Y	OBP User	Oracle Bankin	Credit Policy	com.ofss.fc.app.pm.service.creditpolicy.CreditPolicyExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			the credit policy parameter s for origination workflow behavior as asset, credit card processin g or insurance.			Interf ace	g Platfor m		
3	Manage Asset Classifi cation Preferen ce	Ta sk	To configure the NPA preference at bank level - NPA Applicabili ty - account or party or facility. Facility Rule Clawback preference for OD/LN.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	NPA Preferen ce	com.ofss.fc.app.ac.service.classificationpreference.AssetClassificationPrefer enceExportImportService
3	Manage Asset Classifi cation Codes	Ta sk	To configure all NPA codes at	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	NPA Code	com.ofss.fc.app.ac.service.classificationcodes.AssetClassificationCodesExp ortImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			bank level. Other attributes are - Code, serial no and descriptio n Classifica tion Status - Normal or Suspende d Forward Movement - Automatic or Manual Reverse Movement - Automatic or Manual Eligibility.						
2	Define Others	Ta sk Li st	Definition of purpose codes for OD and loan.	Y	Y				
3	Manage Purpose s	Ta sk	To configure the purpose code with	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Purpose Code	com.ofss.fc.app.commonservice.core.service.purposecode.PurposeExportImp ortService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			its applicable line of business.						
2	Define Asset Classifi cation	Ta sk Li st	Definition of configurati ons that facilitates bad debts accountin g managem ent in Oracle Banking Base. This includes classificat ion rules and asset classificat ion plans.	Y	Y				
3	Manage Rules for NPA	Ta sk	To configure all the business rules required in asset classificat ion module.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m		
3	Manage	Ta sk	То	Y	Y	OBP	Oracle	NPA Plan	com.ofss.fc.app.ac.service.classificationplans.AssetClassificationPlansExport ImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
	Asset Classifi cation Plan		configure the NPA plan which comprises of the rule to be executed for loan and OD products. Plan is attached at product level.			User Interf ace	Bankin g Platfor m		
2	Define CASA Product Group	Ta sk Li st	Definition of features that determine the functionin g of the products linked to each of the CASA product groups. One product will be linked to one group and product group can	Y	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			have Linkage Types, Product or Product Group. Definition of linkages of Product Group to Business Group.						
3	Define Product Group	Ta sk Li st	Definition of features that determine the functionin g of the products linked to each of the product groups. One product will be linked to one group and product group can have Linkage	Y	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			Types, Product or Product Group. Definition of linkages of Product Group to Business Group.						
4	Manage Product Group	Ta sk	To configure the features that determine the functionin g of the products linked to each of the product groups. One product will be linked to one group and product group can be Linkage Type Product or	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Product Group	com.ofss.fc.app.pm.service.core.productgroup.ProductGroupExportImportServ ice

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			Linkage Type Product Group.						
3	Define Product Group Account ing	Ta sk Li st	Definition of product group accountin g entry template and product group role mapping.	Y	Y				
4	Manage Product Group Account ing	Ta sk	To configure the product group accountin g template, that will be created at the time of Price Policy Chart creation and updation. It comprises of - Product	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Product Group Account ing	com.ofss.fc.app.pm.service.productgroupeventlinkage.ProductGroupEventLink ageExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			Group, Product Event Linkage, Accountin g Entry Template.						
4	Manage Product Group Role Map	Ta sk	To configure the mapping of account role to the product ledger at product group level.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Product Group Role Map	com.ofss.fc.app.pm.service.productgrouprolemapping.ProductGroupRoleHead ExportImportService
3	Define CASA- Pricing Prerequi sites for Interest	Ta sk Li st	Definition of indexes, tier criteria, rate chart for use creation of price policy for interest.	Y	Y				
4	Manage Index Code	Ta sk	To configure the interest	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Index Code	com.ofss.fc.app.pricing.service.rate.index.IndexExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			index codes along with the base interest rates and effective dates maintaine d in Pricing. Interest index codes are later mapped to rate charts for tiered or non- tiered rates.						
4	Manage Tier Criteria	Ta sk	To configure the tier criteria for the index rates. Tier criteria can be Amount based, Period based, Both or None. These	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Tier Criteria	com.ofss.fc.app.pricing.service.rate.ratechart.tiercriteria.TierCriteriaMaintenan ceExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			tiers are later linked to the rate chart.						
4	Manage Rate Chart	Ta sk	To configure the interest rate offering for base interest or margin. Rate Chart can have fixed, variable or Both.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Rate Chart	com.ofss.fc.app.pricing.service.rate.ratechart.RateChartMaintenanceExportIm portService
3	Define CASA- Pricing Prerequi sites for Fees	Ta sk Li st	Definition of charge attributes and price definition for fee.	Y	Y				
4	Manage Charge Attribute	Ta sk	To configure the charge attributes that determine the behaviour of the	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Charge Attribute	com.ofss.fc.app.pricing.service.price.ChargeAttributesExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			fee/reward during Price Definition. Charge Attribute linked to a price definition cannot be deleted.						
4	Manage Price	Ta sk	To configure the price, its charge computati on logic and how to apply computed price for - Base Price, Additional Price and Discount s.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Price Code	com.ofss.fc.app.pricing.service.price.PriceExportImportService
3	Define CASA Price Policies	Ta sk Li st	Definition of Price Policy charts for Interest and Fee.	Y	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
4	Manage Price Policy Chart for Interest	Ta sk	To configure the various pricing facts to interest or margin rate chart codes. Interest policy chart are done at bank level and product group level.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m		
4	Manage Price Policy Chart for Fee	Ta sk	To configure the various pricing facts to fees rate chart codes. Interest policy chart are done at bank level and product group	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Price Policy Chart	com.ofss.fc.app.pricing.service.pricepolicychart.PricePolicyChartExportImport Service

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			level.						
3	Define Busines s Group	Ta sk Li st	Definition of business group and its linkage to product group in Oracle Banking Current Accounts and Savings Accounts, Oracle Banking Term Deposits and Oracle Banking Loans.	Y	Y				
4	Manage Busines s Group	Ta sk	To configure the business group which is a group of product groups specific to agent to identify	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Busines s Group	com.ofss.fc.app.commonservice.core.service.businessgroup.BusinessGroupE xportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			the required line of business. A bank accredits a broker/intr oducer to handle the offers that are part of a business group.						
4	Manage Busines s Group Linkage	Ta sk	To configure the addition or removal of product group from the business group.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Busines s Group Linkage	com.ofss.fc.app.pm.service.businessgroup.BusinessGroupProductGroupLinka geExportImportService
3	Define CASA Product	Ta sk Li st	Definition of CASA product configurati ons in Oracle Banking Current Accounts and	Y	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			Savings Accounts. This includes definition of product, interest rule, debit card feature, product accountin g and offer.						
4	Manage CASA Product	Ta sk	To configure a bunch of features associate d as part of a CASA offering to a customer and also link to a product class and product group.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	CASA Product	com.ofss.fc.app.pm.service.core.product.cs.DDAProductExportImportService
4	Manage CASA Rate Settlem ent	Ta sk	To associate a CASA product and event	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	CASA Rate Settlem ent Mode	com.ofss.fc.app.pm.service.settlementmode.DDARateSettlementModeExportI mportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
	Mode		to the rate type and to define settlement modes for the rate type.						
4	Manage Debit Card Feature	Ta sk	To configure the standard and generic debit card features like brand, card type, renewal details, and backgroun d details.	N	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Debit Card Feature	com.ofss.fc.app.pm.service.debitcard.DebitCardFeatureExportImportService
4	Define CASA Interest Rules	Ta sk Li st	Definition of interest rules for interest processin g of CASA products. This includes parameter s for computati on,	Y	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			accrual, capitalizat ion, settlement and charging.						
5	Manage Interest Rule	Ta sk	To configure the interest Computati on Parameter s - interest rule details, balance base, interest calculation parameter s, tax on interest details Accrual Parameter s - holiday processin g, rounding rules and accrual parameter s; Capitaliza	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Interest Rule	com.ofss.fc.app.interest.service.InterestRuleExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			tion Parameter s - holiday processin g, rounding rules, capitalizat ion parameter s; Interest Settlemen t Parameter s; Interest Charging Parameter s.						
5	Manage CASA Product Interest Linkage	Ta sk	To configure the interest rule linkage to CASA Product.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	CASA Product Interest Linkage	com.ofss.fc.app.pm.service.interestruledefinition.DDAInterestRuleDefinitionEx portImportService
5	Manage Bonus Interest Paramet er	Ta sk	To configure the bonus interest rates and validity period for the rates to saving	N	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Bonus Interest Paramet er	com.ofss.fc.app.pm.service.udm.BonusInterestUDMExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			accounts based on some criteria.						
4	Define CASA Product Account ing	Ta sk Li st	Definition of product accountin g template and product role mapping.	Y	Y				
5	Manage CASA Account ing Templat e	Ta sk	To configure the CASA product accountin g template, that comprises of - Product or Class, Product Event Linkage and Accountin g Entry Template.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	CASA Account ing Templat e	com.ofss.fc.app.pm.service.producteventlinkage.DDAProductEventLinkageEx portImportService
5	Manage CASA Account	Ta sk	To configure the	Y	Y	OBP User Interf ace	Oracle Bankin g	CASA Account Head	com.ofss.fc.app.pm.service.accountrolemapping.DDAProductRoleHeadExport ImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
	Role Map		mapping of account role to the product ledger at CASA product level.				Platfor m	Role Map	
4	Define CASA Offer	Ta sk Li st	Definition of CASA offers, transactio n restriction s, fee group linkage to offer, link offer for principle offset facility, link dependent offers, definition of campaign s and definition of offer eligibility using rule framewor k.	Y	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
5	Manage Rules for Eligibilit y	Ta sk	To configure the eligibility rule for an offer.	N	Y	OBP User Interf ace	Oracle Bankin g Platfor m		
5	Manage CASA Offer	Ta sk	To configure an offer and set its features and parameter s for a saving or overdraft product.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	CASA Offer	com.ofss.fc.app.pm.service.core.offer.cs.DDAOfferExportImportService
5	Manage CASA Transac tion Restricti on	Ta sk	To configure the restriction s at the CASA offer level for an event.	N	Y	OBP User Interf ace	Oracle Bankin g Platfor m	CASA Transac tion Restricti on	com.ofss.fc.app.pm.service.transactionrestriction.DDATransactionRestriction ExportImportService
5	Manage Fee Group	Ta sk	To configure the fee group details for various events under the	N	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Fee Group	com.ofss.fc.app.pricing.service.price.FeeConcessionGroupExportImportServic e

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			CASA domain.						
5	Manage Fee Group Offer Linkage	Ta sk	To configure the linkage of CASA offer to fee group.	N	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Fee Group Offer Linkage	com.ofss.fc.app.pricing.service.price.FeeConcessionGroupOfferLinkageExport ImportService
5	Manage CASA Offer for Offset	Ta sk	To configure the linkage of overdraft account with one or more deposit account so that the savings balance held in deposit can be used to offset the overdraft.	N	Y	OBP User Interf ace	Oracle Bankin g Platfor m	CASA Offer For Offset Facility	com.ofss.fc.app.pm.service.offeroffsetlinkage.DDAOfferOffsetLinkageExportImportService
5	Manage Depend ent CASA Offer Linkage	Ta sk	To configure the CASA offer as part of dependent linkage for	N	Y	OBP User Interf ace	Oracle Bankin g Platfor m	CASA Depend ent Offer	com.ofss.fc.app.pm.service.dependentoffer.DDADependentOfferExportImport Service

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			the list of offers.						
5	Manage Campai gn for CASA	Ta sk	To configure the campaign s on a CASA offer which has certain pricing related benefits.	Ν	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Campai gn for CASA	com.ofss.fc.app.pm.service.campaign.DDACampaignExportImportService
5	Manage Stateme nt Policy Override s	Ta sk	To configure the overrides for the statement parameter s for each offer type.	N	Y	OBP User Interf ace	Oracle Bankin g Platfor m		
5	Define CASA Price Policies	Ta sk Li st	Definition of Price Policy charts for Interest and Fee.	Y	Y				
6	Manage Price Policy Chart for Interest	Ta sk	To configure the various	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m		

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			pricing facts to interest or margin rate chart codes. Interest policy chart are done at bank level and product group level.						
6	Manage Price Control Policy Mainten ance	Ta sk	To configure the maximum and minimum interest rate.	N	N				
6	Manage Price Policy Chart for Fee	Ta sk	To configure the various pricing facts to fees rate chart codes. Interest policy chart are	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Price Policy Chart	com.ofss.fc.app.pricing.service.pricepolicychart.PricePolicyChartExportImport Service

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			done at bank level and product group level.						
3	Define CASA Docume nts	Ta sk Li st	Definition of document prerequisit es like document type, category and inserts which will be used to define document policy, rules and document template layout resolution policy.	N	Y				
4	Define Docume nt Prerequi sites	Ta sk Li st	Definition of Document Type, Category and Inserts.	Ν	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
5	Manage Docume nt Type	Ta sk	To configure the various types of document s that are prescribed for different classes of account.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Docume nt Type	com.ofss.fc.app.content.service.DocumentTypeExportImportService
5	Manage Docume nt Categor y	Ta sk	To configure the document categories and link to specific document types.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Docume nt Categor y	com.ofss.fc.app.content.service.DocumentCategoryExportImportService
5	Manage Docume nt Inserts	Ta sk	To configure the associate d document inserts required to accompan y the generated document types.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Docume nt Insert	com.ofss.fc.app.content.outbound.service.DocumentInsertExportImportServic e

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
4	Define Docume nts	Ta sk Li st	Definition of document rules, document policy and document template layout Resolution Policy in Oracle Banking Foundatio n.	Ν	Y				
5	Manage Rules for Docume nt	Ta sk	To configure all the business rules required during configurati on of document s.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m		
5	Manage Docume nt Policy	Ta sk	This is defined at the bank level to retrieve the set of document s required for an	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Docume nt Policy	com.ofss.fc.app.content.service.DocumentPolicyExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			activity which has multiple stages in the life cycle.						
5	Manage Layout Resoluti on Policy	Ta sk	To configure the template layout resolution policy to specify rules on what template must be generated.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Layout Resoluti on Policy	com.ofss.fc.app.content.outbound.service.LayoutPolicyExportImportService
3	Define CASA Alerts and Notificat ions	Ta sk Li st	Definition of rules for resolving alerts and configurin g alerts and notificatio ns for various events.	N	Y				
4	Define Alerts	Ta sk Li st	Definition of customer	N	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			alerts and notificatio ns in Oracle Banking Foundatio n, to customers and internal bank users for pre- defined financial or non- financial events. This includes message template, alert rules and alert definition s.						
5	Manage Messag e Templat e	Ta sk	To configure the templates that are predefined set of alerts or notificatio ns.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Messag e Templat e	com.ofss.fc.app.ep.service.dispatch.message.MessageTemplateExportImport Service

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
5	Manage Rules for Alerts	Ta sk	To configure all the business rules required in configurati on of alerts.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m		
5	Manage Alerts	Ta sk	To configure an alert which is the combinati on of activities, events, rules, message formats, and recipients.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Alert	com.ofss.fc.app.ep.service.action.ActivityEventActionExportImportService
2	Define Offer Bundling	Ta sk Li st	Definition of configurati ons in Oracle Banking Base, which provides product bundles and	N	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			benefits together for a customer to give a unique advantag e.						
3	Define Offer Bundles	Ta sk Li st	Definition of bundle bank policy and offer bundles.	N	Y				
4	Manage Bundle Bank Policy	Ta sk	To configure the bank- level policy parameter s related to offer bundles.	N	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Bundle Bank Policy	com.ofss.fc.app.pm.service.bundlebankpolicy.BundleBankPolicyExportImport Service
4	Manage Offer Bundle	Ta sk	To configure offer bundle and link benefits, features and offers to it. It is applicable for CASA,	Ν	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Offer Bundle	com.ofss.fc.app.pm.service.bundle.OfferBundleExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			TD and Loans.						
4	Manage Price Benefit Chart	Ta sk	To configure the benefits to be given to the accounts by way of discounts in fees or margin. The benefit is created for each campaign or the offer bundle.	Ν	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Price Benefit Chart	com.ofss.fc.app.pricing.service.pricebenefitchart.PriceBenefitChartExportImpo rtService
2	Define Investm ent - CASA	Ta sk Li st	Definition of investmen t Product Group, Product and Offer	Y	Y				
3	Manage Investm ent Group	Ta sk	To configure investmen t Product group and linked to Investmen t Product	N	N				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
3	Manage Investm ent Product	Ta sk	To Configure the investmen t product and Linked the CASA Product	Ν	Ν				
3	Manage Investm ent Offer	Ta sk	To Configure the investmen t offer and linked the Investmen t product	N	Ν				
1	Define Term Deposit s	Ta sk Li st	Definition of configurati ons to handle the deposit transactio n accounts in Oracle Banking Term Deposits.	Ν	Y				
2	Define Term Deposit Policies	Ta sk Li st	Definition of term deposit bank policy,	Y	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			policy for handling unclaimed deposits and statement policy.						
3	Manage Term Deposit Bank Policy	Ta sk	To configure the bank- level policy parameter s pertaining to term deposit products - general and channel access parameter s.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Term Deposit Bank Policy	com.ofss.fc.app.pm.service.tdbankpolicy.TDBankPolicyExportImportService
3	Manage Unclaim ed Policy	Ta sk	To configure the parameter s to handle the processin g of accounts which need to be	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Unclaim ed Policy	com.ofss.fc.app.pm.service.unclaimedpolicy.UnclaimedPolicyExportImportSer vice

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			selected as unclaime d.						
3	Manage Stateme nt Policy	Ta sk	To configure the bank- level policy parameter s related to general statement and statement frequency.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Stateme nt Policy	com.ofss.fc.app.pm.service.statementpolicy.StatementPolicyExportImportSer vice
2	Define Chart of Account s	Ta sk Li st	Definition of product ledgers for all products along with configurati on of bank, branch and inter- branch parameter s which are required for accountin g	Y	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			services.						
3	Manage Ledger	Ta sk	To configure the details of ledger, its hierarchy, GAAP linkages, position accountin g preference s, and restriction s. Allows to configure a multi- level ledger structure for the bank.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Ledger Code	com.ofss.fc.app.accounting.service.pl.productledger.ProductLedgerExportImp ortService
3	Manage Ledger Group	Ta sk	To configure the ledger group, which will have the ultimate parent for all the categories	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Ledger Group	com.ofss.fc.app.accounting.service.pl.productledgergroup.ProductLedgerGrou pExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			of ledger. This will be linked to ledger bank parameter, which will enable multiple bank under the same banking entity to share the ledger hierarchy.						
3	Manage Ledger Details	Ta sk	To configure the GAAP, SDE Class, Central Bank/Hea d Office Reporting details for the ledger.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Ledger Detail	com.ofss.fc.app.accounting.service.pl.additionaldetails.LedgerAdditionalAttribu tesExportImportService
3	Manage Ledger Bank Paramet er	Ta sk	To configure the product ledger parameter	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Ledger Bank Paramet er	com.ofss.fc.app.accounting.service.pl.BankParameter.BankParameterExportI mportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			s for the entire bank - Year-end Profit and Loss details, Inter- branch accountin g route, reporting requireme nts, system accountin g requireme nts.						
3	Manage Ledger Branch Paramet er	Ta sk	To configure the product ledger parameter s for the entire branch - various real, contingent and profit and loss suspense accounts	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Ledger Branch Paramet er	com.ofss.fc.app.accounting.service.pl.branchparameters.BranchParameterExp ortImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			for its branches, GAAP practices, the previous year's profit and loss adjustmen ts, to split their revaluatio n profits and losses.						
3	Manage Inter Branch Paramet er	Ta sk	To configure the internal ledger accounts for pairs of branches that would host the inter- branch accountin g entries.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Inter Branch Paramet er	com.ofss.fc.app.accounting.service.pl.interbranchparameter.InterBranchParam eterExportImportService
2	Define Term Deposit Account ing	Ta sk Li st	Definition of ledger accountin g for term	Y	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			deposits in Oracle Banking Term deposits. This includes domain role mapping, accountin g class, domain category accountin g and domain settlement modes.						
3	Manage Account ing Class	Ta sk	To configure the accountin g template for product class, that comprises of - Class code, Class event linkage and Accountin g entry class	Z	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Account ing Class	com.ofss.fc.app.pm.service.eventclass.EventClassExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			template.						
3	Manage Domain Categor y Account ing	Ta sk	To configure the domain category accountin g template,t hat will be created at the time of Price Policy Chart creation and updation. It comprises of - Domain Category, Product Event Linkage, Accountin g Entry Template.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Domain Categor y Account ing	com.ofss.fc.app.pm.service.domaineventlinkage.DomainEventLinkageExportImportService
3	Manage Domain Role Map	Ta sk	To configure the mapping of account role to the	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Domain Role Map	com.ofss.fc.app.pm.service.domainrolemapping.DomainRoleHeadExportImpor tService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			product ledger at domain category level.						
3	Manage Domain Categor y Settlem ent Mode	Ta sk	To associate a domain category and event to the rate type and to define settlement modes for the rate type.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Domain Categor y Settlem ent Mode	com.ofss.fc.app.pm.service.settlementmode.DomainCategorySettlementMode ExportImportService
2	Define Term Deposit Product Group	Ta sk Li st	Definition of features that determine the functionin g of the products linked to each of the term deposit product groups. One product will be	Y	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			linked to one group and product group can be Linkage Type Product or Linkage Type Product Group. Definition of Business Groups and linkage of Product Group to Business Groups.						
3	Define Product Group	Ta sk Li st	Definition of features that determine the functionin g of the products linked to each of the product groups.On	Y	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			e product will be linked to one group and product group can have Linkage Types, Product or Product Group. Definition of linkages of Product Group to Business Group.						
4	Manage Product Group	Ta sk	To configure the features that determine the functionin g of the products linked to each of the product groups. One	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Product Group	com.ofss.fc.app.pm.service.core.productgroup.ProductGroupExportImportServ ice

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			product will be linked to one group and product group can be Linkage Type Product or Linkage Type Product Group.						
3	Define Product Group Account ing	Ta sk Li st	Definition of product group accountin g entry template and product group role mapping.	Y	Y				
4	Manage Product Group Account ing	Ta sk	To configure the product group accountin g template, that will be created at	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Product Group Account ing	com.ofss.fc.app.pm.service.productgroupeventlinkage.ProductGroupEventLink ageExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			the time of Price Policy Chart creation and updation. It comprises of - Product Group, Product Event Linkage, Accountin g Entry Template.						
4	Manage Product Group Role Map	Ta sk	To configure the mapping of account role to the product ledger at product group level.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Product Group Role Map	com.ofss.fc.app.pm.service.productgrouprolemapping.ProductGroupRoleHead ExportImportService
3	Define Term Deposit- Pricing Prerequi sites for	Ta sk Li st	Definition of indexes, tier criteria, rate chart	Y	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
	Interest		for use creation of price policy for interest.						
4	Manage Index Code	Ta sk	To configure the interest index codes along with the base interest rates and effective dates maintaine d in Pricing. Interest index codes are later mapped to rate charts for tiered or non- tiered rates.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Index Code	com.ofss.fc.app.pricing.service.rate.index.IndexExportImportService
4	Manage Tier Criteria	Ta sk	To configure the tier criteria for	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Tier Criteria	com.ofss.fc.app.pricing.service.rate.ratechart.tiercriteria.TierCriteriaMaintenan ceExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			the index rates. Tier criteria can be Amount based, Period based, Both or None. The se tiers are later linked to the rate chart.						
4	Manage Rate Chart	Ta sk	To configure the interest rate offering for base interest or margin. Rate Chart can have fixed, variable or Both	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Rate Chart	com.ofss.fc.app.pricing.service.rate.ratechart.RateChartMaintenanceExportIm portService
3	Define Term Deposit- Pricing Prerequi	Ta sk Li st	Definition of fee attributes for use creation of	Y	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
	sites for Fees		price policy for fee.						
4	Manage Charge Attribute	Ta sk	To configure the charge attributes that determine the behaviour of the fee/reward during Price Definition. Charge Attribute linked to a price definition cannot be deleted.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Charge Attribute	com.ofss.fc.app.pricing.service.price.ChargeAttributesExportImportService
4	Manage Price	Ta sk	To configure the price, its charge computati on logic and how to apply computed price for - Base Price,	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Price Code	com.ofss.fc.app.pricing.service.price.PriceExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			Additional Price and Discount s.						
3	Define Term Deposit Price Policies	Ta sk Li st	Definition of price policy charts for interest and fee.	Y	Y				
4	Manage Price Policy Chart for Interest	Ta sk	To configure the various pricing facts to interest or margin rate chart codes. Interest policy chart are done at bank level and product group level.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m		
4	Manage Price Policy Chart for Fee	Ta sk	To configure the various pricing	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Price Policy Chart	com.ofss.fc.app.pricing.service.pricepolicychart.PricePolicyChartExportImport Service

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			facts to fees rate chart codes. Interest policy chart are done at bank level and product group level.						
3	Define Busines s Group	Ta sk Li st	Definition of business group and its linkage to product group in Oracle Banking Current Accounts and Savings Accounts, Oracle Banking Term Deposits and Oracle Banking Loans.	Y	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
4	Manage Busines s Group	Ta sk	To configure the business group which is a group of product groups in specific to agent to identify the required line of business. A bank accredits a broker/intr oducer to handle the offers that are part of a business group.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Busines s Group	com.ofss.fc.app.commonservice.core.service.businessgroup.BusinessGroupE xportImportService
4	Manage Busines s Group Linkage	Ta sk	To configure the addition or removal of product group from the business group.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Busines s Group Linkage	com.ofss.fc.app.pm.service.businessgroup.BusinessGroupProductGroupLinka geExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
3	Define Term Deposit Product	Ta sk Li st	Definition of Term Deposit product configurati ons in Oracle Banking Term Deposits. This includes definition of product, interest rule, product accountin g and offer.	Y	Y				
4	Manage Term Deposit Interest Payout Plan	Ta sk	To configure the restriction s on the interest payout frequency based on the deposit amount or deposit term or a combinati on of both.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Term Deposit Interest Payout Plan	com.ofss.fc.app.pm.service.tdinterestpayoutplan.TDInterestPayoutPlanExport ImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
4	Manage Term Deposit Product	Ta sk	To configure a bunch of features associate d as part of a Deposit offering to a customer and also link to a product class and product group.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Term Deposit Product	com.ofss.fc.app.pm.service.core.product.td.TDProductExportImportService
4	Manage Term Deposit Rate Settlem ent Mode	Ta sk	To associate a Deposit product and event to the rate type and to define settlement modes for the rate type.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Term Deposit Rate Settlem ent Mode	com.ofss.fc.app.pm.service.settlementmode.TermDepositRateSettlementMod eExportImportService
4	Define Term Deposit Interest Rules	Ta sk Li st	Definition of interest rules for interest processin	Y	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			g of term deposit. This includes parameter s for computati on, accrual, capitalizat ion, settlement and charging.						
5	Manage Interest Rule	Ta sk	To configure the interest Computati on Parameter s - interest rule details, balance base, interest calculation parameter s, tax on interest details Accrual Parameter	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Interest Rule	com.ofss.fc.app.interest.service.InterestRuleExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			s - holiday processin g, rounding rules and accrual parameter s; Capitaliza tion Parameter s - holiday processin g, rounding rules, capitalizat ion parameter s; Interest Settlemen t Parameter s; Interest Charging Parameter s.						
5	Manage Term Deposit Product Interest Linkage	Ta sk	To configure the interest rule linkage to deposit product.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Term Deposit Product Interest Linkage	com.ofss.fc.app.pm.service.interestruledefinition.TermDepositInterestRuleDefinitionExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
4	Define Term Deposit Product Account ing	Ta sk Li st	Definition of accountin g template configurati ons for deposit product in Oracle Banking Term Deposits. This includes product accountin g template, account role map.	Y	Y				
5	Manage Term Deposit Account ing Templat e	Ta sk	To configure the Deposit product accountin g template, that comprises of - Product or Class, Product Event Linkage	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Term Deposit Account ing Templat e	com.ofss.fc.app.pm.service.producteventlinkage.TermDepositProductEventLin kageExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			and Accountin g Entry Template.						
5	Manage Term Deposit Account Role Map	Ta sk	To configure the mapping of account role to the product ledger at Deposit product level.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Term Deposit Account Head Role Map	com.ofss.fc.app.pm.service.accountrolemapping.TermDepositProductRoleHea dExportImportService
4	Define Term Deposit Offer	Ta sk Li st	Definition of configurati on that provides ability to have multiple offers for a single deposit product in Oracle Banking Term Deposits. This includes definition of offer	Y	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			details, rules, restriction s and eligibility.						
5	Manage Rules for Eligibilit y	Ta sk	To configure the eligibility rule for an offer.	N	Y	OBP User Interf ace	Oracle Bankin g Platfor m		
5	Manage Term Deposit Offer	Ta sk	To configure an offer and set its features and parameter s for a deposit product.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Term Deposit Offer	com.ofss.fc.app.pm.service.core.offer.td.TDOfferExportImportService
5	Manage Term Deposit Transac tion Restricti on	Ta sk	To configure the restriction s at the Deposit offer level for an event.	N	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Term Deposit Transac tion Restricti on	com.ofss.fc.app.pm.service.transactionrestriction.TermDepositTransactionRe strictionExportImportService
5	Manage Campai gn for Term	Ta sk	To configure the	N	Y	OBP User Interf ace	Oracle Bankin g Platfor	Campai gn for Term Deposit	com.ofss.fc.app.pm.service.campaign.TermDepositCampaignExportImportSer vice

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
	Deposit		campaign s on a deposit offer which has certain pricing related benefits.				m		
5	Manage Stateme nt Policy Override s	Ta sk	To configure the overrides for the statement parameter s for each offer type	N	Y	OBP User Interf ace	Oracle Bankin g Platfor m		
5	Define Term Deposit Price Policies	Ta sk Li st	Definition of price policy charts for interest and fee.	Y	Y				
6	Manage Price Policy Chart for Interest	Ta sk	To configure the various pricing facts to interest or margin rate chart codes.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m		

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			Interest policy chart are done at bank level and product group level.						
6	Manage Price Control Policy Mainten ance	Ta sk	To configure the maximum and minimum interest rate.	N	Ν				
6	Manage Price Policy Chart for Fee	Ta sk	To configure the various pricing facts to fees rate chart codes. Interest policy chart are done at bank level and product group level.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Price Policy Chart	com.ofss.fc.app.pricing.service.pricepolicychart.PricePolicyChartExportImport Service

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
3	Define Term Deposit Docume nts	Ta sk Li st	Definition of document policy, rules and document template layout resolution policy for term deposit products.	N	Y				
4	Define Docume nt Prerequi sites	Ta sk Li st	Definition of Document Type, Category and Inserts.	N	Y				
5	Manage Docume nt Type	Ta sk	To configure the various types of document s that are prescribed for different classes of account.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Docume nt Type	com.ofss.fc.app.content.service.DocumentTypeExportImportService
5	Manage Docume	Ta sk	To configure	Y	Y	OBP User	Oracle Bankin	Docume nt	com.ofss.fc.app.content.service.DocumentCategoryExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
	nt Categor y		the document categories and link to specific document types.			Interf ace	g Platfor m	Categor y	
5	Manage Docume nt Inserts	Ta sk	To configure the associate d document inserts required to accompan y the generated document types.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Docume nt Insert	com.ofss.fc.app.content.outbound.service.DocumentInsertExportImportServic e
4	Define Docume nts	Ta sk Li st	Definition of document rules, document policy and document template layout Resolution Policy in Oracle Banking Foundatio n.	N	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
5	Manage Rules for Docume nt	Ta sk	To configure all the business rules required during configurati on of document s.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m		
5	Manage Docume nt Policy	Ta sk	This is defined at the bank level to retrieve the set of document s required for an activity which has multiple stages in the life cycle.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Docume nt Policy	com.ofss.fc.app.content.service.DocumentPolicyExportImportService
5	Manage Layout Resoluti on Policy	Ta sk	To configure the template layout resolution policy to specify rules on	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Layout Resoluti on Policy	com.ofss.fc.app.content.outbound.service.LayoutPolicyExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			what template must be generated.						
3	Define Term Deposit Alerts and Notificat ions	Ta sk Li st	Definition of alerts and notificatio ns in Oracle Banking Base to suit needs of term deposit products.	N	Y				
4	Define Alerts	Ta sk Li st	Definition of customer alerts and notificatio ns in Oracle Banking Foundatio n, to customers and internal bank users for pre- defined financial or non-	Ν	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			financial events. This includes message template, alert rules and alert definition s.						
5	Manage Messag e Templat e	Ta sk	To configure the templates that are predefined set of alerts or notificatio ns.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Messag e Templat e	com.ofss.fc.app.ep.service.dispatch.message.MessageTemplateExportImport Service
5	Manage Rules for Alerts	Ta sk	To configure all the business rules required in configurati on of alerts.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m		
5	Manage Alerts	Ta sk	To configure an alert which is the	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Alert	com.ofss.fc.app.ep.service.action.ActivityEventActionExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			combinati on of activities, events, rules, message formats, and recipients.						
2	Define Offer Bundling	Ta sk Li st	Definition of configurati ons in Oracle Banking Base, which provides product bundles and benefits together for a customer to give a unique advantag e.	N	Y				
3	Define Offer Bundles	Ta sk Li st	Definition of bundle bank policy and offer bundles.	N	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
4	Manage Bundle Bank Policy	Ta sk	To configure the bank- level policy parameter s related to offer bundles.	Ν	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Bundle Bank Policy	com.ofss.fc.app.pm.service.bundlebankpolicy.BundleBankPolicyExportImport Service
4	Manage Offer Bundle	Ta sk	To configure offer bundle and link benefits, features and offers to it. It is applicable for CASA, TD and Loans.	Ν	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Offer Bundle	com.ofss.fc.app.pm.service.bundle.OfferBundleExportImportService
4	Manage Price Benefit Chart	Ta sk	To configure the benefits to be given to the accounts by way of discounts in fees or margin. The benefit is	Ν	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Price Benefit Chart	com.ofss.fc.app.pricing.service.pricebenefitchart.PriceBenefitChartExportImpo rtService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			created for each campaign or the offer bundle.						
2	Define Investm ent - Term Deposit	Ta sk Li st	Definition of investmen t Product Group, Product and Offer	Y	Y				
3	Manage Investm ent Group	Ta sk	To configure investmen t Product group and linked to Investmen t Product	Ν	Ν				
3	Manage Investm ent Product	Ta sk	To Configure the investmen t product and Linked the CASA Product	Ν	Ν				
3	Manage Investm ent Offer	Ta sk	To Configure the investmen t offer and linked the	N	N				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			Investmen t product						
1	Define Loans	Ta sk Li st	Definition of configurati ons to handle the loan transactio n accounts in Oracle Banking Loans.	N	Y				
2	Define Loans Policies	Ta sk Li st	Definition of loan bank policy, statement policy and hardship relief policy.	Y	Y				
3	Manage Loan Bank Policy	Ta sk	To configure the bank- level policy parameter s pertaining to loan products - control	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Loan Bank Policy	com.ofss.fc.app.pm.service.loanbankpolicy.LoanBankPolicyExportImportServi ce

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			parameter s, reprice parameter s for loans, UDM and channel access parameter s.						
3	Manage Hardshi p Policy	Ta sk	To configure the bank- level policy parameter s related to hardship relief types for loan and CASA product class.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Hardshi p Policy	com.ofss.fc.app.pm.service.hardship.HardshipPolicyExportImportService
3	Manage Stateme nt Policy	Ta sk	To configure the bank- level policy parameter s related to general statement and	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Stateme nt Policy	com.ofss.fc.app.pm.service.statementpolicy.StatementPolicyExportImportSer vice

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			statement frequency.						
2	Define Chart of Account s	Ta sk Li st	Definition of product ledgers for all products along with configurati on of bank, branch and inter- branch parameter s which are required for accountin g services.	Y	Y				
3	Manage Ledger	Ta sk	To configure the details of ledger, its hierarchy, GAAP linkages, position accountin g preference s, and	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Ledger Code	com.ofss.fc.app.accounting.service.pl.productledger.ProductLedgerExportImp ortService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			restriction s. Allows to configure a multi- level ledger structure for the bank.						
3	Manage Ledger Group	Ta sk	To configure the ledger group, which will have the ultimate parent for all the categories of ledger. This will be linked to ledger bank parameter, which will enable multiple bank under the same banking entity to share the ledger	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Ledger Group	com.ofss.fc.app.accounting.service.pl.productledgergroup.ProductLedgerGrou pExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			hierarchy.						
3	Manage Ledger Details	Ta sk	To configure the GAAP, SDE Class, Central Bank/Hea d Office Reporting details for the ledger.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Ledger Detail	com.ofss.fc.app.accounting.service.pl.additionaldetails.LedgerAdditionalAttribu tesExportImportService
3	Manage Ledger Bank Paramet er	Ta sk	To configure the product ledger parameter s for the entire bank - Year-end Profit and Loss details, Inter- branch accountin g route, reporting requireme nts, system accountin g	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Ledger Bank Paramet er	com.ofss.fc.app.accounting.service.pl.BankParameter.BankParameterExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			requireme nts.						
3	Manage Ledger Branch Paramet er	Ta sk	To configure the product ledger parameter s for the entire branch - various real, contingent and profit and loss suspense accounts for its branches, GAAP practices, the previous year's profit and loss adjustmen ts, to split their revaluatio n profits and losses.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Ledger Branch Paramet er	com.ofss.fc.app.accounting.service.pl.branchparameters.BranchParameterExp ortImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
3	Manage Inter Branch Paramet er	Ta sk	To configure the internal ledger accounts for pairs of branches that would host the inter- branch accountin g entries.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Inter Branch Paramet er	com.ofss.fc.app.accounting.service.pl.interbranchparameter.InterBranchParam eterExportImportService
2	Define Loans Account ing	Ta sk Li st	Definition of ledger accountin g for loans in Oracle Banking Loans. This includes domain role mapping, accountin g class, domain category accountin g and domain settlement modes.	Y	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
3	Manage Account ing Class	Ta sk	To configure the accountin g template for product class, that comprises of Class of Class code, Class event linkage and Accountin g entry class template.	Ν	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Account ing Class	com.ofss.fc.app.pm.service.eventclass.EventClassExportImportService
3	Manage Domain Categor y Account ing	Ta sk	To configure the domain category accountin g template, that will be created at the time of Price Policy Chart creation and updation.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Domain Categor y Account ing	com.ofss.fc.app.pm.service.domaineventlinkage.DomainEventLinkageExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			It comprises of Domain Category, Product Event Linkage, Accountin g Entry Template.						
3	Manage Domain Role Map	Ta sk	To configure the mapping of account role to the product ledger at domain category level.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Domain Role Map	com.ofss.fc.app.pm.service.domainrolemapping.DomainRoleHeadExportImpor tService
3	Manage Domain Categor y Settlem ent Mode	Ta sk	To associate a domain category and event to the rate type and to define settlement modes for the rate type.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Domain Categor y Settlem ent Mode	com.ofss.fc.app.pm.service.settlementmode.DomainCategorySettlementMode ExportImportService
2	Define	Та	Definition	Y	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
	Asset Prerequi sites	sk Li st	of credit policy, facility category, asset classificat ion preference s, asset classificat ion codes.						
3	Manage Facility Categor y	Ta sk	To configure the default attributes of a facility like revolving type, effective limit amount basis, LTV. The category will be mapped to a credit policy.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Facility Categor y	com.ofss.fc.app.lcm.service.limits.facilityCategory.FacilityCategoryExportImp ortService
3	Manage Credit Policy	Ta sk	To configure the credit policy parameter s for	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Credit Policy	com.ofss.fc.app.pm.service.creditpolicy.CreditPolicyExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			origination workflow behavior as asset, credit card processin g or insurance.						
3	Manage Asset Classifi cation Preferen ce	Ta sk	To configure the NPA preference at bank level - NPA Applicabili ty - account or party or facility. Facility. Rule Clawback preference for OD/LN.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	NPA Preferen ce	com.ofss.fc.app.ac.service.classificationpreference.AssetClassificationPrefer enceExportImportService
3	Manage Asset Classifi cation Codes	Ta sk	To configure all NPA codes at bank level. Other attributes are -	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	NPA Code	com.ofss.fc.app.ac.service.classificationcodes.AssetClassificationCodesExp ortImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			Code, serial number and descriptio n, Classifica tion Status - Normal or Suspende d, Forward Movement - Automatic or Manual, Reverse Movement - Automatic or Manual, Eligibility.						
2	Define Others	Ta sk Li st	Definition of purpose codes for OD and loan.	Y	Y				
3	Manage Purpose s	Ta sk	To configure the purpose code with its applicable line of	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Purpose Code	com.ofss.fc.app.commonservice.core.service.purposecode.PurposeExportImp ortService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			business.						
2	Define Asset Classifi cation	Ta sk Li st	Definition of configurati ons that facilitates bad debts accountin g managem ent in Oracle Banking Base. This includes classificat ion rules and asset classificat ion plans.	Y	Y				
З	Manage Rules for NPA	Ta sk	To configure all the business rules required in asset classificat ion module	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m		
3	Manage Asset Classifi cation Plan	Ta sk	To configure the NPA plan which comprises	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	NPA Plan	com.ofss.fc.app.ac.service.classificationplans.AssetClassificationPlansExport ImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			of the rule to be executed for loan and OD products. Plan is attached at product level.						
2	Define Loans Product Group	Ta sk Li st	Definition of features that determine the functionin g of the products linked to each of the lending product groups. One product will be linked to one group and product group can have linkage types product or product or	Y	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			group. Definition of linkages of product group to business group.						
3	Define Product Group	Ta sk Li st	Definition of features that determine the functionin g of the products linked to each of the product groups. One product will be linked to one group and product group can have Linkage Types, Product or Product Group. Definition of linkages	Y	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			of Product Group to Business Group.						
4	Manage Product Group	Ta sk	To configure the features that determine the functionin g of the products linked to each of the product groups. One product will be linked to one group and product group can be Linkage Type Product or Linkage Type Product Group.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Product Group	com.ofss.fc.app.pm.service.core.productgroup.ProductGroupExportImportServ ice
3	Define	Та	Definition	Y	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
	Product Group Account ing	sk Li st	of product group accountin g entry template and product group role mapping.						
4	Manage Product Group Account ing	Ta sk	To configure the product group accountin g template, that will be created at the time of Price Policy Chart creation and updation. It comprises of Product Group, Product Event Linkage, Accountin g Entry Template.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Product Group Account ing	com.ofss.fc.app.pm.service.productgroupeventlinkage.ProductGroupEventLink ageExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
4	Manage Product Group Role Map	Ta sk	To configure the mapping of account role to the product ledger at product group level.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Product Group Role Map	com.ofss.fc.app.pm.service.productgrouprolemapping.ProductGroupRoleHead ExportImportService
3	Define Loans- Pricing Prerequi sites for Interest	Ta sk Li st	Definition of indexes, tier criteria, rate chart for use creation of price policy for interest.	Y	Y				
4	Manage Index Code	Ta sk	To configure the interest index codes along with the base interest rates and effective dates	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Index Code	com.ofss.fc.app.pricing.service.rate.index.IndexExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			maintaine d in Pricing. Interest index codes are later mapped to rate charts for tiered or non- tiered rates.						
4	Manage Tier Criteria	Ta sk	To configure the tier criteria for the index rates. Tier criteria can be Amount based, Period based, Both or None. These tiers are later linked to the rate chart.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Tier Criteria	com.ofss.fc.app.pricing.service.rate.ratechart.tiercriteria.TierCriteriaMaintenan ceExportImportService
4	Manage Rate Chart	Ta sk	To configure	Y	Y	OBP User Interf	Oracle Bankin g	Rate Chart	com.ofss.fc.app.pricing.service.rate.ratechart.RateChartMaintenanceExportIm portService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			the interest rate offering for base interest or margin. Rate Chart can have fixed, variable or Both.			ace	Platfor m		
3	Define Loans- Pricing Prerequi sites for Fees	Ta sk Li st	Definition of charge attributes and price definition for fee.	Y	Y				
4	Manage Charge Attribute	Ta sk	To configure the charge attributes that determine the behaviour of the fee/reward during Price Definition. Charge Attribute linked to a	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Charge Attribute	com.ofss.fc.app.pricing.service.price.ChargeAttributesExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			price definition cannot be deleted.						
4	Manage Price	Ta sk	To configure the price, its charge computati on logic and how to apply computed price for - Base Price, Additional Price and Discount s.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Price Code	com.ofss.fc.app.pricing.service.price.PriceExportImportService
3	Define Loans Price Policies	Ta sk Li st	Definition of price policy charts for interest and fee.	Y	Y				
4	Manage Price Policy Chart for Interest	Ta sk	To configure the various pricing facts to interest or margin	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m		

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			rate chart codes. Interest policy chart are done at bank level and product group level.						
4	Manage Price Policy Chart for Fee	Ta sk	To configure the various pricing facts to fees rate chart codes. Interest policy chart are done at bank level and product group level.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Price Policy Chart	com.ofss.fc.app.pricing.service.pricepolicychart.PricePolicyChartExportImport Service
3	Define Busines s Group	Ta sk Li st	Definition of business group and its linkage	Y	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			to product group in Oracle Banking Current Accounts and Savings Accounts, Oracle Banking Term Deposits and Oracle Banking Loans.						
4	Manage Busines s Group	Ta sk	To configure the business group which is a group of product groups in specific to agent to identify the required line of business. A bank accredits a broker/intr	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Busines s Group	com.ofss.fc.app.commonservice.core.service.businessgroup.BusinessGroupE xportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			oducer to handle the offers that are part of a business group.						
4	Manage Busines s Group Linkage	Ta sk	To configure the addition or removal of product group from the business group.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Busines s Group Linkage	com.ofss.fc.app.pm.service.businessgroup.BusinessGroupProductGroupLinka geExportImportService
3	Define Loans Product	Ta sk Li st	Definition of Ioan product configurati ons in Oracle Banking Loans. This includes definition of product, interest rule, product accountin g and offer.	Y	¥				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
4	Manage Loan Product	Ta sk	To configure a bunch of features associate d as part of a Loan offering to a customer and also link to a product class and product group.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Loan Product	com.ofss.fc.app.pm.service.core.product.In.LoanProductExportImportService
4	Manage Loan Rate Settlem ent Mode	Ta sk	To associate a Loan product and event to the rate type and to define settlement modes for the rate type.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Loan Rate Settlem ent Mode	com.ofss.fc.app.pm.service.settlementmode.LoanRateSettlementModeExportImportService
4	Define Loans Interest Rules	Ta sk Li st	Definition of interest rules for interest processin g of loans. This	Y	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			includes parameter s for computati on, accrual, capitalizat ion, settlement and charging.						
5	Manage Interest Rule	Ta sk	To configure the interest Computati on Parameter s - interest rule details, balance base, interest calculation parameter s, tax on interest details; Accrual Parameter s - holiday processin g,	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Interest Rule	com.ofss.fc.app.interest.service.InterestRuleExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			rounding rules and accrual parameter s; Capitaliza tion Parameter s - holiday processin g, rounding rules, capitalizat ion parameter s; Interest Settlemen t Parameter s; Interest Charging Parameter s.						
5	Manage Loan Product Interest Linkage	Ta sk	To configure the interest rule linkage to loan product.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Loan Product Interest Linkage	com.ofss.fc.app.pm.service.interestruledefinition.LoanInterestRuleDefinitionEx portImportService
4	Define Loans Product	Ta sk Li	Definition of accountin	Y	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
	Account ing	st	g template for loan product and loan account role mapping.						
5	Manage Loan Account ing Templat e	Ta sk	To configure the Loan product accountin g template, that comprises of Product or Class, Product Event Linkage and Accountin g Entry Template.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Loan Account ing Templat e	com.ofss.fc.app.pm.service.producteventlinkage.LoanProductEventLinkageEx portImportService
5	Manage Loan Account Role Map	Ta sk	To configure the mapping of account role to the product ledger at Loan product	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Loan Account Head Role Map	com.ofss.fc.app.pm.service.accountrolemapping.LoanProductRoleHeadExport ImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			level.						
4	Define Loans Offer	Ta sk Li st	Definition of loan offers and configurin g installmen t rules, loan schedule s, transactio n restriction s, link offer for principal offset facility, link dependent offers, definition of campaign s and definition of offer eligibility using rule framewor k.	Y	Y				
5	Manage Rules for	Ta sk	To configure the	N	Y	OBP User Interf	Oracle Bankin g		

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
	Eligibilit y		eligibility rule for an offer.			ace	Platfor m		
5	Manage Installm ent Rule	Ta sk	To configure the loan installmen t rule with details of rule, computati on formula (IPI, EIPI, IOI), Date Basis for interest and principal and rounding rules.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Installm ent Rule	com.ofss.fc.app.loan.installmentRule.LoanInstallmentRuleExportImportService
5	Manage Schedul e Type	Ta sk	To configure the loan schedule details - Various stages and the installmen t rule linked to the same Interest processin	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Schedul e Type	com.ofss.fc.app.loan.schedule.type.LoanScheduleTypeExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			g details Installmen t details.						
5	Manage Loan Offer	Ta sk	To configure an offer and set its features and parameter s for a loan product.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Loan Offer	com.ofss.fc.app.pm.service.core.offer.In.LoanOfferExportImportService
5	Manage Loan Transac tion Restricti on	Ta sk	To configure the restriction s at the Loan offer level for an event.	N	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Loan Transac tion Restricti on	com.ofss.fc.app.pm.service.transactionrestriction.LoanTransactionRestriction ExportImportService
5	Manage Fee Group	Ta sk	To configure the fee group details for various events under the CASA domain.	Ν	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Fee Group	com.ofss.fc.app.pricing.service.price.FeeConcessionGroupExportImportServic e
5	Manage Fee Group Offer	Ta sk	To configure the linkage of CASA	N	Y	OBP User Interf ace	Oracle Bankin g Platfor	Fee Group Offer Linkage	com.ofss.fc.app.pricing.service.price.FeeConcessionGroupOfferLinkageExport ImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
	Linkage		offer to fee group.				m		
5	Manage Loan Offer for Offset	Ta sk	To configure the linkage of loan account with one or more deposit account so that the savings balance held in deposit can be used to offset the overdraft.	Ν	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Loan Offer For Offset Facility	com.ofss.fc.app.pm.service.offeroffsetlinkage.LoanOfferOffsetLinkageExportImportService
5	Manage Depend ent Loan Offer Linkage	Ta sk	To configure the loan offer as part of dependent linkage for the list of offers.	N	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Loan Depend ent Offer	com.ofss.fc.app.pm.service.dependentoffer.LoanDependentOfferExportImport Service
5	Manage Campai gn for Loan	Ta sk	To configure the campaign s on a loan	N	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Campai gn for Loan	com.ofss.fc.app.pm.service.campaign.LoanCampaignExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			offer which has certain pricing related benefits.						
5	Manage Stateme nt Policy Override s	Ta sk	To configure the overrides for the statement parameter s for each offer type.	N	Y	OBP User Interf ace	Oracle Bankin g Platfor m		
5	Define Loans Price Policies	Ta sk Li st	Definition of price policy charts for interest and fee.	Y	Y				
6	Manage Price Policy Chart for Interest	Ta sk	To configure the various pricing facts to interest or margin rate chart codes. Interest policy chart are	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m		

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			done at bank level and product group level.						
6	Manage Price Control Policy Mainten ance	Ta sk	To configure the maximum and minimum interest rate.	N	N				
6	Manage Price Policy Chart for Fee	Ta sk	To configure the various pricing facts to fees rate chart codes. Interest policy chart are done at bank level and product group level.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Price Policy Chart	com.ofss.fc.app.pricing.service.pricepolicychart.PricePolicyChartExportImport Service
3	Define Loans	Ta sk	Definition	Ν	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
	Docume nts	Li st	of document type, category and inserts which will be used for definition of document policy, rules and document template layout resolution policy.						
4	Define Docume nt Prerequi sites	Ta sk Li st	Definition of Document Type, Category and Inserts.	Ν	Y				
5	Manage Docume nt Type	Ta sk	To configure the various types of document s that are prescribed for	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Docume nt Type	com.ofss.fc.app.content.service.DocumentTypeExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			different classes of account.						
5	Manage Docume nt Categor y	Ta sk	To configure the document categories and link to specific document types.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Docume nt Categor y	com.ofss.fc.app.content.service.DocumentCategoryExportImportService
5	Manage Docume nt Inserts	Ta sk	To configure the associate d document inserts required to accompan y the generated document types.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Docume nt Insert	com.ofss.fc.app.content.outbound.service.DocumentInsertExportImportServic e
4	Define Docume nts	Ta sk Li st	Definition of document rules, document policy and document template layout	Ν	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			Resolution Policy in Oracle Banking Foundatio n.						
5	Manage Rules for Docume nt	Ta sk	To configure all the business rules required during configurati on of document s.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m		
5	Manage Docume nt Policy	Ta sk	This is defined at the bank level to retrieve the set of document s required for an activity which has multiple stages in the life cycle.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Docume nt Policy	com.ofss.fc.app.content.service.DocumentPolicyExportImportService
5	Manage Layout	Ta sk	To configure	Y	Y	OBP User	Oracle Bankin	Layout Resoluti	com.ofss.fc.app.content.outbound.service.LayoutPolicyExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
	Resoluti on Policy		the template layout resolution policy to specify rules on what template must be generated.			Interf ace	g Platfor m	on Policy	
3	Define Loans Alerts and Notificat ions	Ta sk Li st	Definition of alerts and notificatio ns and rules to resolve alerts in Oracle Banking Base to suit needs of lending products.	Ν	Y				
4	Define Alerts	Ta sk Li st	Definition of customer alerts and notificatio ns in Oracle Banking Foundatio	N	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			n, to customers and internal bank users for pre- defined financial or non- financial events. This includes message template, alert rules and alert definition s.						
5	Manage Messag e Templat e	Ta sk	To configure the templates that are predefined set of alerts or notificatio ns.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Messag e Templat e	com.ofss.fc.app.ep.service.dispatch.message.MessageTemplateExportImport Service
5	Manage Rules for Alerts	Ta sk	To configure all the business rules	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m		

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			required in configurati on of alerts.						
5	Manage Alerts	Ta sk	To configure an alert which is the combinati on of activities, events, rules, message formats, and recipients.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Alert	com.ofss.fc.app.ep.service.action.ActivityEventActionExportImportService
2	Define Offer Bundling	Ta sk Li st	Definition of configurati ons in Oracle Banking Base, which provides product bundles and benefits together for a customer to give a	Ν	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			unique advantag e.						
3	Define Offer Bundles	Ta sk Li st	Definition of bundle bank policy and offer bundles.	N	Y				
4	Manage Bundle Bank Policy	Ta sk	To configure the bank- level policy parameter s related to offer bundles.	N	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Bundle Bank Policy	com.ofss.fc.app.pm.service.bundlebankpolicy.BundleBankPolicyExportImport Service
4	Manage Offer Bundle	Ta sk	To configure offer bundle and link benefits, features and offers to it. It is applicable for CASA, TD and Loans.	N	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Offer Bundle	com.ofss.fc.app.pm.service.bundle.OfferBundleExportImportService
4	Manage Price Benefit	Ta sk	To configure	N	Y	OBP User Interf	Oracle Bankin g	Price Benefit Chart	com.ofss.fc.app.pricing.service.pricebenefitchart.PriceBenefitChartExportImpo rtService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
	Chart		the benefits to be given to the accounts by way of discounts in fees or margin. The benefit is created for each campaign or the offer bundle.			ace	Platfor m		
1	Define Relation ship Pricing	Ta sk Li st	Definition of configurati ons to handle the administra tive operations in Oracle Banking Relations hip Pricing.	Ζ	Y				
2	Define Pricing For Interest	Ta sk Li st	Definition of price policy for interest in Oracle	Y	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			Banking Relations hip Pricing, which facilitates the pricing policies managem ent. This includes definition of indexes, tier criteria, rate chart, price policy chart and price benefit chart.						
3	Manage Rules for Interest	Ta sk	To configure all the business rules required for index code and rate chart linkage.	N	Y	OBP User Interf ace	Oracle Bankin g Platfor m		
3	Manage Index	Ta sk	То	Y	Y	OBP User	Oracle Bankin	Index Code	com.ofss.fc.app.pricing.service.rate.index.IndexExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
	Code		configure the interest index codes along with the base interest rates and effective dates maintaine d in Pricing. Interest index codes are later mapped to rate charts for tiered or non- tiered rates.			Interface	g Platfor m		
3	Manage Tier Criteria	Ta sk	To configure the tier criteria for the index rates. Tier criteria can be Amount based, Period based,	N	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Tier Criteria	com.ofss.fc.app.pricing.service.rate.ratechart.tiercriteria.TierCriteriaMaintenan ceExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			Both or None. These tiers are later linked to the rate chart.						
3	Manage Rate Chart	Ta sk	To configure the interest rate offering for base interest or margin. Rate Chart can have fixed, variable or Both.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Rate Chart	com.ofss.fc.app.pricing.service.rate.ratechart.RateChartMaintenanceExportIm portService
3	Manage Price Policy Chart for Interest	Ta sk	To configure the various pricing facts to interest or margin rate chart codes. Interest policy chart are	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m		

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			done at bank level and product group level.						
3	Manage Price Control Policy Mainten ance	Ta sk	To configure the maximum and minimum interest rate.	N	N				
3	Manage Price Benefit Chart	Ta sk	To configure the benefits to be given to the accounts by way of discounts in fees or margin. The benefit is created for each campaign or the offer bundle.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Price Benefit Chart	com.ofss.fc.app.pricing.service.pricebenefitchart.PriceBenefitChartExportImpo rtService
2	Define Pricing For Fee	Ta sk	Definition	Y	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
		Li st	of price policy for fees in Oracle Banking Relations hip Pricing, which facilitates the pricing policies managem ent. This includes definition of charge attributes, price, price policy chart, price benefit chart and fee refund.						
3	Manage Purpose s	Ta sk	To configure the purpose code with its applicable line of business.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Purpose Code	com.ofss.fc.app.commonservice.core.service.purposecode.PurposeExportImp ortService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
3	Manage Charge Attribute	Ta sk	To configure the charge attributes that determine the behaviour of the fee/reward during Price Definition. Charge Attribute linked to a price definition cannot be deleted.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Charge Attribute	com.ofss.fc.app.pricing.service.price.ChargeAttributesExportImportService
3	Manage Rules for Fee	Ta sk	To configure all the business rules required for price definition s.	N	Y	OBP User Interf ace	Oracle Bankin g Platfor m		
3	Manage Price	Ta sk	To configure the price, its charge computati on logic	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Price Code	com.ofss.fc.app.pricing.service.price.PriceExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			and how to apply computed price for - Base Price, Additional Price and Discounts						
3	Manage Price Policy Chart for Fee	Ta sk	To configure the various pricing facts to fees rate chart codes. Interest policy chart are done at bank level and product group level.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Price Policy Chart	com.ofss.fc.app.pricing.service.pricepolicychart.PricePolicyChartExportImport Service
3	Manage Fee Group	Ta sk	To configure the fee group details for various events under the	N	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Fee Group	com.ofss.fc.app.pricing.service.price.FeeConcessionGroupExportImportServic e

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			CASA domain.						
3	Manage Fee Group Offer Linkage	Ta sk	To configure the linkage of CASA offer to fee group.	N	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Fee Group Offer Linkage	com.ofss.fc.app.pricing.service.price.FeeConcessionGroupOfferLinkageExport ImportService
3	Manage Fee Refund	Ta sk	To configure the criteria based on which the fees charged earlier would be refunded.	N	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Fee Refund	com.ofss.fc.app.pricing.service.periodicrefund.PeriodicRefundOfFeeDefinition ExportImportService
3	Manage Price Benefit Chart	Ta sk	To configure the benefits to be given to the accounts by way of discounts in fees or margin. The benefit is created for each campaign	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Price Benefit Chart	com.ofss.fc.app.pricing.service.pricebenefitchart.PriceBenefitChartExportImpo rtService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			or the offer bundle.						
1	Define Originati ons	Ta sk Li st	Definition of configurati ons to handle the administra tive operations in Oracle Banking Originatio ns.	N	Y				
2	Define Originati on Setup	Ta sk Li st	Definition of configurati ons in Oracle Banking Originatio ns, that facilitates Applicatio n Managem ent.	Y	Y				
3	Manage Credit Reason Code	Ta sk	To configure reason codes that will be used for interaction	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Credit Reason Code	com.ofss.fc.app.origination.service.lending.core.credit.reason.CreditReasonCo deExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			with credit decision engine.						
3	Manage Rules for Originati on	Ta sk	To configure all the business rules required in origination module	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m		
3	Manage Originati on Preferen ce	Ta sk	To configure the origination preference parameter s.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Originati on Preferen ce	com.ofss.fc.app.origination.service.core.preference.OriginationPreferenceExpo rtImportService
3	Manage Funding Paramet er	Ta sk	To configure the various funding codes by the funding types like Purchase and Cost, Pricing, LMI, Legal, and facility.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Funding Paramet er	com.ofss.fc.app.origination.service.core.application.funding.FundingParameter CodeExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
3	Manage Funding Table Templat e	Ta sk	To configure a funding template that comprises of linked product group and its purpose, linked parameter s like Legal Cost, Savings, and Bank Fees.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Funding Table Templat e	com.ofss.fc.app.origination.service.core.application.funding.FundingTableTem plateExportImportService
3	Manage Verificat ion Type	Ta sk	To configure the verificatio n types and the associate d document s.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Verificat ion Type	com.ofss.fc.app.commonservice.core.service.verification.VerificationTypeExp ortImportService
3	Manage Verificat ion Categor y	Ta sk	To configure the logical group of one or more	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Verificat ion Categor y	com.ofss.fc.app.commonservice.core.service.verification.VerificationCategory ExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			verificatio n types which can be used to indicate to the users the set of verificatio n to be performed.						
3	Manage Verificat ion Policy	Ta sk	To configure the checklist policy providing a decision table that map certain criteria with the verificatio n categorie s.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Verificat ion Policy	com.ofss.fc.app.commonservice.core.service.verification.VerificationPolicyEx portImportService
2	Define Credit Cards	Ta sk Li st	Definition of configurati ons to handle the origination of a credit card applicatio	N	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			n.						
3	Manage Affinity	Ta sk	To configure affinity and linked to Credit card Offer	N	N				
3	Define Credit Cards Policies	Ta sk Li st	Definition of credit policy and hardship relief policy.	Y	Y				
4	Manage Credit Policy	Ta sk	To configure the credit policy parameter s for origination workflow behavior as asset, credit card processin g or insurance.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Credit Policy	com.ofss.fc.app.pm.service.creditpolicy.CreditPolicyExportImportService
3	Define Credit Cards Product Group	Ta sk Li st	Definition of features that determine the	Y	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			functionin g of the products linked to each of the credit card product groups. One product will be linked to one group and product group can have linkage types product or product or product or product or product or product or product or product or product group. Definition of linkages of product group to business group.						
4	Define Product Group	Ta sk Li st	Definition of features that determine the	Y	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			functionin g of the products linked to each of the product groups. One product will be linked to one group and product group can have Linkage Types, Product or Product or Product Group. Definition of linkages of Product Group to Business Group.						
5	Manage Product Group	Ta sk	To configure the features that determine	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Product Group	com.ofss.fc.app.pm.service.core.productgroup.ProductGroupExportImportServ ice

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			the functionin g of the products linked to each of the product groups. One product will be linked to one group and product group can be Linkage Type Product or Linkage Type Product Group.						
4	Define Busines s Group	Ta sk Li st	Definition of business group and its linkage to product group in Oracle Banking Current Accounts	Y	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			and Savings Accounts, Oracle Banking Term Deposits and Oracle Banking Loans.						
5	Manage Busines s Group	Ta sk	To configure the business group which is a group of product groups in specific to agent to identify the required line of business. A bank accredits a broker/intr oducer to handle the offers that are part of a business group.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Busines s Group	com.ofss.fc.app.commonservice.core.service.businessgroup.BusinessGroupE xportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
5	Manage Busines s Group Linkage	Ta sk	To configure the addition or removal of product group from the business group.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Busines s Group Linkage	com.ofss.fc.app.pm.service.businessgroup.BusinessGroupProductGroupLinka geExportImportService
4	Define Credit Cards Product	Ta sk Li st	Definition of credit card product configurati ons in Oracle Banking Originatio ns. This includes definition of product and offer.	Y	Y				
5	Manage Rules for Originati on	Ta sk	To configure all the business rules required in origination module.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m		
5	Manage Credit	Ta sk	To configure	Y	Y	OBP User	Oracle Bankin	Card Product	com.ofss.fc.app.pm.service.core.product.cc.CreditCardProductExportImportS ervice

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
	Card Product		a bunch of features associate d as part of a Card offering to a customer and also link to a product class and product group.			Interf ace	g Platfor m		
5	Define Credit Cards Offer	Ta sk Li st	Definition of credit card offers and configurin g definition of campaign s and definition of offer eligibility using rule framewor k.	Y	Y				
6	Manage Rules for Eligibilit y	Ta sk	To configure the eligibility rule for an offer.	N	Y	OBP User Interf ace	Oracle Bankin g Platfor m		

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
6	Manage Credit Card Offer	Ta sk	To configure an offer and set its features and parameter s for a credit card product.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Card Offer	com.ofss.fc.app.pm.service.core.offer.cc.CreditCardOfferExportImportService
6	Manage Campai gn for Credit Card	Ta sk	To configure the campaign s on a credit card offer which has certain pricing related benefits.	N	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Campai gn for Card	com.ofss.fc.app.pm.service.campaign.CreditCardCampaignExportImportServi ce
4	Define Credit Cards Docume nts	Ta sk Li st	Definition of document type, category and inserts which will be used for definition of document	N	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			policy, rules and document template layout resolution policy.						
5	Define Docume nt Prerequi sites	Ta sk Li st	Definition of Document Type, Category and Inserts.	N	Y				
6	Manage Docume nt Type	Ta sk	To configure the various types of document s that are prescribed for different classes of account.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Docume nt Type	com.ofss.fc.app.content.service.DocumentTypeExportImportService
6	Manage Docume nt Categor y	Ta sk	To configure the document categories and link to specific document types.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Docume nt Categor y	com.ofss.fc.app.content.service.DocumentCategoryExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
6	Manage Docume nt Inserts	Ta sk	To configure the associate d document inserts required to accompan y the generated document types.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Docume nt Insert	com.ofss.fc.app.content.outbound.service.DocumentInsertExportImportServic e
5	Define Docume nts	Ta sk Li st	Definition of document rules, document policy and document template layout Resolution Policy in Oracle Banking Foundatio n.	Ν	Y				
6	Manage Rules for Docume nt	Ta sk	To configure all the business rules required during	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m		

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			configurati on of document s.						
6	Manage Docume nt Policy	Ta sk	This is defined at the bank level to retrieve the set of document s required for an activity which has multiple stages in the life cycle.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Docume nt Policy	com.ofss.fc.app.content.service.DocumentPolicyExportImportService
6	Manage Layout Resoluti on Policy	Ta sk	To configure the layout resolution policy to specify rules on what template must be generated.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Layout Resoluti on Policy	com.ofss.fc.app.content.outbound.service.LayoutPolicyExportImportService
4	Define Credit	Ta sk	Definition of alerts	N	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
	Cards Alerts and Notificat ions	Li st	and notificatio ns and rules to resolve alerts in Oracle Banking Base to suit needs of credit card products.						
5	Define Alerts	Ta sk Li st	Definition of customer alerts and notificatio ns in Oracle Banking Foundatio n, to customers and internal bank users for pre- defined financial or non- financial events. This includes	Ν	Y				

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			message template, alert rules and alert definition s.						
6	Manage Messag e Templat e	Ta sk	To configure the templates that are predefined set of alerts or notificatio ns.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Messag e Templat e	com.ofss.fc.app.ep.service.dispatch.message.MessageTemplateExportImport Service
6	Manage Rules for Alerts	Ta sk	To configure all the business rules required in configurati on of alerts.	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m		
6	Manage Alerts	Ta sk	To configure an alert which is the combinati on of activities, events,	Y	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Alert	com.ofss.fc.app.ep.service.action.ActivityEventActionExportImportService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			rules, message formats, and recipients.						
3	Define Offer Bundling	Ta sk Li st	Definition of configurati ons in Oracle Banking Base, which provides product bundles and benefits together for a customer to give a unique advantag e.	Ν	Y				
4	Define Offer Bundles	Ta sk Li st	Definition of bundle bank policy and offer bundles.	N	Y				
5	Manage Bundle Bank Policy	Ta sk	To configure the bank-	N	Y	OBP User Interf ace	Oracle Bankin g	Bundle Bank Policy	com.ofss.fc.app.pm.service.bundlebankpolicy.BundleBankPolicyExportImport Service

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			level policy parameter s related to offer bundles.				Platfor m		
5	Manage Offer Bundle	Ta sk	To configure offer bundle and link benefits, features and offers to it. It is applicable for CASA, TD and Loans.	N	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Offer Bundle	com.ofss.fc.app.pm.service.bundle.OfferBundleExportImportService
5	Manage Price Benefit Chart	Ta sk	To configure the benefits to be given to the accounts by way of discounts in fees or margin. The benefit is created for each campaign	Ν	Y	OBP User Interf ace	Oracle Bankin g Platfor m	Price Benefit Chart	com.ofss.fc.app.pricing.service.pricebenefitchart.PriceBenefitChartExportImpo rtService

Le vel	Task List or Task	Ty pe	Descripti on	Requ ired	Condit ional	Mod ule	Enterp rise Applic ation	Busine ss Object	Web Service
			or the offer bundle.						
1	Setup Reportin g	Ta sk Li st	Definition of the business configurati on setup reporting tool for Oracle Banking Platform.	Z	Ν				
2	View Configur ation Dashbo ard	Ta sk	To view the OBP Configurat ion Dashboar d which will contain statistics of export and import.	Ν	Ν	OBP User Interf ace	Oracle Bankin g Platfor m		

# 13.3.3 Ability to Define and Test the Proposed Configuration

Typically any implementation project goes through Planning, Implementation, and Deployment.

During the planning phase, the Offerings are reviewed to identify what they provide and configure them to fit the business requirements. Then the setup task list is generated, and finally the task list is customized, if needed.

During implementation, the setup data is captured and then tested to verify if the setup is working correctly.

When the data is ready for deployment to production, export it from the source instance and import it to target instance.

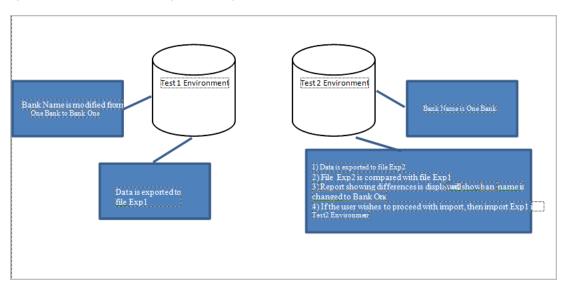
# 13.3.4 Portability of Data across Multiple Testing Environments

Typically, Oracle Banking is set up in the development or test instances, and then the setups are thoroughly tested before moving them to the production instance. Complete export-import of the Oracle Banking's business data configuration setup through FSM is supported. FSM has separate business objects that map to each entity of the Oracle Banking's reference or setup data. The export or import is also done as per the right order of dependency, as required in Oracle Banking.

FSM is prepackaged for the release and any Tasks or Business objects specific to CEMLI will have to be included as part of the CEMLI itself.

# 13.3.5 Review and Compare Configuration

FSM 8.0 supports configuration setup and data compare feature. A pictorial representation is given below.





## 13.3.6 Support for Ongoing Maintenance

FSM supports definition of new task lists by linking prepackaged task lists. The bank can create customized task lists by reusing the existing task lists to support ongoing maintenance for the frequently accessed configuration changes.

For example, if bank wants to introduce a new CASA Offer, the related task list from CASA Offering can be segregated and used for the purpose.

Offering	Task List	Task List or Task	Task
Define CASA Offer			
	Manage Rules for Eligibility	Task	
	Manage Rules for Eligibility	Task	
	Manage CASA Offer	Task	
	Manage CASA Transaction Restriction	Task	
	Manage Fee Group	Task	
	Manage Fee Group Offer Linkage	Task	
	Manage CASA Offer for Offset	Task	
	Manage Dependent CASA Offer Linkage	Task	
	Manage Campaign for CASA	Task	
	Manage Statement Policy Overrides	Task	
	Define CASA Price Policies	Task List	
		Manage Price Policy Chart for Interest	Task
		Manage Price Policy Chart for Fee	Task

Table 13–1 Example of CASA Offering Task List

# **14 Information Lifecycle Management (ILM)**

This chapter describes the configuration, installation, and policy setup of Information Lifecycle Management (ILM).

Information Lifecycle Management is a set of techniques and technologies available from Oracle that assist in managing the lifecycle of data to support business needs and minimize storage costs. Oracle Banking Platform drives ILM at the Oracle database level using database options and features to manage and move data as it evolves during its lifetime.

# 14.1 Configuration

The following values for the duration of data retention need to be determined. These values are used to drive ILM configuration.

Pattern Name	Partition Range Type	Data Retention in Active Tier	Data Retention in Less Active Tier	Data Retention in Historical Tier	Purge After
Lifecycle_ Pattern_1	MONTH	2 month	N/A	2 year	2 year
Lifecycle_ Pattern_2	MONTH	6 month	Will be provided by business	N/A	Will be provided by business
Lifecycle_ Pattern_3	YEAR	N/A	N/A	N/A	Will be provided by business
Lifecycle_ Pattern_4	YEAR	1 year	Will be provided by business		N/A
Lifecycle_ Pattern_5	YEAR	1 year	N/A	Will be provided by business	
Lifecycle_ Pattern_6	MONTH	1 month			1 month

Table 14–1 Values for ILM Configuration

# 14.2 Installation

This section explains the process of ILM installation.

# 14.2.1 Prepare Scripts

Operator needs to create partition creation script and ADO policy creation script manually based on data provided in ILM\_Config.xlsx for each ILM qualified table and attached lifecycle pattern.

Parameters required for populating partition creation script are as follows:

- Table Name (OBP Tables Worksheet)
- ILM Column (OBP Tables Worksheet)
- Partition Range Type (Lifecycle Pattern Worksheet)

Parameters required for populating ADO policy creation script are as follows:

- Table Name (OBP Tables Worksheet)
- Lifecycle Definition (OBP Tables Worksheet)
- Data retention in different tier (Lifecycle Pattern Worksheet)
- Purging time (Lifecycle Pattern Worksheet)

The following sections describe the steps to be performed during the OBP database creation.

### 14.2.2 Create Tablespace

Separate tablespaces need to be created for the following tiers:

- Active tier
- Less Active tier
- Historical tier

### The following command is to be used for creation of the above tiers:

CREATE TABLESPACE <tablespace\_name> datafile <datafile\_name> SIZE <allocated\_ size> SEGMENT SPACE management auto extent management local autoallocate;

#### For example:

CREATE TABLESPACE less\_active\_data datafile '/oracleE2POC/data01/s2poc/less\_ active\_data01.dbf' SIZE 10m SEGMENT SPACE management auto extent management local autoallocate;

## 14.2.3 Create Partition Script

Partitioning script can be generated through partition script creation utility. For ILM qualified tables, the tables should always be partitioned based on range. Partition script can be generated based on Day, Month and Year. The following parameters need to be provided to the utility:

- Table Name
- ILM Column Name
- Schema Name (decided by DBA)
- Partition Interval (Default 1)
- Partition Type (DAY, MONTH and YEAR)
- Directory where partition script will be created (decided by DBA)

This utility can be run as follows:

- 1. Connect to OBP Database.
- 2. Run the following SQL statement:

DECLARE PI TABLE NAME VARCHAR2(200);

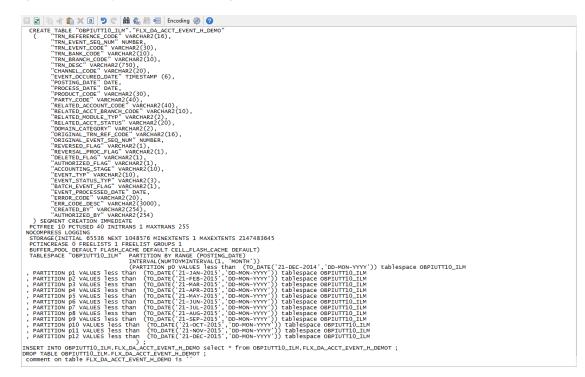
```
PARTITION COLUMN NAME VARCHAR2(200);
SRC SCHEMA NAME VARCHAR2(200);
PARTITION INTERVAL NUMBER;
PARTITION TYPE VARCHAR2(200);
DIRECTORY NAME VARCHAR2(200);
DURATION NUMBER;
DURATION TYPE VARCHAR2(200);
BEGIN
PI TABLE NAME := <ILM qualified table name>;
PARTITION COLUMN NAME := <ILM column name>;
SRC SCHEMA NAME := <Source schema name>;
PARTITION INTERVAL := <Duration>;
PARTITION TYPE :=< Partition type as DAY, MONTH or YEAR>;
DIRECTORY NAME := <Location where partition script will be
created>;
DURATION := 0;
DURATION TYPE := NULL;
AP OPA ILM CREATE PARTITION (
PI TABLE NAME => PI TABLE NAME,
PARTITION COLUMN NAME => PARTITION COLUMN NAME,
SRC SCHEMA NAME => SRC SCHEMA NAME,
PARTITION INTERVAL => PARTITION INTERVAL,
PARTITION TYPE => PARTITION TYPE,
DIRECTORY NAME => DIRECTORY NAME,
DURATION => DURATION,
DURATION TYPE => DURATION TYPE
);
--rollback;
END
```





3. After execution, the utility table creation script appears as shown in the below figure.

Figure 14–2 Utility Table Creation Script



## 14.2.4 Run Partition Script

The steps to run the partition script are as follows:

- 1. Download the newly created partition script from specified directory.
- 2. Verify created partition script before running.
- 3. Execute the script on OBP database as follows:
  - a. Connect to OBP Database.
  - b. Run partition creation script:

@ <Tablename>par.sql

For example:

@ /scratch/app/ILM PARTITION DIR/FLX DA ACCT EVENT H DEMOpar.sql

## 14.2.5 Create and Register ADO Policies based on Lifecycle Pattern

Automatic Data Optimization (ADO) is used to create policies and automate actions based on those policies, for implementing the ILM strategy. The data is moved across storage tiers. The following script needs to be executed to create the ADO policies:

- 1. Connect to OBP Database.
- 2. Run ADO policy creation script:
  - @ <Tablename>ado.sql

For example:

@ /scratch/app/ILM\_ADO\_DIR/FLX\_DA\_ACCT\_EVENT\_H\_DEMOado.sql

## 14.2.6 Verify Registered ADO Policies

The created ADO policies can be verified through Oracle Enterprise Manager.

Figure 14–3 Verify ADO Policies

Enterprise 🔻 🧿 <u>T</u> a	irgets 🔻 🏫 Eav	orites 🔻 🕝 Hist <u>o</u> ry 👻				Search Target Name
NCONT65A 0	)					Logged in as 🛛 sys 👸 🛛 🗒 mum00aro.in.orade.
Oracle Database 💌	Performance 🔻	Availability 🔻 Security	▼ Schema ▼ Adm	inistration 🔻		Page Refreshed Dec 22, 2015 5:25:10 AM GMT
formation Life	cycle Manage	ment				
eat Map Policy						
Policy Summary	/ Po	licy Execution Sum	mary for Last 24	Hours Top Tab	Policy Action	
Policies		Jobs		()		
Compression	0	Completed 0				
Storage	12	Failed 0				
Objects		Active 0				
With Policies E	nabled 12	Policies			Compression	
With Policies Disabled 0		Completed 0			Storage Tiering Both	
Evaluations		Failed 0			None	
Completed 0		Objects				
	Evaluate	Compressed 0				
	Evaluate	Moved 0			100.0%	
Automatic Data (						
60 Policy Details						
Name	Action Type	Scope	Objects	Status		
P163 P167	STORAGE	SEGMENT		1 Enabled 1 Enabled		
P 167	STORAGE	SEGMENT		1 Enabled 1 Enabled		
P 163	STORAGE	SEGMENT		1 Enabled		
P166	STORAGE	SEGMENT		1 Enabled		
P172	STORAGE	SEGMENT		1 Enabled		
P165	STORAGE	SEGMENT		1 Enabled		
P170	STORAGE	SEGMENT		1 Enabled		
P161	STORAGE	SEGMENT		1 Enabled		
P168	STORAGE	SEGMENT		1 Enabled		
P164	STORAGE	SEGMENT		1 Enabled		
P171	STORAGE	SEGMENT		1 Enabled		

# **14.3 Policy Execution**

ADO policies are required to be scheduled to execute automatically by configuring the database maintenance period. This can be determined during the implementation phase.

These ADO policies can be additionally executed manually with the following command:

```
declare
v_executionid number;
begin
dbms_ilm.execute_ilm (ilm_scope=>dbms_ilm.scope_schema,
execution_mode=>dbms_ilm.ilm_execution_offline,
task_id=>v_executionid);
end;
/
```

# **15 Transparent Data Encryption (TDE)**

This chapter describes the configuration, installation, and policy setup of Transparent Data Encryption (TDE).

Transparent Data Encryption is a technology used to encrypt database files. This feature enables you to protect sensitive data in database columns stored in operating system files by encrypting it. Then, to prevent unauthorized decryption, it stores encryption keys in a security module external to the database.

# **15.1 Configuration**

The following is the classification of information related to OBP. This information is used to drives TDE configuration.

Classification	Details	Access and Distribution	Action
Public	This information is not sensitive, and there is no value with it remaining confidential to Bank.	No restrictions	No Encryption
Confidential Internal	It is important that this information remains confidential to Bank.	May be accessed by and distributed to all support person. Distribution to third parties must be authorized by the information owner and requires that an appropriate confidential disclosure agreement be in place.	No Encryption
Confidential Restricted	It is very important that this information remains confidential to Bank and that access within bank is restricted on a need-to- know basis.	Internal access/distribution must be on a business need-to-know basis. Not authorized for information unless the information is encrypted using Oracle-approved encryption.	Need to set encryption rule during TDE
Confidential Highly Restricted	It is essential that this information remains confidential to Bank and that access within bank is restricted on a need-to- know basis.	Internal access/distribution must be very limited and is on a stringent business need-to-know basis. Not authorized for information unless the information is encrypted using Oracle-approved encryption.	Need to set encryption rule during TDE

Table 15–1 TDE Configuration

All tables in OBP are classified based on above classification and columns of those tables are marked based on sensitivity.

# **15.2 Installation**

This section explains the installation process.

### 15.2.1 Prepare Scripts to Encrypt Sensitive Data

Database administrator needs to create alter script to encrypt sensitive data. The utility tool (obpencryption.sh) is used to create this alter script for TDE. To run the tool, the following prerequisites are required.

### Prerequisites

- Create a folder "obpencryption" where user wants to run the tool.
- Upload Sensitive\_Data\_List.xlsx, obp-encryption-script-gen.jar, obpencryption.sh, DB\_ RESOURCEBUNDLE.properties. These files are available in maskingencryption.zip. The maskingencryption.zip is part of host.zip available in installer.
- Update database details in DB\_RESOURCEBUNDLE.properties file before running the script.
- Update value "encryptLocation" variable with obp encryption path in obpencryption.sh at line 6.

For example: encryptLocation="/scratch/app/product/obpencryption"

### **Run Encryption Tool**

 Create update scripts for all the tables containing sensitive data. Run obpencryption.sh with TDE and ENCRYPT.

For example: /obpencryption.sh TDE ENCRYPT

## 15.2.2 Create TDE Keystore

Perform these steps to create keystore which is required for encryption and decryption. Perform the following steps.

Create keystore location with mkdir -p <location>.

For example: mkdir -p /scratch/app/admin/TDE/encryption\_keystore/

Log in to database with sysdba.

For example: sqlplus / as sysdba

- Run the following sql instruction:
  - ADMINISTER KEY MANAGEMENT CREATE KEYSTORE '{Keystore loaction}' IDENTIFIED BY {Password}

For example: SQL>ADMINISTER KEY MANAGEMENT CREATE KEYSTORE
'/scratch/app/admin/TDE/encryption\_keystore/' IDENTIFIED BY
myPassword

 ADMINISTER KEY MANAGEMENT SET KEYSTORE OPEN IDENTIFIED BY welcome1 CONTAINER=ALL;

For example: SQL>ADMINISTER KEY MANAGEMENT SET KEYSTORE OPEN IDENTIFIED
BY welcome1 CONTAINER=ALL;

 ADMINISTER KEY MANAGEMENT CREATE KEY using tag 'KEY5' IDENTIFIED BY welcome1 WITH BACKUP CONTAINER =all; For example: SQL>ADMINISTER KEY MANAGEMENT CREATE KEY using tag 'KEY5' IDENTIFIED BY welcome1 WITH BACKUP CONTAINER =all;

 ADMINISTER KEY MANAGEMENT SET KEY using tag 'KEY5' IDENTIFIED BY welcome1 WITH BACKUP CONTAINER=ALL

For example: SQL>ADMINISTER KEY MANAGEMENT SET KEY using tag 'KEY5' IDENTIFIED BY welcome1 WITH BACKUP CONTAINER=ALL;

Check the encryption keys generated.

For example: SQL> SELECT con id, key id FROM v\$encryption keys;

Check the wallet status.

For example: SQL> SELECT \* FROM v\$encryption\_wallet;

### 15.2.3 Edit sqlnet.ora file

Perform this step to enter the TDE wallet location.

- Take a backup of sqlnet.ora file before update for TDE.
- Add entries of sqlnet.ora file as follows:

```
ENCRYPTION_WALLET_LOCATION =
(SOURCE =(METHOD = FILE)(METHOD_DATA =
(DIRECTORY = {Keystore location})
For example:ENCRYPTION_WALLET_LOCATION =
(SOURCE = (METHOD = FILE) (METHOD_DATA =
(DIRECTORY = /scratch/app/admin/TDE/encryption keystore/)
```

### 15.2.4 Run Created Alter Script

- Get TDE\_Encryption.sql script from obpencryption/generatedScript/tde.
- Log in to database.
- Run TDE\_Encryption.sql.

# **16 Masking Customer Private Data**

This chapter describes the configuration, installation, and policy setup to mask customer private data categories as sensitive or Personally Identifiable Information (PII).

# **16.1 Configuration**

The following is the classification of information related to OBP. This information is used to drive TDE configuration.

Classification	Details	Access and Distribution	Action
Public	This information is not sensitive, and there is no value with it remaining confidential to Bank.	No restrictions	No Encryption
Confidential Internal	It is important that this information remains confidential to Bank.	May be accessed by and distributed to all support persons. Distribution to third parties must be authorized by the information owner and requires that an appropriate confidential disclosure agreement is in place.	No Encryption
Confidential Restricted	It is very important that this information remains confidential to Bank and that access within bank is restricted on a need-to-know basis.	Internal access/distribution must be on a business need- to-know basis. Not authorized for information unless the information is encrypted using Oracle-approved encryption.	Need to set encryption rule during masking Tables containing this type of data will be accessed through view for RO user. Synonym needs to be created for the tables and views containing this type of data for RO and ERO user.
Confidential Highly Restricted	It is essential that this information remain confidential to Bank and that access within bank is restricted on a need-to-know basis.	Internal access/distribution must be very limited and is on a stringent business need-to- know basis. Not authorized for information unless the information is encrypted using Oracle-approved encryption.	Need to set encryption rule during masking. Tables containing this type of data will be accessed through view for RO user. Synonym needs to be created for the tables and views containing this type of data for RO and ERO user.

### Table 16–1 TDE Configuration

All tables in OBP are classified based on above classification and columns of these tables are marked based on sensitivity.

# **16.2 Installation**

This section explains the installation process.

### 16.2.1 Prepare Scripts to Encrypt Sensitive Data

Database administrator needs to create the following script for masking sensitive data.

- View creation script of the tables containing sensitive data and mask them for RO (Read only) user.
- Synonym creation script of created view of the containing sensitive data for RO (Read only) user.
- Synonym creation script of tables containing sensitive data for ERO (E Read only) user.

The utility tool (obpencryption.sh) is used to create above script. To run the tool, the following prerequisites are required.

### Prerequisites

- Create a folder "obpencryption" where user wants to run the tool.
- Upload Sensitive\_Data\_List.xlsx, obp-encryption-script-gen.jar, obpencryption.sh, DB\_ RESOURCEBUNDLE.properties. These files are available in maskingencryption.zip. The maskingencryption.zip is part of host.zip available in installer.
- Update database details in DB\_RESOURCEBUNDLE.properties file before running the script.
- Update value "encryptLocation" variable with obp encryption path in obpencryption.sh at line 6.

For example: encryptLocation="/scratch/app/product/obpencryption"

### Run Encryption Tool for View Creation script and mask data

 Create view creation scripts for all the tables containing sensitive data after mask. Run obpencryption.sh with MASK and VIEWCREATE as parameter.

For example: /obpencryption.sh MASK VIEWCREATE

### Run Encryption Tool for Synonym Creation script for RO user

 Create synonym creation scripts for all the created containing sensitive data. Run obpencryption.sh with MASK and SYNONYMRO as parameter.

For example: /obpencryption.sh MASK SYNONYMRO

### Run Encryption Tool for Synonym Creation script for ERO user

 Create synonym creation scripts for all the tables containing sensitive data. Run obpencryption.sh with MASK and SYNONYMEERO as parameter.

For example: /obpencryption.sh MASK SYNONYMERO

## 16.2.2 Create Schema for RO and ERO User

To create schema for RO and ERO user, execute the following steps.

- Create Read-Only (RO) and E Read-Only (ERO) user for accessing masked data from view and table.
- Grant for proper access.

## **16.2.3 Execute Created Scripts through Encryption Tool**

Run all created scripts through the encryption tool for the following task.

- Mask sensitive data for RO user.
- Create view for tables contain sensitive data.
- Create synonym to access the view.
- Create synonym to access the table for ERO user.

To do the above tasks, perform the following steps.

- Get all view creation scripts from obpencryption /generatedScript/masking/viewforRO location and run after logging in to database.
- Get synonym creation script (MaskingSynonymForRO.sql) for RO user from obpencryption/generatedScript/masking/synonymForRO and run after logging in to database.
- Get synonym creation script (MaskingSynonymForERO.sql) for ERO user from obpencryption/generatedScript/masking/ synonymForERO and run after logging in to database.

# 17 Configure ODI for Inbound Document Upload

This chapter provides the steps to configure ODI for Inbound Document Upload.

For document upload ODI execution, complete the following configurations:

- 1. Configuring the Input directory:
  - a. For example, if input directory is /scratch/odi/InboundDocument/Upload/lendingZone/
  - b. Update the configuration in the table using the following SQL:

update FLX\_FW\_ODI\_SUB\_INTERFACE\_TYPE set IN\_FILE\_ PATH=/scratch/odi/InboundDocument/Upload/IendingZone/ ' where SUB\_INTERFACE\_ ID='9551';

- c. Note that the SUB\_INTERFACE\_ID='9551' should not be changed.
- 2. Configure the Schema directory:
  - a. Provide the directory where all the schemas are present.

Framework configuration:

update FLX\_FW\_ODI\_SUB\_INTERFACE\_TYPE set SCHEMA\_FILE\_PATH = '/scratch/odi/InboundDocument/Upload/schema/' where SUB\_INTERFACE\_ID ='7002';

- b. Copy all the schema for ODI mediapack zip from directory schema to the new directory which is configured for framework.
- c. Provide schema file for Document Upload.

update FLX\_FW\_ODI\_SUB\_INTERFACE\_TYPE set schema\_file\_ path='D:\work\odi\inDocUpload\InboundDocument\Upload\schema\scan\_images\_ request.0.1.XSD' where SUB\_INTERFACE\_ID='9551';

3. Configure Temporary directory:

update FLX\_FW\_ODI\_SUB\_INTERFACE\_TYPE set temp\_file\_path= '/scratch/odi/InboundDocument/Upload /lendingZonetmp/' where SUB\_INTERFACE\_ID='9551';

4. Configure Archive directory:

update FLX\_FW\_ODI\_SUB\_INTERFACE\_TYPE set archive\_file\_ path=/scratch/odi/InboundDocument/Upload/archieve/' where SUB\_INTERFACE\_ID='9551';

- 5. Create users in connector: Create two credential maps:
  - oracle.obp.credmap: This has two keys.
    - IPM\_SERVICE: It has the username and password of IPM. It is used to upload the documents to IPM.
    - OBP\_USER: It is required to make web service call to OBP.

- oracle.odi.credmap
  - SUPERVISOR: It has supervisor username and password.
  - odi\_domain: It has domain username and password.

Figure 17–1 Credentials

ew 👻 🕂 Create Map 🕇 Create Key 🧪 Edit 🗙 Delete Credential Key Na	me Detach		
Credential		Туре	Description
a 🔤 oracle.obp.credmap			
◊ IPM_SERVICE		Password	
§ OBP_USER		Password	
🔺 🚞 oracle.odi.credmap			
§ SUPERVISOR		Password	
		Password	

6. Provide permission to the java project for fetching the user credentials. Provide read permission to Java binary com.ofss.fc.document.upload.ipm.jar from EM.

#### Figure 17–2 Example of premissions

Create System Grant There are two different types of system policies supported by application server: principal po system. Codebase can be either absolute path or relative path.	licy and codebase policy. Principal policy grants permissions and privileg	es to a list of users or roles. Codebase policy grants pe						
Grant To Codebase •								
* Codebase file:/scratch/app/product/fmw/obp/obp.odi.domain/com.ofss.fc.document.upload.ipm.jar								
Permissions								
View 🗸 🕂 Add 🖉 Edit 💥 Delete 🔝 Detach								
Permission Class	Resource Name	Permission Actions						
java.security.AllPermission	read	read						
4								

- 7. Configuring IPM URL:
  - a. update FLX\_FW\_ODI\_SUB\_INTERFACE\_TYPE set GEFU\_IN\_FILE\_PATH='http://\${IPM-HOSTNAME}:\${IPM-PORT}/imaging/ws' where SUB\_INTERFACE\_ID='9551';
  - b. Replace \${IPM-HOSTNAME} with IPM Hostname or IP address.
  - c. Replace \${IPM-PORT} with IPM Server port number.
- 8. Configure config/properties/OutboundWebserviceConfig.properties to provide OBP Host web service configuration.
  - a. Replace \${OBP-HOST-IP} with OBP Host IP address or hostname.
  - b. Replace \${OBP-HOST-PORT} with OBP Host managed server port.

9. Provide FJ Connection Details in ODI Topology data server ORACLE\_HOST.

Figure 17–3 Connection details

Designer Topology ×		📀 Start Page 🛛 🔵 ORA	CLE_HOST ×			
62	<u> -</u>	Test Connection				
Physical Architecture  OBP_FSDF  OBP_OCH		Definition JDBC On Connect/Disconnect	JDBC Driver:	oracle.jdbc.OracleDriver jdbc:oracle:thin:@10.180.6.102:1521/PDB6102		_
		Datasources Version	JDBC URL:	Jupr: oracle: unit: @ 10, 100.0, 102: 1321/PD60102		
	-	Privileges Flexfields	Properties			-
Data Types			Key		Value	

# **18 Additional Recommendations**

This chapter provides specific recommendations to be considered for implementation:

# 18.1 SOA Related

This section mentions certain recommendations for setting up the properties on SOA server.

# 18.1.1 Enable Auto Purge Job

- Oracle SOA Suite team strongly recommends periodic purging of composite instances. Purge instances as soon as they are available for purge.
- SOA suite 12c comes up with default purge job enabled with retention period of 7 days.
- OBP recommends to keep this default job enabled in the production.

### Figure 18–1 Auto Purge

ORACLE Enterprise Manager Fusion Middleware Control 12c	WebLogic Domain v weblogic v
t soa-infra e # soa infrastructure *	Apr 19, 2018 7:52:11 PM GMT+05:30 🍤
Auto Purge	
Purge jobs must be run regularly to free up the database from elder data associated with flow instances, adapter reports, and fauit alerts. It is strongly recommended to enable Auto Purge to ensure an optimal performance of your runtime environment.	<b>III</b>
Auto Purge Job SOA Flow Purge Job 1 🗢 Enabled 🔽 Run Now	Apply
Schedule	
Enter a valid calendaring expression. ()	
* Job Schedule freq=daily; byhour=0; bysecond=0	
Configuration	
* Purge Type SINGLE 🗸	
Retain Data 5 🔺 V days	
Data within this interval is NOT purged when the job runs	
Batch Size 20000	
More Auto Purge Configuration Properties	

# 18.1.2 Enable Lazy Loading

- 12c supports lazy loading of composites on deployment as well as server startup.
- CompositeLazyDeployment: Loads the composites lazily on deployment.
  - More useful for non-production environments where there is frequent deployment of all the composites.
- CompositeLazyLoading: Loads the composites lazily on server start up.
- OBP recommends to keep the default settings unchanged, that is CompositeLazyDeployment as false and CompositeLazyLoading as true in production environment.

- This will reduce the SOA server startup time.
- To confirm the settings, in SOA EM console, go to soa-infra > SOA Administration > Common Properties. Click More SOA Infra Advanced Configuration Properties link.

Figure 18–2 Lazy Loading Settings

RACLE Enterprise Manager Fu:	sion Middleware Co	ontrol 12	tc			🎇 WebLogic Domain 🔻	weblogic 🔻	
SOA Infrastructure 👻						Apr 19, 2018 7:57:	7 PM GMT+0	05:30 📌
stem MBean Browser								
🔋 oracle.as.soainfr 🗞	А	Applic	ation Defined MBean	s: SoaInfraConfig:soa-infra			Apply	Reve
Application Defined MBeans		🚹 Info	rmation					2
a 📷 oracle as soainfra config The changes made on this mbean are not managed by the configuration session. The changes will be applied immediately. You cannot undo the chan						applied immediately. You cannot undo the changes from the Change Center.		
A Server: soa_server1	1	Show MBean Information						
SoalnfraConfig Soa-infra	-	Attribut	tes Operations Notifications					
			Name	Description	Access	Value		
		1	AuditConfig	Audit Configuration	RW	javax.management.openmbean.CompositeDataSupport(compositeType=javax.manager	nent.openm	n '
		2	AuditLevel	Audit level. The possible values are Off, Production and Dev	RW	Production		
		3	AutodeployDir	The composite auto deployment directory.	RW			
		4	BulkRecoveryConfig	Configuration for bulk recovery of faults.	RW	javax.management.openmbean.CompositeDataSupport(compositeType=javax.manager	nent.openm	n
		5	CacheConfig	Cache Configuration	RW	javax.management.openmbean.CompositeDataSupport(compositeType=javax.management.openmbean.compositeDataSupport(compositeDataSupport(compositeDataSupport(compositeDataSupport(compositeDataSupport(compositeDataSupport(compositeDataSupport(compositeDataSupport(compositeDataSupport(compositeDataSupport(compositeDataSupport(compositeDataSupport(compositeDataSupport(compositeDataSupport(compositeDataSupport(compositeDataSupport(composi	nent.openm	a
		6	CallbackServerURL	This URL is sent by the server as part of the asynchronous $\ensuremath{c}\xspace\ldots$	RW			
		7	CompositeLazyDeployment	Flag to indicate whether SOA composites will be lazily loaded	RW	false		~
		8	CompositeLazyLoading	Flag to indicate whether SOA composites will be lazily loaded	RW	true		~
		9	ConfigMBean	If true, it indicates that this MBean is a Config MBean.	R	true		_
		10	CreateWSCallTrackingMBean	The flag that controls the creation of mbeans to track elapse	RW	false		~
		11	DatasourceJndi	The JNDI name for the server datasource. This datasource	RW	jdbc/SOALocalTxDataSource		
								— ·

# **18.2 BPM Worklist Related**

This section mentions certain recommendations on usage of BPM worklist.

## 18.2.1 Disable Claim Action from Task Details Page

- Always claim the task using worklist action menu.
- Claim option is disabled by default inside task details page.
- It can be enabled (configurable), if needed (but not recommended).
- Disabling this option helps to avoid loading of task details page twice, that is before claiming the task and after claiming the task.

Figure	18–3	Claim	Action
--------	------	-------	--------

ORACLE' BPM Worklist											
My Tasks(24	4) 🔻 🕂 🧪 💥	Actions 🔻 🗵 🗵	🔍 💌 Me & My Group All 🗸 Assigned 🗸 😭 🗮 🖛								
Status 🖻	title	Reassign									
Ē	Verify Application APP20	Escalate	mission SUB200620180014610								
Ē	Structure Solution of Len	Suspend	80010612003 and Submission SUB200620180014610								
	Overview of Credit Decis	Start Task	0180014610								
8	Offer Letter Acceptance	Claim	0010763001 and Submission SUB200620180014764								
	Overview of Credit Decis	Create To-Do Task	0180014764								
	Structure Solution of Len	any appreciation and 20002	- 180010761001 and Submission SUB200620180014758								

# 18.2.2 Always Open Human Task Details in External Window

- BPM worklist supports two options to display the task details.
  - Same Window: Human task details are opened in the same browser window just below the worklist grid.
  - External Window: Human task details are opened in the new browser window (as a child popup).
- OBP strongly recommends to make use of **External Window** option.
  - Human task details can be seen in full-screen mode.
  - Avoids unnecessary loading the task details page if user is browsing through the list of human tasks in worklist grid.
- This option can be enabled from worklist administration page.

### Figure 18–4 Enable External Window option

ORACLE BPM Worklist				🗟 ofssuser 👻 💡			
			Administration	Evidence Search	Approval Groups	Task Co	nfiguration
Application Preferences Application Preferences						<u>S</u> ave	Revert *
	Default assignment filter	Me & My Group All					^
	Worklist Action Menu	Show   Hide					
	File Types Allowed for Upload						
	Display task details in external window	Enable O Disable					~