Oracle® Banking Loans Servicing

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Preface

This guide describes how to administer the Oracle Banking Loans Servicing applications environment, including user administration, batch execution, DPA approvals, application monitoring, and bank, branch and channels 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 Loans Servicing.

Documentation Accessibility

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

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Organization of the Guide

This document contains:

Chapter 1 User Administration with OIM

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

Chapter 2 User Management With Local Security

This chapter describes the configurations to be done if local security option is configured instead of OIM based security.

Chapter 3 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 4 Defining Task Configuration Rules

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

Chapter 5 Data Management

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

Chapter 6 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.

Chapter 7 Application Monitoring Using Administration Application

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

Chapter 8 Application Monitoring Using EM Plugin

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

Chapter 9 Configuration Export-Import Operations

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

Chapter 10 Batch Shells in OBLS

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

Chapter 11 Information Lifecycle Management (ILM)

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

Chapter 12 Transparent Data Encryption (TDE)

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

Chapter 13 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 14 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 Loans Servicing Installation Guide Silent Installation.
- For a comprehensive overview of security, see the Oracle Banking Loans Servicing Security Guide.
- For the complete list of Oracle Banking licensed products and the Third Party licenses included with the license, see the Oracle Banking Loans Servicing Licensing Guide.
- For information related to customization and extension, see the Oracle Banking Loans Servicing Extensibility Guides for Host, SOA, and UI.

- For information on the functionality and features, see the respective Oracle Banking Loans Servicing Functional Overview document.
- For recommendations of secure usage of extensible components, see the Oracle Banking Loans Servicing Secure Development Guide.

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 User Administration with OIM

This chapter describes all user management related activities to be performed by an administrator for the application.

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 ^{* Identit}	y Self Service	3	Accessibility	Help	About	Oracle		
		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	filiates. Al rights reser	ved						

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

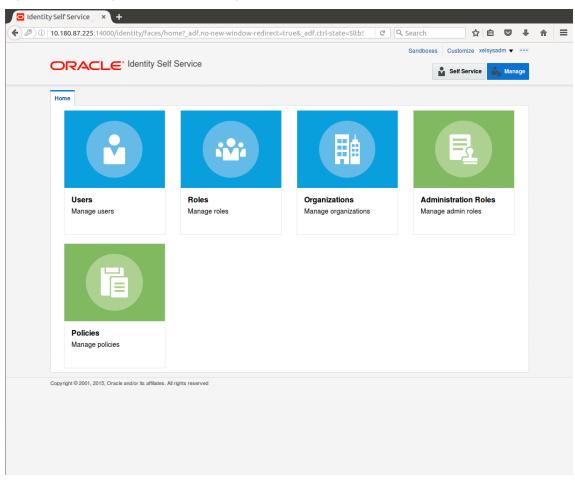


Figure 1–2 Creating Users in OIM - Manage Section

- 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	 Identity Self S 	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
opyrigh	XELSYSADM	System Adminis	System				donotreply@ora	Active	Unlocked
opyrigh	XELSYSADM	System Adminis	System				donotrepiy@ora	Active	Unlocked
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
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
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.

ty Self Service ×	<u>(</u>							
10.180.87.225:1400	00/identity/faces/home?_adf.no-new-wind	ow-redirect=true&_adf.ct	rl-state=ry1k	C ^e Search	☆自℃	+	Â	
	- Identity Solf Service			Sandboxes	Customize xelsysadm •			
	€ [*] Identity Self Service			ů	Self Service Ma	nage		
Home Users x C	Create User ×							
Create User				Submit	Save As V Can	el:		
Request Info	ormation							
Effective Date	Ċ.							
Justification								
Basic Information	tion							
First Name Cla		Manager			0			
Middle Name			Xellerate Users		0			
* Last Name Ke	ent	* User Type	Other	-				
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Account Effect	ctive Dates							
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Figure 1–4 Creating Users in OIM - Enter User Details

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* Confirm Password					
Account Effective Dates	3				
Start Date	te.				
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Contact Information					
Telephone Number		Postal Address			
Home Phone		Postal Code			
Fax		PO Box			
Mobile		State			
Pager		Street			
Home Postal Address		Country			
▲ Preferences					
Locale	•				
Timezone					
Other Attributes					
Common Name		Locality Name			
Department Number		Initials			
Employee Number		Title			
Generation Qualifier					
Hire Date	Ėœ				

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.

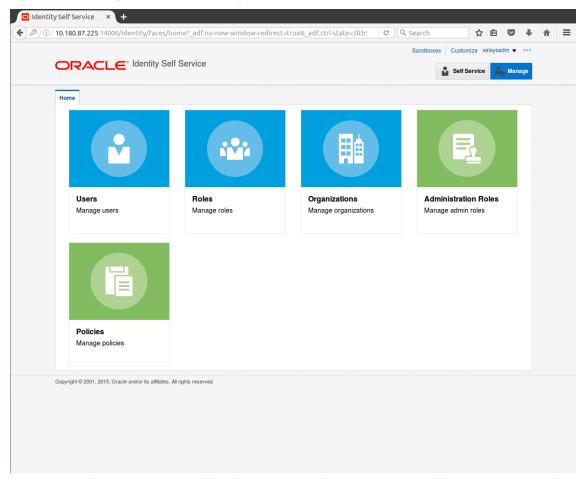
1.2 Creating Roles in Oracle Identity Manager (OIM)

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
opyright © 2001, 2015, Orac	le and/or its affiliates. All rights reserved

Figure 1–7 Creating Roles in OIM - Click Create

4. Fill the role details.

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Create Role x The reaction of t						Sandboxes Cus	stomize xelsysadm 🔻
Create Role This wizard walks you through the steps to create a Role. Back Attributes Hierarchy Access Policy Members Organizations Summary Cance Next General Role Information * Name TestFullAccess * Display Name TestFullAccess Role E-mail * Owned By System Administrator * Owned By System Administrator * Catalog Attributes * Catalog Attributes	DRACLE ^{® Ident}	ity Self Service				Se	elf Service 🏼 🎝 Mana
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Attributes Hierarchy Access Policy Members Organizations Summary		steps to create a Role.					
Ceneral Role Information * Name TestFullAccess * Display Name TestFullAccess Role E-mail		0	0	0	0		Cancel Next
* Name TestFullAccess * Display Name TestFullAccess Role E-mail	Attributes	Hierarchy	Access Policy	Members	Organizations	Summary	
Catalog Attributes Category Role Audit Objective Risk Level		TestFullAccess					
Audit Objective	Role Description						
Audit Objective	* Owned By		Q				
Risk Level	* Owned By	System Administrator	Q.				
User Defined Tags	* Owned By Catalog Attributes * Category	System Administrator	Q.				
	* Owned By Catalog Attributes * Category Audit Objective	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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Create Role This wizard walks you through the s	topa to graata a Rala					
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Role Definition Summary Review the information entered so Attributes		create the role.				
Display Name	TestFullAccess					
Role E-mail						
	TestFullAccess					
Role Description						
Owned Ry	System Administrator					
Catalog Attributes	Gystern Administrator					
▶ Hierarchy						
Access Policy						
Members						
Organizations						

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.

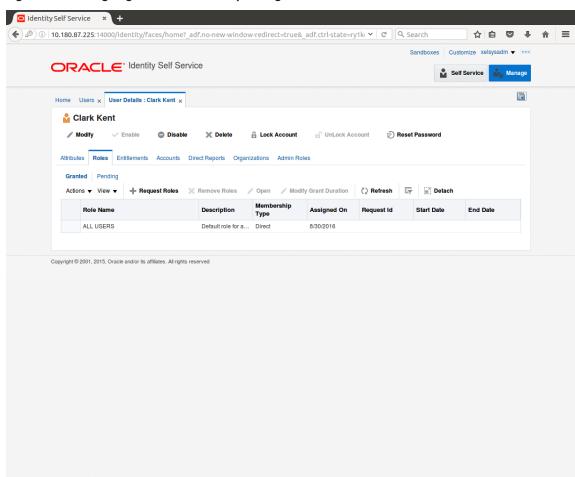


Figure 1–10 Assigning Roles in OIM - Requesting Roles

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 👥
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Categories Sort By Display Nar	ccess		d Selected to Cart	
Role (1)				
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Figure 1–11 Assigning Roles in OIM - Adding to Cart

5. Click Checkout.

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	Back	Add Access	Checkout	Cancel Nex	t		Car l Clark Kent	} ₽
Search and select indivi	dual items from the Ca	atalog tab. Sets of pre-bur	ndled items commo	only used in your organiza	tion can be select	ed from the Requ	uest Profiles	tab.
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Select All	TestFullAcces			0	🕂 In Cart			
🔀 Role (1)	TestruinAccess	•						
Copyright © 2001, 2015, Oracle a	nd/or its affiliates. All rights	reserved						

Figure 1–12 Assigning Roles in OIM - Checkout Cart

6. In the Cart Details page, click Submit.

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Cart Details						Submit	Save As ▼	
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	Start Date	ťò	End Date					

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.

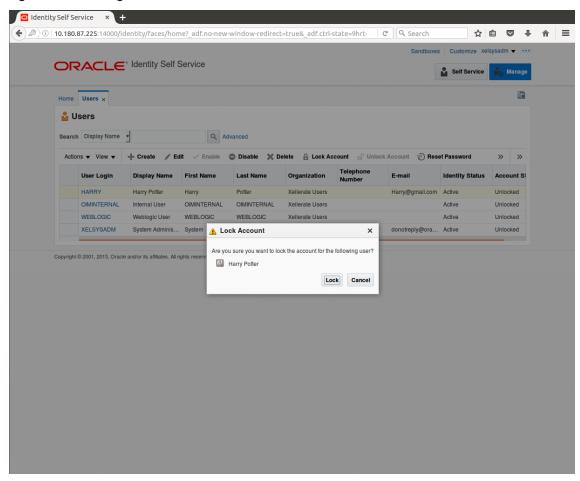


Figure 1–14 Locking Users in OIM

The user is locked successfully.

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🔓 Us	ers								
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1	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	Locked
	OIMINTERNAL	Internal User	OIMINTERNAL	OIMINTERNAL	Xellerate Users			Active	Unlocked
1	WEBLOGIC	Weblogic User	WEBLOGIC	WEBLOGIC	Xellerate Users			Active	Unlocked
1	XELSYSADM	System Adminis	System	Administrator	Xellerate Users		donotreply@ora	Active	Unlocked
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copyright ©	2001, 2015, Oracle	and/or its affiliates. All ri	ahts reserved						

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.

		Identity Self S	Service				Sandboxe		sysadm 🔻 🖪
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Home	Users ×								
🄓 Us	sers								
Search	Display Name	•	Q Ad	vanced					
Action	s ▼ View ▼	+ Create 🖉 Edi	it 🗸 Enable	🕒 Disable 🗙 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 S
	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
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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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User Login	Display Name	First Name	Last Name	Organization	Telephone Number	E-mail	Identity Status	Account	51
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.

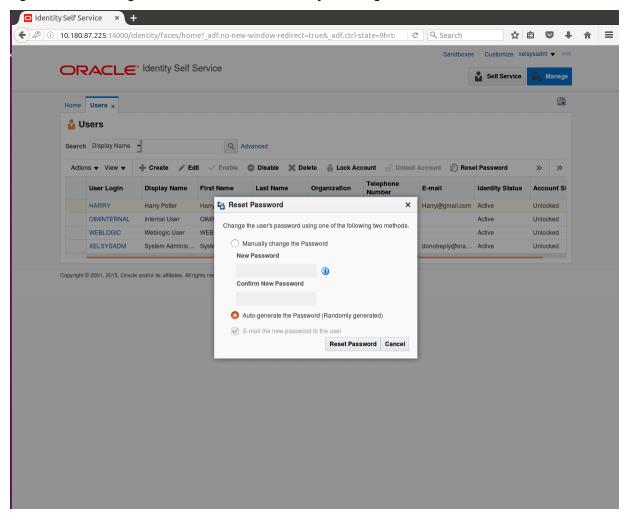


Figure 1–18 Resetting User Password in OIM - Manually or Auto-generate

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

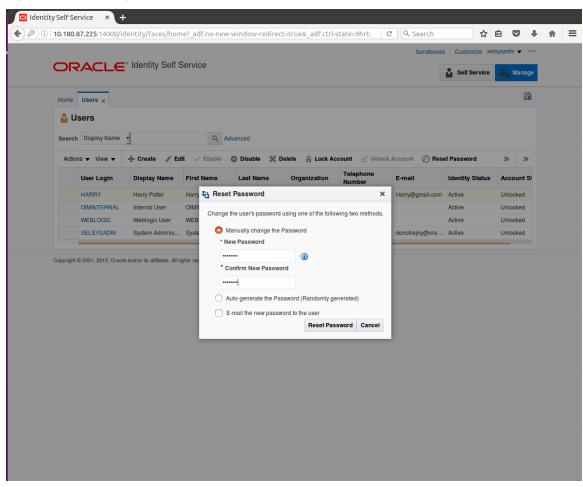


Figure 1–19 Resetting User Password in OIM - New Password

The user password is reset successfully.

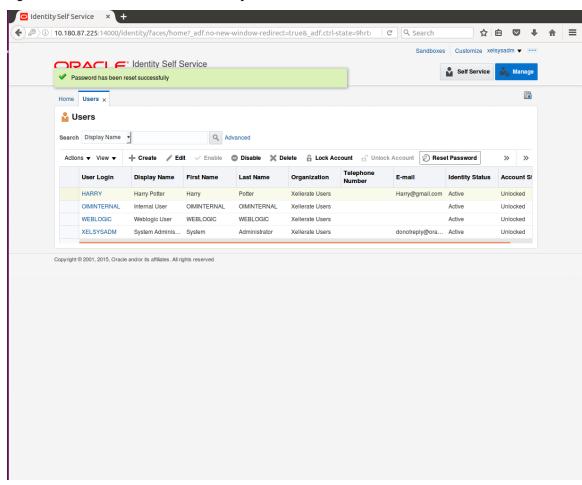


Figure 1–20 Password Reset Successfully

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 OBLS 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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Figure 1–21 Adding a User

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

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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	Harry Harry					Edit A	pply cha	anges	Assig	n Role
Username First Name Last Name Email	Harry Harry Potter Harry@gmail.com		Accrediation Brand			Edit A	pply cha	anges	Assig	n Role
Username First Name Last Name Email	Harry Harry Potter Harry@gmail.com 1010		Accrediation Brand 2FA Status			Edit A	pply cha	anges	Assig	n Role
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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Figure 1–24 Adding User to a Group

The available and assigned roles appear.

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Figure 1–25 Available and Assigned Roles

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

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Figure 1–26 Adding User to Assigned Roles Table

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

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Figure 1–27 Save Changes

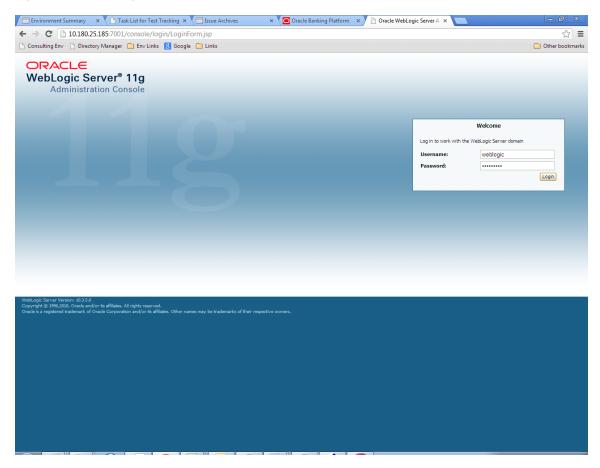
1.8 Unlocking Users in Oracle WebLogic Server (OWS) Administration Console

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.

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RACLE WebLogic Server® Admin	istration Console Home Log Out Preferences 🔤 Record Help	Q	Welcome, weblogic Connected to: base_d
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Lock & Edit	Information and Resources		
He	lpful Tools	General Information	
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	Recent Task Status	 Ask a question on My Oracle Support 	
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•	Domain	Messaging	WTC Servers
		JMS Servers Store-and-Forward Agents	Jolt Connection Pools
	vironment	IMS Modules	
	Servers	Divis Modules Path Services	Diagnostics
	Clusters Virtual Hosts	Bridges	Log Files
	Virtual Hosts Migratable Targets	Data Sources	Diagnostic Modules Diagnostic Images
	Coherence Servers	Persistent Stores	Diagnosic images Request Performance
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e the Change Center	Machines	XML Entity Caches	Context
cord WLST Scripts	Work Managers	Foreign JNDI Providers	SNMP
ange console preterences	Startup And Shutdown Classes	Work Contexts	•
nitor servers		• jCOM	Charts and Graphs
em Status T	ur Deployed Resources	Mail Sessions	Monitoring Dashboard
em status	Deployments	FileT3	
h of Running Servers	• •	• JTA	
Failed (0) Yo	ur Application's Security Settings		
Critical (0)	Security Realms		
Overloaded (0)			
Warning (0)			

Figure 1–29 base_domain

10.180.25.185:7001/console/console_portal?_nfpb=true&_pageLabel=DormainConfigGeneralPage&DormainConfigGeneralPartlethandle=com.bea.console.handlesJMXHandle%28"com.bea%3AName%3Dbase_dormain%2CType%3DDorma...

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		• (\\	_	nking Platform				8
← → C 🗋 10.180.25.185:7001/	console/console	portal?_nfpb	=true&_pageL	abel=Dor	mainUnloc	kUserPage&h	andle=com.bea.console.handle	es.JMXHandle%28"com.be	a%3AName% ∰	Ξ
Consulting Env Directory Manager	🗀 Env Links <u>8</u> 0	Boogle 📋 Link	s						📋 Other bookn	
ORACLE WebLogic Server®	Administration Co	onsole								õ
Change Center View changes and restarts Click the Lock & Edit Luton to modify, add or delete items in this domain. Lock & Edit Release Configuration Domain Structure base_domain ⊕ Environment ⊕ Environments ⊕ Services ⊕ Interoperability ⊕ Diagnostics	dt button to modify, add or s domain. Hessages						principal to: base_do	main		
How do L Image: Constraint of the second secon	V rghts reserved.	her names may be t	rrademarka of their re	spective owne	175.					

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 OBLS

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, Developer. This creates a group in OID (Developer).
- 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 Developer.
- 4. Map the application role Administrators to the Enterprise Group Developer 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.

Figure 1–33 Log in Oracle Fusion Middleware Control

	IN TO CLE ENTERPRISE MAN/ ION MIDDLEWARE CONT			
Domain " User Name " Password				
				ORACLE
Copyright © 1996, 2016, Oracle and/or its affiliates. All rights reserved. /	Oracle is a registered trademark of Oracle Corpo	oration and/or its affiliates. Other names may be trademarks of their respecti	ive owners.	OF

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$\ \ \in \ \ni \ {\tt G}$	③ Not secure 10.180.26.	232:7001/em,	/faces/as-weblogic-w	ebLogicDomainHome?type=v	veblogic_domain⌖	=%2FDomain_ui_d	omain%2	Fui_domain				요 ☆	0 /2	0:
🔛 Apps D	Diff Checker - Online {O Search	n 🧧 ADF Fa	ces Rich Client {0 SP	L_grok 🙀 OBP Agile developm	masonryLayoutBeha	🗶 confluence	🔀 Eviro	nment Details	📙 jpa 🧧 af	table Space Search	📙 ejb 📃 weblogic		» 📒 O	her bookmarks
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Application 0 A by WebLogic D		you own the edit	session lock. To obtain the li	ook, olick "Lock and Edit" in the Change	Center menu.									
.≰ 🛃 ui_dom	Home	-												
Ad 🛃 🗚	Monitoring		Name	AdminServer										
E Coherence	Diagnostics		Host	mum00cqq, in.oracle.com										
🕨 🛅 Metadata Ri	Control	+	Listen Port	7001										
	Logs	•	SSL Listen Port	7002										
	Environment	Þ												
	Deployments	× Del	lete Control + E											
	JDBC Data Sources						Status	Churter	Machine	State	Health	Listen Port	CPU	Heap Usage
	Messaging	2						Cluster	Machine				usage (%)	(MB)
	Cross Component Wiring Web Services						+	obpui_cluster1	ul_machine1	Running Running	OK OK	7001 8001	2.17	1,620.77 3,470.92
	Other Services							oopu_ousteri	u_msonine1	Running	UK.	8001	0.30	3,470.82
	Administration	•												
	Refresh WebLogic Domain													
	Security	► Secur	ity Realms											
	JNDI Browser	Users	and Groups											
	System MBean Browser		antials											
	WebLogic Server Administration Conso	Secur	ity Provider Configuration											
	Target Sitemap	Applic	cation Policies											
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		Keyst												
			m Policies											
		Audit	Registration and Policy]										
		Columns H	idden 33										Ser	vers 2 of 2
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Figure 1–34 Click Application Roles

Figure 1–35 Select Administrators Role

DRACLE' Enter	prise Manager Fusion Middleware Control 12c		WebLogic Domain v weblogic v
ui_domain 0			
E WebLogic Domain	*		Oct 3, 2018 3:22:14 PM GMT+05:30
main_ui_domain/ui_domain >	Application Roles		
pplication Roles			
	the constitution are leaded that are specific to	he application. These roles are seeded by applications in single global policy store when the applications are registered. These are also application roles that are oreated in the context of end users accessing the application.	
	to by security aware approactors that are specific to the WebLogic Domain, use the Oracle WebLogic 3		
Policy Store Provider			
I Search			
lect an application and enter a	search keyword for the role name to search for role	defined by this application. Use the application stripe to search if the application uses a stripe that is different from the application name.	
	Application Stripe OBP	*	
	Role Name Starts With ¥	▶	
err v 📲 Create	🖹 Create Like 🖉 Edit 💥 Delete		🖙 🖬 Deta
Role Name	Display Name	Description	
OCS_PORTAL_USERS	OCS_PORTAL_USERS	OCS_PORTAL_USERS	
OffineRole	OffineRole	OffineRole	
Individual-Broker	Individual-Broker	Individual-Broker	
Individual-Introducer	Individual-Introducer	Individual-Introducer	
Organisation-Broker	Organisation-Broker	Organisation-Broker	
Organisation-Introducer	Organisation-Introducer	Organisation-Introducer	
ATM_Role	ATM_Role	ATM_Role	
POS_Role	POS_Role	POS.Role	
QualityAdministrator	QualityAdministrator	QualityAdministrator	
Developer	Developer	Developer .	
SystemAdministrators	SystemAdministrators	SystemAdministrators	
Administrators	Administrators	Administrators	
CInCollectionAdmin	CinCollectionAdmin	CisCollectionAdmin	
CinCollectorDialer	CinCollectorDialer	CinCollectorDialer	
BusinessDirectBanker	BusinessDirectBanker	BusinessDirectBanker	
CinCollectorErLstMd	CinCollectorErLstMd	CinCollectorErLstMd	
OBPAdminReadonly	OBPAdminReadonly	OBPAdminReadonly	
Customer	Customer	Customer	
CinCollectorErPmtMd	CinCollectorErPrntMd	ClnCollectorErPrintMd	
CinCollectorRecov CinSupervisorCin	CinCollectorRecov CinSupervisorCin	CinCollectorRecov CinSupervisorCin	
CinSupervisorCin	CinSupervisorCin	UnsupervisorUm	
CinManagerCin	CinManagerCin	Cindengeria Hecov Cindengeria	
CinManagerRecov	CinManagerRecov	Ciminanagetum Ciminanagetum	
Global Business Services - 1			
·	·	term of the second s	
4			
Membership for Adn	ninistrators		
rincipal D	isplay Name Type	Description	
dministrators A	dministrators Group	Group of Administrators	

Figure 1–36 Add Principal

Application Role : Administrators Add Principal Role : Density Role : Administrators Add Principal Density Role : Administrators Add Principal Density Role : Administrators Search
Rei (o Ensryne Roe) (o te Ensryne Roe) (o te ensryne and exploration date for a sale contain of the roles as members.
Application tology COB ^P Role Name Add Principal Dipoly Name Add Principal Dipoly Name Add Principal Dipoly Name Add Principal Dipoly Name Specify Intel to search and select the application toles that you search to grade primitations to. Beeningtoin Administration
Application Steps Add Principal Bible Name Animitators Dipular Name Serving tracks and select the spolution roles that you sent to grant permissions to. Description Amministators
Rile Name Add Principal Daplay Name Association roles that you sent to grant permissions to. Develoption Association Develoption Association
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2 User Management With Local Security

This chapter describes the configurations to be done if local security option is configured, instead of OIM based security.

2.1 Create User or User Details

Using the Manage User Creation (SM004) screen, a new user can be created by filling in all the details. The users are mapped to the enterprise role in this screen.

Figure 2–1 Create User

EORACLE		Fast Path	a 🕯 🖈	r X	Posting Date 01-SEPT-2020	ofssuser -
🖌 SM001 🗙 SM002 🗙 SM003	X SM004 X					
Manage User Creation		📖 Read	+ Create	🗸 ок	A Clear	🗙 Exit
User Details						*
• User ID	Jim_BO1 Q					
Personal						- 1
* Name	Jim Jordan	Middle Name				- 1
* Email Id	jim.jordan@demobank.com	Phone Number				
* Preferred Language	English		m Jordan - back office enfication team			
Profile						-

2.2 Define Application Roles

The application roles are created using the Define Application Role (Fast Path: SM002) screen. The application roles are used within the application. For more information, Oracle Banking Loans Servicing Security Guide.

Figure 2–2 Define Application Role

							Cina-	M D.T
pplication Ro	ication Role			ill Re	ad ③ Update	√ ок	Z Clear	🗶 Exit
Add								
Role ID	* Role Name	* Description	• Type	Action				
BOF1	Back Office User 1	Back Office Teller - Verification	Internal	1				
BOF2	Back Office User 2	Back Office Teller - Underwriting	Internal	/				

2.3 Define Enterprise Role

The enterprise roles are used across organization. These roles are created and are mapped to application roles using the Define Enterprise Role (Fast Path: SM003) screen.

Figure 2–3 Define Enterprise Role

EORACL	E			Fast Path	٩		k X	Posting Date 01-SEPT-2020	ofssuser 🗸
🐔 SM001 🗙 SM002 🕽	K SM003 🗶 SM004 🗙								_
Define Enterpris	se Role				III Read	Opdate	√ ок	ar Clear	🗙 Exit
Enterprise Role De	etails								
Add									
Role ID	Role Name	* Application Role	Action						
BOFORG	Back Office User Origination	BOF1 - Back Office User 1	/						
									_

2.4 Password Policy Management

The Password Policy Management (Fast Path: SM001) screen covers the details of password policy to be managed by bank. All the prerequisites for password creation during user creation and password lifecycle are defined using this screen.

EORACLE		Fast Path	٩	i * 1	Posting Da 01-SEPT-2	te ofssuser -
★ SM001 × SM002 × SM003 × SM004 ×						
Password Policy Management		🕮 Read 🕂	Create @ Up	date 🗸	OK 🥂 Cle	ar 🗙 Exit
Policy Details						
* Minimum Length		* Maximum Length				
* Minimum Numeric Characters		* Minimum Alphabet Characters				
* Minimum Special Characters		* Maximum Special Characters				
* Minimum Uppercase Characters		* Minimum Lowercase Characters				
* Expires After	days	* Warn After		days		
* Allow First/Last Name	0	* Allow User ID				

Figure 2–4 Password Policy Management

3 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.

3.1 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 3–1 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 3–2 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)

3.1.1 Setup Details

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

3.1.1.1 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 OBLS UI policy setup:

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

Figure 3–1 Log in to OBLS UI to Configure Policies

Cracle Banking Flatform X	≚ – 6 ×
← → C 🔺 Not secure Hargs://10.180.33.251:8002/com.ofss.fc.ui.view/login.html	☆ :
ORACLE Banking Platform	
Deepaks_us Sign In Use Vitual Keyboard	
VC : 2.5.0.2.0 Copyright 2011, 2016, Oracle and/or its affiliates. All rights reserved	
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2. Enter SM502 in the fast path.

Cracle Banking Platform X	A - 6
← → C A Not secure ₩₱\$://10.180.33.251:8002/com.ofss.fc.ui.view/faces/main.jspx	<u>ά</u>
EANKING PLATFORM Posting Date Apr 5, 2016	sm502 🔍 🍂 🛧 - 🗙 🛈 - Deepaks_us - I
*	Policy Management Fast Path
Map My Day	Ģ
TI Insta Text 🛃 Quick Serve	
	How do we predict this? Cash-O-Meter USD
	This day last year
	Total Transactions 0
	Cash 0 20.0K ^{30.0K} 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
5	
My Transactions	Ģ
No Transactions Executed Today	
# A CO 🔚 👩 🍬 🖉 👹 🕢 🍡 📓 🏘 🖻 🚸 🖳 🛤 🐗	See 1994

Figure 3–2 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 3–3 Policy Management

Cracle Banking Platform X			±.	- 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>	1 - De	epaks_us	
★ SM502 ×					
Policy Management		Print	🗸 0½ 🏒	Clear	X E⊻it
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Resource Inden FC_FR_FEE_OVR					
.⊿ Policy Table					
View 🕶 🛨 🗶 🖾 Detach					
NAME Name	EFFECT ACTION	DESCRIPTION	ROLES	CONDIT	TIONS
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The following screen appears:

Figure 3–4 Enter Service for Policy Definition

Cracle Banking Platform X				۲	-	a ×
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★ SM502 ×						
Policy Management			ē	Print V O k	🖉 C <u>l</u> ear	X E⊻it
A Resource Name						
Resource com.ofss.fc.appr.origination.service.lending.core.application.LendingApplicationServiceSpi.confirmStructureSolutionFC_PR_FEE_OVR						
Resource Type SERVICE						
Policy Table						
View V + X 🖾 Detach NAME	EFFECT	ACTION	DESCRIPTION	ROLES	CONDI	ITIONS
ADMINISTRATORS_OBP_APPX_ORIGINATION_SERVICE_LENDING_CORE_APPLICATION_LENDINGAPPLICATIONSERVICESPI_CONFIRMSTRUCTURESOLUTION_FC_PR_FEE_O E				Administrators		
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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				4	- 0	×
←	C A Not secure HMTS://10.180.33.251:8002/com.ofss.fc.ui.view/faces/main.jspx					1	☆ :
	E ORACLE Posting Date Apr 5, 2016	ast Path		9 * *-	× 0 - D	eepaks_us 🗸	
	★ SM502 ×						
	Policy Management			ē	Print VOL	🖉 Clear 🛛 🗙	E⊻it
	A Resource Name						
	Resource com ofts fc appx.origination.service Jending.core application.LendingApplicationServiceSpl.confirmStructureSolution.FC_PR_FEE_OVR						
	Resource Type SERVICE						
	A Policy Table						
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	Er	FFECT_GRANT					
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Figure 3–5 Effect of the Policy

Oracle Banking Platform				±	-	a >
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BARKING PLATFORM	Fast Path		9 * *-	X 0 ~	Deepaks_u	3 - E
SM502 X						
Policy Management			ē	Print 🗸 Oli	🖉 Clear	$\pmb{\times} E_{\underline{X}} i t$
A Resource Name						
Resource com oftis /k.appx.orligination.service.lending.core.application.Lending.ApplicationServiceSpl.comfrmStructureSolutionFC_PR_FEE_OVR Resource Type SERVICE						
✓ Policy Table						
NAME	EFFECT	ACTION	DESCRIPTION	ROLES	COND	ITIONS
ADMINISTRATORS_OBP_APPX_ORIGINATION_SERVICE_LENDING_CORE_APPLICATION_LENDINGAPPLICATIONSERVICESPI_CONFIRMSTRUCTURESOLUTION_FC_PR_FEE_O	EFFECT_GRANT	PERFORM_WIT	ADMINISTRATO	Administrators		5
	•	•				
		VIEW SHOW_ENABLED SHOW_VALUE PERFORM PERFORM_WITHI				
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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 3–6 Action of the Policy

BA S	MINING FLATFORM Posting Date Apr 5, 2 SM592 × Management	016									1
s	SM5 <u>0</u> 2 ×						Fast Path		Q * *-	× 0 -)eepaks_us 🗸
olicy N	Management										
									1	Print 🗸 O <u>K</u>	🖉 Clear 🗙 I
Res	source Name										
	Dessure										
				ending.core.application	n.LendingApp	licationServiceSpi.confirmStructureSolution/FC_PR_FEE_O	/R				
	Resource Typ	SERVIC	E								
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Figure 3–7 Conditions of the Policy

3.1.1.2 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.

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Figure 3–8 Log in to SOA Composer

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 3–9 Find the Rules for Service

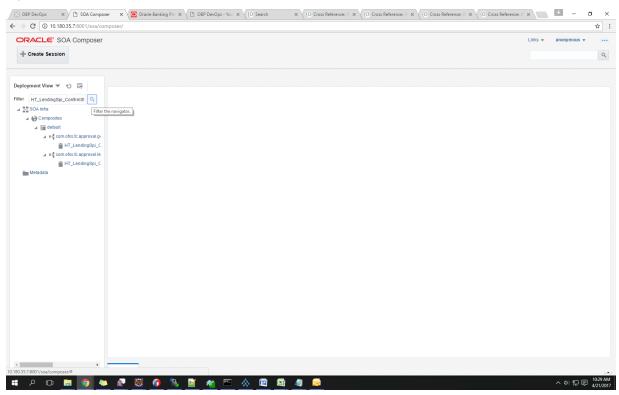


Figure 3–10 Filter Rules

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

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H ^L com.ofss.fc.approval.genericru HT_LendingSpi_Confirm	Search By Altas A set of rules organized in a table format that take effect based on one or more input conditions and then invoke a corresponding output action	
Com.ofss.fc.approval.lendings	Click + above to create a rule General I//Then Rule A rule that takes effect based on one or more of input conditions	
HT_LendingSpi_ConfirmS		
tadata		

Figure 3–11 Searching Specific Process

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

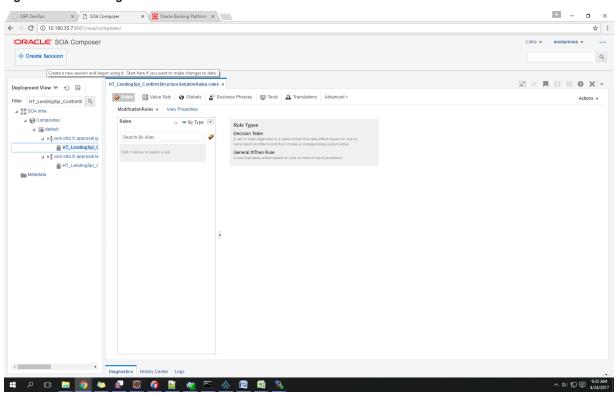


Figure 3–12 Creating the Rule

5. From the ModificationRules list, select the Common_Ruleset option as shown below.

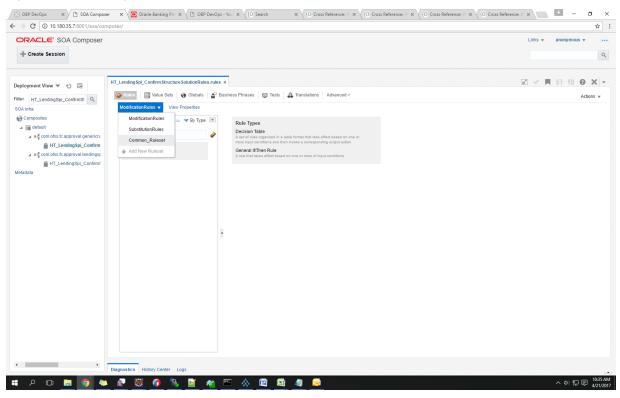


Figure 3–13 Selecting Rules File

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

Note

The rule being created must be Active rule.

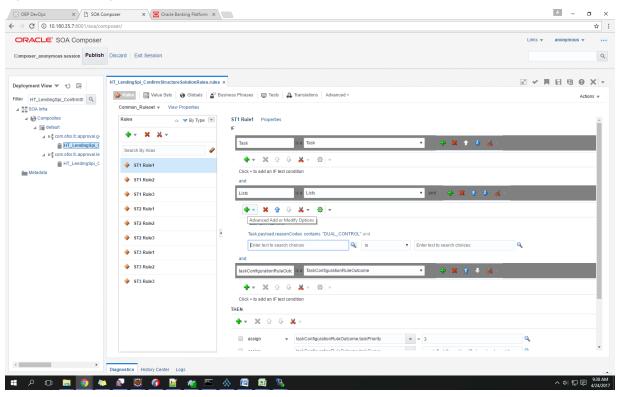


Figure 3–14 Adding Attributes to the Rule File

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Figure 3–15 Adding Attributes to the Rule File

7. Click Validate to validate the rules file.

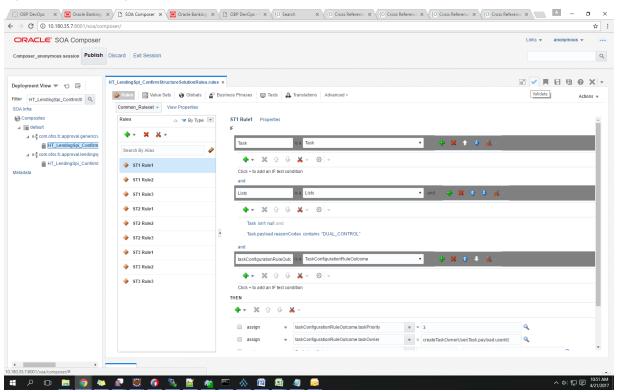


Figure 3–16 Validating Rules File

8. Click Save to save the rules.

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Figure 3–17 Saving Rules File

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

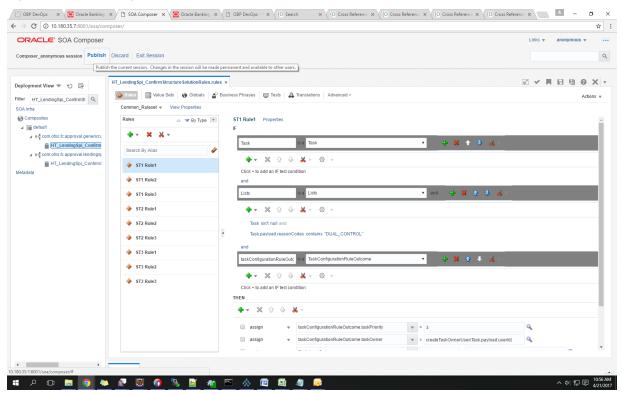


Figure 3–18 Publishing Rules File

3.1.1.3 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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Figure 3–19 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 3–20 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 3–21 Severity Tab - Add Severity

3.1.2 Performing the Transaction

Following procedure explains how to perform a transaction:

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

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Figure 3–22 Initiating Transaction

Figure 3–23 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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Figure 3–24 Log in to Approval Worklist

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

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Figure 3–25 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).

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View v F 😭 Det Sosting Date Work Item ID Apr 5, 2016 20160960045	Party ID 67347 000002518				Final Approver ID sdeepak_us		Transaction				
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Figure 3–26 Viewing Status of Work item

3.2 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 3–3 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.

3.2.1 Setup Details

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

3.2.1.1 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 OBLS UI policy setup:

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

Figure 3–27 Log in to OBLS UI to Configure Policies

2. Enter SM502 in the fast path.

Chacle Banking Platform ×	8 -	a ×
C A Not secure Versing Date Art 5,2016 Posting Date Art 5,2016	sm502j Q 🛠 🐆 X 🛈 - Deepaks.	± ±
	Policy Management Fast Path	ua v 🛄
Map My Day		Ģ
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	How do we predict this? Cash-O-Meter USD	
	This day last year Total Transactions 0	
	Cash 0 20.0K ^{30.0K} 40.0K	
No data to display	Non-Cash 0 10.0K 50.0K In Out	0.00 0.00
	Actual Day Today Projected Day	
	- Average Day	
My Transactions		Ģ
No Transaction Executed Today		
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Figure 3–28 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,

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

🔀 OBP DexOps x X 🖸 Oracle Banking Plu x D SOA Composer x D OBP DexOps - You x X 0 Search x 0 Cross Reference // x 0 Cross Reference // x 0 Cross Reference // x	× {O Cross Reference: // × {	D Cross Reference: /F ×	* - ø ×
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	Fast Path	Q ¼ ¼ · X 0 ·	Deepaks_us 🗸 🚥
★ WLQ01 × SM502 ×			
Policy Management		r 🔁 Print 🗸 Og	🗹 Clear 🗙 Exit
⊿ Resource Name			
Resource continStructureSolution ResourceType •			
A Policy Table			
View - + 🗙 🖾 Detach			
NAME No data to display.	EFFECT ACTION	DESCRIPTION ROLES	CONDITIONS
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Figure 3–29 Policy Management

The following screen appears:

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ource Name					
Resource com.otss.fc.appx.origination.service.lending.core.application.LendingApplicationServiceSpl.confirmStructureSolution					
Resource Type SERVICE					
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NAME	EFFECT	ACTION	DESCRIPTION	ROLES	CONDITI
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UTHENTICATED_ROLE_OBP_APPX_ORIGINATION_SERVICE_LENDING_CORE_APPLICATION_LENDINGAPPLICATIONSERVICESPI_CONFIRMSTRUCTURESOLUTION_PERFO	R EFFECT_GRANT	PERFORM	AUTHENTICATE	authenticated-role	
					1)) 記 白 1

Figure 3–30 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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	⊿ R	source Name					
		Resource com.ofss.fc.appx.origination.service.lending.core.application.LendingApplicationServiceSpi.confirmStructureSolution					
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		NAME	EFFECT	ACTION	DESCRIPTION	ROLES	CONDITIONS
		ADMINISTRATORS_OBP_APPX_ORIGINATION_SERVICE_LENDING_CORE_APPLICATION_LENDINGAPPLICATIONSERVICESPI_CONFIRMSTRUCTURESOLUTION_PERFORM_GR	EFFECT_GRANT	PERFORM	ADMINISTRATO	Administrators	
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							4/21/2017

Figure 3–31 Effect of the Policy

Figure 3–32 Action of the Policy

A Not secure Letters/10.180.33.251.8002/com.otds.f Command FLATCHER Posting Date Agr 5, 2016 WLQ01 × 5M502 × cy Management Resource Name Resource Type SERVICE Policy Table ev + X I Detach	our-verwy ruid exprimating paper	FastPath			Y O → Do	epaks_us - Cjear X
WL01 × SM502 × cy Management Resource Name Resource com ots for Resource Type SERVICE	pps.origination service lending core application LendingApplicationServiceSpl confirmStructureSolution	FastPath				
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		•	•			-
			VIEW SHOW_ENABLE	D		
			SHOW_VALUE PERFORM	-		
				HOUT_APPROVALS		

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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	Resource Type SERVICE					
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	NAME	EFFECT	ACTION	DESCRIPTION	ROLES	CONDITIC
AE	VINISTRATORS_OBP_APPX_ORIGINATION_SERVICE_LENDING_CORE_APPLICATION_LENDINGAPPLICATIONSERVICESPI_CONFIRMSTRUCTURESOLUTION_PERFORM_GR	EFFECT_GRANT	PERFORM	ADMINISTRATO	Administrators	
A	THENTICATED_ROLE_OBP_APPX_ORIGINATION_SERVICE_LENDING_CORE_APPLICATION_LENDINGAPPLICATIONSERVICESPI_CONFIRMSTRUCTURESOLUTION_PERFOR	EFFECT_GRANT	PERFORM	AUTHENTICATE.	authenticated-role	
AI	MINISTRATORS_OBP_APPX_ORIGINATION_SERVICE_LENDING_CORE_APPLICATION_LENDINGAPPLICATIONSERVICESPI_CONFIRMSTRUCTURESOLUTION_PERFORMWIT	EFFECT_GRANT	PERFORM_WIT	ADMINISTRATO.	. Administrators	
nding	Mabix_ProductGroup • = • PRODUCT_GROUP AND • + X					

Figure 3–33 Conditions of the Policy

3.2.1.2 SOA Composer Rules Setup

For more information on setting up rules in SOA Composer, see Section 3.1.1.2 SOA Composer Rules Setup.

3.2.1.3 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

RANKAR FATORI Ref SM500 x Context	ORACLE	Posting Date 06-Oct-2016		_	
by Name Advanced Search Advanc	BANKING PLATFORM			FastPat	n 🔍 🛧 🛧 🗙 🛈 - OFSSUser -
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General Details Permissions Approval Checks Service Attributes Service Javadoc		OTHER			
		General Details Permi	ssions Approval Checks Severity Service Attributes Se	rvice Javadoc	

Figure 3–34 Search for Service Using Entire Service Name

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

		Posting Date 0	6-Oct-2016							Fast Path		×	* × × 0	 OFSSUser -
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arch by	Name •		Artifact Depend	ency Map										🗇 Print 🕻
eria	Advanced Search	× →	Lcm - LimitsAccountApp Validate Availment Date For Disb SERVICE	Account - RateLockApplicati Fetch Valid Rate Lock Configuration For Account SERVICE	Origination - FundingTableDet Refresh Pricing Fees SERVICE	Party - FinancialParamet Close Financial Parameter SERVICE	Config - RootCompositeTe Delete Root Composite Template SERVICE	Pm - ProductManufactu. Fetch All Active Products SERVICE	Party IdentityVerificatio Update Identity Verification History SERVICE	Fetch Allowed	Account - BundleInquiryAppl Fetch All Subscription Details SERVICE	Party - BureauReportApp Close Bureau Report SERVICE	Ins - InsuranceSimulati Fetch By Version SERVICE	Origination - OriginationBundle Is Edit Submission Required For Bundle SERVICE
			com.ofss.fc.appx Collection - CaseCentricActio Update SERVICE	com.ofss.fc.appxl 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.appxr 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.appxi Integration - MDMBatchIntegra 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 - O	com.ofss.fc.appx.i Ins - PropertyInsuranc Save Selected Quote SEPUTCE	com.ofss.fc.appx Origination - LendingApplicatio Confirm Structure Solution SEPVITE Application Service S	com.ofss.fc.appx Pc - BillerCategoryApp Import Andfetch Biller Category SEDUTCE SEDUTCE
		ī.											j	
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								001		RE				

Figure 3–35 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.

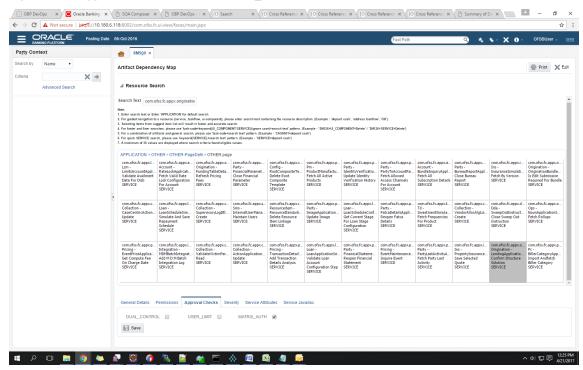


Figure 3–36 Approval Checks tab - MATRIX_AUTH

3.2.2 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.

	ration/faces/applicationForm?sid=SUB301020160003566&rat=1	
BANKING PLATFORM APPIIC	ation Form Posting Date Apr 5, 2016	1 V Deepaks_us V
Submission Status		
Processing Status Submissi	on SUB301020160003566 has been processed.	
Unsecured Overdraft Manuf	actured Group - Billing of \$200,000.00 for 2 years	
Parties Affiliates	Amrit Sarangi (000000220)	
Application ID	APP301020160002801	
Borrowing Entity Facility ID	Amrit Sarangi -: BE20160010000067 FC20160960001761	
Approved Amount	\$200,000.00	
Decision Status	Approved	
Approval Expiry Date	May 17, 2016	
		Track Application
		паск Аррісавон

Figure 3–37 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.

by Tasks Werty Application APP2010201 Initiated Tasks Werty Application APP2010201 Structure Solution of Lendra A My Staff Tasks Werty Valuation Annual Report Administrative Tasks Werty Valuation Annual Report Report Report Report Past Day Past Mont Past Mont Past	Q V Me A ure Solution (FC_FR_Disbursement_ file(0002779) and Submission SUB20 folo0027792 Application APP201020160002779 to folo0027292 and Submission SUB20 folo0027292 and Submission SUB20 folo0027292 and Submission SUB20 folo00279 to folo002792 and Submission SUB20 folo00279 to acadication APP201029160002791 co acadication APP201029160002791 co acadication APP201029160002791 co acadication APP201029160002791 co co acadication APP201029160002791 co co	1020160003564 and Submission SUB201020160003564 and Submission SUB201020160003563	UAL_CONTROLFC_PR_FEE_OVR) of Lending Application	Number Creator 00 203374 JS 203363 JS 203362 JS 203324 JS 203344 JS 203345 JS 203346 JS 203346 JS 203346 JS 203346 JS 203347 JS 203346 JS 203346 JS	Assigned 21/04/2017 6/21 FM 21/04/2017 6/21 FM 21/04/2017 5/40 FM 21/04/2017 5/40 FM 21/04/2017 15/1 FM 21/04/2017 15/1 FM 21/04/2017 15/2 FM	Priority 3 ▼ 3 3 3 3 3 3
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Outlay	ay		Funds	Create Subtask		
► PU	Purchase or Cost	\$10,000.00	Facility	Escalate		
Ad	Additional Parameters		Customer Contribution	Renew		
► Ba	Bank Fees	\$585.60		Suspend		
► MI	Misc Fees	\$165.00		· ·		

Figure 3–38 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.

3.3 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 the application.
- 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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ORACL	-	a Jan 31, 2016						Fast Path	C) * *· X	OFSSUser -
BANKING PLATFORM											
ifact Dependenc	у Мар										🖶 Print 🕽
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Figure 3–39 Select the Service to be Configured

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Figure 3–40 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 3–41 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 Artifact Dependency Map (Fast path: SM500) page.

Follow the below steps to configure severity:

- 1. Log in to the application.
- 2. Navigate to the 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 3–42 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 3–43 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:
	 Ignore: Allows transaction to complete without any authorization, that is Auto Authorization.
	• Override: Transaction will be sent for Authorization.
Severity	 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.
	 Reject: System does not allow to proceed with transaction.

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 3–44 Save Severity Details

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Figure 3–45 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 3.2.2 Performing the Transaction

3.4 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 3–46 Worklist App - Administration Link

3. Navigate to Task Configuration tab.

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Figure 3–47 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 3–48 Search Task Types

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

Figure 3–49 Task Editing

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6. Click the Edit icon.

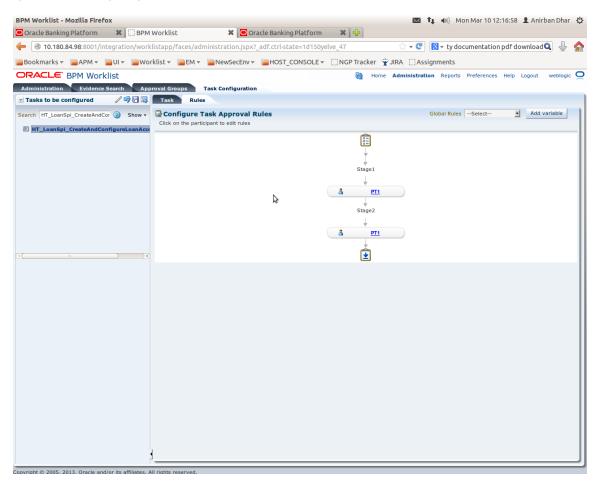


Figure 3–50 Configuring Rules - Edit Icon

- 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 3–51 Configuring Rules - Rules tab

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

Figure 3–52 Expand Rule

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Figure 3–53 Advanced Settings

Figure 3–54 Rule Expansion

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

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Figure 3–55 Enabling Rule

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

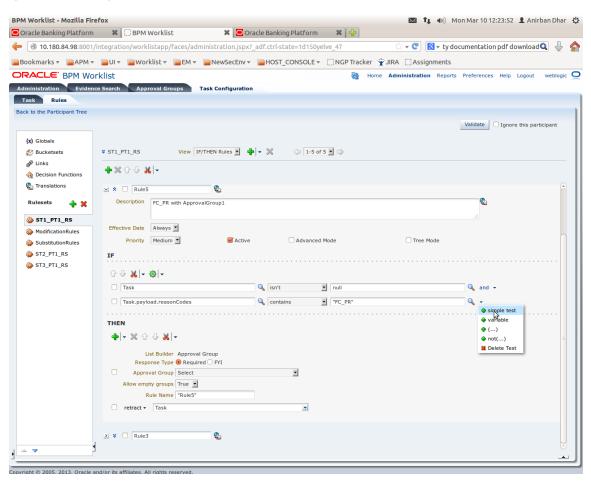


Figure 3–56 Adding New Row of Condition

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

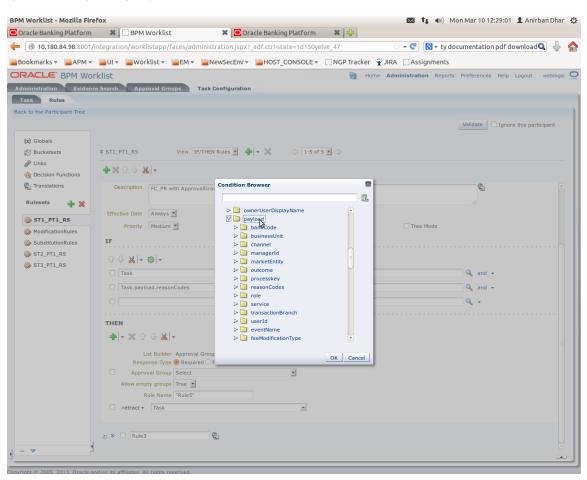
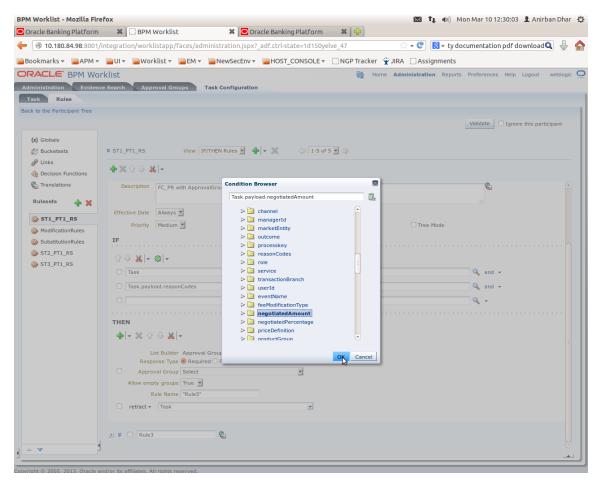


Figure 3–57 Expanding Payload

Figure 3–58 Selecting Fact



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

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Figure 3–59 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 3–60 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.

4 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.

4.1 Important Rule Artifacts

This section provides information about important rule artifacts.

4.1.1 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 4–1 and Figure 4–2 illustrate the procedure of opening the rules dictionary for VerfiyApplicationTask.

Figure 4–1 SOA Composer - Open Rules Dictionary Browser

Create Session	nposer
Deployment View	Image: String

Figure 4–2 SOA Composer – Selecting Rules Dictionary

	RACLE' SOA Compos	se
+	Create Session	
Deploy	yment View 🔻 👈 🖙	
Filter	VerifyApplication Q	
Infra		1
ompos	sites	
📰 defa	ault	
a H	com.ofss.fc.workflow.process.Verify	Α
	TaskConfigBaseRules.rules	
	VerifyApplicationHT.task	
	VerifyApplicationHTRules.rule	3
	VerifyApplicationHTRulesBase	
	VerifyApplicationTaskConfigRu	ılı
lata		

4.1.2 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 4–3 SOA Composer – Selecting Decision Function

+ Create Session	
leployment View 💌 🕥 🕎	VerifyApplicationTaskConfigRules.rules ×
ilter VerifyApplication Q	🚳 Rules 🗐 Value Sets 🚯 Globals 😰 Business Phrases 🖾 Tenslations Advanced> 🔍 Explorer 🗽 Facts 🚸 Decision Properties 🔗 Links
A Infra Composites	RetrifyApplicationTaskConfig
efault	WerifyApplicationTaskSTPRul Name VerifyApplicationTaskConfigRulesDecisionService
Com.ofss.fc.workflow.process.Veri	Description
TaskConfigBaseRules.rules	Rule Firing Limit 10000
VerifyApplicationHT.task	Make stateless
VerifyApplicationHTRulesBa:	Rulesets are on stack once
VerifyApplicationTaskConfi	Tests T
adata	
	Initial Actions Inputs Outputs Rulesets & Decision Functions
	assert v new taskConfigurationRuleOutcome()
	8

4.1.3 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 4–4 illustrates addition or removal of rulesets from a decision function.

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

🕒 OBP DevOps - Your OBP 🗙 🛛 🔀 OBP DevOp	s 🛛 🗙 🙀 [OBPR26-4099] R2.6_Sys: X 🧰 Application Form 🛛 X 📳 sca-infra (SOA Infrastruc: X 🕐 🗅 BPM Worklist 🛛 X	🕒 SOA Composer 🗙 📄 🖬 🖬 🖬 🖬
← → C (① 10.180.87.63:8001/soa/comp	oser/faces/home?_adf.no-new-window-redirect=true	\$
ORACLE' SOA Composer		Links 🔻 ofssuser 👻 🚥
+ Create Session		9
	rifyApplicationTaskConfigRules.rules ×	21 · 제 문 백 0 · · ·
Deployment View 👻 🕤 📴	🍅 Rules 🗐 Value Setz 🗑 Globals 🔐 Business Phrases 📴 Tests 🚓 Translations 🛛 Advanced > 🔍 Explorer 🛚 🛝 Facts 🚸 Dec	
Filter VerifyApplication Q	PriorityAndOwnerRuleSet V View Properties	Actions V
)A Infra) Composites	PriorityAndOwnerRuleSet ver Operation	
a 🔛 default	FirstStageAssignmentRuleSet	
E. Com.ofss.fc.workflow.process.Veri	SLARuleSet applicationSummaryDTO is a applicationSummaryDTO	
TaskConfigBaseRules.rules	CustomAttributesRuleSet Click + to add an IF test condition	
VerifyApplicationHTRules.rul	TaskSTPRuleSet and	
VerifyApplicationHTRulesBa	Add New Ruleset customAttributes Is a customAttributes	
VerifyApplicationTaskConfi stadata	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(applicationS	ummaryDTO.header.priority)
	assign v taskConfigurationRuleOutcome.taskOwner = createTaskOwnerUser(appli	;ationSummaryDTO.header.initiatedBy)
	<	,
•	agnostics History Center Logs	
🔊 🥝 🚞 🔂 📀	📦 🔬 🕺 🚡 🐌 👹 🗽 🚑 🧑 🕵 😭 😣	workspace "Oracle " 🔺 🏴 🗊 🌜 1000 AM

Figure 4–5 shows what a ruleset looks like.

Figure 4–5 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

4.2 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 4–6 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 4–6 SOA Composer - Viewing inputs to a Decision Function

VerifyApplicationTaskConfigRules.rules ×												
🗞 Rules 🗐 Value Sets 🚱 Globals	Pusiness Phrases	🔄 Tests 🔒 Translations	Advanced > Q Explorer	🔥 Facts 🏼 🏠 De	cision Properti	es 🔗 Links						
Reversion Task Config												
or Verify Application Task STPRul.	Name	VerflyApplicationTaskConflgRulesDecisionService										
	Description											
	Rule Firing Limit	10000										
		Make stateless										
		Rulesets are on stack once 👔										
	Tests		*									
le lé	ial Actions Inputs	Outputs Rulesets & Decision Fu	nctions									
	ial Actions inputs	Outputs Rulesets_& Decision Pu	ncions									
•	Name		Business Type	Tree	List	Description						
	🔄 applicationSu	mmaryDTO	applicationSummaryDTO	I.								
	🔄 customAttribu	tes	customAttributes	A.								

In the example, the applicationSummaryDTO is used in the rules to determine the task priority and the task owner. This is illustrated in Figure 4–5.

4.2.1 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 4–7 shows example usage of custom attributes.

```
Figure 4–7 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)
```

4.3 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 4–8 shows output definition of decision function.

Figure 4–8 SOA Composer – Viewing Output of a Decision Function

Ver	ifyApplica	ationTaskConfigF	Rules.rules	×												
8	Rules	Value Sets	🚱 Glo	bals	P Bus	siness Phrases	🕎 Tests	🔒 Translation	s Advanced >	Q Explorer	II\ Facts	🏠 D	ecision Properti	ies 🔗 Links		
	🎪 Verif	yApplicationTask	kConfig													
	🐟 Verif	yApplicationTask	k STPRul.	Rul. VerifyApplicationTaskConfigRulesDecisionService Description												
			Rule Firing Limit 10000													
							Ruleset	s are on stack onc	. (2)							
						Tests				•						
				Initi	al Action	ns Inputs 🖸	utputs Ru	ulesets_& Decision	Functions							
, Name						Name			Business	Business Type			List	Description		
	📑 taskConfigura				ionRuleOutc	ome	taskConfigu	taskConfigurationRuleOutcome								

4.3.1 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 4–9 shows an example for assigning a StageParticipant.

Figure 4–9 SOA Composer – Example for adding Stage Participant

```
      assign new •
      ParticipantSet participant = createParticipantFromGroups("Administrators")

      assign new •
      UserFilterCriteria filter = new UserFilterCriteria()

      assign new •
      UserAttributeFilterCriteria attributeFilter1 = createUserAttributeFilterCriteria("dummyAttributeName1","dummyAttributeValue1",UserAttrib

      addUserAttributeFilterCriteria (filter,attributeFilter1)
      assign new •
      UserAttributeFilterCriteria attributeFilter2 = createUserAttributeFilterCriteria("dummyAttributeName2","dummyAttributeValue2",UserAttrib

      addUserAttributeFilterCriteria (filter,attributeFilter2)
      assign new •
      StageParticipant stageParticipant = createStageParticipant(participant, filter)

      addStageParticipant(taskConfigurationRuleOutcome, stageParticipant)
      AddStageParticipant
      StageParticipant
```

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 4–10 shows example usage of custom attributes.

Figure 4–10 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)

4.3.2 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.

5 Data Management

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

5.1 Batch Execution

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 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 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.

5.1.1 Database Backup

Perform Database Backup before starting with the Batch Execution.

5.1.2 Navigate to End of Day Page

To navigate to the End of Day page:

- 1. Log in to the 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 5–1 End of Day (Fast path:EOD10)

	Fast Path/Screen Name Q 🗏 🌪 - Posting Date t3010 - 🚥
★ E0D1 <u>0</u> ×	
End of Day	Print 🧷 Clear 💥 Exit
✓ Category Details	^
* Process Category	Category Status
Job Type	Process Date
Job Code	Next Process Date
Category Start Time	Category End Time
Polling Interval	Last Refreshed Time
 ✓ Process ✓ Shell Details 	Restart Start Recover
Clear All Filters	
View * JII Export To Excel 📴 🖃 Detach	

5.1.3 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 5–2 Cutoff Category - Not Started

							Fast Path/Screen Name 🔍 🗐 😭	Postin Jul 24,	Date 1301)
FOD10 ×										
End of Day								Prin	t 🗷 Clear	🗙 E <u>x</u> it
✓ Category Details										
Process Category Cutoff	~						Category Status Fresh Start			
* Job Type GROUP 🗸							Process Date Jul 21, 2017			
* Job Code BRN_GRP_1										
Category Start Time	Category End Time									
Polling Interval							Last Refreshed Time 03-Apr-2018 11:55:55			
^I ⊿ Process								Q Rest	art Start	Recover
▲ 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			
Cutoff Prologue	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 5–3 Cutoff Category - Start

E ORACLE°										Fast Path/Screen Name	9	E	★ -	Posting Da Jul 24, 201	ite 17 t3010	
TEOD10 ×																
End of Day														Print	Z Clear	🗙 E <u>x</u> it
Category Details					0 Info	rmation			×							
	Process Category	Cutoff	~		The catego	ory has starte	ed. Logging Level	= WARNING		Category Status Fresh Start	ß					
	* Job Type	GROUP 🗸						ок		Process Date Jul 21, 2017	145					
	* Job Code	BRN_GRP_1								Next Process Date Jul 24, 2017						
	Category Start Time									Category End Time						
	Polling Interval	\sim								Last Refreshed Time 03-Apr-2018 11:57:	59					
Process													c	Restart	Start	Recover
✓ Shell Details																Ģ
Clear All Filters																
View 👻 🖑 Export To Exce	el 🖙 🗟 Detach															
			\sim													
Name of Shell			Status	Trend	Duration	No of Aborts	Throughput	Total Records	Status	Expected Completion Time						
Cutoff Prologue			Not Started	Trend	00:00:00											
https://mum00chi.in.oracle.com	20162/com ofer fe ui		1													

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



								Fast Path/Screen Name 🔍 🗏 ★	Posting Da Jul 24, 201	te 7 t3010	
* EODI <u>0</u> ×											
End of Day									Print	Z Clear	🗙 Egit
✓ Category Details											
* Process Category Cutoff	~							Category Status Completed			
* Job Type GROUP 🗸	GROUP V Process Date Jul 21, 2017							Process Date Jul 21, 2017			
* Job Code BRN_GRP_1	BRN_GRP_1 V Next Process Date Jul 24, 2017							Next Process Date Jul 24, 2017			
Category Start Time 03-Apr-2018 11:58:	rgory Start Time 03-Apr-2018 11:58:11 Category End Time 03-Apr-2018 11:58:11										
Polling Interval								Last Refreshed Time 03-Apr-2018 11:58:20			
▲ Process									Restart	Start	Recover
✓ Shell Details											Ģ
Clear All Filters											
View 🔻 彈 Export To Excel											
	~										
Name of Shell	Status	Trend	Duration	No of Aborts	Throughput	Total Records	Status	Expected Completion Time			
Cutoff Prologue	Complete		00:00:00		0	0					

5.1.4 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 5–5 EOD Category - Not Started

E ORACLE							Fast Path/Screen Name Q	🖥 🚖 - Posting Date Jul 24, 2017 t3010 - 🚥
TEOD10 ×								
End of Day								Print 🧷 Clear 💥 Exit
✓ Category Details								^
Process Category End of Da	y v						Category Status Fresh Start	
* Job Type GROUP	1						Process Date Jul 21, 2017	₽
* Job Code BRN_GRE	1 ~						Next Process Date Jul 24, 2017	
Category Start Time							Category End Time	
Polling Interval	\sim						Last Refreshed Time 03-Apr-2018 11:59:36	
▲ Process								Restart Start Recover
⊿ Shell Details								0
Clear All Filters								
View 👻 🕮 Export To Excel								
	~							
Name of Shell	Status	Trend D		o of Throughput	Total Records	Status	Expected Completion Time	
Reg CC Schedule Generation EOD Shell	Not Started	Trend 00	0:00:00					^
Bundle Reports	Not Started	Trend 00	0:00:00					
								~

- 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 5–6 EOD Category - Start

								Fast Path/Screen Name Q 📃 😽	Posting Date Jul 24, 2017 t3010 - 🚥
Teod 10 ×									
End of Day									Print 🧷 Clear 💥 Exit
✓ Category Details			0 Infor	mation			×		^
* Process Category End of Day	~		The category	/ has starte	d. Logging Leve	= 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	
▲ Process									Q Restart Start Recover
▲ Shell Details									Q
Clear All Filters									
View 🔻 💯 Export To Excel 📴 🔛 Detach									
	~								
Name of Shell	Status	Trend D	luration	No of Aborts	Throughput	Total Records	Status	s Expected Completion Time	
Submission EOD Expiry Shell	In Progress	- 0	0:00:00		0	0	0%	03-Apr-2018 08:00:41	^
Value Date EOD Shell	Not Started	- 0	0:00:00		0	0	0%		~
https://mum00cbi.in.oracle.com:30162/com.ofss.fc.ui.view/faces/main.j	spx#								

Figure 5–7 EOD Category - In Progress

								Fast Path/Screen Name 🔍 🗏 📩	Posting Da Jul 24, 20	ate 17 t3010	
The second secon											
End of Day									Print	Æ Clear	🗙 E <u>x</u> it
✓ Category Details											^
Process Category End of Day	\sim							Category Status In Progress			
* Job Type GROUP 🗸								Process Date Jul 21, 2017			- 11
* Job Code BRN_GRP_1]							Next Process Date Jul 24, 2017			- 11
Category Start Time 03-Apr-2018 12:0	0:40							Category End Time			- 11
Polling Interval								Last Refreshed Time 03-Apr-2018 12:01:08			
✓ Process								(Restart	Start Rec	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			
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 5–8 EOD Category - Complete

					Fast Path/Screen Name 🔍 🗏 ★ - 🖁	losting Date ul 24, 2017 t3010 - 🚥
fodig ×						
End of Day						Print 🧷 Clear 💥 Exit
✓ 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 12:00:4	D C				Category End Time 03-Apr-2018 12:01:30	
Polling Interval					Last Refreshed Time 03-Apr-2018 12:02:05	
^I ⊿ Process					Q. Re	start Start Recover
✓ Shell Details						Q
Clear All Filters						
View 🔻 ৃ Export To Excel 📴 🔛 Detach						
	~					
Name of Shell	Status Trend		No of 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		*

5.1.5 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 5–9 Internal S	System FOD	Category - No	t Started
i igule 0–3 internal d	Jystem LOD	category - no	Julieu

							Fast Path/Screen Name 9	∃ ★·	Posting Da Jul 24, 201	te 7 t3010	
FOD10 ×											
End of Day									Print	Z Clear	🗙 E <u>x</u> it
✓ Category Details											^
Process Category Internal System EC	D						Category Status Fresh Start				
* Job Type GROUP 🗸							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 12:03:09				
Process								Q I	Restart S	tart Rec	over
▲ Shell Details											Ģ
Clear All Filters											
View 👻 💯 Export To Excel 📴 🔛 Detach						G	3				
	×										
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.*

								Fast Path/Screen Name Q	目★.	Posting Jul 24, 2	Date 1017 1301	0 - 🚥
The second secon												
End of Day										Print	Z Clear	🗙 E <u>x</u> it
✓ Category Details			 Information 	mation		3	ĸ					^
* Process Category Internal System Et	DD V		The categor	y has starte	d. Logging Level	= WARNING		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 12:04:21				
Process									Ģ	Restart	Start R	acover
												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				
Party EOD Shell	In Progress	-	00:00:00		0	0	0%					î
Interest Shell Inter	In Progress	-	00:00:00		0	0	0%					~

Figure 5–10 Internal System EOD Category - Start

Figure 5–11 Internal System EOD Category - In Progress

								Fast Path/Screen Name	∎ ★	Postir Jul 24	g Date , 2017 t301	
f EOD1 <u>0</u> ×												
End of Day										Pri	nt 🧷 Cjear	🗙 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				- 11
* Job Code BRN_GRP_1								Next Process Date Jul 24, 2017				- 11
Category Start Time 03-Apr-2018 12:04	21							Category End Time				- 11
Polling Interval								Last Refreshed Time 03-Apr-2018 12:04:33				
✓ Process										Q Restart	Start R	ecover
▲ Shell Details												Ģ
Clear All Filters												
View 🔻 輝 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				^
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 5–12 Internal System EOD Category - Complete

≡ (DRACLE®									(Fast Path/Screen Name 🔍 🗏 🛧 - Posting Date 3010 -	
<u>*</u> E	DD1 <u>0</u> ×										_
End	of Day									Print 🗷 Clear 💥	Exit
⊿ Ca	tegory Details										^
	* Process Category	Internal System EOE	~							Category Status Completed	Ш
	* Job Type	GROUP 🗸								Process Date Jul 21, 2017	Ш
	* Job Code	BRN_GRP_1 ~								Next Process Date Jul 24, 2017	Ш
	Category Start Time	03-Apr-2018 12:04:21								Category End Time 03-Apr-2018 12:05:33	Ш
	Polling Interval	~								Last Refreshed Time 03-Apr-2018 12:05:33	Ш
Pr	ocess									Q Restart Start Recover	
⊿ Sh	ell Details									Q	
Clear	All Filters										
View	r 👻 🎵 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 batch Verification Shell		Complete	-	00-00-02		n	n			~

5.1.6 Beginning of Day (BOD) Category Execution

This category performs the tasks required for opening a business day in a bank. For example, standing instruction, sweepout instruction, 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 5–13 BOD Category - Not Started

								Fast Path/Screen Name 🧿 🗏 🌪 - Posting Date 13010	-
fi EOD1 <u>0</u> ×									
End of Day								Print 🧷 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
✓ Process								G 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	
▶ 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 5–14 BOD Category - Started

					Fast Path/Screen Name Q	E 🛧 - Posting Date Jul 24, 2017 t3010 - 🚥
f EOD10 ×						
End of Day						Print 🗷 Clear 🗙 Exit
✓ Category Details		0 Information	1	×		^
* Process Category Beginning of Day	~	The category has start	ed. Logging Level = \	WARNING	Category Status Fresh Start	
* Job Type GROUP 🗸				ок	Process Date Jul 24, 2017	
Job Code BRN_GRP_1 V					Next Process Date Jul 27, 2017	
Category Start Time					Category End Time	
Polling Interval					Last Refreshed Time 03-Apr-2018 12:07:14	
▲ Process						Q Restart Start Recover
▲ Shell Details						Q
Clear All Filters						
View 🔻 🎬 Export To Excel 😽 📰 Detach						
	×					
Name of Shell	Status Trend I	uration No of Aborts	Throughput R	Total Records Statu	us Expected Completion Time	
Business Transfer Periodic Execution BOD Shell	In Progress 😑 🛛	0:00:00	o 0	0 0%		^
Payments Auto Credit Run BOD Shell	Not Started 😐 🛛	0:00:00	0 0	0 0%		v
View * Image: Export To Excel Image: Export To Excel Name of Shell Business Transfer Periodic Execution B00 Shell	Status Trend I In Progress □ I Not Started □ I	0:00:00	0 0	Records Statu	Expected Completion Time	

Figure 5–15 BOD Category - In Progress

							Fast Path/Screen Name Q	Postir Jul 24	ig Date , 2017 t301)
								Pri	nt 🧷 Clear	🗙 E <u>x</u> it
										^
~							Category Status In Progress			
							Process Date Jul 24, 2017			
							Next Process Date Jul 27, 2017			
14							Category End Time			
							Last Refreshed Time 03-Apr-2018 12:07:26			- 11
								Q Restart	Start R	ecover
										Ģ
~										
Status	Trend	Duration	No of Aborts	Throughput	Total Records	Status	Expected Completion Time			
In Progress	٠	00:00:12		14.5	4	0%	03-Apr-2018 08:07:26			^
Complete	-	00:00:00		0	0	0%				¥
	7:14 Status In Progress	7.14	7:14 X:10 X:10	7:14 Status Trend Duration No of Aborts In Progress © 00:00:12 Image: Control of Contro of Control of Control of Contro of Contro of Control of	7:14 Status Trend Duration No of Aborts Throughput In Progress 00:00:12 14.5 	7:14 Image: Status Status Trend Duration No of Aborts Throughput Trend Duration No of Aborts Throughput Records Im Progress Im Progress	7:14	Category Status in Progess Process Date Jul 24, 2017 Next Process Date Jul 27, 2017 Category End Time Last Refreshed Time 03 Apr-2018 12:07:26 Status Trend Duration No of Status Trend Duration No of In Progess 0 00:0012 14.5 4 05 03Apr-2018 08:07:26	Image: Process Date JM 24, 2017 Category Status in Progress Process Date JM 24, 2017 Next Process Date JM 27, 2017 Category End Time Last Refreshed Time Last Refreshed Time 03 Apr/2018 1207/26 Status Trend Duration Nof Mode: Status Expected Completion Time Status Trend Duration Nof Mode: Status Expected Completion Time Im Progress 000012 14.5 4 Openations 0	Pint & Clear Category Status in Progress Process Date Jul 24, 2017 Next Process Date Jul 27, 2017 7:14 Category End Time Last Refreshed Time 03:Apr-2018 12:07:26 Restart Barr R Status Trend Duration Noof Status Trend Duration Noof Status Expected Completion Time In Progress 0 00:00:12 14.5 4 00 0000

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

Figure 5–16 BOD Category - Completed

								Fast Path/Screen Name Q 🗐 🛧 - Posting Date Jul 24, 2017 t3010 -	
FOD10 ×									
End of Day								Print 🧷 Clear 🗙	Exit
✓ Category Details									^
Process Category Beginning of Day	\sim							Category Status Completed	L
* Job Type GROUP 🗸								Process Date Jul 24, 2017	I.
* Job Code BRN_GRP_1 V								Next Process Date Jul 27, 2017	
Category Start Time 03-Apr-2018 12:07	7:14							Category End Time 03-Apr-2018 12:07:35	
Polling Interval V								Last Refreshed Time 03-Apr-2018 12:08:29	
✓ Process								Q Restart Start Recove	r
▲ Shell Details								c	2
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	
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			v

5.1.7 Housekeeping Category Execution

This category performs the tasks such as 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.

E ORACLE®								Fast Path/Screen Name	o 🗉 1	Postin Jul 24,	g Date 2017 t3010	0
Teodig ×												
End of Day										Prin	ıt 🗷 C <u>l</u> ear	🗙 E <u>x</u> it
✓ Category Details												^
* Process Category	Housekeeping ~							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										Q Restart	Start Re	acover
✓ 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	6			-
Facility Auto Closure Shell	Not Started	Trend	00:00:00									^
Accounting Event History 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 5–18 Housekeeping Category - In Progress

								Fast Path/Screen Name 9	🗏 🛧 - 🖁	osting Date I 24, 2017 t30	10 - 🚥
FOD10 ×											
End of Day										Print Z Clea	ar 🗙 E <u>x</u> it
✓ Category Details											^
Process Category Housekeeping	~							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 12:1	0:03							Category End Time			
Polling Interval								Last Refreshed Time 03-Apr-2018 12:10:16			- 1
▲ Process									Q Re	tart Start I	Recover
✓ 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			
Move driver table data to History table	Complete	Trend	00:00:00		-		0%				^
Accounting Event History Shell	Complete	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 5–19 Housekeeping Category - Completed

							Fast Path/Screen Name Q	Posting Date Jul 24, 2017 t3	010 - E	
f EOD10 ×										
End of Day								Print 🖉 Cl	ear 🗙 E <u>x</u> it	t
✓ Category Details										^
Process Category Housekeeping	~	5					Category Status Completed			l
* Job Type GROUP 🗸							Process Date Jul 24, 2017			H
* Job Code BRN_GRP_1							Next Process Date Jul 27, 2017			l
Category Start Time 03-Apr-2018 12:10:	03						Category End Time 03-Apr-2018 12:22:49			l
Polling Interval							Last Refreshed Time 03-Apr-2018 12:22:49			IJ
▲ Process								Q Restart Start	Recover	
▲ Shell Details									Ģ	1
Clear All Filters										l
View 👻 🏂 Export To Excel 📴 🗟 Detach										
	~									l
Name of Shell	Status Tre	nd Duration	No of Aborts	Throughput	Total Records	Status	Expected Completion Time			
Move driver table data to History table	Complete -	00:00:00		0	0				^	l
▶ Accounting Event History Shell	Complete =	00:00:00		0	0					
http://www.weise.com/20162/com/ofer_fruit/icu/face/waisi				-						1

5.1.8 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.

Figure 5–20 Alert	Generation	Category -	Not Started
-------------------	------------	------------	-------------

								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 5–21 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 V								Next Process Date Jan 4, 2016			
Category Start Time 03-Apr-2018 12:23	51							Category End Time			
Polling Interval											- 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.*

								Fast Path/Screen Name Q	 Posting Date Jul 24, 2017 t3010 -
FOD1 <u>0</u> ×									
End of Day									Print 🧷 Clear 🗙 Exit
✓ Category Details									^
Process Category Alert Generation	~			6				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:	51							Category End Time 03-Apr-2018 12:24:11	
Polling Interval								Last Refreshed Time 03-Apr-2018 12:24:58	
⊿ Process									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	
Alert generation Shell	Complete	-	00:00:20		276	84			
https://mum00cbi.in.oracle.com:30162/com.ofss.fc.ui.view/faces/main.j	px#		-				-		v

5.2 Batch Exception Recovery

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.

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 Batch Exception Recovery.

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 the Admin application.
- Navigate to Batch Exception Recovery page either by entering the Fast Path OPA007 or through the menu Administration > 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 5–22 Exception Details

_	Oracle Banking Platform		+					-			100	-	-		- 1 K			-0-
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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 5–23 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.

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Figure 5–24 Exception record in Worklist application

- 3. Click Claim to claim the task.
- 4. Check the Stack Trace, Batch Data, Incident Number and Comments.
- 5. Perform appropriate actions using application 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.

Note

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

6 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.

6.1 Common Services Day 0 Setup

The Common Services setup includes the following sections.

6.1.1 Core Maintenances

Core Entity Services seek 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)
- Other Financial Institution Details (Fast path: CS07)
- 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)
- 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)
- Transaction Code Maintenance (Fast path: CS44)
- Define Non-Financial Event Transaction Code Mapping (Fast path: CS45)
- Data Security Configuration (Fast path: CS50)

Note

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

6.1.1.1 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.

6.1.2 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)

Note

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

6.1.3 Calendar Maintenances

The calendar services are embedded in the common services 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.

6.2 Accounting Day 0 Setup

The Accounting 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 Accounting maintenances must be completed as a part of bank and branch setup:

- Define System Defined Elements (Fast path: AS013)
- Define Accounting Configuration (Fast path: AS001)
- GAAP Summary (Fast path: AS005)
- Define Bank Parameter (Fast path: AS002)
- Define Branch Parameter (Fast path: AS003)
- Define SDE Range (Fast path: AS012)
- System Defined Elements Class Summary (Fast path: AS011)
- Define Accounting Ledger (Fast path: AS009)
- Define Accounting Ledger (Additional) Details (Fast path: AS010)
- Define Accounting Ledger Group (Fast path: AS008)
- Define Inter Branch Parameters (Fast path: AS006)
- Define Product Group Accounting Entry Template (Fast path: AS014)
- Define Product Accounting Template (Fast path: AS015)
- Define Domain Category Accounting Template (Fast path: AS016)
- Define Product Group Role Mapping (Fast path: AS017)
- Define Product Account Role Mapping (Fast path: AS018)

- Define Domain Role Mapping (Fast path: AS019)
- Define Event Accounting Class (Fast path: AS020)

Note

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

6.3 Product Manufacturing Day 0 Setup

Product Manufacturing 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. Product Manufacturing is complete if the respective mandatory tasks are complete.

Prerequisites

Following are the prerequisites for Product Manufacturing Day 0 Maintenances:

- Asset Classification (AC) Plans Maintenance (Fast path: NP002)
- 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)
- 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 Product Manufacturing Maintenances must be completed as part of bank and branch set up:

- Define Party Bank Policy (Fast path: PI314)
- 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 Credit Policy (Fast path: PM009)
- Define Product Group
- Define Interest Rule (Fast path: PM011)
- Define Loan Product
- Define Insurance Product
- Define Product Interest Linkage (Fast path: PM017)
- Link Dependent Offers (Fast path: PM018)
- Define Loan Offer
- Define Insurance Offer
- Installment Rule Details (Fast path: PM058)
- Loan Schedule Type (Fast path: PM059)
- 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 Question Sets (Fast path: PM046)

Note

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

7 Application Monitoring Using Administration Application

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

7.1 Dynamic Monitoring Service (DMS)

The aim is to monitor different channels involved in performing transactions with OBLS. 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.

7.1.1 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 OBLS system. The configuration can be made either for available services or for new services.

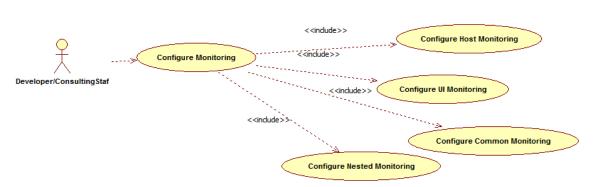
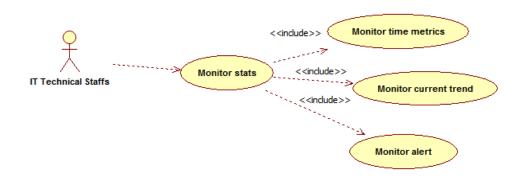


Figure 7–1 Developers

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 7–2 IT Technical Staff



7.1.2 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.

7.1.2.1 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.

Figure 7–3 Monitoring Application Performance	Figure	7–3 Mo	nitoring /	Application	Performance
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The overall page can be subdivided in to 3 sub parts on the basis of information they provide:

7.1.2.1.1 Application Performance Summary

This section gives the information about the different channels of OBLS 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 7–4 Application Performance Summary

∡ Application Performance Summary	Page Refreshed 27-May-2015 11:40:12 AM GMT+05:30	69
	Parach Internet 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

7.1.2.1.2 Log Level

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

Figure 7–5 Log Level

▲ Log Level UI: Host:

7.1.2.1.3 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, click the ALL button.

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 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 7–6 Alert State

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											Testing	nillsecond			tion Count	Amount					
n	Channel	Module	Layer	Transaction	Task Code	Trend	Alert Event Time	Trend Reference Queue	Last Alert User	Average	Max	Min	Total	Success		Debit	Credit	Trend Reference	Nested Status	Alert ECID	Service
1	Branch	ORIGINATION	Spi	Perform Auto Decision	·		27-May-2015 11:39:37	4147, 5047, 3252, 3984,	arun	4,583	6,463	2,880	38,501	8	0			6,457	NA	ffa7b029b81303	CreditDecisionAppl
	Branch	TD	Backing Bean	Mixed Payin _ U	TD002		27-May-2015 10:48:53	881, 938, 2143, 2818, 6818	•	4,155	19,078	881	58,167	14	0			6,816	NA	9dfdeddo72dae	backing.MxedPayi
	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 10:39:18	465, 2720		1,593	2,720	405	3,185	2	0			2,720	NA	9dfdeddo72dae	AlternateAccounts
	Branch	ACCOUNT	Spi	Recommend Bundles	VML000		27-May-2015 11:38:01	424, 901, 399, 1103, 1927	arun	1,528	10,281	308	58,535	37	0			1,927	NA	9dfdeddo72dae	BundleRecommend
	Branch	CONTENT	Spl	Deliver And Save Documents	OR247	٠	27-May-2015 10:38:39	1308, 1359, 1420, 1303,	asavant	1,515	2,339	1,303	10,602	7	2			2,339	NA	9d35654d4414a	OutboundDocumen
	Branch	ORIGINATION	Spi	Submit Create Offer	OR223	٠	27-May-2015 10:40:22	1025, 1271, 1170, 1288,	asavant	1,382	2,008	972	9,637	7	0			2,008	NA	9d35854d4414a	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		27-May-2015 10:38:40	1010, 1070, 926, 886, 1294	asavant	1,002	1,294	828	7,015	7	0			1,294	NA	Pd35054d4414a	LendingOfferApplic
	Branch	ORIGINATION	Spi	Inquire Detailed Application	OR223	٠	27-May-2015 10:39:28	383, 343, 333, 618, 3891	asavant	603	3.891	332	18,270	27	0			3,891	NA	963585464414a	BaseApplicationSe
	Level Host:																				*

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	Application 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 application 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 OBLS)

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

Figure 7–7 Select Task Code

NG PL	ATFORM	Posting Date	e 31-Aug	2016									i	▼ ×	海 奏 、	amrit	•
	Account 👻	Back Office	, CA	SA 🗸 🛛 C	Collection 👻 C	redit Card 👻 I	insurance 👻 LCM	▼ Loa	•	Origination	Party	▼ Pa	ayment And Collection 👻	Term Deposit	▼ Fast	Path	
⊾ [OPA <u>0</u> 01 ×	1												-			
		tion Performanc												×			
Inite	or Applicat	ion Performanc	e	OR22	3												
														-		Print 🗎	🙁 Exit
			1	View 🔻	Det 🖉	ach											
				Channel	Module	Layer	Transaction	Average	Max	Min	Success	Failure	Trend Reference Queue				_
lert	Channel	Module	Laver	Branch	ORIGINATION	Spi	Submit Create Offer	1,362	2,006	972	7	0	1025, 1271, 1170, 1288, 2		n millisecon	ds	
ien	Channel	Wodule	Layer	Branch	ORIGINATION	Spi	Inquire Detailed Application	603	3,891	332	27	0	383, 343, 333, 618, 3891	e Max	Min	Total	Si
î.	Branch	ORIGINATION	Spi	Branch	ORIGINATION	Spi	Fetch Application	319	860	206	25	0	206, 375, 307, 320, 525	3,891	332	16,270	27 *
Â	Branch	SMS	App Se				Approval Data Inquire Offer							1,523	146	16,796	31
1	Branch	PRICING	Spi	Branch	ORIGINATION	Spi	Documents	148	701	39	27	0	63, 145, 169, 306, 701	893	140	1,033	2
1	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
8	Branch	WORKLIST	Spi	Branch	COMMON	Spi	Fetch State	45	256	23	137	0	157. 79. 243. 256. 106	711	59	7,974	36
Ð	Branch	WORKLIST	Spi	•		-1-						-		, 698	19	5,503	35
0	Branch	ORIGINATION	Spi											562	51	1,215	8
2	Branch	ORIGINATION	Spi										OK Can	701	39	3,988	27
9	Branch	ORIGINATION	Spi										OK Can	587	64	1,175	8
À	Branch	ORIGINATION	Spi		Fetch Offer Expiry	For Application	OR223	27-1	lay-2015	10:39:28 1	00, 96, 84, 8	1, 249	asavant 11	2 249	74	1,450	18 -

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 7–8 Selection of Desired Transaction

											🚔 Print	🙁 Ex
Inquire Detailed Application (Spi OR	IGINATION OR2	23)										
	erver Name	Tread	Trend Reference Queue	Last Alert User	Average	Max	Min	Active	Transact	tion Count		
	erver ivame	Trend	Trend Reference Quede	Last Alert User	Average	Max	Min	Threads	Success	Failure		
	ost_Server	•	383, 343, 333, 618, 3891	asavant	603	3,891	332	0	27	0		
▲ Transaction Details					.∡ Tra	nsaction Met	rics					
Chi	annel BRN				^			Average 60	3			^
Task	Code OR223							Max 3,8	91			
Se	rvice BaseApplic	ationServic	eSpi.inquireDetailedApplicatio	on				Min 33	2			
Transa	ction Inquire Deta	iled Applic	ation					Success 27				÷
Alert and Trend Details					.∡ Fai	ure Events						
Last Aler	tUser asavant						Failure Secu	ity Event 0				Â
Alert Even	Time 27-May-20	15 10:39:26	5				2	FA Event 0				
Trond Poforonco (Queue 383 343 3	22 619 2	R91				Failure Databa	ro Event 0				

Figure 7–9 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 7–10 Transaction Metrics

je 603
× 3,891
in 332
is 27
1

Figure 7–11 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 7–12 Failure Events

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

7.2 Batch Performance Monitoring

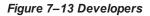
Most of the enterprise applications would require bulk processing of records to perform business operations in real time environments. These business operations include complex processing of large volumes of information that is most efficiently processed with minimal or no user interaction. Such operations 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.

7.2.1 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 OBLS 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 7–14 IT Technical Staff

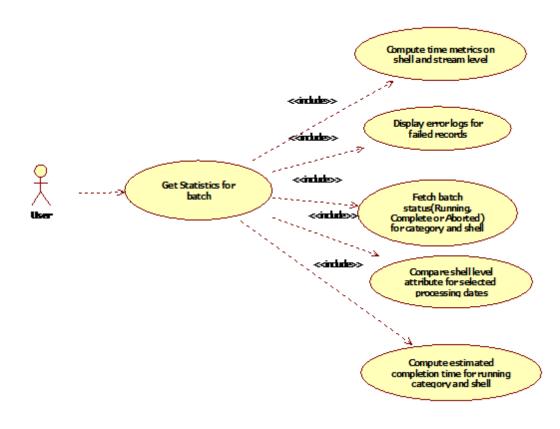
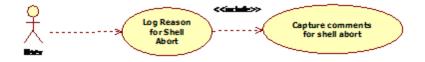


Figure 7–15 IT Technical Staff - Monitor Batch Stats



7.2.2 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.

7.2.2.1 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 7–16 Batch Performance Monitoring

↔ OPA003 ×					
Monitor Batch Performan	ce				
				🚔 Print 🗸 O <u>k</u> 🥔 C	ear 🖪 Exit
s	alect Category Beginning of Day 💌	Job Type		n-2015 10:06:48 AM GMT+05 Auto Refresh	30 🝓
* Pr	ocessing Date 31-Mar-2017 📮 🗊	Job Code	BRN_GRP_1		
			⊿ Adhoc Gene	erate and View	
				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 7–17 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 7–18 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 7–2 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 7–3 Shell Details

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

Figure 7–19 Shell Details

	tor Batch Performance							Site Print 🗸 Og 🔌 Cjear	Ext
⊿ SI	hell Details								8
Clear	r All Filters								
View	🔻 🗟 Export To Excel	8	Detach						
		٠							
	Name of Shell	State	Tre Duration	No of Ab	Throughput	Total Records	Status	Expected Completion Time	
Þ	Insurance BOD Shell		•• 00:00:00		0	0			Î
Þ	Value Date BOD Shell		•• 00:00:00		0	0			
4	Untanking Adjustment Posting		& 00:00:20		29	4			
	Module Cod	AS						Wait Time Pending Time 00.00.00	1
	Number of Stream	1					N	o 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				Fale	ed Records 0	
*	Limits Bod Batch		8 00:00:00		0	0			-
			•						

Figure 7–20 Shell Details - DDA Standing Instructions

JDA 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
) Shell Notes	
+ Add New Note		
No items to display		
▲ DDA Standing Instruction BOD) Shell Stream Details	
Clear All Fitters View View Export To Excel	📰 Detach	

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.



.⊿ SI	nell Details									1	2
Clea View	r All Filters ▼										
		•									
	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	4	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	7–4	Stream	Details
<i>i</i> a <i>bi</i> c		oucum	Detuno

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 7–22 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 View V R Stream Number 1 Loan Acti	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 7–22 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 analyze and know the reason behind the failure of that particular record.

Figure 7–23 Exception Log

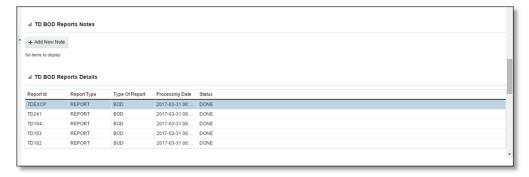
IANKING PLATFORM																
	Account 🔻	Back Office 🔻	CASA 🔻	Collection 🔻	Credit Card 🔻	Insurance 🔻	LCM V	Loan 🔻	Origination v	Party 🔻	Payment And Collection	Tei	rm Deposit 🔻	Fa	st Path	
OPA003 ×																
Agenitor Batch Performance																
													Print	✓ O <u>k</u>	🤣 C <u>l</u> ear	🔀 Exi
fss.fc.framework.batch.exception.Batc fss.fc.framework.batch.process.Recov fss.fc.framework.batch.process.Batchl	verableBatchProce	ss.executeBatch(R	ecoverableBa	atchProcess.java:4	458) at com.ofss.fc.t	framework.batch.p	rocess.Recov	verableBatch	Process.processB				StreamProce	ssHeine	r (ava:49) at	
ofss.fc.batch.mdb.StreamListenerMDB.														ssHelpe	r.java:49) at	
	hActionProcessing	Exception: Exception	ion occured w	hile executing Ac	tion(s). at com.ofss.	fc.domain.account	service.actio	n.executor.A	ctionSetProcessor	processActic	tchProcess.java:918) 6 r nSet(ActionSetProcessor.j	noreCause ava:191)	d by: . 7 moreCaus	ed by:		
ofss.fc.framework.exception.BusinessE ofss.fc.domain.accounting.da.entity.trai	hActionProcessing Exception: The ledg	Exception: Exception ger was not found for untingTransaction	ion occured w or the account ContainerFact	tole LN_INSURA	tion(s). at com.ofss. NCE_PAYABLE ar 3LForAliasOrFactBa	fc.domain.account nd LPLUN. at ased(AccountingTr	service.actio	n.executor.A ntainerFacto	ctionSetProcessor	processActio	nSet(ActionSetProcessor.j	noreCause ava:191)	ed by: . 7 moreCause	ed by:		
ofss.fc.framework.exception.BusinessE ofss.fc.domain.accounting.da.entity.trai ofss.fc.domain.accounting.da.entity.trai ofss.fc.domain.accounting.da.entity.trai ofss.fc.domain.accounting.da.service.A	hActionProcessing exception: The ledg nsactionentry.Acco nsactionentry.Acco nsactionentry.Acco	Exception: Exception for was not found for punting Transaction punting Transaction punting Transaction per to the sector of the sector provide the sector of the sector punting Transaction of the sector of the sector of the sector of the sector of the sector of the sector punting Transaction of the sector of the sector of the sector of the sector of t	ion occured w or the account ContainerFact ContainerFact ContainerFact AccountingCo	hile executing Ac role LN_INSURA tory.fetchDerived0 tory.updateAccount tory.createInstanc intainerFromTemp	tion(s). at com.ofss. ANCE_PAYABLE ar SLForAliasOrFactBa ntingEntryBasedOn eOfAccountingCom plate(AccountingTe	fc.domain.account nd LPLUN. at ased(AccountingTr DerivedOrModule: tainer(AccountingT mplateFetcher.java	service.actio ansactionCo Supplied(Acc fransactionC a:34) at com.o	n.executor.A ntainerFacto countingTran ontainerFacto	ctionSetProcessor ry.java:618) at sactionContainerF ory.java:222) at in.accounting.da.se	processActio actory.java:4	n Set(Action SetProcessor.j 19) at tingEventService.process/	ava:191)	. 7 moreCause	ntingEve	ntService.jav	va:560) a
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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 7–24 Report Based Shells



The status of report based shell during batch run is shown in Figure 7–25:

Figure 7–25 Status of Report Based Shell

Monitor Batch	Performance														
												44 Print	V Ok	🤌 Cjear	B D
												-			-
						U76	100								_
BOD Rep	orts	Com	plete Trend 00	00:00		0%	100								- 11
			ogress Trend 00			0.0	100								_
BOD Epil	logue	In Pr	ogress Trend 00	:00:09											-
4															P.
. ■ BOD Epilo	que Shell Details														
	-														
		Aodule Code EO						Time -			Desides Tes				
		aboune Code EO					140	11110 -			Pending Time -				
	Number	r of Streams -					No of	borts			commentCount 0				
		Start Time 2015-0	0-02 14:38:10				ecords Pro	essed -							
		End Time					Failed R	cords -							
(DOD C-1)-															
M BOD Epilo	gue Shell Notes														
+ Add New Not															
No /tems to display	(
Report Id	Report Type	Type Of Report	Processing Date	Status											
X_ADVICE	REPORT	BOD	2017-04-15 00:	FAILED											
TDEXOP	REPORT	BOD	2017-04-15 00:												
D241	REPORT	BOD	2017-04-15 00:												
D104 D103	REPORT	BOD BOD	2017-04-15 00:	FAILED											
TD103 TD102	REPORT	BOD	2017-04-15 00:												
INS08	REPORT	800	2017-04-15 00:												
. BOD Epilo	gue Error Desc								2						
View 🕶	Detach														
ErrorCode	ProcessResult	BranchCode	BranchGroupCoo	e RunCount	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	4	1010	BRN_GRP_1	1	javax.xml.ws.soap.SOAPFaultE										
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4	4	1010	BRN_GRP_1	1	javax.xml.ws.soap.SOAPFaultE										

Exception Report

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

Figure 7–26 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	0	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 7–27 displays sample report for a particular shell.

Figure 7–27 Sample Report

ank :10 EMERALD BU			BATCH EXC	EPTION REPORT	Job Type : GROUP
-					
ranch : 1010					Job Code: BRN_GRP_1
p. ID :					Report Date : 15-04-201
BOD Epilogue					
Start Time :	2-Jun-2015 9:	MA 80	End Time :	2-Jun-2015 9:13 AM	
Records Skipped :			Duration :	00:05:18	
Number of Aborts :	1		Wait Time :	00:05:08	
Abort Time 2-Jun-2015 9:08 AM		tart Time 015 9:13 AM		Abort Duration 00:05:08	
				00:05:08	
Exception Summary				00:05:08	
Report Name	Report ID	Module Code	Error Code		Error Description
	TD102	TD	Time Of Last Up javax.xml.ws.soa oracle.xdo.webse java.lang.Securit invalid username	date : 2015-06-02 14:38:11.411 p.SOAPFaultException: rvice.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.
Report Name			Time Of Last Upp javax.xml.ws.soa oracle.xdo.websa java.lang.Securit invalid username Time Of Last Upp javax.xml.ws.soa oracle.xdo.websa	Jale : 2015-06-02 14:38:11.411 p.SOAPFaultException: ervice.exception. AccessDeniedException: yException: Failed to log Into BI Publisher: or password. 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

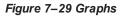
The figure below provides the details of the exception log.

Figure 7–28 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 :802-8182-2552-7227Error 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:432)	
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.BatchFramewor kException: 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 ocm ofss.fc.framework.batch.process.RecoverableBatchProcess.executeBatch(RecoverableB atchProcess.java:432) at com ofss.fc.framework.batch.process.RecoverableBatchProcess.processBatch(RecoverableB atchProcess.java:432)	

7.2.3 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.





7.3 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 7–30 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 7–30 Input Parameters for Batch Handoff

	tor Batch Performan	ce										
										🚔 Print 🗸 O <u>k</u> 🤞	Clear	s e
								P	ofrach Timo 0	03-Jun-2015 11:12:34 AM GMT	+05-20	6
								N	enesii fiille U			
				_						Auto Refresh	Off	-
	Se	elect Category	Analytics Batch Di	·				Job Type	GROUP			
	* Pro	ocessing Date	15-Dec-2016	<u>10</u>				Job Code	BRN_GRP_1	1 Q		
									Adhoc (Generate and View		
										Generate Documer		
											Docum	ient
⊿ B	atch Summary											
	Category Name	Analytics Batch	Data Hand-off			28 May 2015 16:1	1:19		Wait	t Time 02:29:36		
	Status	ABORTED			Estimated Completion Time	03 Jun 2015 11:2	7:34 *		Elapsed	Time 139:01:15		
	# of Aborts	12			Status	DELAYED BY 835	56 mins					
												ଜ
	hell Details											
3	hell Details											
3	r All Fitters	cel 📴	Detach									
Clea	r All Fitters	cel 🛐	n Detach									
Clea	r All Fitters	~	n) Detach	Duration	No of Aborts	Throughput	Total Records	Status	Exp	ected Completion Time		
Clea	r All Filters v Export To Exc Name of Shell Sta	~		Duration 00:00:00	No of Aborts	Throughput	Total Records	Status 0%	Exp4	ected Completion Time		
Clea	r All Filters	∨ ate	Trend		No of Aborts	Throughput	Total Records			ected Completion Time		

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 7–31 Execution Unit

,,	ff Details							
Module Code	ם	Wa	it Time -			Pending Time -		
ہر 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 P	ecords -					
End Time	2015-05-28 10:12:20	Falled R	ecords -					
Analytics Data Hand-O	ff Notes							
Add New Note								
- Add New Note								
	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	ACES 28-May-2015 16:12:27	28-May-2015 16:13:34	Aborts				Records Processed	
ecution Unit KG_LN_CONTRACT_INTERF KG_ACCOUNT_RATE_TIER*	ACES 28-May-2015 16:12:27	28-May-2015 16:13:34 28-May-2015 16:12:41	Aborts 0	00:01:07	ODI_SERVICE_PROVIDER	С	Records Processed	
Kecution Unit KG_LN_CONTRACT_INTERF KG_ACCOUNT_RATE_TIER KG_AS_ACCOUNT_ENTRY	ACES 28-May-2015 16:12:27 8 28-May-2015 16:12:26	28-May-2015 16:13:34 28-May-2015 16:12:41 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 KG_LN_CONTRACT_INTERF KG_ACCOUNT_RATE_TIERS KG_AS_ACCOUNT_ENTRY KG_TD_INTERFACES	FACES 28-May-2015 16:12:27 S 28-May-2015 16:12:26 28-May-2015 16:12:26 28-May-2015 16:12:26	28-May-2015 16:13:34 28-May-2015 16:12:41 28-May-2015 18:05:03 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_INTERF G_ACCOUNT_RATE_TIERS G_AS_ACCOUNT_ENTRY KG_TD_INTERFACES G_PM_INTERFACES	FACES 28-May-2015 16:12:27 S 28-May-2015 16:12:26 28-May-2015 16:12:26 28-May-2015 16:12:23 28-May-2015 16:12:13 28-May-2015 16:12:13	28-May-2015 16:13:34 28-May-2015 16:12:41 28-May-2015 18:05:03 28-May-2015 18:34:17 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 KG_LN_CONTRACT_INTERI KG_AS_ACCOUNT_ENTRY GG_TD_INTERFACES KG_PM_INTERFACES KG_PARTY_FIN_INTERFACES	FACES 28-May-2015 16:12:27 S 28-May-2015 16:12:26 28-May-2015 16:12:26 28-May-2015 16:12:23 28-May-2015 16:12:13 28-May-2015 16:12:13	28-May-2015 16:13:34 28-May-2015 16:12:41 28-May-2015 18:05:03 28-May-2015 18:34:17 28-May-2015 16:12:32 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	Records Processed	
Kecution Unit KG_LN_CONTRACT_INTERR KG_ACCOUNT_RATE_TIERS KG_AS_ACCOUNT_ENTRY KG_TD_INTERFACES KG_PM_INTERFACES KG_PLINTERFACES	FACES 28-May-2015 16:12:27 S 28-May-2015 16:12:26 28-May-2015 16:12:22 28-May-2015 16:12:23 28-May-2015 16:12:13 28-May-2015 16:11:15 ES 28-May-2015 16:11:58	28-May-2015 16:13:34 28-May-2015 16:12:41 28-May-2015 18:05:03 28-May-2015 18:05:03 28-May-2015 18:34:17 28-May-2015 16:12:32 28-May-2015 16:12:32 28-May-2015 16:12:27 28-May-2015 16:12:38	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 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	Records Processed	
Add New Note xecution Unit KG_LN_CONTRACT_INTERF KG_ACCOUNT_RATE_TIERS KG_AS_ACCOUNT_ENTRY KG_TD_INTERFACES KG_PM_INTERFACES KG_OR_INTERFACES KG_MITIOANT_INTERFACES	FACES 28-May-2015 16:12:27 S 28-May-2015 16:12:26 28-May-2015 16:12:22 28-May-2015 16:12:22 28-May-2015 16:12:23 28-May-2015 16:11:53 28-May-2015 16:11:53 28-May-2015 16:11:53 28-May-2015 16:11:53 28-May-2015 16:11:53	28-May-2015 16:13:34 24-May-2015 16:12:41 28-May-2015 18:05:03 28-May-2015 18:05:03 28-May-2015 18:12:32 28-May-2015 16:12:32 34 28-May-2015 16:12:49	Aborts 0 1 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 00:00:29 00:00:43	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.



								8	Print 🗸 🤇	0 <u>k</u> ∲C <u>l</u> ear	8 E
xecution Unit	Start Time	End Time					Records Processed				
		28-May-2015 1	No Of Aborts	Duration 02:21:54	Service Provider ODI_SERVICE	Execution Status	Records Processed				_
		28-May-2015 1		02:21:54	ODI_SERVICE						
					_						- 1
	28-May-2015 1	28-May-2015 1		00:00:29	ODI_SERVICE						
		28-May-2015 1		00:00:43	ODI_SERVICE						
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 7–33:

Figuro	7_33	Failuro	F rror	Description
riyure	1-33	raiiuie	EIIUI	Description

RING PLATFORM Posting Date 21-Fet	-2017 Head Office, AUD, OFSSUser Last Logi	in 25-Jun-2014 09:04:21	AM	Business	Unit OBP Business Unit • 👘 ? 👔	0.0
ount * Back Office * CASA * Co	ollection * Credit Card * LCM * Loan *	Origination * Party *	Payment And Collection *	Term Deposit *	🛛 🕸 👘 👘 FastPath 💼 👘	
OPAGES *						
Ionitor Batch Performance					int voj ∉	Clear I
PKG_OR_INTERFACES	24-Jun-2014 1 24-Jun-2014 1 1		ODI_SERVICE_PROVIDER	*		
PKG_MITIGANT_INTERFACES	24-Jun-2014 1 24-Jun-2014 1 1		ODI_SERVICE_PROVIDER	A		
KG_UN_INTERFACES	24-Jun-2014 1 24-Jun-2014 1 1		ODI_SERVICE_PROVIDER	*		
KG_GL_INTERFACES	24-Jun-2014 1 24-Jun-2014 1 1		ODI_SERVICE_PROVIDER	A		
NG_FACILITY_INTERFACES	24-Jun-2014 1 25-Jun-2014 0 2		ODI_SERVICE_PROVIDER	*		
KG_DDA_INTERFACES	24-Jun-2014 1 25-Jun-2014 0 2		ODUSERVICE_PROVIDER	*		
KG_CUST_INTERFACES	24-Jun-2014 1 24-Jun-2014 1 1	00.00.15	ODI_SERVICE_PROVIDER	A		
	at	Nure IntSTG_TD_MASTER.0 2014-05-24 19:22:01.01				
ErrorCode ProcessResult B	89999 BRN_GRP_1 0 Fa	Int.STG_TD_MASTER. C	Deck Operator logs for further details. DK Canon	etail for inte	erface	
ErrorCode ProcessResult B	89999 BRN_GRP_1 0 Fa	Int.STG_TD_MASTER. C	Deck Operator logs for further details. DK Canon	etail for inte	erface	
ErrorCode ProcessResult B	89999 BRN_GRP_1 0 Fa	Int.STG_TD_MASTER. C	Deck Operator logs for further details. DK Canon	etail for inte	erface	
ErrorCode ProcessResult B	89999 BRN_GRP_1 0 Fa	Int.STG_TD_MASTER. C	Deck Operator logs for further details. DK Canon	etail for inte	erface	
ErrorCode Processiliesuit II 2 2 2 0	89999 BRN_GRP_1 0 Fa	Int.STG_TD_MASTER. C	Deck Operator logs for further details. DK Canon	etail for inte	erface	
ErrorCode Processiliesuit II 2 2 2 0	89999 BRN_GRP_1 0 Fa	Int.STG_TD_MASTER. C	Deck Operator logs for further details. DK Canon	etail for inte	erface	
ErrorCode Processiliesuit II 2 2 2 0	80000 BRN_GRP_1 0 7 at	Int.STG_TD_MASTER. C	Deck Operator logs for further details. DK Canon	etail for inte	erface	
ErrorCode Processiliesuit II 2 2 2 0	80000 BRN_GRP_1 0 7 at	Int.STG_TD_MASTER. C	Check Operator logs for futther details. OK Cancel Error d	etail for inte	erface	
ErrorCode ProcessResult B	80000 BRN_GRP_1 0 7 at	Int.STG_TD_MASTER. C	Check Operator logs for futther details. OK Cancel Error d	etail for inte	erface	

8 Application Monitoring Using EM Plugin

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

8.1 Monitoring Application Using 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 analyze the behavior. The monitoring activities are mainly carried out by IT Technical staff.

8.1.1 Oracle Enterprise Manager (EM)

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

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

We have a view corresponding to every environment containing all the components 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
16	Indicates metric collection error
4	Indicates healthy status

Table 8–1 Notations in EM

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

Figure 8–1 Oracle Enterprise Manager

		с																
Services											Auto	Refresh Off	\sim	Page	Refres	hed Nov	1, 2017 5:04	:31 PM IST 1
E Services Features V																		
Type ALL V Name	%	Q Adva	inced Search															
View 👻 🎽 Create 👻 🗶 Remo	we																	
Name	Туре	Status	s Availabilit	Agr	ervice evel eeme tatus	ent		Incid	ents		System	Key	Compo	nents			Key	Tests
						A F	Perfor	man	Us	age		Status	Incidents			Status	Monitor	
					•	•	3		8	A	•	Status	•	8	▲		Status	Beacon
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	1 1	1
OBP_SMOKEPROD261_HOST_Service	Generic Service	+	Tests	-	-	-		-	-	-	/SMOKEPROD261_HOST_ofss3121179_in_oracle /host_domain	n/a	0	0	0	0	1 1	1
OBP_SMOKEPROD261_Monitoring_Se	Generic Service	+	System	-	-	-		-	-	- 1	OBP_SMOKEPROD261_Monitoring_System	1	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	1 1	1
OBP_SMOKEPROD261_OID_Service	Generic Service	+	Tests	×.		-		-	-	- 1	/SMOKEPROD261_OID_ofss3121155_in_oracle /IDMDomain	· n/a	0	0	0	0	1 1	1
OBP_SMOKEPROD261_View	Aggregate Service	+	Sub Services	-	-			-	-	-	n/a	1 5	0	0	0	0	n/a	0

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

Security Stacks components such as OAAM, OID, OES, outbound components such as Oracle Analytics Publisher (formerly known as Business Intelligence Publisher), 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.

8.1.2 UI

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

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

Figure 8–2 UI Cluster in EM

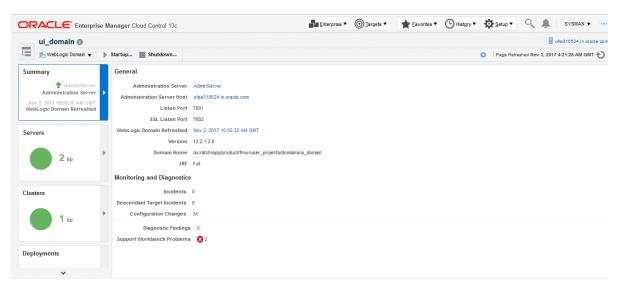
ORACLE Enterprise Manager Cloud Control 13c	Eavorites V 🕑 Jargets V 🌪 Eavorites V 🕑 History V 🕸 Setup V 🔍 🌲 SYSMAN V
↑ obpui_cluster1 0	📱 ofss310524.in.oradie.or
🔚 🛵 WebLogic Cluster 🗸 🕨 Startup 📑 Shutdown ≿ Create Blackout 🕓 End Blackout	Page Refreshed Nov 3, 2017 4:17:26 AM GMT 👌
Server Performance	^ Metric Palette
Past 2 hours	Day 2 hours 15 minutes > Slider the
r ust 2 mouts	View ▼ Search Q
Chart Set Default View View View Vompare V	Hide Metric Palette 🕢 🛵 obpui_cluster1
	Availability
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
10	× abuit counts
2 s	■ Active Sessions ▲ Metrics B obpui_server1
1.5	View v Search Q
¥ 1.0 00 0.5	Certificate Monitoring
4,000	▶ 🛅 Connection Pool Metrics By Server
₩ 2,000	A A Coppui server1i Heap Datasource Metrics By Server EJB Cache Metrics By Server
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 EJB Transaction Metrics By Server EJB Transaction Metrics By Server
150	
SE 50	obpulservert: Bequest Processing Time (ms) Time (ms)
: 30	→ → JMS Server Metrics

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.

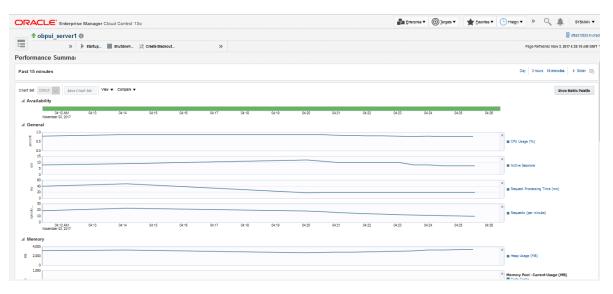
Figure 8–3 WebLogic Domain for UI



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 8–4 Metrics Chart



8.1.3 Host

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

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

Figure 8–5 Host Cluster in EM



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

Figure 8–6 Host Target in EM

	e Manager Cloud Control 13c		Enterprise V	<u> </u>	★ <u>Eavorites</u> ▼	History V	Setu	्र्	SYSMAN V
host_domain 🚯									ofss310519.in.oracle.o
* *	▶ Startup ≫					0	Page Refres	ned Nov 3,	2017 5:59:34 AM GMT 👈
Summary	General								
AdminServer Administration Server	Administration Server	AdminServer							
Nov 2. 2017 10:57:42 AM GMT	Administration Server Host	ofss310519.in.oracle.com							
WebLogic Domain Refreshed	Listen Port	7001							
	SSL Listen Port								
Servers		Nov 2, 2017 10:57:42 AM GMT							
-		12.2.1.2.0							
2 Up		/scratch/app/product/fmw/user_projects/domains/host_domain							
	JRF	Full							
	Monitoring and Diagnostics								
Clusters	Incidents	0							
	Descendant Target Incidents	O 1							
1 Up	Configuration Changes	46							
l up	Diagnostic Findings	٥ 0							
	Support Workbench Problems	s 0							
Deployments									
opioj mento									
1 Down	•								
8 Up									
-									

The following figure displays the metric charts.

Figure 8–7 Metrics Chart

CLE Enterprise Manager Cloud Control 13c	🛃 Enterprise 🔻 🎯 Zargets 👻 🌟 Encrites 👻 🕒 History 👻 Setup 👻 🔍 🌲 SYSMAN
obphost_server1	📕 ofsa310519
📙 Weologic Server 👻 🗼 Startup 📓 Shutdown 🄆 Create Blackout 🚱 End Blackout	Page Refreshed Nov 3, 2017 5:19:57 AM
ormance Summary	
2 hours	Day 2 hours 15 minutes + Silder
Set Defail and Save Churt Set View Compare Variability	Show Metric Peets
vanisaring 0227AM 6735 6330 6336 6340 6348 6356 6555 6460 6466 6416 6416 6420 6425 6430 6435 6440 Nammer (3,2017	04.45 04.50 04.55 05.00 05.06 05.10 05.15
General	
75	× CPU Usage (%)
§ 25 00	
2	×
	Active Sessions
600	
a 400 200	Request Processing Time (ms)
0	
0.05	×
	Requests (per minute)
0,00 00327 AM 03:25 03:30 03:35 03:40 03:45 03:50 03:55 04:00 04:05 04:10 04:15 04:20 04:25 04:30 04:38 04:40 November 03, 2017	34.45 04.50 04.55 05.00 05.05 05.10 05.15
Nemory	
600	×
4000	Heap Usage (MB)
0	
10 mum00bhd.in.oracle.com:7803/em/faces/as/as/serverPerf?Adf-Page-Id=83⌖=/T04_HOST_ofss310519_in_oracle_com_host_domain/ho	domain / ohnhort convert 8/type=weblogic i2 acronver# Karbage Collector - Invocations (per min)

8.1.4 SOA

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.

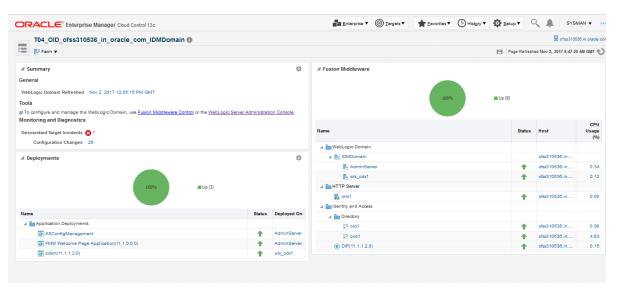
Figure 8–8 Viewing Process List

RACLE' Enterprise Manager Cloud Control 13c	Enterprise V	<u>© 1</u> ª	rgets 🔻	+ Eavorites	• 🕒	Hist <u>o</u> ry ▼	Ö <u>S</u> e	tup 🔻 🔍		SYSMAN -
↑ soa-infra (soa_server1) 0									efss:	3121918.in.or
👬 SOA Infrastructure 🔻 🗼 Startup 📄 Shutdown 🌿 Create Blackout 🕓 End Blackout						(Page Refreshed I	Nov 3, 2017 6	:05:10 AM GM
Deployed Composites Dehydration Store Performance Faults and Rejected Messages Error Hospital										
Composite Table of SOA Composites deployed on the SOA Infra. To trace a instance, select a Composite and dick 'Trace instance' roh Q W Deployment Details Front Composite Front Composite									Com	posite Heat I
Trace Instance Export Composite						SOA Com	ponent Ro	llup		
Composite		Status	Messages (per minute)	Errors (per minute)	Error Rate (%)	System Faults	Business Faults	Recoverable Faults	WS Policy Violations	Instances
				minute)					violations	
et default/com ofss fc.approval.submissionfinancialspi_submittinancialcapture [1.0]		1	0.00	0.00	0.00	0	0	0	violations 0	
k∰ default'com ofas fo approval submissionfinancialispi_submittinancialcapture [1.0] s∰ default'com ofas fo approval.creditdecisionspi_waivecollateralvaluation (1.0)		†	0.00			0	0	0	0	
				0.00	0.00			0	0	
and default/com.ofss.fc.approval.creditdecisionspi_waivecollateralvaluation [1.0]		+	0.00	0.00	0.00	0	0	0	0	0
te default com ofta fa approval creditécsionspi_waiveotilateralvaluation (1.0) Mit default com ofta fa workflow process CapturePartyFinancials (1.0)		1 1	0.00	0.00 0.00 0.00	0.00	0	0	0	000000000000000000000000000000000000000	
Version default/com ofts fcspproval credit/dedisionspi_waivecollateralvaluation (1.0) Version default/com ofts fcs workflow process. CapturePartyFinancials (1.0) Version default/com ofts fcs workflow process. ProcessLoanRollover (1.0) Version default/com ofts fcs workflow process. StructureDepositSolution (1.0)		1 1 1	0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0	0	0	000000000000000000000000000000000000000	
Image: Second		1 1 1 1	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0	0	0	000000000000000000000000000000000000000	
Cefault/com ofts fc.spproval.credit/decisionspi_wairecollateralvaluation (1.0) Cefault/com ofts fc.workflow process.CapturePartyFinancials (1.0) Cefault/com ofts fc.workflow process.Process.CanRollover (1.0) Cefault/com ofts fc.workflow process.ProcessCenditSource(1.0) Cefault/com ofts fc.workflow process.ProcessCenditSource(1.0) Cefault/com ofts fc.workflow process.ProcessCenditCardApplication (1.0) Cefault/com ofts fc.workflow process.ProcessCenditCardApplication (1.0)		1 1 1 1 1 1 1	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0 0 0 0 0 0 0		0 0 0 0 0		

8.1.5 Security Stack (OID and OAM)

OID and OAM are also deployed as WebLogic domain.

Figure 8–9 OID WebLogic Domain



8.1.6 Document Generation Outbound Components (Documaker, Oracle Analytics Publisher, IPM)

These are not part of the 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 the application with Oracle Analytics Publisher (formerly known as Business Intelligence Publisher (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 8–10 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

Oracle Analytics Publisher is also deployed on WebLogic domain.

Figure 8–11 Oracle Analytics Publisher Deployment

RACLE' Enterpri	e Manager Cloud Control 13c	Enterprise V 🔘 Targets V 🛧 Favorites V 🕒 H	list <u>o</u> ry ▼	o Setup ▼	I.	SYSM	AN 👻 🛛
bi_domain 🚯					💂 ofs	312112	3.in.oracle.o
WebLogic Domain 🔻	Startup Shutdown		0	Page Refreshed No	ov 3, 2017 1	2:51:56 F	м бит 📌
ummary	Deployments						
1 Admin Server	View View View View View View View View View						
Administration Server lov 3, 2017 12:47:00 PM GMT WebLogic Domain Refreshed	Name		Status	Deployed On		Incider	
	Application Deployments						
ervers	adminservice(11.1.1)				0	0	0 0
	⊿ 🤮 adminservice(11.1.1)		1	bi_cluster	0	0	0 0
2 up	adminservice(11.1.1)		1	bi_server1	0	0	0 0
	🖌 🏤 analytics				0	0	0 0
	A 👷 analytics		1	bi_cluster	0	0	0 0
lusters	analytics		1	bi_server1	0	0	0 0
	ssyncadminservice(11.1.1)				0	0	0 0
1 Up	▶ ▲ A asyncadminservice(11.1.1)		1	bi_cluster	0	0	0 0
Up Up	asyncadminservice(11.1.1)		1	bi_server1	0	0	
	▲ Mile bi-actions				0	0	0 0
	A Stations		1	bi_cluster	0	0	0 0
eployments	bi-actions		1	bi_server1	0	0	0 0
	▲ ﷺ biadminservlet(11.1.1)				0	0	0 0
44 up	▲ S biadminservlet(11.1.1)		1	bi_cluster	0	0	0 0

8.1.7 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 8–12 EM Monitoring



8.1.8 Outbound OFSAA call

The application 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 8–13 Web Monitoring



8.1.9 Monitoring Views

Monitoring views show the 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.

8.1.9.1 Batch Monitoring

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

The batch performance statistics are the details of the categories run in the application. 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.

DRACLE' Enterprise Manager Cla	ud Control 13c				-	Enterprise •	<u>]</u> <u>T</u> argets ▼	Eavorites V	History	 ▲ 	SYSMAN V
OBP_T04_VIEW										8	mum00bhd.in.or
OBP View 🔻									Page	Refreshed Nov 4, 201	7 11:19:42 AM I
▲ Summary	Application Services	User Interface	Origination User I	nterface Integral	tion Batch Moni	toring					<u>_</u>
Status	EOD	BRN_GRP_1	-								
Current Status T Up		sheliName		duration	noOfAborts	throughput	totalRecords	processedCo	startTime	endTime	
Up Since Nov 2, 2017 6:37 pm IST Availability % 100.0%	ac_action_relog_sh			00:00:00	0	0	0	0	03-nov-2017 10:16	03-nov-2017 10:16	-
realized by a realized by	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	0 03-nov-2017 16:46 03-		
	dd_eod_action3			00:00:00	0	0	0	0	03-nov-2017 16:46	03-nov-2017 16:48	
	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	
	e				-		•		00 00474040		-
	shellName	streamNumber	streamFirst	Row 1 A streamCu	urrentR stre	amLastRow	duration	processedCount	serverName	dbinstanceName	_
	Demand Deposit EC	1	1	194	193	1	15	193	obphost_server1	COBP82	

Figure 8–14 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.

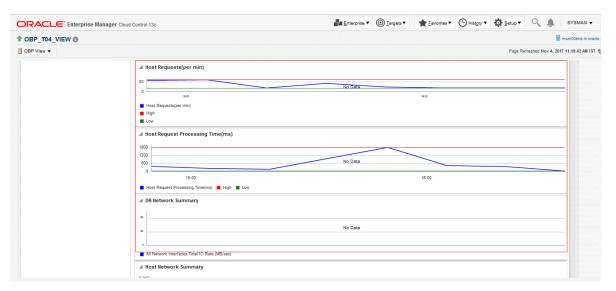
Figure 8–15 Batch Monitoring Status

	anager Cloud Control 13c				Enterprise ▼	<u> <u> </u> </u>	★ Eavorites ▼ 🕒	History 🔻 🔯 Set	ap 🗸 🌲 SYSM
OBP_T04_VIEW									📃 mum00bh
OBP View 🔻								P	age Refreshed Nov 4, 2017 11:19:42
	shellName	streamNumber	streamFirstRow 1	streamCurrentR	streamLastRow	duration	processedCount	serverName	dbinstanceName
	Demand Deposit E	C 1	1	194	193	15	193	obphost_server1	COBPB2
	d DB CPU Utilizat	ion(%)							<u> </u>
	80								
	47				No Data				
	DB CPU Utilization	n(%) 📕 High 🔳 Low							
	⊿ Host CPU Utiliz	ation(%)							
	12								
	0	15.03			NO Data	,	e.00		
	Host CPU Utilizati	on(%)							

Figure 8–16 Batch Configuration

ORACLE' Enterprise Manager Cloud Control 13c	Largets V 🛞 Targets V 🛧 Eavorites V 🖒 History V 🔅 Setup V 🔍 🌲 SYSMAN V
↑ OBP_T04_VIEW ●	📃 mum00bhd.in.oracie.
🗒 OBP View 🔻	Page Refreshed Nov 4, 2017 11:19:42 AM IST 🕇
Old Heap Free After GC(%)	
✓ DB Active Sessions	
	No Data
Active Sessions Using CPU	
Host Open JDBC Connections	
4	
2	No Data
0 15:00	18:00
Open JDBC Connections High Low	
▲ Host Active Threads	
4	No Data
19.02	16.02
Active Threads	
Low	
# DR ThroughPut	

Figure 8–17 WebLogic Service Info



8.1.9.2 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.

8.1.9.2.1 Application Services

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

For cluster details, click the Show Cluster Details link.

Click 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 Clou	ud Control 13c						Enterpris	se • ()	Targets v		• 🕒 His	ory • 🔅	Setup V	् 🌲 🛛	SYSMAN 🔻
OBP_T04_VIEW														🗏 mu	m00bhd.in.ora
OBP View 🔻													Page Refres	ted Nov 4, 2017 1	1:19:42 AM IS
▲ Summary	Application Services	Jser Interface	e Originatio	n User Interfa	ce Integrati	on Batch	Monitoring								
Status	Show Cluster Details														
Current Status 1 Up	Show ordster Details						SERVER								
Up Since Nov 2, 2017 6:37 pm IST	► CLUSTER						SERVER								
Availability % 100.0%															
	Export To Excel														
	Name	Channel	TaskC	AvgTi	MaxTi	MinTime	Succe	Alert	AlertU	Trend	Trend	Transa	Serve	Actual	
	Fetch Purchase Propertie	BRN	OR232	96.7	165	56	10	false		73, 165, 77	UPWARDS	Transaction	obphost_se	LendingAp 📤	
				76				false				Transaction			
	Fetch Credit Restriction L	BRN	WL000	/6	94	58	2	taise		94, 58	DOWNWAR	Transaction	obphost_se	CreditRestri	
	Fetch Credit Restriction L Fetch Associated Party	BRN BRN	WL000	103	189	58 17	2	false		94, 58 189, 17	DOWNWAR			AssociatedF =	
													obphost_se		
	Fetch Associated Party	BRN BRN	WL000	103	189	17	2	false		189, 17		Transaction	obphost_se obphost_se	Associated F	
	Fetch Associated Party Inquire DD Transactions	BRN BRN	WL000 ACCT003	103 434	189 434	17 434	2	false false		189, 17 434	DOWNWAR	Transaction Transaction	obphost_se obphost_se obphost_se	AssociatedF = StatementI	
	Fetch Associated Party Inquire DD Transactions Fetch Purchase Propertie	BRN BRN BRN BRN	WL000 ACCT003 WL000	103 434 58.5	189 434 62	17 434 55	2 1 2	false false false		189, 17 434 62, 55	DOWNWAR	Transaction Transaction Transaction	obphost_se obphost_se obphost_se obphost_se	Associated F = StatementI Submission	
	Fetch Associated Party Inquire DD Transactions Fetch Purchase Propertie Fetch Account Details	BRN BRN BRN BRN	WL000 ACCT003 WL000 ACCT003	103 434 58.5 87	189 434 62 87	17 434 55 87	2 1 2 1	false false false false		189, 17 434 62, 55 87	DOWNWAR	Transaction Transaction Transaction Transaction	obphost_se obphost_se obphost_se obphost_se obphost_se	AssociatedF StatementI Submission DDAInquiry	
	Fetch Associated Party Inquire DD Transactions Fetch Purchase Propertie Fetch Account Details Fetch Account Configura	BRN BRN BRN BRN BRN BRN	WL000 ACCT003 WL000 ACCT003 WL000	103 434 58.5 87 1457	189 434 62 87 1457 92	17 434 55 87 1457	2 1 2 1 1	false false false false false		189, 17 434 62, 55 87 1457 92	DOWNWAR	Transaction Transaction Transaction Transaction Transaction	obphost_se obphost_se obphost_se obphost_se obphost_se obphost_se	Associated F StatementI Submission DDAInquiry OverdraftAc	
	Fetch Associated Party Inquire DD Transactions Fetch Purchase Propertie Fetch Account Details Fetch Account Configura Fetch Related Parties	BRN BRN BRN BRN BRN BRN	WL000 ACCT003 WL000 ACCT003 WL000 WL000	103 434 58.5 87 1457 92	189 434 62 87 1457 92	17 434 55 87 1457 92	2 1 2 1 1 1 1	false false false false false false		189, 17 434 62, 55 87 1457 92	NEUTRAL	Transaction Transaction Transaction Transaction Transaction Transaction	obphost_se obphost_se obphost_se obphost_se obphost_se obphost_se	Associated F StatementI Submission DDAInquiry OverdraftAc PartyDraftA	
	Fetch Associated Party Inquire DD Transactions Fetch Purchase Propertie Fetch Account Details Fetch Account Configura Fetch Related Parties Fetch Settlement Instruct	BRN BRN BRN BRN BRN BRN BRN BRN	WL000 ACCT003 WL000 ACCT003 WL000 WL000 WL000 WL000	103 434 58.5 87 1457 92 305.592592	189 434 62 87 1457 92 1020	17 434 55 87 1457 92 77	2 1 2 1 1 1 1 27	false false false false false false false		189, 17 434 62, 55 87 1457 92 287, 201, 2	NEUTRAL	Transaction Transaction Transaction Transaction Transaction Transaction Transaction	obphost_se obphost_se obphost_se obphost_se obphost_se obphost_se obphost_se	Associated F Statementl Submission DDAInquiry OverdraftAc PartyDraftA Settlement	

Figure 8–18 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 8–19 Application Metrics of Application Services for selected server

RACLE [®] Enterprise Manager Cloud	d Control 13c						Enterprise	• @1	argets 🔻	+ Eavorites	 His 	ery 🔻 🏟	<u>S</u> etup ▼	्र 🌲	SYSMAN V
DBP_T04_VIEW														8	mum00bhd.in.or
BP View 🔻													Page Refres	hed Nov 4, 201	7 11:19:42 AM IS
Summary	Application Services	Jser Interface	Originatio	n User Interfac	e Integrat	tion Batch	Monitoring								-
Status	Show Cluster Details														
Current Status 👚 Up							SERVER								
Up Since Nov 2, 2017 6:37 pm IST	V CLUSTER														
Availability % 100.0%	/T04_HOST_ofss3	10519_in_ora	cle_com_hos	t_domain/hos	_domain/obp	phost_server1									
							,								
	Export To Excel														
	Name	Channel		AvgTi	MaxTi	MinTime	Succe	Alert	AlertU	Trend	Trend	Transa	Serve	Actual	
	Name Fetch Credit Restriction L	BRN	WL000	76	94	58	2	false	AlertU	94, 58	DOWNWAR	Transaction	obphost_se	CreditRestri	•
	Name Fetch Credit Restriction L Fetch Associated Party	BRN BRN	WL000 WL000	76 103	94 189	58 17	2		AlertU		DOWNWAR	Transaction	obphost_se obphost_se	CreditRestri AssociatedF	-
	Name Fetch Credit Restriction L Fetch Associated Party Fetch Title Search Sumn	BRN BRN BRN	WL000 WL000 OR241	76 103 128	94 189 201	58 17 57	2 1 2 3	false false true	AlertU	94, 58 189, 17 126, 57, 20	DOWNWAR DOWNWAR UPWARDS	Transaction	obphost_se obphost_se obphost_se	CreditRestri AssociatedF CollateralT	=
	Name Fetch Credit Restriction L Fetch Associated Party Fetch Title Search Sumn Fetch Product Group Det	BRN BRN BRN BRN	WL000 WL000	76 103	94 189	58 17 57 59	2 1 2 3	false false		94, 58 189, 17 126, 57, 20 85, 86, 59,	DOWNWAR DOWNWAR UPWARDS NEUTRAL	Transaction Transaction	obphost_se obphost_se obphost_se	CreditRestri AssociatedF	=
	Name Fetch Credit Restriction L Fetch Associated Party Fetch Title Search Sumn	BRN BRN BRN BRN	WL000 WL000 OR241	76 103 128 83 56.5103448	94 189 201 103	58 17 57	2 : 2 : 3 : 6 :	false false true		94, 58 189, 17 126, 57, 20	DOWNWAR DOWNWAR UPWARDS NEUTRAL	Transaction Transaction Transaction	obphost_se obphost_se obphost_se obphost_se	CreditRestri AssociatedF CollateralT	=
	Name Fetch Credit Restriction L Fetch Associated Party Fetch Title Search Sumn Fetch Product Group Det	BRN BRN BRN BRN BRN	WL000 WL000 OR241 OR232	76 103 128 83	94 189 201 103	58 17 57 59	2 4 2 5 3 6 145 5	false false true false		94, 58 189, 17 126, 57, 20 85, 86, 59, 21, 16, 16,	DOWNWAR DOWNWAR UPWARDS NEUTRAL	Transaction Transaction Transaction Transaction Transaction	obphost_se obphost_se obphost_se obphost_se obphost_se	CreditRestri AssociatedF CollateralT ProductMar	=
	Name Fetch Credit Restriction L Fetch Associated Party Fetch Title Search Sumn Fetch Product Group Det Fetch All Applicable Doc	BRN BRN BRN BRN BRN	WL000 WL000 OR241 OR232 WL000	76 103 128 83 56.5103448	94 189 201 103 3292	58 17 57 59 15	2 1 2 3 6 5 145 1 3 1	false false true false false		94, 58 189, 17 126, 57, 20 85, 86, 59, 21, 16, 16,	DOWNWAR DOWNWAR UPWARDS NEUTRAL NEUTRAL	Transaction Transaction Transaction Transaction Transaction	obphost_se obphost_se obphost_se obphost_se obphost_se obphost_se	CreditRestri AssociatedF CollateralT ProductMar DocumentIr	=
	Name Fetch Credit Restriction L Fetch Associated Party Fetch Title Search Sumn Fetch Product Group Det Fetch All Applicable Doc Fetch Hierarchy For Cate	BRN BRN BRN BRN BRN BRN	WL000 WL000 OR241 OR232 WL000 WL000	76 103 128 83 58.5103448 168	94 189 201 103 3292 350	58 17 57 59 15 75	2 1 2 1 3 1 6 1 145 1 3 1 1	false false true false false false		94, 58 189, 17 128, 57, 20 85, 86, 59, 21, 16, 16, 360, 79, 75 60	DOWNWAR DOWNWAR UPWARDS NEUTRAL NEUTRAL	Transaction Transaction Transaction Transaction Transaction Transaction	obphost_se obphost_se obphost_se obphost_se obphost_se obphost_se	CreditRestri AssociatedF CollateralT ProductMai DocumentIi LookupHier	Ξ
	Name Fetch Credit Restriction L Fetch Associated Party Fetch Title Search Sumn Fetch Product Group Det Fetch All Applicable Doc Fetch Hierarchy For Cate Fetch By Version	BRN BRN BRN BRN BRN BRN BRN BRN	WL000 WL000 OR241 OR232 WL000 WL000 LCM07	76 103 128 83 56.5103448 168 60	94 189 201 103 3292 350 60 240	58 17 57 59 15 75 60	2 1 2 1 3 1 6 1 145 1 3 1 1 1 25 1	false false true false false false false		94, 58 189, 17 128, 57, 20 85, 86, 59, 21, 18, 18, 350, 79, 75 60 145, 123, 9	DOWNWAR DOWNWAR UPWARDS NEUTRAL NEUTRAL DOWNWAR	Transaction Transaction Transaction Transaction Transaction Transaction Transaction	obphost_se obphost_se obphost_se obphost_se obphost_se obphost_se obphost_se	CreditRestri AssociatedF CollateralT ProductMar Documentli LookupHier CollateralC	-
	Name Fetch Credit Restriction L Fetch Credit Restriction L Fetch Title Search Sumn Fetch Title Search Sumn Fetch Product Group Det Fetch Hardwird For Cate Fetch By Vension Search	BRN BRN BRN BRN BRN BRN BRN BRN BRN	WL000 WL000 OR241 OR232 WL000 WL000 LCM07 PI028	76 103 128 83 56.5103448 168 60 97.52	94 189 201 103 3292 350 60 240 498	58 17 57 59 15 75 60 41	2 1 2 1 3 1 6 1 145 1 3 1 1 1 25 1 7 1	false false true false false false false false		94, 58 189, 17 128, 57, 20 85, 86, 59, 21, 18, 18, 350, 79, 75 60 145, 123, 9	DOWNWAR DOWNWAR UPWARDS NEUTRAL DOWNWAR UPWARDS UPWARDS	Transactior Transactior Transactior Transactior Transactior Transactior Transactior Transactior	obphost_se obphost_se obphost_se obphost_se obphost_se obphost_se obphost_se	CreditRestri AssociatedF CollateralT ProductMar DocumentII LookupHier CollateralC DocumentA	
	Name Fetch Credit Restriction L Fetch Associated Party Fetch Title Search Sumn Fetch Product Group Det Fetch All Applicable Doc Fetch Hierarchy For Cate Fetch By Version Search Fetch Submission Summ	BRN BRN BRN BRN BRN BRN BRN BRN BRN BRN	WL000 WL000 OR241 OR232 WL000 UCM07 PI028 WL000	76 103 128 83 56.5103448 168 60 97.52 337.571428	94 189 201 103 3292 350 60 240 498	58 17 57 59 15 75 60 41 168	2 1 2 3 6 1 145 1 3 1 1 1 25 1 7 1 18 1	false false true false false false false false false		94, 58 189, 17 128, 57, 20 85, 88, 59, 21, 18, 18, 350, 79, 75 60 145, 123, 9 168, 233, 3	DOWNWAR DOWNWAR UPWARDS NEUTRAL DOWNWAR UPWARDS UPWARDS	Transactior Transactior Transactior Transactior Transactior Transactior Transactior Transactior Transactior Transactior	obphost_se obphost_se obphost_se obphost_se obphost_se obphost_se obphost_se obphost_se	CreditRestri AssociatedF CollateralT ProductMai Documentli LookupHier CollateralC DocumentA Submission	

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

Table 8–2 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 application page by which the transaction was triggered. Application 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

8.1.9.2.2 User Interface

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

For cluster details, click the Show Cluster Details link.

Click 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 8–20 Application Metric for all UI servers in cluster

RACLE' Enterprise Manager Cloud	I Control 13c					P Ente	erprise 🔻 (<u>Targets</u>	• 🔺	<u>F</u> avorites ▼	Histor	• 🗘 🖻	etup 🔻 🤇	्र 🌲	SYSMAN ¥
OBP_T04_VIEW ()															mum00bhd.in.ora
OBP View 🔻													Page Refres	hed Nov 4, 201	7 11:19:42 AM IS
▲ Summary	Application Services User Interface C	Drigination U	ser Interface	Integra	ion Bate	sh Monitoring	9								-
Status	Show Cluster Details														
Current Status 🏦 Up						SERVE	R								
Up Since Nov 2, 2017 6:37 pm IST Availability % 100.0%	CLUSTER														
Availability // 100.0 A															
	Export To Excel														
	Export To Excel	Chan	Task	AvgT	MaxT	MinTi	Succ	Alert	Alert	Tren	Tren	Tran	Serv	Actual Se	
		Chan BRN	Task LCM07	AvgT	MaxT	MinTi	Succ	Alert	Alert	Tren 15937	Tren			Actual Se CollateralC	ate
	Name			15937			_	_	Alert	_	Tren	Transactio	obpui_ser		
	Name CollateralCategoryPreferanceMnt.update	BRN	LCM07	15937	15937	15937	1	false	Alert	15937	Tren	Transactio	obpui_ser	CollateralC	
	Name CollateralCategoryPreferanceMnt.update	BRN	LCM07	15937	15937	15937	1	false	Alert	15937	Tren	Transactio	obpui_ser	CollateralC	
	Name CollateralCategoryPreferanceMnt.update	BRN	LCM07	15937	15937	15937	1	false	Alert	15937	Tren	Transactio	obpui_ser	CollateralC	
	Name CollateralCategoryPreferanceMnt.update	BRN	LCM07	15937	15937	15937	1	false	Alert	15937	Tren	Transactio	obpui_ser	CollateralC	
	Name CollateralCategoryPreferanceMnt.update	BRN	LCM07	15937	15937	15937	1	false	Alert	15937	Tren	Transactio	obpui_ser	CollateralC	
	Name CollateralCategoryPreferanceMnt.update	BRN	LCM07	15937	15937	15937	1	false	Alert	15937	Tren	Transactio	obpui_ser	CollateralC	
	Name CollateralCategoryPreferanceMnt.update	BRN	LCM07	15937	15937	15937	1	false	Alert	15937	Tren	Transactio	obpui_ser	CollateralC	
	Name CollateralCategoryPreferanceMnt.update	BRN	LCM07	15937	15937	15937	1	false	Alert	15937	Tren	Transactio	obpui_ser	CollateralC	

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 8–21 Application Metrics of UI components for selected server

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	Export To Excel													
	Name	Chan	Task	AvgT	MaxT	MinTi	Succ	Alert	Alert	Tren	Tren	Tran	Serv	Actual Se
	CollateralCategoryPreferanceMnt.update	BRN	LCM07	15937	15937	15937	1	false		15937		Transact	c obpui_se	CollateralCate
	Config Compare View _UI	BRN	OPA005	7	7	7	1	false		7		Transact	obpui_se	backing.Confi

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

Table 8–3 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 application page by which the transaction was triggered. Application 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

8.1.9.2.3 Origination User Interface

This section provides performance metrics for rendering all multistep train taskflows. 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 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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			TaskC	-					AlertU			Transaction		ApplicantS	
	Applicant StepExit	BRN	OR097	1057.54545	11118	28	11	false	AlertU	33, 69, 28,		Transactior Transactior	obpui_servi	ApplicantS BasicStepH	L
	Applicant StepExit Basic BeforeStepEntry	BRN BRN BRN		1057.54545 3	11118 3	28 3	11	false false	AlertU	33, 69, 28, 3		Transactior Transactior	obpui_servi obpui_servi obpui_servi	ApplicantS BasicStepH	L.
	Applicant StepExit Basic BeforeStepEntry Basic BeforeStepExit	BRN BRN BRN BRN	OR097	1057.54545 3 633	11118 3 633	26 3 633	11 1 1	false false false	AlertU	33, 69, 28, 3 633		Transaction Transaction Transaction Transaction	obpui_servi obpui_servi obpui_servi	ApplicantS BasicStepH BasicStepH FinancialP	E E
	Applicant StepExit Basic BeforeStepEntry Basic BeforeStepExit FinancialProfileTrainFinl	BRN BRN BRN BRN BRN	OR097	1057.54545 3 633 0	11118 3 633 0	28 3 633 0	11 1 1 1	false false false false	AlertU	33, 69, 28, 3 633 0		Transaction Transaction Transaction Transaction Transaction	obpui_servi obpui_servi obpui_servi obpui_servi	ApplicantS BasicSteph BasicSteph FinancialP StructureSc	8 8 9
	Applicant StepExit Basic BeforeStepEntry Basic BeforeStepExit FinancialProfileTrainFinl StructureSolution StepEx	BRN BRN BRN BRN BRN BRN	OR097 OR097	1057.54545 3 633 0 800	11118 3 633 0 800	26 3 633 0 800	11 1 1 1 1	false false false false false	AlertU	33, 69, 28, 3 633 0 800	DOWNWAR	Transaction Transaction Transaction Transaction Transaction	obpui_servi obpui_servi obpui_servi obpui_servi obpui_servi obpui_servi	ApplicantS BasicSteph BasicSteph FinancialP StructureSc	
	Applicant StepExit Basic BeforeStepEntry Basic BeforeStepExit FinancialProfileTrainFinl StructureSolution StepExit Funding BeforeStepExit	BRN BRN BRN BRN BRN BRN	OR097 OR097	1057.54545 3 633 0 800 1211.5	11118 3 633 0 800 2176	26 3 633 0 800 247	11 1 1 1 1 2	false false false false false false	AlertU	33, 69, 28, 3 633 0 800 2176, 247	DOWNWAR	Transactior Transactior Transactior Transactior Transactior Transactior Transactior	obpui_servi obpui_servi obpui_servi obpui_servi obpui_servi obpui_servi	ApplicantS BasicStepH BasicStepH FinancialP StructureSc FundingSte Instructions	
	Applicant StepExit Basic BeforeStepEntry Basic BeforeStepExit FinancialProfileTrainFinl StructureSolution StepExit Funding BeforeStepExit Instructions BeforeStepExit	BRN BRN BRN BRN BRN BRN BRN	OR097 OR097	1057.54545 3 633 0 800 1211.5 6	11118 3 633 0 800 2176 6	28 3 633 0 800 247 6	11 1 1 1 1 2 1	false false false false false false false	AlertU	33, 69, 28, 3 633 0 800 2176, 247 6	DOWNWAR	Transactior Transactior Transactior Transactior Transactior Transactior Transactior	obpui_serw obpui_serw obpui_serw obpui_serw obpui_serw obpui_serw obpui_serw	ApplicantS BasicStepH BasicStepH FinancialP StructureSc FundingSte Instructions FeesStepH	
	Applicant StepExit Basic BeforeStepExit Basic BeforeStepExit FinancialProfileTrainFinl StructureSolution StepExit Instructions BeforeStepExit Fees StepEntry	BRN BRN BRN BRN BRN BRN BRN BRN	OR097 OR097	1057.54545 3 633 0 800 1211.5 6 0	11118 3 633 0 800 2176 6 0	28 3 633 0 800 247 6 0	11 1 1 1 1 2 1 1	false false false false false false false false false	AlertU	33, 69, 28, 3 633 0 800 2176, 247 6 0	DOWNWAR	Transactior Transactior Transactior Transactior Transactior Transactior Transactior Transactior	obpui_servi obpui_servi obpui_servi obpui_servi obpui_servi obpui_servi obpui_servi	ApplicantS BasicStepH BasicStepH FinancialP StructureSo FundingSte FeesStepH FundingSte	
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Figure 8–22 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 8–23 Application Metrics of Origination UI components for selected server

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		Channel	5	MaxTi.		Succe	Alert	AlertU	Trend 33, 69, 28,	Trend DOWNWAR			Actual	
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	Name Applicant StepExit Basic BeforeStepEntry Basic BeforeStepExit FinancialProfileTrainFin StructureSolution StepE: Funding BeforeStepExit	BRN BRN BRN BRN BRN BRN	0R097 633 0R097 0 800 0R097 876	11118 3 833 0 800 2178	28 3 633 0 800 205	11 1 1 1 1 3	false false false false false false false	AlertU	33, 69, 28, 3 633 0 800 2176, 247,	DOWNWAR	Transaction Transaction Transaction Transaction Transaction Transaction	obpui_serw obpui_serw obpui_serw obpui_serw obpui_serw obpui_serw obpui_serw	ApplicantSt BasicStepHi BasicStepHi FinancialPri StructureSo FundingSte	
	Name Applicant StepExit Basic BeforeStepEntry Basic BeforeStepExit FinancialProfileTrainFin StructureSolution StepE: Funding BeforeStepExit	BRN BRN BRN BRN BRN BRN BRN	1057.5 3 OR097 633 OR097 0 800 OR097 876 6	4545 11118 3 633 0 800 2176 6	28 3 633 0 800 205 6	111 1 1 1 1 3 1	false false false false false false false	AlertU	33, 69, 28, 3 633 0 800 2176, 247, 6	DOWNWAR	Transaction Transaction Transaction Transaction Transaction Transaction Transaction	obpui_serw obpui_serw obpui_serw obpui_serw obpui_serw obpui_serw obpui_serw	ApplicantSt BasicStepHi BasicStepHi FinancialPn StructureSo FundingSte InstructionsS	
	Name Applicant StepExit Basic BeforeStepExit FinancialProfileTrainFin StructureSolution StepE: Funding BeforeStepEx Instructions BeforeStepE Fees StepEntry	BRN BRN BRN BRN BRN BRN BRN BRN BRN	1057.6 3 OR097 633 OR097 0 800 OR097 876 6 0	4545 11118 3 633 0 800 2176 6 0	28 3 633 0 800 205 6 0	11 1 1 1 1 3 1 1 1	false false false false false false false false false	AlertU	33, 69, 28, 3 633 0 800 2176, 247, 6 0	DOWNWAR	Transaction Transaction Transaction Transaction Transaction Transaction Transaction Transaction Transaction	obpui_serw obpui_serw obpui_serw obpui_serw obpui_serw obpui_serw obpui_serw obpui_serw obpui_serw	ApplicantSt BasicStepHi BasicStepHi FinancialPn StructureSo FundingSte InstructionsS FeesStepHa	1
	Name Applicant StepExit Basic BeforeStepExit Basic BeforeStepExit Financal#DrofileTrainFin StructureSolution StepE: Funding BeforeStepE Fees StepEntry Funding StepEntry	BRN BRN BRN BRN BRN BRN BRN BRN BRN BRN	1057.6 3 OR097 633 OR097 0 800 OR097 876 6 0 233	4545 11118 3 633 0 800 2176 6 0 438	28 3 633 0 800 205 6 0 0 106	11 1 1 1 1 3 1 1 1 3 3	false false false false false false false false false false	AlertU	33, 69, 28, 3 633 0 800 2176, 247, 6 0 438, 106, 1	DOWNWAR DOWNWAR DOWNWAR	Transaction Transaction Transaction Transaction Transaction Transaction Transaction Transaction Transaction Transaction	obpui_serw obpui_serw obpui_serw obpui_serw obpui_serw obpui_serw obpui_serw obpui_serw obpui_serw obpui_serw	ApplicantSt BasicStepHi BasicStepHi FinancialPn StructureSo FundingSte InstructionsS FeesStepHa FundingSte	

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

Table 8–4 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 application page by which the transaction was triggered. Application 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

8.1.9.2.4 Integration

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

For cluster details, click the Show Cluster Details link.

Click 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.

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✓ Summary	Application Services Us	er Interface	Origination	User Interface	Integration	Batch M	onitoring							A
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Up Since Nov 2, 2017 6:37 pm IST	► 🗀 CLUSTER													
Availability % 100.0%														
	Export To Excel Name	Channel	TaskC	AvgTime	MaxTi	MinTime	Succe	Alert	AlertU	TrendR	TrendE	Transa	Server	Actual
	CommonSecurityManage	BRN		9.11069448	2580	0	6134	false		1, 2, 2, 1, 1	NEUTRAL	Transaction	obphost_se	CommonSe
	CommonSecurityManage	BRN		0	0	0	0					Transaction	obphost_se	CommonSe
	Generate Set Of Docume			5976.85714		4127	14	true	rishika		UPWARDS		obphost_se	B0000000
	Inquire User With Criteria	BRN		41.1428571	143	10	7	false		23, 29, 39,	DOWNWAR	Transaction	obphost_se	IdentityApp

Figure 8–24 Application Metrics of all outbound services called from all host servers in cluster

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 8–25 Application Metrics of all outbound services called from selected server

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Up Since Nov 2, 2017 6:37 pm IST	V CLUSTER														
Availability % 100.0%	/T04_HOST_ofss3	10519_in_o	racle_com_hos	st_domain/host	_domain/obp	host_server1									
	Export To Excel														
	Name	Channel	TaskC	AvgTime	MaxTi	MinTime	Succe	Alert	AlertU	TrendR	TrendE	Transa	Server	Actual	
	CommonSecurityManage	BRN		9.01911132	2580	0	6279	false		1, 1, 0, 30,	DOWNWAR	Transaction	obphost_se	CommonSe	
				0	0	0	0					Transaction	obphost_se	CommonSe	
	CommonSecurityManage	BRN		0											
	CommonSecurityManage Generate Set Of Docume			5976.85714		4127	14	true	rishika	4138, 7190	UPWARDS	Transaction	obphost_se	Documaker	
		BRN			10267	4127 10	14 7	true false	rishika	4138, 7190 23, 29, 39,			obphost_se obphost_se		
	Generate Set Of Docume	BRN		5976.85714	10267				rishika						
	Generate Set Of Docume	BRN		5976.85714	10267				rishika						
	Generate Set Of Docume	BRN		5976.85714	10267				rishika						
	Generate Set Of Docume	BRN		5976.85714	10267				rishika						
	Generate Set Of Docume	BRN		5976.85714	10267				rishika						
	Generate Set Of Docume	BRN		5976.85714	10267				rishika						
	Generate Set Of Docume	BRN		5976.85714	10267				rishika						

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

 Table 8–5 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 application page by which the transaction was triggered. Application 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

9 Configuration Export-Import Operations

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

9.1 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.

9.2 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.

9.3 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.

9.4 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.

9.5 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>
```

9.6 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.

9.7 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.

9.7.1 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.

9.7.2 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 9–1 File Data Store

/scratch/app/product/fmw/user_j	projects/domains/host_domain/bin/setDomainEnv.sh - OCH_HOST_10.180.5.23
🚺 🖩 🙆 🖪 X 🛍 🗙 🎯	∽ ≃ 鍋 鼎 性 🔒 🤣
Le=\${logErrorsloConsolerlag}	-Dfc.io.dir=/scratch/app/product/fmw/obpinstall/obp/Export_Import"

9.7.2.1 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.

9.7.2.2 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.

9.8 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 9.7 Data Store Configuration.

9.8.1 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>
```

9.8.2 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/">rOOABXdWABx
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 9.7 Data Store Configuration.

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\ - 🧶 🖉 🍐 (🌢 🎯 🗳 🕹 🕹	i ?					
*-#46	SQL Output St	atistics					
objects	•	- 43 m				11011	18
Recent objects	select * Iro	n rix_ops_conri	g_data_item where task_co	de='PMU11' and con	rig_ver_no=	'104' and operation_	cype=.rxport.
- Recycle bin	select * from	fly one confi		des!PM011! and con	fig ver nom	11041 and operation (tunes [Tenort]
- Functions	Dereou - rro	a rix_ops_contr		de- morr and con	114cr_10-	ios and operation_	olbe- mboro
- Procedures							
Packages							
Package bodies							
Types							
Type bodies							
Triggers				17 (a)			
- Java sources - 🔁 Jobs	🕂 - 🛞 +	- 🗸 🔻 🗄 i	🗛 🥖 🏠 🗢 🖓	<u>an</u> -			
C Queues	CHANNE	L SERIALIZED E	NTITY CREATION DATE	OPERATION TYPE	STATUS	CONFIG VER NO TAS	
- Queue tables	1 BRN	<blob></blob>	- 04-06-2013 11:16:59 AM	Export	··· success ···	104 PM	011
- Lbraries	2 BRN	<blob></blob>	··· 04-06-2013 11:16:59 AM		··· success ···	104 PM	011
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Figure 9–2 Exported Data

Figure 9–3 Exported Files

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🕌 JaPa 📃 🗋	CT013_ACCT013_428	6/30/2014 6:47 PM	File	1 KB			
🕌 Java 🗔 🖂	03_AL03_182	6/30/2014 5:44 PM	File	575 KB			
🎍 Junit	04_AL04_342	6/30/2014 6:04 PM	File	274 KB			
🎍 kanika 🗌 🗋 🗛	M001_ATM001_254	6/30/2014 5:46 PM	File	5 KB			
Links	M002_ATM002_414	6/30/2014 6:47 PM	File	4 KB			
📕 logs 👘 R	001_BR001_241	6/30/2014 5:46 PM	File	7 KB			
My Documents	M01_BRM01_403	6/30/2014 6:45 PM	File	12 KB			
New folder (2)	L01_CAL01_43	7/16/2014 3:45 PM	File	1 KB			
New_UI_Workspace	L02_CAL02_399	6/30/2014 6:45 PM	File	92 KB			
🗼 newlogs	SA023_CASA023_117	7/10/2014 3:20 PM	File	8 KB			
OCH_Workspace	SA0403_CASA0403_460	7/2/2014 3:13 PM	File	77 KB			
6 off-1.3.13	IM01_CNM01_187	6/30/2014 5:44 PM	File	24 KB			
D CPS	IM03_CNM03_347	6/30/2014 6:05 PM	File	49 KB			
WASP ZAP	IM09_CNM09_21	7/16/2014 11:28 AM	File	7 KB			
Program Files (x86)_OLD	IM11_CNM11_349	6/30/2014 6:06 PM	File	1 KB			
Program FilesOLD	01_CS01_200	6/30/2014 5:45 PM	File	4 KB			
R2BSupport	03_C\$03_466	7/3/2014 12:23 PM	File	64 KB			
§ 123	06_CS06_176	6/30/2014 5:44 PM	File	7 KB			
📕 report	10_CS10_4261	7/3/2014 6:36 PM	File	147 KB			
Ruby Clients	15_CS15_239	6/30/2014 5:46 PM	File	4 KB			
Softwares	16_CS16_364	6/30/2014 6:19 PM	File	27 KB			
📕 Study	17_CS17_178	6/30/2014 5:44 PM	File	5 KB			
Study Material	21_CS21_4262	7/3/2014 7:10 PM	File	99 KB			
🏭 tempdir	22_C\$22_206	6/30/2014 5:45 PM	File	10 KB			
🎍 runarea	23_CS23_4264	7/3/2014 7:42 PM	File	22 KB			
🐇 Expressions 📃 🔿	24_C\$24_202	6/30/2014 5:45 PM	File	39 KB			
📕 lib 🛛 🖓	26_CS26_217	6/30/2014 5:45 PM	File	5 KB			
B OBP_BU	01_CY01_201	6/30/2014 5:45 PM	File	42 KB			
📕 export	02_CY02_235	6/30/2014 5:46 PM	File	8 KB			
SUNCORP	03_CY03_208	6/30/2014 5:45 PM	File	19 KB			

9.9 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.

9.9.1 Importing Single Record

This operation is used to import single record of an configuration.

9.9.1.1 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>
```

9.9.2 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: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</pre>
```

```
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>
```

```
</nsl3:return>
</nsl3:importAllExportImportResponse>
</S:Body>
</S:Envelope>
```

Database entry for imported response will be stored in **flx_ops_config_data_item**.

Figure 9–4 Importing Data Using SOAP UI - Storing Resp
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Recent objects			-					
Recycle bin	select * from fl	x ops config data item whe	re task code='PM01	11' and cos	nfig ver no='104'	and operatio	n type='Import'	
Functions			-					
Procedures								
Packages								
Package bodies								
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Libraries Directories Tables Vews Materialized views Sequences Usen Profiles Reise Snoryma Database links Tablespoces	3 <8LOB> 4 <8LOB> 5 <8LOB> 6 <8LOB> 8 <8LOB> 9 <8LOB> 9 <8LOB> 10 <8LOB> 11 <8LOB> 12 <8LOB> 13 <8LOB> 14 <8LO	 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	SUCCESS SUCCES	- 104 - 104	PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011		8a3 8a3 8a3 8a3 8a3 8a3 8a3 8a3

9.10 Configuration Comparison

This section describes the details of configuration comparison.

9.10.1 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.

9.10.2 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 9–5 Entity Comparison

	iness Configurat	ions							
					🚔 Print 🗸 Ok 🥜 Clear 🛛 Ex				
No data to dtspity/									
				۸V					
	xport To Excel								
Select	Task Code	Task Description	Matching Percentage	Exception					
0	PM008	PM008 - Dorma	Percentage						
•	PLS003	PLS003 - Produ							
	PLS002	PLS002 - Produ							
	PLS001	PLS001 - GAAP							
		PM002 - Define							
	PM002								
	PM002 CNM09	CNM09 - Layou							
		CNM09 - Layou ACCT010 - War							

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 9–6 Entity Comparison Results

				🔮 Print 🗸 Oʻs 🖌 Cjear 🖪	Exi
		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			
0	PM025	PM025 - Link offers for Principal Offset Facility			

Progress bar denoting that the compare operation has finished.

Figure 9–7 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 9–8 Comparison Details

		Account 👻 🛛	Back Office 🔻	CASA 🔻	Collection -	Credit Card 🔻	Insurance 🔻	LCM 🔻	Loan 🔻	Origination -	Party 🔻	Payment And Collection	on 🔻 Term D	eposit 🔻	Fast Path	
OPA00	¹⁵ ×				Compariso	n Details				×						
ompare Ru	siness Configurat	ione														
ompare Du	ameaa connguta													Dalast	Ok 🥜 Clear	
					Compa	rison Result	Keys						8	Phint V	O <u>k</u> 🎸 Clear	
			4		View 🗸	Detach										
			4		Entity Key	То	From									
ò					DormFMD#			FMD#201512								
					1#2016010			16010200000								
View 👻 🛛	Export To Excel				1#2015123			15123000000	0							
Select	Task Code	Task Description	Matching Percentage	Exception												
ø	PM008	PM008 - Dorma	16.67													
2	PLS003	PLS003 - Produ	100													
*																
•	PLS002	PLS002 - Produ	100													
•	PLS001	PLS001 - GAAP	100													
	PM002	PM002 - Define														
		CNM09 - Layou														
	CNM09															
	CNM09 ACCT010	ACCT010 - War														

4. Select any of the key to see the difference of its associated attributes in the two environment.

Figure 9–9 Attributes Difference

	E' Posting Da	ite 15-Mar-2017	Comparis	on Details		×			i •	🔆 🏤 🌴 👻 OFSSUser 💌
L/3		Account V Back Office V CASA	⊿ Comp	arison Result Keys			n 🕶	Party 💌	Payment And Collection 👻	Term Deposit Fast Path
OPA00	5		View -	Detach						
OPA <u>0</u> 0	• ×		Entity Key	То	From					
Compare Bu	siness Configura	tions	ACT#AU	ACT#AU	ACT#AU					
			NT#AU	NT#AU	NT#AU					🔒 Print 🧹 Og 🥔 Clear 💼 Exit
			TAS#AU	TAS#AU	TAS#AU					
		1	QLD#AU	QLD#AU	QLD#AU					
		1	SA#AU	SA#AU	SA#AU					
0			WA#AU	WA#AU	WA#AU					
View -	Export To Excel									
Select	Task Code	Task Description								
	COR17	COR17 - State Code Summary 2			Field Key I	ist				
	PM008	PM008 - Dormancy Rule Configuration	d Comp	arison Results						
	PLS003	PLS003 - Product Ledger - Branch Parameters	View -	Detach						
0	PLS002	PLS002 - Product Ledger - Bank Parameters	Label Valu	е То	From	Field				
	PLS001	PLS001 - GAAP Code Definition	State Nam	e Australian Capital	Australian Capital Territ					
0	PM002	PM002 - Define CASA Bank Policy								
	CNM09	CNM09 - Layout Resolution Policy								
0	ACCT010	ACCT010 - Warning Indicators								
	PM034	PM034 - Product Group Role Mapping								
	PM037	PM037 - Domain Category Accounting Entry Template								
	PM032	PM032 - Product Group Accounting Entry Template								
0	PM025	PM025 - Link offers for Principal Offset Facility								

9.11 Application Configuration

This section describes the application configuration details.

9.11.1 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.

10 Batch Shells in OBLS

This chapter describes the batch shells used in OBLS and their execution sequence.

10.1 Batch Shells Description

The following table lists the batch shells along with their detailed description.

Table 10–1 Shell Description

Sr. No.	Process Category	Category Description	Shell	Shell Description	Module Code	Detailed 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	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.
6	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.
7	1	End of Day	pc_blr_remit_ shell	Biller Remittance Shell	PC	This shell does the consolidation biller amount settlement in EOD, for example, selected settlement mode of biller like CASA or GL during biller setup.
8	1	End of Day	pc_value_	Value Date	PC	This shell moves the funds from unclear to clear balance, where float of

Sr. No.	Process Category	Category Description	Shell	Shell Description	Module Code	Detailed Description
			date_eod_sh	EOD Shell		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.
9	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)
10	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.
11	1	End of Day	py_regcc_ sch_gen	Reg CC Schedule Generation EOD Shell	ΡY	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)
12	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)
13	1	End of Day	je_batch_ hist_shell	Journal Entry Batch History EOD Shell	JE	 This shell performs the following activities: Moves the Journal Entries (Single and Multi) details into history. Flushes the Batch codes table (Single and Multi). Drops the Sequences related to the above batch codes which are used to generate the Journal Entry Reference numbers.
14	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

Sr. No.	Process Category	Category Description	Shell	Shell Description	Module Code	Detailed Description
15	1	End of Day	pc_report_ shell	PC Reports	PC	This shell generates Payments and Clearing Reports.
16	1	End of Day	py_cust_val_ date_eod	Customer Value Date EOD Shell	ΡY	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.
17	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.
18	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.
19	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.
20	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.
21	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
22	1	End of Day	In_split_eod_ shell	Split Loan Account Opening EOD Shell	LN	Split Loan Account Opening and Disbursement request execution
			In_actn_eod_	Loans Action		This shell performs the following actions:
23	1	End of Day	shell	Due EOD Shell	LN	Interest ChargingInterest Compounding

Sr. No.	Process Category	Category Description	Shell	Shell Description	Module Code	Detailed Description
						 Interest Cap
						Fee Cap
						 Customer Initiated Rollover
						 Auto Disbursement
						 Repayment Review (Apply and Generate) also called as periodic reschedule
24	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.
25	1	End of Day	In_report_ shell	Loan Reports	LN	Loan Related Reports
26	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.
27	1	End of Day	lm_market_ reval	Market Revaluation Shell	LM	This shell revaluates the Collaterals as per current market values.
28	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.
29	1	End of Day	lm_batch_p_ eod_shell	LCM EOD Pre Processor	LM	This shell is used to form a group of lcm eod actions for processing in multi streams.
30	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

Sr. No.	Process Category	Category Description	Shell	Shell Description	Module Code	Detailed Description
						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 to the another 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 can be an increase/decrease to the existing sanctioned amount. The amount stored 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. 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.
31	1	End of Day	In_intrst_ comp_shell	Loan Interest Computation EOD Shell	LN	This shell does Interest Computation (balance change).
32	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.
33	1	End of Day	ac_bundle_ exp_poller	Bundle Expiry Poller Shell	BN	This shell maintains Track Bundle expiry.
34	1	End of Day	np_eod_acion	Asset Classification	NP	This shell processes all EOD actions of Asset Classification module using action framework.

Sr. No.	Process Category	Category Description	Shell	Shell Description	Module Code	Detailed Description
				EOD action		
35	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 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.
36	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 details classification code and actual classification code and actual 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.
37	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

Sr. No.	Process Category	Category Description	Shell	Shell Description	Module Code	Detailed Description
						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 code of all accounts under the facility and the same is propagated as the expected code of all accounts under the facility, and the process continues with the next facility. The same is propagated as the expected classification code of all accounts under the facility, and the worst classification code of the facility. The same is propagated as the expected 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.
38	1	End of Day	eod_report_ shell	EOD Reports	AL	This shell generates reports in EOD.
39	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.
40	1	End of Day	eod_epilogue	EOD Epilogue	EO	This shell waits for all the reports to be generated and changes the Process date.
41	2	Beginning of Day	ac_bod_bn_ fee_shell	BOD Bundle Fee Shell	BN	This shell processes the subscription and maintenance fees.
42	2	Beginning of Day	as_untank_ adjustment	Untanking Adjustment Posting	AS	The shell is used to process Untanking Adjustment entries during the batch.
43	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.
44	2	Beginning of Day	lz_pi_child_ exmpt_sh	Exemption code BOD	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

Sr. No.	Process Category	Category Description	Shell	Shell Description	Module Code	Detailed Description
				shell		turns 17 years. (Australia localization specific shell)
45	2	Beginning of Day	pc_business_ transfr	Business Transfer Periodic Execution BOD Shell	PC	Business Transfer SI Execution Shell
46	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.
47	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)
48	2	Beginning of Day	py_auto_ credit_bod	Payments Auto Credit Run BOD Shell	PY	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.
49	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.
50	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)
51	2	Beginning of Day	as_untank_ bod_shell	Accounting Un-tanking	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

Sr. No.	Process Category	Category Description	Shell	Shell Description	Module Code	Detailed Description
				Shell		shell processes accounting of the tanked records.
52	2	Beginning of Day	lm_batch_p_ bod_shell	LCM BOD Pre Processor	LM	This shell is used to form a group of lcm bod actions for processing in multi streams.
53	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 inward and outward clearing, future dated outgoing payments etc
54	2	Beginning of Day	lm_batch_ bod_shell	Limits Bod Batch	LM	Same as Limits And Collaterals Batch shell in EOD Category
55	2	Beginning of Day	In_post_ trans_bod	Loan Transaction BOD shell	LN	This shell processes all the transactions done after cutoff is run.
56	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.
57	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.
58	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
59	2	Beginning of Day	In_actn_bod_ shell	Loan Action due BOD shell	LN	This shell does the following actions: Interest Charging Interest Compounding Interest Cap Fee Cap Customer Initiated Rollover

Sr. No.	Process Category	Category Description	Shell	Shell Description	Module Code	Detailed Description
						 Auto Disbursement - Guided by holiday processing logic
						 Repayment Review (Apply and Generate) also called as periodic reschedule - Guided by holiday processing logic
						 Backdated PPF - These transactions will get processed as a part of host EOD.
						 Back dated installment - These transactions will get processed as a part of host EOD.
60	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.
61	2	Beginning of Day	bod_report_ shell	BOD Reports	AL	This shell generates reports.
62	2	Beginning of Day	bod_epilogue	BOD Epilogue	EO	This shell waits for all the reports to be generated.
63	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.)
64	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.
65	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.
66	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.
67	13	FSDF EOD 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.

Sr. No.	Process Category	Category Description	Shell	Shell Description	Module Code	Detailed Description
68	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.
69	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.
70	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.
71	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.
72	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.
73	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.
74	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.
						This shell does following activities:
75	16	Internal System EOD	interest_eod_ action	Interest Shell	IN	 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. Interest Capitalization: Based on holiday processing logic. Interest Compounding: Based on holiday processing parameter.
						 Related tax events for any of the above functions, as configured, based on holiday processing parameter.

Sr. No.	Process Category	Category Description	Shell	Shell Description	Module Code	Detailed Description
76	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.
77	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.
	16					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:
		Internal	aa batab	Accounting batch		 Ensure that all the accounting events raised for the day are processed.
78		System EOD	as_batch_ verify	Verification Shell	AS	 Ensure that all the accounting entries generated for the day are updated for the ledger and system account balances.
						 Ensure that the accounting entries raised for the day are balanced. The balancing has to be branch wise and not group wise.
						 Ensure that period balances for ledger and system account are balanced.
79	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.)
80	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.
81	16	Internal System EOD	as_verify_ prereval	Accounting batch Pre Revaluatiom Verify Shell	AS	 Some of the checks that are done are listed below: Ensure that all the accounting events raised for the day are processed. Ensure that all the accounting entries generated for the day are updated for the ledger and system account balances.

Sr. No.	Process Category	Category Description	Shell	Shell Description	Module Code	Detailed Description
						 Ensure that the accounting entries raised for the day are balanced. The balancing has to be branch wise and not group wise.
						 Ensure that period balances for ledger and system account are balanced.
82	16	Internal System EOD	pl_reval_eod_ shell	Revaluation Shell	AS	Ledgers whose balances are maintained in the Foreign Currency will be revalued (if 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.
83	16	Internal System EOD	as_verify_ prefinclsr	Accounting batch Pre Fin Closure Verify Shell	AS	Same as per accounting verification.
84	16	Internal System EOD	pl_fin_period_ shell	Balance FIN Period Creation Shell	AS	It creates the system period FIN whenever applicable.
85	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.
86	16	Internal System EOD	as_verify_ prerptglns	Accounting batch Pre Reporting Lines Verify Shell	AS	Same as per accounting verification
87	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.
88	16	Internal System EOD	as_verify_ prearchiv	Accounting batch Pre Archive Verify Shell	AS	There are certain checks and validations that are done as part of the Accounting in 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:

Sr. No.	Process Category	Category Description	Shell	Shell Description	Module Code	Detailed Description
						 Ensure that all the accounting events raised for the day are processed.
						 Ensure that all the accounting entries generated for the day are updated for the ledger and system account balances.
						 Ensure that the accounting entries raised for the day are balanced. The balancing has to be branch wise and not group wise.
						 Ensure that period balances for ledger and system account are balanced.
						All the checks are with respect to each account branch and not branch group.
89	16	Internal System EOD	pl_intr_eod_ rep_shel	PL Internal EOD Report Shell	PL	This shell generates Ledger related reports in EOD.
90	16	Internal System EOD	pl_balance_ history	Periodic PL balance history	PL	This shell archives GL Period balances.
91	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.
92	16	Internal System EOD	int_eod_ report_shell	Internal EOD Reports	AL	This shell generates Reports during Internal system EOD.
93	16	Internal System EOD	int_eod_ epilogue	Int EOD Epilogue	EO	This shell waits for all the reports to be generated.
94	18	Clearing	pc_rej_ reproc_shell	Scan Reject Reprocess Shell	PC	This shell reprocesses Reject Items.
95	18	Clearing	pc_scn_pas_ plr_shell	Scan Pass Poller Shell	PC	Honored Items Poller
96	18	Clearing	pc_oc_ return_shell	Outgoing Clearing Return Shell	PC	OC Return Shell

Sr. No.	Process Category	Category Description	Shell	Shell Description	Module Code	Detailed Description
97	17	Sales Offer Handoff	pm_sales_ offer_hoff	Sales Offer Handoff Shell	РМ	
98	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.
99	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.
100	19	CMD Hand- off	cmd_ handoff_shell	CMD Hand-Off Shell	DI	This shell initiates ODI task for Datamart population for Credit Monitor Dashboard.
101	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.
102	23	Global Float	pc_glb_flt_ ext_shell	Global Float Extension Shell	PC	Global Float Extension
103	30	Scan Payment Queue Process	pc_scn_rej_ plr_shell	Scan Reject Poller Shell	PC	Rejected Items Poller
104	63	Business Transfer	pc_b_colln_ cdt_shell	Business Collection Credit Shell	PC	Business Collection Credit
105	63	Business Transfer	pc_b_pymt_ dbt_shell	Business Payment Debit Shell	PC	Business Payment Debit
106	63	Business Transfer	pc_b_colln_ dbt_shell	Business Collection Debit Shell	PC	Business Collection Debit
107	63	Business Transfer	pc_b_pymt_ cdt_shell	Business Payment Credit Shell	PC	Business Payment Credit

Sr. No.	Process Category	Category Description	Shell	Shell Description	Module Code	Detailed Description
108	69	mdm_Publish	mdm publish_shell	mdm Publish	IN	 This shell publishes to OCH following status updates taken place during EOD: Account closures during batch execution Account opening during batch execution KYC updates during batch execution
109	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.
110	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.
111	102	Analytics Result Upload	rslt_handoff_ shell	Analytics Result Upload Shell	DI	This shell initiates OFSAA LLFP result area data upload scenario execution.
112	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.
113	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.
114	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.
115	117	Housekeeping	ac_stl_alrt_ scdl	Procssing of Frequency based Alerts	DD	This shell executes the recurring alerts.
116	117	Housekeeping	acct_benefit_ shell	Account Benefit Shell	AC	This shell calculates amount benefited due to offset account.
117	117	Housekeeping	as_hist_log_ eod_shel	Accounting Transaction History Log	AS	This shell archives accounting events and accounting entries into history table.

Sr. No.	Process Category	Category Description	Shell	Shell Description	Module Code	Detailed Description
				Shell		
118	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.
119	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.
120	117	Housekeeping	da_event_h_ eod_shel	Accounting Event History Shell	AS	This shell archives accounting events and accounting entries into history table.
121	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.
122	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.
123	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.
124	117	Housekeeping	In_adv_alert_ shell	Loan Advance Alert Action BOD Shell	LN	This shell sends alerts based on Lead and Lag Days defined at product levels.
125	117	Housekeeping	move_drv_ table_data	Move driver table data to History table	DD	This shell moves Driver table data into History Table.
126	117	Housekeeping	np_prvsn_ updt_shell	Account Level	NP	This shell is used for Account Level Provision Update.

Sr. No.	Process Category	Category Description	Shell	Shell Description	Module Code	Detailed Description
				Provision Update		
127	117	Housekeeping	or_sub_exp_ shell	Submission EOD Expiry Shell	OR	This shell expires the submission IDs which have breached the defined submission period.
128	117	Housekeeping	pi_bod_shell	Party BOD Shell	PI This shell is used to process the Party Due Diligence Expiry if it falls or day. This shell also updates the future party address getting active on the updates such addresses to be current and marks the previous current a past.	
129	117	Housekeeping	ln_stmt_gen_ shell	Loan Statement Generation EOD Shell	LN This shell generates all the loan account statements.	
130	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.
131	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.
132	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.
133	127	Human Task Action	wf_task_ resume_shell	Human Task Resume Shell	WF	
134	247	Reprice	pr_acrl_ batch_shell	Price Accrual Batch Shell	PR	This shell identifies accounts and performs fee accrual.
135	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.
136	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.

Sr. No.	Process Category	Category Description	Shell	Shell Description	Module Code	Detailed Description
137	1	End of Day	In_pledge_ acct_shell	Loan Pledged Account Action Shell	LN	In the batch run, accounts will be identified as Pledged based on the Rule setup. Accounts with status Closed, Marked for Closure, Matured, Written Off/Charged Off, Suspended will not be included when the rule is run for identification of accounts which can be marked as pledged loans.

10.2 Batch Shells Execution Sequence

The following table presents the execution sequence of the batch shells.

Table 10–2 Shell Execution Sequence

Sr. No.	Process Category	Category Description	Category Significance	Shell Execution Sequence	Shell	hell Shell Description		Required Shells	Required Shell Description
1	100	Health Check	Optional	1	health_ chk_shell				
2	100	Health Check	Optional	1	excep_ pending_ shell Batch Exceptions Pending F ¹		FW		
3	0	Reports Health Check	Optional	1	reports_ chk_shell	Reports Health Check			
4	3	Cut Off	Mandatory	1	co_cutoff_ prologue	Cutoff Prologue	со		
5	1	End of Day	Mandatory	1	ac_bundle_ fee_shell	Bundle Fee Shell	BN		
6	1	End of Day	Mandatory	1	bundle_ report_shell	Bundle Reports	BN		
8	1	End of Day	Mandatory	1	pr_price_ changes_ eod				
9	1	End of Day	Mandatory	5	pr_reprice_	Reprice Action shell for	PR	pr_price_	Price change action log

Sr. No.	Process Category	Category Description	Category Significance	Shell Execution Sequence	Shell	Shell Description		Required Shells	Required Shell Description
					acn_eod	account opened today		changes_ eod	shell for account opened today
10	1	End of Day	Mandatory	5	ac_bundle_ exp_poller	Bundle Expiry Poller Shell	BN	ac_ bundle_ fee_shell pr_reprice_ acn_eod	Bundle Fee Shell Reprice Action shell for account opened today
11	1	End of Day	Mandatory	7	eod_ report_shell	EOD Reports	AL	bundle_ report_ shell ac_ bundle_ fee_shell or_sub_ exp_shell pr_reprice_ acn_eod	Bundle Reports Bundle Fee Shell Submission Expiry shell Reprice Action shell for account opened today
12	1	End of Day	Mandatory	8	eod_ epilogue	EOD Epilogue	EO	eod_ report_ shell	EOD Reports
13	16	Internal System EOD	Mandatory	1	pi_eod_ shell	Party EOD Shell	PI		
14	2	Beginning of Day	Mandatory	1	ac_bod_ bn_fee_ shell	BOD Bundle Fee Shell	BN		
15	117	Housekeeping	Mandatory	1	lm_auto_ closur_ shell	Facility Auto Closure Shell	LM		
16	117	Housekeeping	Mandatory	1	pi_bod_ shell	Party BOD Shell	PI		

Sr. No.	Process Category	Category Description	Category Significance	Shell Execution Sequence	Shell	Shell Shell Description		Required Shells	Required Shell Description
17	117	Housekeeping	Mandatory	1	ac_pop_ domain_ind	Domain index tables populate shell	AC		
18	120	Alert Generation	Optional	1	ep_ generation_ shell	Alert generation Shell	DI		
19	247	Reprice	Default	1	pr_price_ changes	Price change log online shell	PR		
20	247	Reprice	Default	2	pr_reprice_ action	Reprice action online Shell	PR	pr_price_ changes	Price change log online shell
21	69	mdm_Publish	Optional	1	mdm_ publish_ shell	mdm Publish	IN		

11 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. OBLS drives ILM at the Oracle database level using database options and features to manage and move data as it evolves during its lifetime.

11.1 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 11–1 Values for ILM Configuration

11.2 Installation

This section explains the process of ILM installation.

11.2.1 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 (OBLS Tables Worksheet)
- ILM Column (OBLS Tables Worksheet)
- Partition Range Type (Lifecycle Pattern Worksheet)

Parameters required for populating ADO policy creation script are as follows:

- Table Name (OBLS Tables Worksheet)
- Lifecycle Definition (OBLS 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 OBLS database creation.

11.2.2 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;

11.2.3 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 OBLS Database.
- 2. Run the following SQL statement:

DECLARE PI TABLE NAME VARCHAR2(200);

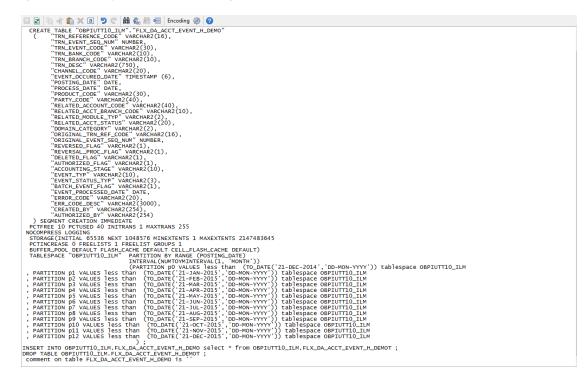
```
PARTITION COLUMN NAME VARCHAR2(200);
SRC SCHEMA NAME VARCHAR2(200);
PARTITION INTERVAL NUMBER;
PARTITION TYPE VARCHAR2(200);
DIRECTORY NAME VARCHAR2(200);
DURATION NUMBER;
DURATION TYPE VARCHAR2(200);
BEGIN
PI TABLE NAME := <ILM qualified table name>;
PARTITION COLUMN NAME := <ILM column name>;
SRC 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 11–2 Utility Table Creation Script



11.2.4 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 OBLS database as follows:
 - a. Connect to OBLS Database.
 - b. Run partition creation script:

@ <Tablename>par.sql

For example:

@ /scratch/app/ILM_PARTITION_DIR/FLX_DA_ACCT_EVENT_H_DEMOpar.sql

11.2.5 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 OBLS Database.
- 2. Run ADO policy creation script:
 - @ <Tablename>ado.sql

For example:

@ /scratch/app/ILM_ADO_DIR/FLX_DA_ACCT_EVENT_H_DEMOado.sql

11.2.6 Verify Registered ADO Policies

The created ADO policies can be verified through Oracle Enterprise Manager.

Figure 11–3 Verify ADO Policies

Enterprise 🔻 🧿	Targets 👻 🏫 Ea	vorites 🔻 🥝 Hist <u>o</u> ry 🔻					Search Target Name	
NCONT65A	6						Logged in as sys 📋	mum00aro.in.oracle.
Oracle Database	 Performance 	Availability 👻 Security	 Schema < Administratio 	•			Page Refreshed Dec 22, 20	15 5:25:10 AM GMT
formation Li	fecycle Manag	ement						
Policy Summ		Policy Execution Sum	mary for Last 24 Hours	Top Tablespaces By P	nlicy Action			
Policies		Jobs		1				
Compression	1 0	Completed 0						
Storage		Failed 0						
Objects		Active 0						
	s Enabled 12	Policies				Compression		
	s Enabled 12 Disabled 0	Completed 0				Storage Tiering		
	Disabled U					Both None		
Evaluations Failed 0				None				
Completed	0	Objects						
	Evaluate	Compressed 0			100.0%			
		Moved 0						
Automatic Dat	a Optimization	Policies						
60 Policy Details	s 6d Execution H	istory 🖹 Execute Polic	y					
Name	Action Type	Scope	Objects S	atus				
P163	STORAGE	SEGMENT		abled				
P167	STORAGE	SEGMENT		abled				
P 169	STORAGE	SEGMENT		abled				
P162	STORAGE	SEGMENT		abled				
P 166	STORAGE	SEGMENT		abled				
P172	STORAGE	SEGMENT		abled				
P165	STORAGE	SEGMENT		abled				
P170 P161	STORAGE	SEGMENT		abled				
	STORAGE	SEGMENT		abled				
				abled				
P168 P164	STORAGE	SEGMENT						

11.3 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;
/
```

12 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.

12.1 Configuration

The following is the classification of information related to OBLS. 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 12–1 TDE Configuration

All tables in OBLS are classified based on above classification and columns of those tables are marked based on sensitivity.

12.2 Installation

This section explains the installation process.

12.2.1 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

12.2.2 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;

12.2.3 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/)
```

12.2.4 Run Created Alter Script

- Get TDE_Encryption.sql script from obpencryption/generatedScript/tde.
- Log in to database.
- Run TDE_Encryption.sql.

13 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).

13.1 Configuration

The following is the classification of information related to OBLS. 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 13–1 TDE Configuration

All tables in OBLS are classified based on above classification and columns of these tables are marked based on sensitivity.

13.2 Installation

This section explains the installation process.

13.2.1 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

13.2.2 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.

13.2.3 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.

14 Additional Recommendations

This chapter provides specific recommendations to be considered for implementation:

14.1 SOA Related

This section mentions certain recommendations for setting up the properties on SOA server.

14.1.1 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.
- It is recommended to keep this default job enabled in the production.

Figure 14–1 Auto Purge

ORACLE Enterprise Manager Fusion Middleware Control 12c	WebLogic Domain * weblogic * ····
te 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 older data associated with flow instances, adapter reports, and fault alets. It is strongly recommended to enable Auto Purge to ensure an optimal performance of your runtime environment.	I
Auto Purge Job SOA Flow Purge Job 1 🗸 Enabled 🔽 Run Now	C Apply
Schedule	
Enter a valid calendaring expression. 👔	
* Job Schedule freq=daily, byhour=0, bysecond=0	
Configuration	
* Purge Type SINGLE V	
Retain Data 5 A V days	
Obta within this interval is NOT purged when the job runs	
Batch Size 20000 A V	
More Auto Purge Configuration Properties	

14.1.2 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.
- It is recommended 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 14–2 Lazy Loading Settings

RACLE' Enterprise Manager Fus	sion Middleware C	Control 12c				WebLogic Domain 💌 🛛 weblogic 💌	-
🕇 soa-infra 👩						<u>*</u>	
SOA Infrastructure 👻						Apr 19, 2018 7:57:07 PM GMT+05:	30 1
stem MBean Browser							
🝸 oracle.as.soainfr 🗞	Þ	Applica	tion Defined MBean	s: SoaInfraConfig:soa-infra		Apply	Rev
Application Defined MBeans		() Inform	nation				6
🔺 🛅 oracle.as.soainfra.config		The cl	hanges made on this mbear	n are not managed by the configuration session. The chang	es will be	applied immediately. You cannot undo the changes from the Change Center.	
Server: soa_server1		Show	MBean Information				
Jan SoalnfraConfig		Attribute	s Operations Notifications	s			
		N	ame	Description	Access	Value	
		1 A	uditConfig	Audit Configuration	RW	javax.management.openmbean.CompositeDataSupport(compositeType=javax.management.openm	
		2 A	uditLevel	Audit level. The possible values are Off, Production and Dev	RW	Production	
	c.	3 A	utodeployDir	The composite auto deployment directory.	RW		
		4 B	lulkRecoveryConfig	Configuration for bulk recovery of faults.	RW	javax.management.openmbean.CompositeDataSupport(compositeType=javax.management.openm	
		5 C	CacheConfig	Cache Configuration	RW	javax.management.openmbean.CompositeDataSupport(compositeType=javax.management.openmend) and an an advantagement.openmend and a standard st	
		6 C	allbackServerURL	This URL is sent by the server as part of the asynchronous $\ensuremath{c}\xspace$	RW		
		7 C	CompositeLazyDeployment	Flag to indicate whether SOA composites will be lazily loaded	RW	false	
		8 0	CompositeLazyLoading	Flag to indicate whether SOA composites will be lazily loaded	RW	true	
		9 C	ConfigMBean	If true, it indicates that this MBean is a Config MBean.	R	true	
		10 C	CreateWSCallTrackingMBean	The flag that controls the creation of mbeans to track elapse	RW	false	
		11 D	atasourceJndi	The JNDI name for the server datasource. This datasource	RW	jdbc/SOALocalTxDataSource	

14.2 BPM Worklist Related

This section mentions certain recommendations on usage of BPM worklist.

14.2.1 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	14–3	Claim	Action
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ORACLE' BPM Worklist												
Му Та	sks(24) 🔻 🕂 🥖 %	Actions 🔻 🛛 🖾	🔍 💌 Me & My Group All 🗸 Assigned 🗸 😭 🗮 🖛								
Status	¥	title	Reassign									
:		Verify Application APP20	Escalate	mission SUB200620180014610								
		Structure Solution of Len	Suspend	80010612003 and Submission SUB200620180014610								
=		Overview of Credit Decisi	Start Task	0180014610								
8-		Offer Letter Acceptance	Claim	0010763001 and Submission SUB200620180014764								
8.		Overview of Credit Decisi	Create To-Do Task	0180014764								
=		Structure Solution of Len	ang appreciation and 2002	- 180010761001 and Submission SUB200620180014758								

14.2.2 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).
- It is strongly recommended 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 14–4 Enable External Window option

ORACLE: BPM Worki	ist			😫 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						~