Oracle® Banking Deposits and Lines of Credit Servicing

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Preface

This guide describes how to administer the Oracle Banking Deposits and Lines of Credit 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 Deposits and Lines of Credit Servicing.

Documentation Accessibility

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

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

Access to Oracle Support

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

Organization of the Guide

This document contains:

Chapter 1 Users Administration

This chapter describes all user management related activities to be performed by an administrator for Oracle Banking Deposits and Lines of Credit Servicing.

Chapter 2 Approvals Management

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

Chapter 3 Defining Task Configuration Rules

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

Chapter 4 Data Management

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

Chapter 5 Setting Up The Bank And Branch

This chapter provides the process of setting up the bank and the branch commonly referred to as the Day 0 setups.

Chapter 6 Setting Up Sales Offer Handoff

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

Chapter 7 Setting Up Product

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

Chapter 8 Setting Up Channels

This chapter describes the process of setting up the channels.

Chapter 9 Application Monitoring Using Administration Application

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

Chapter 10 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 11 Configuration Export-Import Operations

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

Chapter 12 Batch Shells in OBDLOCS

This chapter describes the batch shells used in Oracle Banking Deposits and Lines of Credit Servicing and their execution sequence.

Chapter 13 Information Lifecycle Management (ILM)

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

Chapter 14 Transparent Data Encryption (TDE)

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

Chapter 15 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 16 Configure ODI for Inbound Document Upload

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

Chapter 17 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 Deposits and Lines of Credit Servicing Installation Guide Silent Installation.
- For a comprehensive overview of security, see the Oracle Banking Deposits and Lines of Credit 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 Deposits and Lines of Credit Servicing Licensing Guide.
- For information related to customization and extension, see the Oracle Banking Deposits and Lines of Credit Servicing Extensibility Guides for Host, SOA, and UI.
- For information on the functionality and features, see the respective Oracle Banking Deposits and Lines of Credit Servicing Functional Overview document.
- For recommendations of secure usage of extensible components, see the Oracle Banking Deposits and Lines of Credit 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.

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1 Users Administration

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

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.

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Figure 1–3 Creating Users in OIM - Click Create

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

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

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Home Phone		Postal Code		
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Mobile		State		
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Home Postal Address		Country		
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4 Other Attributes				
Common Name		Locality Name		
Department Number		Initials		
Employee Number		Title		
Generation Qualifier				
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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.

Search Name Advanced Actors View + Create Open Delete Refresh Delete Advanced Actors View + Create Open Delete Refresh Delete Advanced Actors Advanced Advanced Advanced Actors Advanced Advanced Advanced Actors Advanced Advanced Actors Advanced Advanced Advanced Advanced Advanced Advanced Advanced Advanced Advanced	Search Actors Actors Cons Actors Actors Actors Actors Actors Actors	Roles	
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pyrright © 2001, 2015, Oracle and/or its affiliates. All rights reserved	pyright© 2001, 2015, Oracle and/or its affiliates. All rights reserved	SYSTEM AD	System Administrator role for OIM

Figure 1–7 Creating Roles in OIM - Click Create

4. Fill the role details.

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User Defined Tags	User Defined Tags								

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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► Hierarchy								
Members								

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.

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

5. Click Checkout.

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Figure 1–12 Assigning Roles in OIM - Checkout Cart

6. In the Cart Details page, click Submit.
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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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	WEBLOGIC	Weblogic User	WEBLOGIC	WEBLOGIC	Xellerate Users			Active	Unlocke	d
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Figure 1–15 User Locked Successfully

1.5 Unlocking Users in OIM

This section explains how to unlock the user in OIM.

To unlock a user:

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

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

3. Click Unlock.

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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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	WEBLOGIC	Weblogic User	WEBLOGIC	WEBLOGIC	Xellerate Users			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.





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 OBDLOCS 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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(User Deta Username First Name Last Name Email Home Branch Manager Target Unit	ils Form Harry Harry Potter Harry@gmail.com 1010 GLBL_BU_PB	Prefer For LastLogger 2FA Inacti	rred Language Accrediation Brand 2FA Status um Nick Name Party Id d in Date Time ive Begin Date	Edit Apply changes	Assign	n Rol

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.



Figure 1–27 Save Changes

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

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

To unlock a user in OWS:

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

Figure 1–28 OWS Log in



2. In the Domain Structure section, click the base_domain link.

Consulting Env 🗋 Directory Manage	r 🧀 Env Links 🔱 Google 🗀 Links		🗀 Other bool
	r [®] Administration Console		
hange Center	Home Log Out Preferences 🔤 Record Help	٩	Welcome, weblogic Connected to: base_d
ew changes and restarts	Home		
ck the Lock & Edit button to modify, add or	Home Page		
ete items in this domain.	- Information and Resources		
LOCK & Edit	Helpful Tools	General Information	
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nain Structure	Configure GridLink for RAC Data Source	 Read the documentation 	
domain	Recent Task Status	 Ask a question on My Oracle Support 	
invironment	 Set your console preferences 	 Oracle Guardian Overview 	
base_domain	Oracle Enterprise Manager		
services Security Realms	- Domain Configurations		
Interoperability			
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	Environment	Store-and-Forward Agents	Joir Connection Pools
	Servere	 JMS Modules 	Diagnostics
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w do I	 Migratable Targets 	Data Sources	Diagnostic Images
Fourch the configuration	Coherence Servers	Persistent Stores	Request Performance
lise the Change Center	Coherence Clusters	XML Registries	Archives
Record WI ST Scripts	Machines	XML Entity Caches	Context
Change Console preferences	Work Managers	 Foreign JNDI Providers 	SNMP
Monitor servers	Startup And Shutdown Classes	Work Contexts	
		 jCOM 	Charts and Graphs
stem Status	Your Deployed Resources	Mail Sessions	 Monitoring Dashboard Parallel
alth of Running Servers	Deployments	• FileT3	
Enled (0)		• JIA	
Critical (0)	Your Application's Security Settings		
Overloaded (0)	Security Realms		
Warning (0)			
OK (2)			

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	Envlinks Scoole Clinks	-Domainconing Generali ageod	
			C
Change Center	Home Log Out Preferences Record Help	٩	Welcome, weblogic Connected to: base_doma
Click the Lock & Edit button to modify, add or Cleck te tems in this domain. Lock & Edit Release Configuration Comain Structure ase_ domain Denvious Decloyments Decloy	Settings for base_domain Configuration Monitoring Control Security Web General JTA JPA E38s Web Ap_Security-Tab Click the Lock & Editbutton in the Change Center to modify Save A domain is a collection of WebLogic Server instances that is domain. * Indicates required fields * Name:	Service Security Notes ing Log Fiters the settings on this page. managed by a single Administration Serve base_domain	r. Use this page to configure administrative options that apply to all servers in the current The name of this WebLogic Server domain. More Info
	Enable Administration Port		Specifies whether the domain-wide administration por thould be enabled for this WebLogic Servier 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	伊 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
isystem Status isystem Status isystem Status Failed (0)	C de Enable Exalogic Optimizations		Specifies whether optimizations for Orade 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 Orade Exalogic. For more information, see "Enabling Exalogic-Specific Enhancements in Orade WebLogic Server 11g Release 1 (10.3.4)" in the Orade Exalogic Deployment Guide. More Info
Critical (0) Overloaded (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 internal app	plications	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 ▶ Advanced Save		Specifies whether the Guardian Agent is deployed when starting servers in the current domain. More Info

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

Environment Summary ×	List for Test Tracking × 🔄 Issue Archives × 💽 Oracle Banking Platform × 🗅 Security - base_d	omain - \ ×
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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 User Embedded LDAP Roles Policies	
Domain Structure	Save	
base_domain ⊕:Environment →:Deployments ⊕:Services →:Security Realms ⊕:Interoperability ⊕:Diagnostics	If a user unsuccessfully attempts to log into a WebLogic Server instance more than the configured number of retry attempts, the This page allows you to unlock a locked user so that they can log in again. Unlock User: HardlikA Name	ey are locked out of further access. of a specific user to unlock. More Info
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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 be trademarks of their respective owners.	

Figure 1–31 Unlock User

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

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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 affilia	ites. Other names r	nay be trade	marks of their re	spective ow	ners.										

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 OBDLOCS

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

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Domain Domain_ut_domain " User Name verdogic " Passeot " Domain_ut_domain " used partition " Sign in	



Figure 1–34 Click Application Roles

Figure 1–35 Select Administrators Role

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2			
Role Name	Display Name	Description	
OCS_PORTAL_USERS	OCS_PORTAL_USERS	DCS_PORTAL_USERS	A
OffineRole	OffineRole	OffineRole	
Individual-Broker	Individual-Broker	ndividual-Broker	
Individual-Introducer	Individual-Introducer	ndividual-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	CinCollectionAdmin	
CinCollectorDialer	CinCollectorDialer	CinCollectorDialer	
BusinessDirectBanker	BusinessDirectBanker	BusinessDirectBanker	
CinCollectorErLstMd	CinCollectorErLstMd	CinCollectorFrLstMd	
OBPAdminReadonly	OBPAdminReadonly	OBPAdminReadonly	
Customer	Customer	Customer	
CinCollectorErPmtMd	CinCollectorErPmtMd	CinCollectorErPmtMd	
CinCollectorRecov	CinCollectorRecov	CinCollectorRecov	
CinSupervisorCin	CinSupervisorCin	CinSupervisorCin	
CinSupervisorRecov	CinSupervisorRecov	CinSupervisorRecov	
CinManagerCin	CinManagerCin	CinManagerCin	
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4			•
A Membership for Administr	ators		
Principal Display I	Name Type De	ription	
Administrators Administra	itors Group Gro	- Administration	

Figure 1–36 Add Principal

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te ui_domain 0											Oct 3, 2018 3:26	:08 PM GMT+05:30 🖒
/Domsin_ui_domsin/ui_domsin > Applic	ation Roles > Edit Application Role											
Edit Application Role : A	dministrators											OK Cancel
Role (or Enterprise Role) is the group of	f users designed at the enterprise level and typically used to	assign a privilege or permission. A ro	ole can also contain oth	er roles as m	embers.							
General												
Application Stripe	OBP											
Role Name	Administrators		Add Principal									
Display Name	Administrators		Specify criteria to sear	ch and select	the application r	oles that you w	ant to grant pern	nissions to.				
Description	Administrators											
		h		Type	Group	۳						
An application role may need to be map	roed to users or orougs defined in enterprise LDAP server, o	r the role can be mapped to other a	Prin	cipal Name	Starts With V	Developer						
View v + Add 💥 Delete	Detach		Dir	splay Name	Starts With ¥			•				
Name			Searched Principals							Display Name	Туре	
Administrators			Marrie Di Da	1						Administrators	Grou	p
4			Delevient	uacini .	Diantes Name							Þ
			Developer		Ospiay Name		rescription	or 117.077				
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			Advanced Option	n								
			Check to enter p scenarios related	rincipal name d to custom a	here instead of uthenticators.	searching from	sbove. This opti	on can be used f	for advanced			
								ок	Cancel			

60 | Oracle Banking Deposits and Lines of Credit Servicing Administrator Guide

2 Approvals Management

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

2.1 Discretionary Pricing Assessment (DPA)

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

Overview

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

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

Sr.No	Function
1	CASA account configuration
2	Term deposit account configuration
3	Overdraft account configuration (New or Account)

Table 2–1 List of Functions for Fee Configuration

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

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

Table 2–2 List of Functions for UDM Configuration

Sr. No	Function
1	CASA account configuration
2	Term deposit account configuration
3	Overdraft account configuration (New or Account)

2.1.1 Setup Details

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

2.1.1.1 Policy Setup in UI

To initiate, the user needs to set up policies in UI for auto approval. This policy specifies which transactions with what data will be auto approved. When the data that is sent from the application matches the policy

setup, the transaction is auto approved and if the policy is not matched, then the transaction goes for approval.

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

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

Figure 2–1 Log in to OBDLOCS UI to Configure Policies

Oracle Banking Platform X	≚ – ø ×
<complex-block></complex-block>	<u>+</u> a x <u>+</u> i
V.C. 2.5.0.2.0 Copyright 2011, 2016, Oracle and/or its attiliates. All rights reserved	
# A D # 9 4 R 🕄 6 % 📓 # 🖂 🛇 🖻 🤹	^ 句》 記 自 9:02 AM 4/21/2017

2. Enter SM502 in the fast path.

Oracle Banking Platform x	≝ – 6 ×
← → C A Not secure berp\$://10.180.33.251:8002/com.ofss.fc.ui.view/faces/main.jspx	Å
	sm502 🧠 🤸 🖌 🖌 O - Deepaks_us - 📼
<u>#</u>	Policy Management Fast Path
Map My Day	6
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 40.0K
No data to display	Non-Cash 0 10.0K 50.0K In 0.00 Out 0.00
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Figure 2–2 Search for SM502 in Fast Path

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

Enter the service for which policy needs to be defined.

The service needs to be given as [Service_ID]/FC_PR_FEE_OVR or [Service_ID]/FC_PR_UDM_ OVR as shown above.

For example,

com.ofss.fc.appx.ejb.dda.service.transaction.DemandDepositFundsTransferServiceSpi.transferServiceSpi.transferSe

Figure 2–3 Policy Management

Cracle Banking Platform X			A	-	ø ×
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★ SM502 ×					
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The following screen appears:

Figure 2–4 Enter Service for Policy Definition

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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.

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Figure 2–5 Effect of the Policy

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Figure 2–6 Action of the Policy

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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Figure 2–7 Conditions of the Policy

2.1.1.2 SOA Composer Rules Setup

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

The following procedure is performed during SOA Composer rules setup:

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

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Copyright 2004, 2016, Oracle and/or its affiliates. All rights reserved. Accessibility	
Copyright 2004, 2016, Oracle and/or its affiliates. All rights reserved. Accessibility	ORAC
Entry.csv ^	

Figure 2-8 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 2–9 Find the Rules for Service



Figure 2–10 Filter Rules

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

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Figure 2–11 Searching Specific Process

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



Figure 2–12 Creating the Rule

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


Figure 2–13 Selecting Rules File

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

Note

The rule being created must be Active rule.



Figure 2–14 Adding Attributes to the Rule File

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Figure 2–15 Adding Attributes to the Rule File

7. Click Validate to validate the rules file.



Figure 2–16 Validating Rules File

8. Click Save to save the rules.

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Figure 2–17 Saving Rules File

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



Figure 2–18 Publishing Rules File

2.1.1.3 SMS Setup

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

Note

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

The following procedure is performed during SMS setup:

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

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

 com.ofss.fc.appx.ejb.dda.service.transaction.DemandDepositFundsTransferServiceSpi.transf erFundsToBeneficiaries

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Figure 2–19 Search for Service Using Entire Service Name

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

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Figure 2–20 Select the Service to be Configured

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

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Figure 2–21 Severity Tab - Add Severity

2.1.2 Performing the Transaction

Following procedure explains how to perform a transaction:

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

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Figure 2–22 Initiating Transaction

Figure 2–23 Fee Negotiation

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

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Figure 2–24 Log in to Approval Worklist

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

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Figure 2–25 Approve or Reject Work item

4. View the status of the work item.

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

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Figure 2–26 Viewing Status of Work item

2.2 Discretionary Credit Assessment (DCA)

This section explains steps in Discretionary Credit Decision approvals.

Overview

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

Facts Required for MCD Approvals

Following are the facts required for MCD approvals.

Table 2–3 Facts Required for the MCD Approvals

State
Business Unit
Currency
Personal Aggregate Application Amount

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

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

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

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

2.2.1 Setup Details

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

2.2.1.1 Policy Setup in UI

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

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

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



Figure 2–27 Log in to OBDLOCS UI to Configure Policies

2. Enter SM502 in the fast path.

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	This day last year
	Total Transactions 0
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	- Actual Day Today
	••• Projected Day 0
	- Average Day
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Figure 2–28 Search for SM502 in Fast Path

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

Enter the service for which policy needs to be defined.

For example,

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Figure 2–29 Policy Management

The following screen appears:

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Figure 2–30 Enter Service for Policy Definition

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

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Figure 2–31 Effect of the Policy

Figure 2–32 Action of the Policy

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

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Figure 2–33 Conditions of the Policy

2.2.1.2 SOA Composer Rules Setup

For more information on setting up rules in SOA Composer, see Section 2.1.1.2 SOA Composer Rules Setup.

2.2.1.3 SMS Setup

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

The following procedure is performed during SMS setup:

 In the Search Text field, enter the service name. com.ofss.fc.appx.ejb.dda.service.transaction.DemandDepositFundsTransferServiceSpi.transferFund sToBeneficiaries

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Figure 2–34 Search for Service Using Entire Service Name

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

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Figure 2–35 Select the Service to be Configured

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

Select the **MATRIX_AUTH** checkbox and save the record.



Figure 2–36 Approval Checks tab - MATRIX_AUTH

2.2.2 Performing the Transaction

Following procedure explains how to perform a transaction:

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

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Application ID	APP301020160002801		
Facility ID	FC20160960001761		
Approved Amount	\$200,000.00		
Approval Expiry Date	Approved May 17, 2016		
		Track Application	
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Figure 2–37 Initiating Origination Task Flow

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

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Figure 2–38 Approving the Task

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

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

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

2.3 Enabling Worklist Authorization

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

Step 1 Identify the Service Name

For example,

com.ofss.fc.appx.ejb.dda.service.transaction.DemandDepositFundsTransferServiceSpi.transferFundsToBe neficiaries.

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.ejb.dda.service.transaction.DemandDepositFundsTransferServiceSpi.transferFund sToBeneficiaries

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

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Figure 2–39 Select the Service to be Configured

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

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

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Figure 2–41 Approval Checks tab - Add Approval Checks

Step 3 Configure Severity

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

This can be configured from the 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.ejb.dda.service.transaction.DemandDepositFundsTransferServiceSpi.transferFund sToBeneficiaries.
- 4. Ensure approval checks are added. If not, then configure the approval checks.

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Figure 2–42 Dual Control

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

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Figure 2–43 Add New Severity

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

Branch Code	Branch code from which the transaction is to be performed. Specify ANY to configure for all branches. Example: 082991
Role ID	Security Role to which the user belongs and initiates the transaction.
Channel ID	Channels such as BRN, ATM, IB and so on, through which the transaction is performed.
Reason Code	Select Reason Code 1000 normal approval flow.
	This field contains four values as detailed below:
	 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 2–44 Save Severity Details

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Figure 2–45 Update Severity and Save

Step 4 Testing Approvals

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

2.4 BPM Routing Rules Setup

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

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

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Figure 2–46 Worklist App - Administration Link

3. Navigate to Task Configuration tab.

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Figure 2–47 Task Configuration

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

Figure 2–48 Search Task Types

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5. Click the result to open the task for editing.
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	Allow all participants to invite other participants							
	Allow participants to edit future participants							
	Allow initiator to add participants							
	Complete task when participant chooses Reject							
	Enable early completion of parallel subtasks							
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6. Click the Edit icon.



Figure 2–50 Configuring Rules - Edit Icon

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

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Figure 2–51 Configuring Rules - Rules tab

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

Figure 2–52 Expand Rule

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

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Figure 2–53 Advanced Settings

Figure 2–54 Rule Expansion

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

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Figure 2–55 Enabling Rule

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



Figure 2–56 Adding New Row of Condition

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



Figure 2–57 Expanding Payload

Figure 2–58 Selecting Fact



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

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Figure 2–59 Updating Fact Value

Note

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

15. Select **Approver Group** from the option list. For example, select FEE_APPROVER.

Figure 2–60 Select Approver Group

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16. Save and commit the rule and the task.

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

3 Defining Task Configuration Rules

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

3.1 Important Rule Artifacts

This section provides information about important rule artifacts.

3.1.1 Rules Dictionary

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

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

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

Figure 3–1 SOA Composer - Open Rules Dictionary Browser

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Deployment View	Enter the filter string

Figure 3–2 SOA Composer – Selecting Rules Dictionary

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lata		

3.1.2 Decision Function

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

Figure 3–3 SOA Composer – Selecting Decision Function

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A mita	Image: Config-ApplicationTaskConfig-ApplicationTaskConfig-RulesDecisionService Image: Config-RulesDecisionTaskSTPRul
	Initial Actions Inputs Outputs Rulesets,& Decision Functions assert • new taskConfigurationRuleOutcome()

3.1.3 Rulesets

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

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

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

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		assign v taskConfigurationRuleOutcome.taskOwner = createTaskOwnerUser(applicationSummaryDTO.header.initiatedBy)	
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Figure 3–5 shows what a ruleset looks like.

Figure 3–5 SOA Composer - Viewing a ruleset

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	and
	customAttributes is a customAttributes
	Click + to add an IF test condition
	and
	taskConfigurationRuleOutcome is a taskConfigurationRuleOutcome
	Click + to add an IF test condition
	THEN
	assign v taskConfigurationRuleOutcome.taskPriority = getTaskPriority(applicationSummaryDTO.header.priority)
	assign v taskConfigurationRuleOutcome.taskOwner = createTaskOwnerUser(applicationSummaryDTO.header.initiatedBy)
	4

3.2 Inputs to Decision Function

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

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

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

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

3.2.1 Custom Input Attributes

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

- CustomTextAttributeList
- CustomNumberAttributeList
- CustomDateAttributeList

Each of these members has a list of respective types,

- CustomTextAttribute
- CustomNumberAttribute
- CustomDateAttribute

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

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

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

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

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

Figure 3–7 shows example usage of custom attributes.

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

```
assign new 

String dummyCustomInputText = getCustomTextAttribute(customAttributes, "dummyCustomInputText")
assign 

dummyCustomInputText = dummyCustomInputText.toUpperCase()
addCustomTextAttribute(taskConfigurationRuleOutcome, "dummyCustomOutputText", dummyCustomInputText)
assign new 

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

dummyCustomInputNumber = dummyCustomInputNumber + 7
addCustomNumberAttribute(taskConfigurationRuleOutcome, "dummyCustomOutputNumber", dummyCustomInputNumber)
assign new 

XMLGregorianCalendar dummyCustomInputDate = getCustomDateAttribute(customAttributes, "dummyCustomInputNumber")
assign 

dummyCustomInputDate = XMLDate.add days to(dummyCustomInputDate, 1)
addCustomDateAttribute(taskConfigurationRuleOutcome, "dummyCustomOutputDate", dummyCustomInputDate)
```

3.3 Output from Decision Function

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

Figure 3–8 shows output definition of decision function.

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

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3.3.1 List of Configurable Attributes in Rule Outcome

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

1. Task Priority

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

2. Service Level Agreement (SLA)

SLA consists of taskExpirationDuration and taskDueDuration.

To set SLA for the human task:

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

For example:

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

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

P is a literal value that starts the expression

nY represents n years

nM represents n months

nD represents n days

T is a literal value that separates date and time

nH represents n hours

nM represents n minutes

nS represents n seconds

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

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

3. Task Owner

Task owner can be set via following steps:

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

For example:

assign taskConfigurationRuleOutcome.taskOwner = createTaskOwnerUser("user1")

4. Stage Participant

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

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

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

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

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

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



5. Custom Output Attributes

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

- addCustomTextAttribute
- addCustomNumberAttribute
- addCustomDateAttribute

Figure 3–10 shows example usage of custom attributes.

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

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

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

 addCustomTextAttribute(taskConfigurationRuleOutcome, "dummyCustomOutputText", dummyCustomInputText)

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

 assign < dummyCustomInputNumber = dummyCustomInputNumber + 7</td>

 addCustomNumberAttribute(taskConfigurationRuleOutcome, "dummyCustomOutputNumber", dummyCustomInputNumber)

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

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

 addCustomDateAttribute(taskConfigurationRuleOutcome, "dummyCustomOutputDate", dummyCustomInputDate)

3.3.2 List of Functions to Set Rule Outcome

Following functions are available to configure the TaskConfigurationRuleOutcome:

1. getTaskPrioriy(String priority): int

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

This method can be used when assigning the TaskConfigurationRuleOutcome.taskPriority

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

3. createParticipantFromUsers(String users): ParticipantSet

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

4. createParticipantFromGroups(String groups): ParticipantSet

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

10. addUserAttributeFilterCriteria (UserFilterCriteriauserFilterCriteria, UserAttributeFilterCriteria): UserFilterCriteria

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

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

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

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

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

12. addStageParticipant

(TaskConfigurationRuleOutcometaskConfigurationRuleOutcome, StageParticipant stageParticipant): TaskConfigurationRuleOutcome

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

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

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

13. createTaskOwnerUser(String ownerUser): ParticipantSet

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

14. createTaskOwnerGroup(String ownerGroup): ParticipantSet

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

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

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

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

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

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

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

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

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

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

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

18. addStageParticipantWithStageNam

(TaskConfigurationRuleOutcometaskConfigurationRuleOutcome,StageParticipant stageParticipant,StringstageName): TaskConfigurationRuleOutcome

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

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

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4 Data Management

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

4.1 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.

4.1.1 Database Backup

Perform Database Backup before starting with the Batch Execution.

4.1.2 Navigate to End of Day Page

To navigate to the End of Day page:

- 1. Log in to 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 4–1 End of Day (Fast path:EOD10)

	Fast Path/Screen Name Q
* E0D1 <u>0</u> ×	
End of Day	Print 🗷 C <u>l</u> ear 💥 E <u>x</u> it
✓ 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	C Restart Start Recover
Clear All Filters View * FB Export To Excel	

4.1.3 Cutoff Category Execution

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

To execute the Cutoff category:

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

Process Category	Cutoff
Job Type	GROUP
Job Code	BRN_GRP_1

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

Here, the Shell State is Not Started.

The Category Status is Fresh Start.

Figure 4–2 Cutoff Category - Not Started

								Fast Path/Screen Name 🔍 🗏 📩	Posti Jul 2	ng Date 4, 2017 t30	10 - 🚥
TEOD10 ×											
End of Day									Pr	int 🧷 C <u>l</u> ea	r 🗙 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								Next Process Date Jul 24, 2017			
Category Start Time								Category End Time			
Polling Interval								Last Refreshed Time 03-Apr-2018 11:55:55			
Process									Q Re	start Start	Recover
A 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	Not Started	Trend (00:00:00								
¢											>

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

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

Figure 4–3 Cutoff Category - Start

E ORACLE°										Fast Path/Screen Name	9	★ -	Posting Da Jul 24, 20	ate 17 t3010)
TEOD10 ×															
End of Day													Print	Z Clear	🗙 E <u>x</u> it
Category Details					 Info 	rmation			×						
	Process Category	Cutoff	~		The catego	ory has starte	ed. Logging Level	= WARNING		Category Status Fresh Start	Ν				
	* Job Type	GROUP 🗸						ок		Process Date Jul 21, 2017	10				
	* 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
A Shell Details															Ģ
Clear All Filters															
View 👻 🖑 Export To Excel	🖙 🗟 Detach														
			~												
Name of Shell			Status	Trend	Duration	No of Aborts	Throughput	Total Records	Status	Expected Completion Time					
Cutoff Prologue			Not Started	Trend	00:00:00										
https://mum00chi.ip.orocle.com/2	162/com ofer fe ui	view/facos/main is	ov#												

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

Figure 4-4	Cutoff	Category -	· Complete
------------	--------	------------	------------

								Fast Path/Screen Name 🔍 🗏 ★	Posting Date Jul 24, 2017	t3010	
* EODI <u>O</u> ×											
End of Day									Print d	Clear	🗙 Exit
✓ Category Details											
* Process Category Cutoff	~							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 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 I	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			
Cutoff Prologue	Complete	-	00:00:00		0	0					

4.1.4 End of Day (EOD) Category Execution

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

To execute the End of Day category:

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

Process Category	End of Day
Job Type	GROUP
Job Code	BRN_GRP_1

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

Here, the Shell State is Not Started.

The Category Status is Fresh Start.

Figure 4–5 EOD Category - Not Started

E ORACLE								Fast Path/Screen Name Q	Posting Date Jul 24, 2017 13010 - □ □ ■
★ EOD1 <u>0</u> ×									
End of Day									Print 🧷 Clear 💥 Egit
✓ Category Details									^
Process Category End of Day	~							Category Status Fresh Start	
* Job Type GROUP 🗸								Process Date Jul 21, 2017	₽.
* Job Code BRN_GRP_1	1							Next Process Date Jul 24, 2017	
Category Start Time								Category End Time	
Polling Interval								Last Refreshed Time 03-Apr-2018 11:59:36	
Process									Destart Start Recover
Tibless									G Restart Start Recover
✓ Shell Details									Q
Clear All Filters									
View 🔻 🍱 Export To Excel									
	~								
Name of Shell	Status	Trend	Duration	No of Aborts	Throughput	Total Records	Status	Expected Completion Time	
Reg CC Schedule Generation EOD Shell	Not Started	Trend	00:00:00						^
Bundle Reports	Not Started	Trend	00:00:00						
									~

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

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

Figure 4–6 EOD Category - Start

								Fast Path/Screen Name Q	★ Posting Date Jul 24, 2017 t3010 - ■
The second secon									
End of Day									Print 🧷 Clear 💥 Exit
✓ Category Details			Inform	nation		:	ĸ		^
* Process Category End of Day	~		The category	has starte	d. Logging Level	= WARNING		Category Status Fresh Start	
• Job Type GROUP 🗸						ок		Process Date Jul 21, 2017	
Job Code BRN_GRP_1								Next Process Date Jul 24, 2017	
Category Start Time								Category End Time	
Polling Interval								Last Refreshed Time 03-Apr-2018 12:00:42	
A Process									Q Restart Start Recover
✓ Shell Details									Q
Clear All Filters									
View * 3 Export To Excel 📴 🔐 Detach									
	~								
Name of Shell	Status	Trend D	Duration	No of Aborts	Throughput	Total Records	Status	s Expected Completion Time	
Submission EOD Expiry Shell	In Progress	- C	00:00:00		0	0	0%	03-Apr-2018 08:00:41	^
	Not Started	- C	00:00:00		0	0	0%		~
https://mum00cbi.in.oracle.com:30162/com.ofss.fc.ui.view/faces/main.i	spx#								

Figure 4–7 EOD Category - In Progress

								Fast Path/Screen Name Q	≣ ★·	Posting Jul 24, 2	Date 017 t3010	-
f EOD1 <u>0</u> ×												
End of Day										Print	Z Clear	🗙 Exit
✓ 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 V								Next Process Date Jul 24, 2017				
Category Start Time 03-Apr-2018 12:00	:40							Category End Time				- 11
Polling Interval								Last Refreshed Time 03-Apr-2018 12:01:08				
✓ 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				
Insurance EOD Shell	Complete	-	00:00:00		0	0	0%					^
Processing of Reverse Sweep	Complete	-	00:00:00		0	0	0%					
												~

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

Figure 4–8 EOD Category - Complete

								Fast Path/Screen Name 🝳 🗏 🌪 - Posting Date t3010 -	
fi EOD1 <u>0</u> ×									
End of Day								Print 🗷 Clear 💥 I	Exit
✓ Category Details									^
* Process Category End of Day	\sim							Category Status Completed	L
Job Type GROUP								Process Date Jul 21, 2017	L
• Job Code BRN_GRP_1								Next Process Date Jul 24, 2017	L.
Category Start Time 03-Apr-2018 12:00:	10							Category End Time 03-Apr-2018 12:01:30	L
Polling Interval								Last Refreshed Time 03-Apr-2018 12:02:05	L
✓ Process								Q Restart Start Recover]
View * 3 Export To Excel									
	~								
Name of Shell	Status	Trend	Duration	No of Aborts	Throughput	Total Records	Status	Expected Completion Time	
DD Instruction Rearrangement For Calender Change	Complete	•	00:00:00		0	0		^	
Customer Value Date EOD Shell	Complete	-	00:00:00		0	0			
PC Reports	Complete	-	00:00:00		0	0			~

4.1.5 Internal System EOD Category Execution

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

To execute the Internal System EOD category:

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

Process Category	Internal System EOD
Job Type	GROUP
Job Code	BRN_GRP_1

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

Here, the Shell State is Not Started.

The Category Status is Fresh Start.

Figure 4–9	Internal	Svstem	EOD	Category -	Not	Started
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						Fast Path/Screen Name Q	∃ ★·	Posting Da Jul 24, 201	te 7 t3010	
FOD10 ×										
End of Day								Print	Æ 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				
Job Code BRN_GRP_1						Next Process Date Jul 24, 2017				
Category Start Time						Category End Time				
Polling Interval						Last Refreshed Time 03-Apr-2018 12:03:09				
Process							Ģ	Restart S	tart Rec	over
▲ Shell Details										G
Clear All Filters										
View * 💯 Export To Excel					G	.				
	~									
Name of Shell	Status Trend	Duration	No of 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	∎ ★ •	Posting Date Jul 24, 2017	t3010 -	
f EOD10 ×												
End of Day										Print Z	Clear	🗙 E <u>x</u> it
✓ Category Details			 Info 	rmation		3	ĸ					^
* Process Category Internal System	OD 🗸		The catego	ry has starte	d. Logging Level	= 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 12:04:21				
✓ Process									Q F	lestart Star	Reco	over
▲ Shell Details												Ģ
Clear All Filters												
View 👻 🎬 Export To Excel 📴 🔛 Detach	_											
	~											
Name of Shell	Status	Trend D	uration	No of Aborts	Throughput	Total Records	Status	Expected Completion Time				
Party EOD Shell	In Progress	- 0	0:00:00		0	0	0%					^
▶ Interest Shell	In Progress	- 0	0:00:00		0	0	0%					

Figure 4–10 Internal System EOD Category - Start

Figure 4–11 Internal System EOD Category - In Progress

								Fast Path/Screen Name Q	∎ ★	Postin Jul 24	g Date 2017 t301	
R EODI <u>0</u> ×												
End of Day										Prir	it 🧷 Clear	🗙 E <u>x</u> it
✓ Category Details												^
Process Category Internal System E	DD 🗸							Category Status In Progress				
• Job Type GROUP 🗸								Process Date Jul 21, 2017				
* Job Code BRN_GRP_1								Next Process Date Jul 24, 2017				
Category Start Time 03-Apr-2018 12:04	21							Category End Time				
Polling Interval								Last Refreshed Time 03-Apr-2018 12:04:33				
✓ Process									1.000	3 Restart	Start R	ecover
∡ Shell Details												Ģ
Clear All Filters												
View 👻 💯 Export To Excel 📴 🔛 Detach												
	~											
Name of Shell	Status	Trend	Duration	No of Aborts	Throughput	Total Records	Status	Expected Completion Time				
Interest Shell	In Progress	ş	00:00:12		26.03	94	0%	03-Apr-2018 08:04:33				^
Accounting batch Verification Shell	Not Started	Trend	00:00:00		-	-	-	-				

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

Figure 4–12 Internal System EOD Category - Complete

≡ (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	🔹 🎵 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			~

4.1.6 Beginning of Day (BOD) Category Execution

This category performs the tasks required for opening a business day in a bank. For example, 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 4–13 BOD Category - Not Started

								🕞 🙀 - Posting Date tagged State St	3010 - 🚥
fi EOD1 <u>0</u> ×									
End of Day								Print Z C	ear 🗙 E <u>x</u> it
✓ Category Details									^
* Process Category Beginning of Day	~							Category Status Fresh Start	- 11
* Job Type GROUP								Process Date Jul 24, 2017	- 11
Job Code								Next Process Date Jul 27, 2017	- 11
Category Start Time								Category End Time	- 11
Polling Interval								Last Refreshed Time 03-Apr-2018 12:06:42	- 11
A Process								Q Restart Start	Recover
▲ Shell Details									Ģ
Clear All Filters									
View 👻 💯 Export To Excel 📴 🔐 Detach									
	~								
Name of Shell	Status	Trend	Duration	No of Aborts	Throughput	Total Records	Status	Expected Completion Time	
Reg CC Schedule Release BOD Shell	Not Started	Trend	00:00:00						^
Business Transfer Periodic Execution BOD Shell	Not Started	Trend	00:00:00						
· · · · · · · · · · · · · · · · · · ·									~

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

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

Figure 4–14 BOD Category - Started

							Fast Path/Screen Name Q	Desting Date Jul 24, 201	te 7 t3010 -	-
f EOD10 ×										
End of Day								Print	Z Clear	🗙 E <u>x</u> it
✓ Category Details		0 Info	rmation		;	×				^
Process Category Beginning of Day	\checkmark	The catego	ory has starte	d. Logging Leve	I = WARNING		Category Status Fresh Start			
* Job Type GROUP 🗸					ок		Process Date Jul 24, 2017			- 11
• Job Code BRN_GRP_1							Next Process Date Jul 27, 2017			- 11
Category Start Time							Category End Time			
Polling Interval							Last Refreshed Time 03-Apr-2018 12:07:14			
⁴ Process								G Restart S	tart Reco	ver
▲ Shell Details										Ģ
Clear All Filters										
View 👻 🖽 Export To Excel										
	~									
Name of Shell	Status T	rend Duration	No of Aborts	Throughput	Total Records	Status	Expected Completion Time			
Business Transfer Periodic Execution BOD Shell	In Progress	O 0:00:00		0	0	0%				^
Payments Auto Credit Run BOD Shell	Not Started			0	0	0%				÷
https://mum00cbi.in.oracle.com:30162/com.ofss.fc.ui.view/faces/main.i	spx#									

Figure 4–15 BOD Category - In Progress

								Fast Path/Screen Name Q	Postin Jul 24	g Date 2017 t301	0
fi EOD10 ×											
End of Day									Prir	it 🗷 C <u>l</u> ear	🗙 E <u>x</u> it
✓ Category Details											^
* Process Category Beginning of Day	~							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 12:07	14							Category End Time			
Polling Interval								Last Refreshed Time 03-Apr-2018 12:07:26			
⁴ Process									Q Restart	Start F	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			
Untanking Adjustment Posting	In Progress	٠	00:00:12		14.5	4	0%	03-Apr-2018 08:07:26			^
Customer Value Date BOD Shell	Complete	-	00:00:00		0	0	0%				~

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

Figure 4–16 BOD Category - Completed

								Fast Path/Screen Name Q E 🛧 - Posting Date Jul 24, 2017 t3010 -	
f EOD10 ×									
End of Day								Print Z Clear 🕻	(Exit
✓ Category Details									^
Process Category Beginni	ng of Day							Category Status Completed	
* Job Type GROUP	~							Process Date Jul 24, 2017	
* Job Code BRN_G	₽P_1 ∨							Next Process Date Jul 27, 2017	
Category Start Time 03-Apr-2	018 12:07:14							Category End Time 03-Apr-2018 12:07:35	
Polling Interval	\sim							Last Refreshed Time 03-Apr-2018 12:08:29	
⊿ Process								Q Restart Start Recov	er
▲ Shell Details									0
Clear All Filters									
View 👻 💬 Export To Excel									
	~								
Name of Shell	Status	Trend	Duration	No of Aborts	Throughput	Total Records	Status	Expected Completion Time	
Reg CC Schedule Release BOD Shell	Complete	-	00:00:00		0	0			^
▶ Customer Value Date BOD Shell	Complete	-	00:00:00		0	0			
Human Task EOD Resume Shell	Complete	-	00:00:00		0	0			~

4.1.7 Housekeeping Category Execution

This category performs the tasks such as 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.

								Fast Path/Screen Name	 ٩ ٩	Posti Jul 2	ng Date 1, 2017 t301	0 - 🚥
FOD10 ×												
End of Day										Pr	nt 🗷 C <u>l</u> ear	🗙 E <u>x</u> it
✓ Category Details												^
* Process Category Housekee	> v							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	\sim							Last Refreshed Time 03-Apr-2018 12:09:14				
✓ Process										Q Restar	t Start R	ecover
▲ Shell Details												G
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	ß		-	-
Facility Auto Closure Shell	Not Started	Trend	00:00:00									^
Accounting Event History Shell	Not Started	Trend	00:00:00									
												v

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

Once the process starts the **Category Status** and the **Shell State** of currently running process display *In Progress.*
Figure 4–18 Housekeeping Category - In Progress

								Fast Path/Screen Name 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
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Clear All Filters											
View 👻 🍱 Export To Excel 🖙 📰 Detach											
	~										
Name of Shell	Status	Trend	Duration	No of Aborts	Throughput	Total Records	Status	Expected Completion Time			
Move driver table data to History table	Complete	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 4–19 Housekeeping Category - Completed

							Fast Path/Screen Name Q	Posting Date Jul 24, 2017 t301)
f EOD10 ×									
End of Day								Print 🧷 Clear	🗙 E <u>x</u> it
✓ Category Details									^
Process Category Housekeeping	~	रे					Category Status Completed		
* Job Type GROUP 🗸							Process Date Jul 24, 2017		
* Job Code BRN_GRP_1							Next Process Date Jul 27, 2017		
Category Start Time 03-Apr-2018 12:10:	03						Category End Time 03-Apr-2018 12:22:49		
Polling Interval							Last Refreshed Time 03-Apr-2018 12:22:49		
Process								Q Restart Start R	ecover
▲ Shell Details									Ģ
Clear All Filters									
View 👻 ৃ Export To Excel 📴 📓 Detach									
	~								
Name of Shell	Status Tre	end Duration	No of Aborts	Throughput	Total Records	Status	Expected Completion Time		
Move driver table data to History table	Complete -	• 00:00:00		0	0				^
Accounting Event History Shell	Complete =	00:00:00		0	0				
									~

4.1.8 Alert Generation Category Execution

This category is used to generate previously logged alerts.

To execute the Alert Generation category:

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

Process Category	Alerts Generation
Job Type	GROUP
Job Code	BRN_GRP_1

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

Here, the Shell State is Not Started.

The Category Status is Fresh Start.

Figure 4–20 Alert	Generation	Category -	- Not Started
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							Fast Path/Screen Name	■ Tosting Date Jul 24, 2017 t3010
fi EOD10×								
End of Day								Print 🧷 Clear 🗙 Exit
✓ Category Details								^
* Process Category Alert Gener	ation 🗸						Category Status Fresh Start	
• Job Type GROUP 🗸]						Process Date Jan 1, 2016	
Job Code BRN_GRP_							Next Process Date Jan 4, 2016	
Category Start Time							Category End Time	
Polling Interval	\sim						Last Refreshed Time 03-Apr-2018 12:23:24	
▲ Process								Restart Start Recover
▲ Shell Details								Ģ
Clear All Filters								
View 🔻 🎢 Export To Excel 📴 🔛 Detach								
	~							
Name of Shell	Status Trer	nd Duration	No of Aborts	Throughput	Total Records	Status	Expected Completion Time	
Alert generation Shell	Not Started Trer	nd 00:00:00						
								~

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

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

Figure 4–21 Alert Generation Category - In Progress

								Fast Path/Screen Name Q	★ ° Po	sting Date 24, 2017	13010 -	
f EOD10 ×												
End of Day										Print 🗷 (lear 🗙	(E <u>x</u> it
✓ Category Details												^
* Process Category Alert Generation	~							Category Status In Progress				
* Job Type GROUP 🗸								Process Date Jan 1, 2016				
* Job Code BRN_GRP_1								Next Process Date Jan 4, 2016				
Category Start Time 03-Apr-2018 12:23:	51							Category End Time				
Polling Interval								Last Refreshed Time 03-Apr-2018 12:24:00				
' ⊿ Process									Q. Res	tart Start	Recove	er
∡ Shell Details											(Э
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				
Alert generation Shell	In Progress	-	00:00:09		276.32	84	0%	03-Apr-2018 08:24:00				
▲ Alert generation Shell Shell Details	ov#											¥

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

								Fast Path/Screen Name 🔍 🗮 📌	Posting Date Jul 24, 2017 t3010	• •••
FOD1 <u>0</u> ×										
End of Day									Print 🧷 Clear	<mark>≍ E</mark> <u>x</u> it
✓ 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		
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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				
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4.2 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 4–22 Exception Details

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5. Select an exception record. The additional details such as Stack Trace and Comments appear. One of the important attributes is Recommended Action for the operator.

Figure 4–23 Exception Record Details

		2016										1 * * * *	· orsoure	
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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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	Control for OPERane (INDE) - an 2019/2013-01 (PAS)-20 represent Communit	Salped Hyronic

Figure 4–24 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.

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

5 Setting Up The Bank And Branch

This chapter provides the process of setting up the bank and the branch commonly referred to as the Day 0 setups.

5.1 Common Services Day 0 Setup

The Common Services setup includes the following sections.

5.1.1 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)
- 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)

Note

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

5.1.1.1 Head Office Setup

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

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

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

Note

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

5.1.2 Currency Maintenances

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

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

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

Note

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

5.1.3 Calendar Maintenances

The calendar services are embedded in the common services 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)

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

5.2 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)

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

5.3 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 CASA Bank Policy (Fast path: PM002)
- Define TD Bank Policy (Fast path: PM003)
- Define Bundle Bank Policy (Fast path: PM005)

- Define Hardship Relief Policy (Fast path: PM006)
- Define Statement Policy (Fast Path: PM007)
- Define Dormancy Policy (Fast path: PM008)
- Define Credit Policy (Fast path: PM009)
- Define Product Group
- Define Interest Rule (Fast path: PM011)
- Define TD Interest Payout Plan (Fast path: PM012)
- Define CASA Product
- Define TD Product
- Define Investment Product
- Define Insurance Product
- Define Product Interest Linkage (Fast path: PM017)
- Link Dependent Offers (Fast path: PM018)
- Define Bonus Interest Parameters (Fast path: PM019)
- Define CASA Offer
- Define TD Offer
- Define Investment Offer
- Define Insurance Offer
- Installment Rule Details (Fast path: PM058)
- 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 Affinity (Fast path: PM042)
- Define Question Sets (Fast path: PM046)

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

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6 Setting Up Sales Offer Handoff

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

6.1 Day Zero Setup (Configuration)

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

6.1.1 Changes to be done in OBDLOCS

Following are the steps:

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

FLX_PM_SALES_OFFER_STG

FLX_PM_SALES_OFFER_STG_H

FLX_PM_CC_SALES_OFFER_STG

FLX_PM_CC_SALES_OFFER_STG_H

FLX_PM_CS_SALES_OFFER_STG

FLX_PM_CS_SALES_OFFER_STG_H

FLX_PM_TD_SALES_OFFER_STG

FLX_PM_TD_SALES_OFFER_STG_H

FLX_PM_LN_SALES_OFFER_STG

FLX_PM_LN_SALES_OFFER_STG_H

- 2. Following configuration is needed in the source schema tables:
 - a. UPDATE FLX_FW_CONFIG_VAR_B SET PROP_VALUE = '10.180.4.60' WHERE PROP_ ID = 'odi.server.name'; (where '10.180.4.60' is the HOST IP of ODI Agent i.e. ip of the server on which odi is installed).
 - b. UPDATE FLX_FW_CONFIG_VAR_B SET PROP_VALUE = '15101' WHERE PROP_ID = 'odi.server.port'; (where '15101' is the port number of ODI Agent).
 - c. UPDATE FLX_FW_CONFIG_ALL_B SET PROP_VALUE = 'WORKREP' WHERE PROP_ID = 'WORK_REPOSITORY'; (where 'WORKREP' is the name of work repository).
 - d. INSERT INTO FLX_FW_ENUM_REPRESENTATIONS (ENUM_FQN,ENUM_ VALUE,USER_LOCALE,ENUM_NAME,ENUM_REPRESENTATION,ORDINAL_ NUMBER,CREATED_BY,CREATION_DATE,LAST_UPDATED_BY,LAST_UPDATED_ DATE,OBJECT_STATUS_FLAG,OBJECT_VERSION_NUMBER) VALUES ('com.ofss.fc.enumeration.ProcessCategoryType','17','en_us','PMU_SALES_OFFER','Sales Offer Handoff Shell',0,'OFSSUSER',TO_TIMESTAMP('SYSDATE,'DD-MON-RR HH.MI.SSXFF AM'),'OFSSUSER',TO_TIMESTAMP('SYSDATE ','DD-MON-RR HH.MI.SSXFF AM'),'A',1);

- e. UPDATE FLX_FW_CONFIG_ALL_B SET PROP_VALUE = 'SUPERVISOR' WHERE PROP_ID = 'ODI_USER_NAME; (where 'SUPERVISOR' is password for master repository).
- f. UPDATE FLX_FW_CONFIG_ALL_B SET PROP_VALUE = 'SUNOPSIS' WHERE PROP_ID = 'ODI_USER_PASSWORD'; (where 'SUNOPSIS' is password for master repository).
- g. INSERT INTO FLX_DI_ETL_JOB_DEFINITION (CREATED_BY, CREATION_DATE, LAST_UPDATED_BY, LAST_UPDATED_DATE, EXECUTION_UNIT, BATCH_ CATEGORY, EXECUTION_UNIT_DESC, IS_ENABLED, JOB_FREQUENCY) VALUES ('Admin', TO_DATE('10-05-2013', 'dd-mm-yyyy'), 'Admin', TO_DATE('10-05-2013', 'dd-mmyyyy'), 'PKG_PM_SALES_OFFER_STG', 17, '', 1, 1);

6.1.2 Changes to be done in ODI

Following are the steps:

Step 1 Connect to Repository

To connect to a repository:

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

Figure 6–1 Repository Connection Information

Login Name:	ODI_PMU	evelo
User:	SUPERVISOR	dmini
Password:	•••••	-
Database Conne	ction (Master Repository)	
User:	ODIPMU_ODI_REPO	
Password:	•••••	
Driver List:	Oracle jDBC Driver	II Onli
Driver Name:	oracle.jdbc.OracleDriver	
URL:	jdbc:oracle:thin:@10.180.4.60:1521/PD8460A	7.201
Work Repositor	У	,
🔘 Master Rep	ository Only	
Work Repo	sitory WORKREP	
Default Conne	ction	
<u>H</u> elp	Test OK Cancel	

Step 2 Physical Architecture

To generate a physical architecture:

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

Figure 6–2 Physical Architecture - New Data Server

igner Operator Topology × Security	/		🕐 Start Page 🐣		
		- 🌆		~	
ysical Architecture					regrat
📴 Informix		A			
📴 Ingres					
} <mark>]]</mark> Interbase					Learn
J- 1 JMS Queue					
Im JMS Queue XML				What's New	Fe
				Release Notes	G
JavaScript				Technic Deci	
				Training Resources	C
📴 LDAP		0			W
- 🧿 Microsoft Access					
Microsoft Excel					C
Microsoft SQL Server					a
					6
					-
ODI Tools					
					-
📴 Operating System					
Oracle Oracle					
B-OB Open					A
B B A B New				Show on Startup	
Duplicate Selection					
Oracle Zelete	Delete				
🖂 🔂 Oracle 💕 New Data Server					
Oracle Datatynes Reverse-Engineeri	na				
Oracle					
Parade Import	•				
Export					
Program Compare with Export File					
SAPAR Expand					
Collapse		0	1		

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

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

Figure 6–3 Data Server - Definition

•	3) Start Page 🐘 🥥 OBP_SRC 🐃 Test Connection						
	Definition	莺 Data Server					
	On Connect/Disconnect Datasources Version Privileges Flexfields	Name: OBP_SRC Instance / dblink (Data Server): Connection User: R26PMU Password:					
		JNDI Connection Array Fetch Size: 30 Batch Update Size: 30 Degree of Parallelism for Target: 1					

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

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

Figure 6–4 Data Server - JDBC

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

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

Figure 6–5 Create New Target Data Server

	🚰 OBP_SRC.R26PMU 👘 🕙 OBL_DEMO_TARGET 🐣					
- 🎽 🕶	Test Connection					
	Definition					
-	JDBC	🕒 Data Server				
	On Connect/Disconnect	Name: OBI_DEMO_TARGET				
	Datasources	Instance / dblink (Data Server):				
	Version					
0	Privileges Flexfields	Connection				
		User: OBI_DEMO				
		Password: ••••••				
		JNDI Connection				
		Array Fetch Size: 30 Batch Update Size: 30 Degree of Parallelism for Target: 1				

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

Figure 6–6 New Physical Schema



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

Definition	💕 Physical Schema (Da	ta Server: OBP_S	SRC]		
Context Version	Name:	OBP_SRC.R26PML	- J		
Privileges	Schema (Schema):	R26PMU			
Flexfields	Schema (Work Schema):				
	Default				
		V Derault			
	Work Tables Prefix				
	Errors: E\$_ Loading: C\$_ Integration: I\$_ Temporary Indexes: IX\$_				
	Journalizing elements	prefixes			
	Datastores: J\$	Views: J	/\$ Triggers: T\$		
	□ Naming Kules				
	Character Encoding:		BASE38		
	Local Object Mask:		%SCHEMA.%OBJECT %SCHEMA.%OBJECT@%DSERVER %SCHEMA.%OBJECT PARTITION(%PARTITION) %SCHEMA.%OBJECT SUBPARTITION(%PARTITION)		
	Remote Object Mask				
	Partition Mask:				
	Sub-Partition Mask:				
	Local Sequence Mask	c	SCHEMA.%OBJECT.nextval		
	Bemote Sequence Ma	isk:	SCHEMA %OBIECT nextwal@%DSERVER		
	Least Converses Com	unt) (alua Majalu			
	Local Sequence Curr	ent value Mask:			
	Remote Sequence Cu	irrent Value Mask:	%SCHEMA.%OBJECT.currval@%DSERVER		

Figure 6–7 Physical Schema - Definition

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

Figure 6–8 Physical Schema - Target Data Server

	B BP_SRC.R26PMU × C OBI_DEMO_TARGET.OBI_DEMO ×						
ñ •	Definition	Physical Schema (Dat	a Server: ORL D				
	Context						
	Version Privileges	Name:	OBI_DEMO_TARG				
	Flexfields	Schema (Schema):	OBI_DEMO				
	Schema (Work Schema): OBI_DEMO 🗸						
		✓ Default					
		Work Tables Prefix					
		Errors: E\$_ Loading: C\$_ Integration: I\$_ Temporary Indexes: IX\$_					
		Journalizing elements prefixes					
		Datastores: J\$ Views: JV\$ Triggers: T\$					
		Naming Rules	aming Rules				
		Character Encoding:		BASE38			
		Local Object Mask:		%SCHEMA.%OBJECT			
		Remote Object Mask:		%SCHEMA.%OBJECT#%DSERVER %SCHEMA.%OBJECT PARTITION/%PARTITION)			
		Partition Mask:					
		Sub-Partition Mask:		%SCHEMA.%OBJECT SUBPARTITION(%PARTITION)			
		Local Sequence Mask:		%SCHEMA.%OBJECT.nextval			
		Remote Sequence Mas	ik:	%SCHEMA.%OBJECT.nextval@%DSERVER			
		Local Sequence Curre	nt Value Mask:	%SCHEMA.%OBJECT.currval			
U		Remote Sequence Cur	rent Value Mask:	%SCHEMA.%OBJECT.currval@%DSERVER			

Figure 6–9 Physical Schema List



Step 3 Logical Architecture

To generate a logical architecture:

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

Designer Operator	Topology ×	Security				Ę
62					<u>- M</u>	1
🗄 Physical Architecture						ľ
± Contexts				M .	•	
🖃 Logical Architecture						
					-	
🗄 🥛 In-Memory Engi	ne					
🗈 📴 Informix						
🗈 🦳 Ingres						
H Interbase						
IMS Oueue						
⊞ [MS Queue XML						
🗊 🥛 JMS Topic						
🗈 🕞 JMS Topic XML						
🖶 🦳 Java BeanShell						
🗄 [JavaScript						
🕀 🔰 Jython						
EDAP						
Microsoft Excel	2					
Microsoft SOL Se	erver					
🕀 🥛 NetRexx						
🕀 🧊 Netezza						
🕀 📔 ODI Tools						
🕀 📔 OWB Runtime Re	pository					
🖶 🔰 Operating System	m					
Diracie Diracie]		
tiew/						
🔐 👔 🚺 <u>N</u> ew						
€ Dup <u>l</u> icate	Selection					
			Delete			
🖶 🗍 🛛 📸 New Logic	al <u>S</u> chema					
∎ C Datatypes	<u>R</u> everse-Engine	ering				
			•			
■ 📃 P <u>E</u> xport						
E Compare	<u>w</u> ith Export File					
Expand						
A SAS (deprecated)			1		0

Figure 6–10 Logical Architecture - New Logical Schema

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

For your source logical schema, the name should be OBP_SRC.

4. Set its context to its corresponding physical schema.

Figure 6–11 Logical Schema - Definition

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

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

Figure 6–12 Physical Schema - Set Context

	👼 OBP_SRC	× 👺 OBP_SRC.R26PMU ×	
•	Definition		
	Context		
	Version Privileges	Context	Logical Schema
		Clobal	OBP_SRC
	Flexfields		

The architecture is now complete.

Step 4 Creating Model

To create a model:

1. Navigate to Designer tab -> Models.

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

```
Figure 6–13 New Model
```

Eile Edit View Search ODI Tools Window Team	<u>R</u> un <u>H</u> elp 1 1 1 1
Designer × Operator Topology Security	🗉 🔚 OBP_SRC 🗡
62	🙏 🔹 🔞 Reverse Engineer 🔗 Check
± Projects	Definition
🖃 Models	Reverse Engineer
₽ -	 New Model Folder New Model New Model and Topology Objects Import Model Folder Import Model Version Browser Model Folders Version Browser Model

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

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

Figure 6–14 OBP_SRC Model - Definition

finition	C Madal		
everse Engineer			
elective Reverse-Engineering	Name:	OBP_SRC	
ontrol	Code:	OBP SRC	
urnalizing	2040.		
ournalized Tables	Technology:	Oracle	
ervices	Logical Schema:	OBP_SRC	
arkers	Action Group:		
emo		<generic action=""></generic>	
ersion	Default Folder:		
rivileges		Display the Metadata changes in the Model tree	
exfields	Description:		

Figure 6–15 OBP_SRC Model - Reverse Engineer

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

4. Repeat the steps for the other model.

Figure 6–16 OBI_DEMO_TARGET Model - Definition

🖞 Reverse Engineer 🛛 🖋 Check	Model Generate ar	nd Deploy Data Services
Definition	🔚 Model	
Reverse Engineer Gelective Reverse–Engineering	Name:	OBI_DEMO_TARGET
Control	Code:	OBI_DEMO_TARGET
ournalized Tables	Technology:	Oracle
ervices	Logical Schema:	L_OBI_DEMO_TARGET
Aarkers Aemo	Action Group:	<generic action=""></generic>
/ersion	Default Folder:	
Privileges Flexfields		Display the Metadata changes in the Model tree
	Description:	

Figure 6–17 OBI_DEMO_TARGET Model - Reverse Engineer

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

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

Figure 6–18 Click Reverse Engineer

Definition	🔚 Model	
elective Reverse-Engineering Control ournalizing ournalized Tables Services Markers Markers Memo	Name: Code: Technology: Logical Schema: Action Group: Default Folder:	OBP_SRC OBP_SRC Oracle OBP_SRC <generic action=""></generic>
Privileges Flexfields	Description:	Display the Metadata changes in the Model tree

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

Figure 6–19 OBP_SRC DB Tables

🖃 Models
🖮 🔚 OBP_SRC
OBP SRC /
🕀 🐨 Diagrams
🖶 🚓 Hierarchy
🖶 🔚 DR\$COLLATERALDEDUPE_IDX\$I
🖶 🔚 DR\$COLLATERALDEDUPE_IDX\$K
🖶 📲 DR\$COLLATERALDEDUPE_IDX\$N
🖶 📲 DR\$COLLATERALDEDUPE_IDX\$R
🖶 📲 DR\$FLX_FW_CONFIG_ALL_B_N1\$I
🖶 🔚 DR\$IDX_FLX_AC_TRN_PARTY_SMRY\$I
🖶 📲 DR\$IDX_FLX_AC_TRN_PARTY_SMRY\$K
🖶 🔚 DR\$IDX_FLX_AC_TRN_PARTY_SMRY\$N
🖶 🔚 DR\$IDX_FLX_AC_TRN_PARTY_SMRY\$R
🖶 🔚 DR\$IDX_FLX_CS_AUDIT_SMRY\$I
🖶 🔚 DR\$IDX_FLX_CS_AUDIT_SMRY\$K
🖶 🔚 DR\$IDX_FLX_CS_AUDIT_SMRY\$N
🖶 🔚 DR\$IDX_FLX_CS_AUDIT_SMRY\$R
🖶 🔚 DR\$IDX_FLX_DD_FIN_SMRY\$I
🖶 📲 DR\$IDX_FLX_DD_FIN_SMRY\$K
🖶 🔚 DR\$IDX_FLX_DD_FIN_SMRY\$N
🖶 📲 DR\$IDX_FLX_DD_FIN_SMRY\$R
🖶 📲 DR\$IDX_FLX_DD_NON_FIN_SMRY\$I
THE PROPERTY OF NON-ON-CHRVAR

Figure 6–20 OBI_DEMO_TARGET DB Tables



Step 5 Creating Global Variables

To create global variables:

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

Figure 6–21 New Variable



3. Enter the following values:

Name: batch_category Datatype: Numeric Keep History: No Default Value: 17

Figure 6-22 Variable - Definition

💡 batch_cat	egory ×	
Definition	@ 1/	
Refreshing	_u y variable	
History	Name:	batch_category
Markers	Datatyne:	Numeric
Memo	Datatype.	Indificite
Version	Keep History:	No History
Privileges	Secure Value:	
	Default Value:	17
	Description:	

4. In the Refreshing tab, from the Schema list select the OBP_SRC schema.

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

Figure 6–23 Variable - Refreshing

batch_cat	egory ×
Definition	
Refreshing	Schema: OBP_SRC
History	Select Query:
Markers	select 17 from dual
Memo	
Version	
Privileges	

5. Create global variable invoked_scenario with the following values in the Definition tab:

Name: invoked_scenario Datatype: Alphanumeric Keep History: No

In the Refreshing tab, enter the following values:

Schema: OBP_SRC Query: "SELECT '<%=odiRef.getPackage("PACKAGE_NAME")%>' from dual".

6. Create global variable process_date with the following values in the Definition tab:

Name: process_date Datatype: Alphanumeric Keep History: No

In the Refreshing tab, enter the following values:

Schema: OBP_SRC Query: "select '12345' from dual".

7. Create global variable session_id with the following values in the Definition tab:

Name: session_id Datatype: Numeric Keep History: No

In the Refreshing tab, enter the following values:

Schema: OBP_SRC Query: "SELECT <%=odiRef.getSession("SESS_NO")%> from dual".

Step 6 Projects Required in ODI

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





The package PKG_PM_SALES_OFFER_STAGE is the main package which is called from the OBDLOCS HOST and is configured in Day Zero Setup changes in OBDLOCS in source schema tables as given in step g.

Figure 6–25 PKG_PM_SALES_OFFER_STG



Step 7 CSV File Generation and Exporting it to Required Server

The procedure is as follows:

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

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

signer × Operator Topology Security	· =	3 Start Page HKG_PM_SALES	_OFFER_STG × 11 Int.STG_PMU_SALES_OFFER ×	
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B- PROC_TRUNCATE_STG		State OdiGenerateAllScen	OdiSqlUnload 4	
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🕂 🚰 Knowledge Modules		Changed Data Capture	JDBC URL	jdbc:oracle:thin:@slc11kti.us.oracle.com:1521/PDBOBP
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		Commes		

Figure 6–26 PKG_PM_SALES_OFFER_STG Properties

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

Figure 6-27 Export the .csv File



7 Setting Up Product

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

7.1 Creating New Product

This section explains the procedure to set up Product for OBDLOCS as Asset or Liability.

Following are the steps to configure new Product in OCH:

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

User ID: sadmin

Password: sadmin

Figure 7–1 Log on to UCM

SWETS=1507615007369&SW	EPreLd=1		- C S
	User ID sadmin Password	L.E.]
	Remember my User ID	omer Master	
	Accessibility		
	HTML5 Browser Compatibili	ty	
	XHR2: Fail Placeholder Text: Fail History: Fail	0	

2. Navigate to Site Map.

Figure 7–2 Sitemap

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	Site Map								
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3. Click the Administration - Product link.

Figure 7–3 Administration - Product

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

4. Navigate to the Products view.

Figure 7–4 Products View

(>) @ http://ofss3131325.in.oracle.com:7777/ucm_	_enu/star	t.swe?SV	VECmd=
Product Administration: N ×		_	
Administration - Pro ORACLE	File	Edit	View
Products Product:			
Aggregate Component Component User Interface Versions Products Bundle Product Category Collateral Images Key Features Literature News			
 Eligibility and Compatibility Rules 			
Asset Membership Cardinality Eligibility			
 Product Compatibility 			
 Product Line Compatibility 			

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

Provide the following details:

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

Figure 7–5 Product List

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Products • Product																
Products											+	• •	۹	3 - 1	6 of 17	\sim
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Customer Note SEBLRSVNP1													2			
Penalty Charges	Product		Penalty Charges							Active						
PS Generic Veh	Product	Vehicle														
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Write-in Packag	Product	Package Each											2			
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6. Step off the record. Press Ctrl + S to save the record.

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

Figure 7–6 Product Activities

Penalty Charges	Product	Penalty Charges								
PS Generic Veh	Product	Vehicle								
Write-in Event	Product	Event Order Item								
Write-in Menu I	Product	Menu Item								
Write-in Menu	Product	Menu Per Person								
Write-in Packag	Product	Package Each								
Write-in Packag	Product	Package Item P								
Write-in Packag	Product	Package Per Pe								
Transportation Trans	Transportation	Transportation								
Activity T More Info Name More Info More Info Product In Application	Fourth Les Gications	vel View Bar								

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

Figure 7–7 More Info - Select Category

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Product OBP Product	Product Type: Fin Ad	ccount 💙	Organization	Default Organiz. 📧	Orderable:	×						
Description: New Asset	Status:	~	Product Line:	S	Bundle:							
Product Desc	Part #:		Unit of Measure:	~	Customizable:							
Payment Type:	·		Structure Type:	None	Track as Asset:	2						
More Info 🔻 More Info 💌												
Parent: 🖾	Start	00	Price Type:	* One-Time 💙	Unique Assets: 🗖							
Organization: Default Organiz.	End:	02	Sample Cos	t: 💿	Requires Approval: 🗆							
Profit Bank: Asset	opproval #:		Promo Cos	t 🕚	>1 Barcode:							
Level: Liability	proval Org:	~	WAG	D: 0	Orderable: 🗹							
Rollup Level: Life & Annuity	Product Administration	n Detail	IMS I	d:	Sales Product: 🗹							
Root Personal Lines I	nsurance U/M:	~	NDC :	#:	Service Product:							
Barcode: Transaction	oses/Unit:		Manufacture	r: 🛛 😨	Resource:							
Unique Id: Group Insurance	e Unit Size:	88	Part # Metho	d: 🖌	Bundle:							
Expression: Individual Healt	h Insurance nits/Case:	88	Vendo	c 🛛	Taxable:							
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Short Days: Common ditu	Region:	~	Lead Tim	e:	Compensable: 🗹							
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Image:	Division (SAP):		Model a	#:	Track as Asset: 🗹							
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11. From the **Type** list, select the appropriate value.

Figure 7–8 More Info - Select Type

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Description	New Asset	Sti	etus:		~	P	roduct Lin	ne:	8			Bundle: 🗌						
	Product Desc	Pi	ert #:			Unite	of Measur	re:	~		Custor	nizable: 🗆						
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Lot #:	Investments		Qty.	_		v	endor Par	rt #: [1 0	isable Discount: 🗆							
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image:	Trust Account	 Divis 	ion (SAP)				1/1004	et #.		-	Track as Asset: M							
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12. Press Ctrl+S to save the record.

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8 Setting Up Channels

This chapter describes the process of setting up the channels.

8.1 Channel Setup

This section explains the procedure to set up channels for OBDLOCS. The Figure 8–1 gives an overview of the transaction message flows.

Figure 8–1 Transaction Message Flows



The Channels setup involves three main steps as follows:

Step 1 Front End Processing Interface (FEPI) Application Installation

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

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

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

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

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

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

Note

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

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

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

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

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

Note

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

8.2 Front End Processing Interface (FEPI)

This section contains information related to FEPI.

8.2.1 Installation

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

- 1. Create a directory structure for FEPI similar to the OBDLOCS environment.
- 2. Change the paths in FEPI start scripts as per the environment, **start_fepi_atm.sh** and **start_fepi_ pos.sh** at /fepi/scripts.
- 3. Change the following property values in **channels_atm.properties** and **channels_pos.properties** as per the environment:
 - BANK_CODE: Indicates the bank code

For example, BANK_CODE=335

LISTENER_PORT: The port number on which FEPI server accepts incoming ISO message requests.

For example, LISTENER_PORT=9999

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

For example, COMMAND_PORT=9998

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

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

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

For example, **\$ sh start_fepi_atm.sh**

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

8.2.2 ATM And POS Trace Logs

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

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

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

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

To understand the logging mechanism, see the OEM Diagnosibility details at http://docs.oracle.com/cd/E25054_01/doc.1111/e24473/diagnosability_adminuser.htm.

8.2.4 Multiple Instances

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

For example, for the ATM FEPI server:

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

9 Application Monitoring Using Administration Application

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

9.1 Dynamic Monitoring Service (DMS)

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

What is DMS?

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

9.1.1 Usage

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

Developers

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



Figure 9–1 Developers

IT Technical Staff

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

Figure 9–2 IT Technical Staff



9.1.2 Monitoring Application using the OPA001 page

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

9.1.2.1 Monitoring Application Performance (Fast path: OPA001)

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

rigule 3–3 Mollicolling Application relioninalice	Figure	9–3	Monitoring	A	oplication	Performance
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						🖌 Bra	nch (2) ATM	(2) Internet	Mobile									
⊿ Ap	plication F	Performance																
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View	• 🛛	Export To Excel	9 ▲ »	• Al • • Transactions	• For E	Branch												
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View Alert	• <table-cell></table-cell>	Export To Excel (❶ ▲ ≫ Layer	AI Transaction	Task Code	3ranch Trend	Alert Event Time	Trend Reference Queue	Last Alert User	Average	Time in a	milliseconds Min	Total	Transact	tion Count Failure	Amos Debit	unt Cre	di
View Alert	Channel Branch	Export To Excel (Module ORIGINATION	A >> Layer Spi	AI Transactions	Task Code	3ranch Trend	Alert Event Time 27-May-2015 11:39:37	Trend Reference Queue 4147, 5047, 3252, 3984,	Last Alert User arun	Average 4,563	Time in a Max 6,463	miliseconds Min 2,880	Total 36,501	Transact Success 8	fion Count Failure	Amor Debit	unt Cre	di .
View Alert	Channel Branch Branch	Export To Excel Module ORIGINATION TD		Al Al Transaction Finite Detects Transaction Perform Auto Decision Mind Payin _ Ul	For I	Trend	Alert Event Time 27-May-2015 11:39:37 27-May-2015 10:46:53	Trend Reference Queue 4147, 5047, 3252, 3984, 881, 936, 2143, 2616, 6816	Last Alert User arun	Average 4,563 4,155	Time in r Max 6,463 19,078	Min 2,880 881	Total 36,501 58,167	Transact Success 8 14	Failure 0	Amor Debit	unt Cre	- •
View Alert	Channel Branch Branch Branch	Export To Excel (Module ORIGINATION TD PARTY	Layer Spi Backing Bean Spi	Al Transaction Detach Transaction Perform Auto Decision Mixed Paryn_UI Ado O'Update Party Francial Profile	For I	Branch Trend	Alert Event Time 27-May-2015 11:39:37 27-May-2015 10:46:53 27-May-2015 11:39:21	Trend Reference Queue 4147, 5047, 3252, 3984, 841, 936, 2143, 2616, 6816 6739, 2380, 1740, 758, 1	Last Alert User arun - arun	Average 4,563 4,155 3,993	Time in a Max 6,463 19,078 11,972	Min 2,880 881 758	Total 36,501 58,167 35,936	Transact Success 8 14 9	Failure 0 0 0	Amos Debit	unt Cre	- •
View Alert	Channel Branch Branch	Expert To Excel Module ORIGINATION TD PARTY CASA	Layer Spi Backing Bean Spi Backing Bean	Al Transaction Transaction Perform Auto Decision Perform Auto Decision More Payin, UI Add Or Update Party Fixancial Profile Add Or Update Party Fixancial Profile Add Courth Save _ UI	For I	Branch Trend © © ©	Alert Event Time 27-May-2015 11:39:37 27-May-2015 10:46:53 27-May-2015 11:39:21 27-May-2015 10:39:16	Trend Reference Queue 4147, 5047, 3252, 3984, 881, 998, 2143, 2616, 6816 6739, 2380, 1740, 758, 1 455, 2720	Last Alert User arun - arun	Average 4,563 4,155 3,993 1,593	Time in 1 Max 6,463 19,078 11,972 2,720	Min 2,880 881 758 465	Total 36,501 58,167 35,936 3,185	Transact Success 8 14 9 2	Failure 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Amor Debit	unt Cre	di
View Alert	Channel Branch Branch	Module ORIGINATION TD PARTY CASA ACCOUNT	A >> Layer Spi Backing Bean Spi Backing Bean Spi	Al Transaction Transaction Detach Transaction Transaction Perform Auto Decision Mindel Payre_UI Add Or Update Party Financial Profile Alternate Accounts Save_UI Recommend Durdles	For I Task Code . CASA037 WL000	Trend	Alert Event Time 27-May-2015 11.39:37 27-May-2015 11.39:37 27-May-2015 11.30:15 127-May-2015 11.30:01 27-May-2015 11.30:01	Trend Reference Queue 4147, 5047, 3252, 3984, 861, 936, 2143, 2616, 6916 6739, 2380, 1740, 758, 1 465, 2720 424, 901, 399, 1103, 1927	Last Alert User arun - arun - arun	Average 4,563 4,155 3,993 1,593 1,528	Time in 1 Max 6,463 19,078 11,972 2,720 10,281	Min 2,880 881 758 465 306	Total 36,501 58,167 35,936 3,185 56,535	Transad Success 8 14 9 2 37	Failure 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Amou Debit	unt Cre	1br
View Alert 9 4 9 4 9 4	Channel Branch Branch	Export To Excel (Module ORIGINATION TD PARTY CASA ACCOUNT CONTENT	A >> Layer Spi Backing Bean Spi Backing Bean Spi Spi Spi	Al Transaction Detach Detach Transaction Perform Auto Decision Mixed Pays_UI Add Or Update Party Francial Profile Alternate Accounts Save_UI Recommend Dundles Deter And Save Documents	For I Task Code Toblog CASA037 VVL000 OR247	Franch Trend Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q	Alert Event Time 27-May-2015 11:30:37 27-May-2015 11:30:21 27-May-2015 11:30:21 27-May-2015 11:30:01 27-May-2015 11:30:01	Trend Reference Queue 4147, 5047, 3252, 3984, 861, 936, 2143, 2616, 6516 6739, 2380, 1740, 758, 1 465, 2720 424, 901, 309, 1103, 11927 1386, 1359, 1420, 1303,	Last Alert User arun - arun asun asavant	Average 4,563 4,155 3,993 1,593 1,593 1,528 1,515	Time in 1 Max 6,463 19,078 11,972 2,720 10,281 2,339	Min 2,880 881 758 465 306 1,303	Total 36,501 58,167 35,936 3,185 56,535 10,602	Transact Success 8 14 9 2 37 7	Failure 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Amou Debit	unt Cre	iller

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

9.1.2.1.1 Application Performance Summary

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

Figure 9–4 Application Performance Summary

Application Performance Summary	Page Refreshed 27.44ay-2015 1140	:12 AM GMT+05:30 🔞
	Branch (2) ATM (2) Internet	

Following are the few notification about the channels:

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

9.1.2.1.2 Log Level

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

Figure 9–5 Log Level

Ja Log Level UI: Host:

9.1.2.1.3 Application Performance

This section gives the metrics for the transaction. Metrics include timing, alert, trending information. Certain filters can be applied over the metric table. Initially only 100 (Initial page size which is configurable) transactions are displayed. To display all the transactions, 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 9–6 Alert State

																				🚔 Print 🔹
i Apple	cation Pe	erformance Surr	mary	· Al · ·	Transactions	• For	Branch	Branch 3 ATM	Intern	et Q	Mobile						Pag	e Refreshed	27-May-2015 11:40:12 AM	I GMIT+05:30
	-																			
											Time in a	nillseconds	5	Transa	ction Count	Amount				
let d	hannel	Module	Layer	Transaction	Task Code	Trend	Alert Event Time	Trend Reference Queue	Last Alert User	Average	Мак	Mn	Total	Success	Failure	Debit	Credit	Trend Reference	Nested Status Alert ECID	Service
•	Branch	ORIGINATION	Spi	Perform Auto Decision			27-May-2015 11:39:37	4147, 5047, 3252, 3984,	arun	4,563	6,463	2,880	38,501	8	0			6,457	NA ffa7b029b61303	CreditDecisionAppl
b 7	Branch	TD	Backing Bean	Mixed Payin _ U	TD002		27-May-2015 10:48:53	881, 938, 2143, 2616, 6818	•	4,155	19,078	881	58,167	14	0			0,810	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 ffa7b029b61303	PartyFinancialProfi
<u>د</u> ا	Branch	CASA	Backing Bean	Alternate Accounts Save _ UI	CASA037		27-May-2015 10:39:16	465, 2720		1,593	2,720	405	3,185	2	0			2,720	NA 9dfdeddo72dae	AlternateAccounts
	Branch	ACCOUNT	Spi	Recommend Bundles	VIL000	٠	27-May-2015 11:38:01	424, 901, 399, 1103, 1927	arun	1,528	10,281	308	56,535	37	0			1,927	NA 9dfdeddo72dae	BundleRecommend
L (Branch	CONTENT	Spi	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
b 1	Branch	ORIGINATION	Spi	Submit Create Offer	OR223	٠	27-May-2015 10:40:22	1025, 1271, 1170, 1288,	asavant	1,382	2,008	972	9,537	7	0			2,008	NA 9d35654d4414a	LendingOfferApplic
	Iranch	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 ffa7b029b61303	CreditDecisionAppl
	Franch	ORIGINATION	Spi	Construct Offer Document Linkage DTO	OR247		27-May-2015 10:38:40	1010, 1070, 926, 886, 1294	asavant	1,002	1,294	820	7,015	7	0			1,294	NA 9d35554d4414a	LendingOfferApplic
A 1																		0.004		

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

	Table	9 —1	Alert	State
--	-------	-------------	-------	-------

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 OBDLOCS)

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

Figure 9–7 Select Task Code

		Posting Date	e 31-Aug	-2016									i	• × 4	. * •	amrit	•
	Account 👻	Back Office	CA	.SA 🔻	Collection 👻 Co	redit Card 👻 In	surance 👻 LCM	▼ Loa	n 🔻 🤇	Drigination 🔻	Party	▼ Pa	ayment And Collection 👻	Term Deposit 🔻	Fast	Path	
	OPA001 ×	1												-			
													×				
onito	or Applicat	tion Performanc	e	OR2	23												
				10.00	E (3 p.)	1-										Print	Exi
				Channel	Module	laver	Transaction	Average	Max	Min	Success	Failura	Trand Reference Queue				
				Branch	ORIGINATION	Spi	Submit Create	1,362	2,006	972	7	0	1025, 1271, 1170, 1288, 2	Time in	millisecono	is	
ert	Channel	Module	Layer	Branch	ORIGINATION	Sni	Inquire Detailed	603	3 891	332	27	0	383 343 333 618 3891	e Max	Min	Total	Si
•	Propoh	ORIGINATION	Col				Application		-,		-	-	,,,	2 901	222	16 270	27. *
<u>.</u>	Branch	SWS	App Sc	Branch	ORIGINATION	Spi	Approval Data	319	860	206	25	0	206, 375, 307, 320, 525	1,623	146	16,270	31
<u>.</u>	Branch	PRICING	Spi	Branch	ORIGINATION	Spi	Inquire Offer Documents	148	701	39	27	0	63, 145, 169, 306, 701	893	140	1.033	2
	Branch	ORIGINATION	Spi	Branch	ORIGINATION	Sol	Fetch Offer Expiry	112	249	74	13	0	100 96 84 81 249	860	206	7,980	25
•	Branch	WORKLIST	Spi	Dianen		0.1	For Application	112	250		407	•	457, 70, 242, 255, 400	711	59	7,974	36
5	Branch	WORKLIST	Spi	Branch	COMMON	Spi	Fetch State	45	256	23	137	0	157, 79, 243, 256, 106	698	19	5,503	35
	Branch	ORIGINATION	Spi											562	51	1,215	8
	Branch	ORIGINATION	Spi											701	39	3,988	27
	Branch	ORIGINATION	Spi										OK Cancel	587	64	1,175	8
	Branch	ORIGINATION	Spi		Fetch Offer Expiry	For Application	OR223	27-1	May-2015 1	0:39:28 10	0, 96, 84, 8	1, 249	asavant 112	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 9–8 Selection of Desired Transaction

	Monitor Application Performance														
													🚔 Print	🛛 Exit	
	▲ Inquire Detailed Application (Spi ORIG	INATION OR	223)											^	
		erver Name	Trend	Trend Reference Queue	Last Alert Liser	Average	Max	Min	Active	Transac	tion Count]			
			Trend		Cast Fren Oser	Arenage	max		Threads	Success	Failure]			
		ost_Server	•	383, 343, 333, 618, 3891	asavant	603	3,891	332	0	27	0				
											,				
ł	Transaction Details					⊿ Tra	nsaction Metric	:5						^	
	Chann	el BRN				1			Average 60	3					
	Task Coo	de OR223							Max 3,8	91					
	Servic	e BaseApplic	ationService	eSpi.inquireDetailedApplicatio	n				Min 33	2				- 11	
	Transactio	on Inquire Det	ailed Applica	ation					Success 27						
	Alert and Trend Details					.∡ Fai	lure Events								
	Last Alert U	ser asavant						Failure Securi	ity Event 0						
	Alert Event Ti	me 27-May-20	015 10:39:26					2F	A Event 0					11	
	Trend Reference Que	eue 383. 343.	333. 618. 38	391			F	ailure Databa	se Event 0					×	

Figure 9–9 Transaction Details

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

Figure 9–10 Transaction Metrics

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

Figure 9–11 Alert and Trend Details

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

Figure 9–12 Failure Events

Failure Events	
Failure Security Event	0
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.

9.2 Batch Performance Monitoring

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

9.2.1 Use Cases

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

Developers

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





IT Technical Staff

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

Figure 9–14 IT Technical Staff



Figure 9–15 IT Technical Staff - Monitor Batch Stats



9.2.2 Monitoring Batch Performance Using OPA003 page

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

9.2.2.1 Monitor Batch Performance (Fast path: OPA003)

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

Figure 9–16 Batch Performance Monitoring

OPA003 x				
Monitor Batch Performan	ce			
				🚔 Print 🧹 O <u>K</u> 🤌 C <u>l</u> ear 🔤 E
			Refresh Time	01-Jun-2015 10:06:48 AM GMT+05:30
				Auto Refresh
S	elect Category Beginning of Day 🔻		Job Type GROUP	
• Pr	ocessing Date 31-Mar-2017 😨 🗊		Job Code BRN_GRP	_1 Q
			Adhoc	Generate and View
				Generate Document
				Document
(Datab Guaran				
a Batch Summary				
Category Name	BEGINING OF DAY	Start Time 29 May 2015 14:05:37	Wa	it Time 00:20:20
Status	COMPLETE	End Time 29 May 2015 14:44:06	Executio	n Time 00:18:09
# of Aborts	2		Time	Taken 00:38:29

Figure 9–17 Batch Performance Monitoring - Shell Details

⊿ S	nell Details									<u>6</u> 2
Clea	r All Filters									
view		•								
	Name of Shell	State	Trend	Duration	No of Aborts	Throughput	Total Records	Status	Expected Completion Time	
►	DDA Standing Instruction BOD Shell	Complete		00:00:04		0	0			^
•	DDA Sweepout Instruction BOD Shell Default L	Complete	-	00:00:00		0	0			
►	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	Ş	00:00:20		7776	1			
+	Loan Action due BOD shell	Complete	÷	00:28:35	1	1180	508			
•	Loan Post Action due BOD shell	Complete	-	00:00:02		0	0			
•	CASA BOD Reports	Complete	-	00:00:00		0	0			



Figure 9–18 Batch Performance Monitoring - Relative Performance Summary

The batch statistics are monitored at different levels as follows:

- Category Level
- Shell Level
- Record level

Category Details

The parameter monitored at category level as given as below:

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

Table 9–2 Category Details

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

Shell Details

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

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

Table 9–3 Shell Details

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

Figure 9–19 Shell Details

8
A

Figure 9–20 Shell Details - DDA Standing Instructions

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

Note

Note the following:

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

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



	4 Shell Details								2		
Clea	Jean All Filters View 👻 殿 Export To Excel 📴 📆 Oetach										
		•									
	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	ē	00:00:21		238	1	0%	100%		
►	Split Loan Account Opening BOD Shell	Complete	٠	00:00:20		11,390	1	0%	100%		
►	Loan Action due BOD shell	In Progress	Ş	00:17:02		1,280.85	859	0%	100%	02-Jun-2015 14:38:00	
•	Loan Post Action due BOD shell	Not Started	-	00:00:00		0	0	0%	100%		

Comments Table

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

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

Stream Details Table

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

Table	9-4	Stream	Details
-------	-----	--------	---------

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

Figure 9–22 Stream Based Shells

I Loan Acti	ion due BOD shell I	Notes								
+ Add New No	ote									
	Cr	eated By bhaktin	m (USER) on 27/05	/2015 at 14:38:45					Subject patch applied	
		patch	applied							
	C	comment								
	Interna	I to Bank 🗸								
		Stage 2								
керіу 🕨 и	1									
🔳 Loan Actio	ion due BOD shell !	Stream Details								
⊿ Loan Acti	ion due BOD shell s	Stream Details								
Loan Acti	ion due BOD shell s	Stream Details								
Loan Acti Clear All Filters View	s Export To Excel	Stream Details								
Loan Acti	s g Export To Excel	Stream Details								
Clear All Filters View V Stream Number	ion due BOD shell s s g Export To Excel r First Row	Stream Details	Current Row	Duration	Status	Processed Count	Failed Count	Server Name		
Clear All Filters View View Stream Number	s g Export To Excel r First Row 1	Etream Details	Current Row	Duration 1,681	Status COMPLETED	Processed Count 1,266	Failed Count	Server Name obphost_server1		
Loan Acti Clear All Filters View V Stream Number	ion due BOD shell 1 g Export To Excel r First Row 1	Stream Details	Current Row 1270	Duration 1,681	Status COMPLETED	Processed Count 1,266	Failed Count	Server Name obphost_server1		
Loan Acti	ion due BOD shell 1	Contraction Contr	Current Row 1270	Duration 1,681	Status COMPLETED	Processed Count 1,266	Failed Count	Server Name obphost_server1		
Loan Acti Clear All Filters View Stream Number 1 Loan Actie	ion due BOD shell 1	Error Desc	Current Row 1270	Duration 1,681	Status COMPLETED	Processed Count 1,266	Failed Count	Server Name obphost_server1		
Loan Acti Clear All Filters View P Stream Number 1 Loan Actie View	s a Export To Excel r First Row 1 ion due BOD shell I iii Detach	Stream Details	Current Row 1270	Duration 1,681	Status COMPLETED	Processed Count 1,266	Failed Count	Server Name obphost_server1		
Loan Acti Clear All Filters View Stream Number I Loan Actie View ErrorCode	a Export To Excel b Export To Excel c c c c c c c c c c c c c c c c c c	Stream Details Comparison Compari	Current Row 1270 BranchGroupCo	Duration 1,681	Status COMPLETED	Processed Count 1.266 SummaryText	Failed Count 0	Server Name obphost_server1		
Loan Acti Clear All Filters View Xex Stream Number 1 View ErrorCode 2	a boot due BOD shell : b boot To Excel b boot	Stream Details Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Co	Current Row 1270 BranchGroupCo BRN_GRP_1	Duration 1,681	Status COMPLETED	Processed Count 1.266 SummaryText 300340757 201	Failed Count 0	Server Name obphost_server1		
I Loan Acti Clear All Filter: View ▼ Estream Number 1 In Loan Acti View ▼ ErrorCode 2 2	in due BOD shell i perport To Excel r First Row 1 in Generation in Generatio in Generation in Generation	Image: Stream Details	Current Row 1270 BranchGroupCo BRN_GRP_1 BRN_GRP_1	Duration 1,681	Status COMPLETED	Processed Count 1.266 SummaryText 300340757 201 300332595 201	Failed Count 0	Server Name obphost_server1		

Note

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

Exception Log

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

Figure 9–23 Exception Log

BANKING PLATFORM	Posting Date	28-Feb-2017											i •	* *	★ v bi	aktim 👻
		Account 🔻	Back Office 🔻	CASA 🔻	Collection v	Credit Card 🔻	Insurance 🔻	LCM 🔻	Loan 🔻	Origination v	Party 🔻	Payment And Collect	on 🔻	Term Deposit 🔻	Fast Path	*
	formance															
	Ionnance													🔒 Print	<u>√ok</u> ¢c	lear 🖪 Exit
																×
com dis f. chamework bait com dis f. chamain accour com dis f. chamain accour com dis f. chamain accour com dis f. chamain accour com dis f. chamain loan a com dis f. chamain loan a com dis f. chamain loan a com dis f. chamain loan a	th exception. Batcl h process Recov th process Batch amListenerMDB. h exception. Batcl option. Batcl pation. BusinessE hiting da entity. tran ting da entity. tran ting da entity. tran ting da service A service da Accor counting service ance LoanInsurar urance LoanInsura urance LoanInsura	nFrameworkExce erableBatchProc rocess start(Batc ActionProcessin actionentry.Acc sactionentry.Acc sactionentry.Acc counting Templa LoanAccounting Templa LoanAccounting Templa LoanAccounting anceApplication anceApplication ancActionExecutor ActionSe	ption: An error occ ess executeBath(f) thProcess java.507 mListener/HDB jav IgException. Excep IgException. Excep IgException. Excep IgException. Excep IgException. Exception Java IgException. Exception Java IgException. Exception Java IgException. Exception Interfector generate Cation Service raise Service raiseAccou IdateAndRaiseAccou Interfector generate Exception. Exception Interfector generate Service raiseAccou Interfector generate Interfector generate Interfec	urred in batch RecoverableB:) at com.ofss.f. a:91)Caused for the account ContainerFac ContainerFac ContainerFac ContainerFac ContainerFac AndProcessA ntingEvent(Lo untingForNev nsuranceAmoi nActionSet(Act	process: at com. or atchProcess.java: c.bh batch.Stream by: java.lang refle hile executing Ac trole LN_INSURA tory.fetchDerived(tory.updateAccou tory.createlinstanc nntainefFromTem anAccountingSer Veremium(Loanin untOnReviewDate tor.java.228) at cc onSetProcessor.j	rss fc framework has 156) at com ofts fc. 170cessHelper regult 100(5), at com ofts. NCE_PAYABLE ar SLForAliasOfFactBa e0fAccountingCro alte(AccountingCro Jate(AccountingCro Jate(AccountingCro Jate(AccountingCro SuranceApplication wo dts fc.domain I. ava:184)7 more	tch.process.Batch/ framework.batch.p uestBatchProcess. Exception at com. of (a domain.account) dt LPLUN. at ased/Accounting Tin DerivedOrhlodule laner(Accounting mplateFetcher jav. tingEventApplicati m.ofss.fc.app.loan m.ofss.fc.app.loan java:4043).at com plication.java.434 aan.action.executo	Process exec rocess exec StreamProc. Iservice.action ransactionCc Supplied(Act transactionC a:34) at com. onService.ja insurance.Li. ofss.fc.app.I)) at com.dss.	ute(BatchProverableBatch verableBatch sisHelper jan orotk.batch.pr in.executor.A ntainerFacto counting Tran ontainerFact ofss.fc.domaia var.1709 at C opaninsuranci opaninsuranci coan.insurana. Executor.exe	ocess java-950) at Process process B to com ofss: 1 ocess Batch Proce vctionSetProcessor sactionContainerf tory java-220 at in accounting da si orm ofss f.capa ad Application.raise/ ce.Loaninsurance/ account CCIRevie	atch (Recove fc.bh.batch.St ss.execute(Ba processAction factory.java:4 ervice.Accourt npter.impl.loa Accounting(La Application.up wApplication.up wApplication.ctionExecuto	rableBatchProcess.java: reamProcessHelper.pro ichtProcess.java.918) nnSelfActionSelProcesso 49) at titingEventService.procet L. JoanAccountingAdaph aninsuranceApplication dateInsuranceBalances process(CCIReviewApp fjava.71) at	217) at essRequ 6 moreC3 r.java:19 er.raiseAc java:919 AndRaise lication.ja	rest(StreamProces aused by: 1) 7 moreCause tingEvent(Accoun countingEvent(Lo) at Accounting(Loan va:70) at	isHelper.java:4 id by: ingEventServi anAccountingA insuranceAppli	9) at :e java:560) at dapter java:63) at cation java:3844) QCK Cancel
A Relative Perfor	mance Summa	ary														
T14. BUILD_DATE=2015-05 PDBT14. Host IP : 10.180.4.1	-26 TNS Details : 125	PDBT14 = (DES	CRIPTION = (ADDF	RESS = (PROT	TOCOL = TCP)(HO	OST = OBPDB-RAC	-CLUSTER-SCAN	.in.oracle.co	n)(PORT = 1	521)) (CONNECT_	_DATA = (SEI	RVER = DEDICATED) (S	ERVICE_	NAME = PDBT14))). DB Details	: t14rd/t14rd @

Reports Table

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

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

Figure 9–24 Report Based Shells



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

Figure 9–25 Status of Report Based Shell

Monitor Batch	Performance														
												45 Print	- A OK	d Clear	P
												14		•	
						U76	100								- 1
► BOD Rep	orts	Com	plete Trend 00	00:00			100								
						0.5	100								_
BOD Epile	ogue	In Pr	ogress Trend 00	:00:09			-								-
4															P.
	que Shell Details														
	N	sourie Code EO					vvlait				rending time -				
	Number	of Streams -					No of A	rts			commentCount 0				
		Start Time 2015.0	06-02 14:38:10				lecords Proce	ed -							
		20105													
		End Time					Failed Rec	ids +							
# BOD Ebilo	gue Shell Notes														
+ ADD New NO.	•														
to items to display															
Report Id	Report Type	Type Of Report	Processing Date	Status											
X_ADVICE	REPORT	BOD	2017-04-15 00:	FAILED											
DEXCP	REPORT	BOD	2017-04-15 00:	FAILED											
D241	REPORT	BOD	2017-04-15 00:	FAILED											
0104	REPORT	800	2017-04-15 00:	FAILED											
D102	REPORT	BOD	2017-04-15 00	FAILED											
4508	REPORT	BOD	2017-04-15 00:	FAILED											
BOD Epilo	gue Error Desc								3						
View 🕶	🔛 Detach														
ErrorCode	ProcessResult	BranchCode	BranchGroupCod	fe RunCount	ErrorDesc	SummaryText									
4	4	1010	BRN_GRP_1	1	javax.xml.ws.soap.SOAPFaultE	TD241									
4	4	1010	BRN_GRP_1	1	javax.xml.ws.soap.SOAPFaultE	TD102									
4	4	1010	BRN_GRP_1	1	javax.xml.ws.soap.SOAPFaultE	TD103									
4	4	1010	BRN_GRP_1	1	javax.xml.ws.soap.SOAPFaultE	TDEXCP									
4	4	1010	BRN_GRP_1	1	javax.xml.ws.soap.SOAPFaultE	TD104									

Exception Report

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

Figure 9–26 Exception Report

OPA003 x					
	1 Information ×				
Monitor Batch Performance	Documents generated successfully.			🚔 Print 🗸 Ok 🤌 Cl	ear 🖪 Exit
	ок		Refresh Time 01-Jun	-2015 10:06:48 AM GMT+05	30 🝓 🕯
				Auto Refresh	•
Select Category Beginning of Day	•	Job Type	GROUP		
* Processing Date 31-Mar-2017	a a	Job Code	BRN_GRP_1		
			⊿ Adhoc Gene	rate and View	
				Generate Document	View Document
⊿ Batch Summary					
Category Name BEGINING OF DAY	Start Time	29 May 2015 14:05:37	Wait Time	00:20:20	
Status COMPLETE	End Time	29 May 2015 14:44:06	Execution Time	00:18:09	
# of Aborts 2			Time Taken	00:38:29	¥

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

Figure 9–27 Sample Report

ank 10 EMERALD BU			BATCHEXC	EPTION REPORT	
anch : 1010					Job Code: BRN_GRP
5. ID :					Report Date : 15-04-20
BOD Epilogue					
Start Time :	2-Jun-2015 9:0	8 AM	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	Resta	irt Time		Abort Duration	
2-Juil-2015 9:08 AM	2-Jun-20	15 9:13 AM		00:05:08	
Exception Summary	2-Jun-20	15 9:13 AM	1	00:05:08	1
Exception Summary Report Name	Report ID	Module Code	Error Code	00:05:08	Error Description
Exception Summary Report Name Maturities Due Report	Report ID TD102	15 9:13 AM Module Code TD	Error Code Time Of Last Up	00:05:08	Error Description javax.xml.vs.soap.SOAPFaultException: oracle.xdo.webservice.exception.AcressPeni
Exception Summary Report Name Maturities Due Report	Report ID TD102	15 9:13 AM Module Code TD	Error Code Time Of Last Up javax.xml.ws.soa oracle.xdo.websk	00:05:08 iate : 2015-06-02 14:38:11.411 p.SOAPFaultException: rvice exception AccessDeniedException:	Error Description javax.xml.ws.soap.SOAPFaultException: oracle.xdo.webservice.exception.AccessDeni edException: java.lang.SecurityException:
Exception Summary Report Name Maturities Due Report	Report ID TD102	15 9:13 AM Module Code TD	Error Code Time Of Last Up javax.xml.ws.soa oracle.xdo.webss java.lang.Securit	00:05:08 iate: 2015-06-02 14:38:11.411 p.SOAPFaultException: rvice exception AccessDeniedException: Exception Pailed to log into BI Publisher	Error Description javax.xml.vs.soap.SOAPFaultException: oracle.xdo.webservice.exception.AccessDeni edException.java.lang.SecurityException: Failed to log into BI Publisher: invalid
Exception Summary Report Name Maturities Due Report Account/ Denseit	Report ID TD102	Module Code TD	Error Code Time Of Last Up javax.xml.vs.soa oracle.xdo.websd java.lang.Securit invalid username Time Of Last Un	00:05:08 iate : 2015-06-02 14:38:11.411 p.SOAPFaultException: rvice.exception.AccessDeniedException: Cxception: Failed to log into BI Publisher or password. Iate : 2015-06-02 14:38:11 374	Error Description javax.xml.ws.soap.SOAPFaultException: oracle.xdo.webservice.exception.AccessDeni edException: java lang.SecurityException: Failed to log into BI Publisher: invalid username or password. javax yml.ws.soap.SOAPEaultException:
Exception Summary Report Name Maturities Due Report Account/ Deposit Exceptions	Report ID TD102 TDEXCP	Module Code TD TD	Error Code Time Of Last Up javax.xml.ws.soa oracle.xdo.websk java.lang.Securit invalid username Time Of Last Up javax.xml.ws.soa	00:05:08 iate : 2015-06-02 14:38:11.411 p.SOAPFaultException: Fixception: Failed to log into BI Publisher or password. Iate : 2015-06-02 14:38:11.374 p.SOAPFaultException:	Error Description javax.xml.vs.soap.SOAPFaultException: oracle.xdo.webservice.exception.AccessDeni edException: java.lang.SecurityException: Failed to log into BI Publisher: invalid username or password. javax.xml.vs.soap.SOAPFaultException: oracle.xdo.webservice.exception.AccessDeni
Exception Summary Report Name Maturities Due Report Account/ Deposit Exceptions	Report ID TD102 TDEXCP	Module Code TD TD	Error Code Time Of Last Upp javax xml.ws.soa oracle.xdo.webse java.lang.Securit invalid username Time Of Last Upp javax xml.ws.soa oracle.xdo.webse	00:05:08 iate: 2015-06-02 14:38:11.411 p.SOAPFaultException: rvice:exception.AccessDeniedException: exception.Failed to log into BI Publisher or password. tate: 2015-06-02 14:38:11.374 p.SOAPFaultException: rvice:exception.AccessDeniedException:	Error Description javax.xml.ws.soap.SOAPFaultException: oracle.xdo.webservice.exception.AccessDeni edException: java lang.SecurityException: Failed to log into BI Publisher: invalid username or password. javax.xml.ws.soap.SOAPFaultException: oracle.xdo.webservice.exception.AccessDeni edException: java.lang.SecurityException:
Exception Summary Report Name Maturities Due Report Account/ Deposit Exceptions	Report ID TD102 TDEXCP	Module Code TD TD	Error Code Time Of Last Up javax.xml.ws.soa oracle.xdo.webss java.lang.Securit invalid username Time Of Last Up java.ang.Securit java.lang.Securit	00:05:08 late : 2015-06-02 14:38:11.411 p.SOAPFaultException: rvice.exception AccessDeniedException: Vexception: Faultet to log into BI Publisher ate: 2015-06-02 14:38:11.374 p.SOAPFaultException: rvice.exception.AccessDeniedException: rvice.exception.AccessDeniedException:	Error Description javax.xml.ws.soap.SOAPFaultException: oracle.xdo.webservice.exception.AccessDeni edException: java lang.SecurityException: Failed to log into BI Publisher: invalid username or password. javax.xml.ws.soap.SOAPFaultException: oracle.xdo.webservice.exception.AccessDeni edException: java lang.SecurityException: Failed to log into BI Publisher: invalid
Exception Summary Report Name Maturities Due Report Account/ Deposit Exceptions Metwood Deposit Exceptions	Report ID TD102 TDEXCP	Module Code TD TD TD	Error Code Time Of Last Up javax.miv.es.coa oracle.xdo.webs. java.lang.Securit invalid username Time Of Last Up javax.miv.es.coa oracle.xdo.websa java.lang.Securit invalid username Time Of Last Up	00:05:08 iate: 2015-06-02 14:38:11.411 p.SOAPFaultException: rvice exception AccessDeniedException: Exception: Failed to log into BI Publisher or password. p.SOAPFaultException: rvice exception AccessDeniedException: rvice exception Acces	Error Description javax xml vs. soap.SOAPFaultException: oracle xdo.webservice.exception.AccessDeni edException: java lang.SecurityException: Failed to log into BI Publisher: invalid username or password. Failed to log into BI Publisher: invalid username or password. Failed to log into BI Publisher: invalid username or password.
Exception Summary Report Name Maturities Due Report Account/ Deposit Exceptions Matured Deposits with Notice uniferent	Report ID TD102 TDEXCP	Module Code TD TD TD	Error Code Time Of Last Up java. Iang Securit java. Iang Securit java. Iang Securit Time Of Last Up javax.rml.vs.soo oracle.xdo.websi java. Iang. Securit java. Securit ja	00:05:08 iate : 2015-06-02 14:38:11.411 p.SOAPFaultException: rvice exception AccessDeniedException: Picxeption: Failed to log into BI Publisher or password. Iate : 2015-06-02 14:38:11.374 p.SOAPFaultException: Fixeeption: Failed to log into BI Publisher or password. Iate : 2015-06-02 14:38:11.347 ns SOAPFaultException:	Error Description javax xml.ws.soap.SOAPFaultException: oracle.xdo.webservice.exception.AccessDeni edException.java lang.SecurityException: Failed to log into BI Publisher: invalid username 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. javax xml.vs.soap.SOAPFaultException: javax xml.vs.soap.SOAPFaultException:
Exception Summary Report Name Maturities Due Report Account/ Deposit Exceptions Matured Deposits with No Instructions	Report ID TD102 TD103	Module Code TD TD TD	Error Code Time Of Last Up javax.rml vs.soo oracle.xdo.webs; java lang.Securit irvalid username Time Of Last Up javax.rml.vs.soo oracle.xdo.webs Time Of Last Up javax.rml.vs.soo oracle.xdo.webs	00:05:08 iate : 2015-06-02 14:38:11.411 p.SOAPFaultException: rvice.exception AccessDeniedException: Faxeption: Failed to log into BI Publisher or password. Jate : 2015-06-02 14:38:11.374 p.SOAPFaultException: rvice.exception AccessDeniedException: rvice.exception.accessDeniedException: p.SOAPFaultException: p.SOAPFaultException:	Error Description javax.xml.vs.soap.SOAPFaultException: oracle.xdo.webservice.exception.AccessDeni edException: java.lang.SecurityException: Failed to log into BI Publisher: invalid username or password. javax.xml.vs.soap.SOAPFaultException: racle.xdo.webservice.exception.AccessDeni edException: java lang.SecurityException: ravale.xdo.webservice.exception.AccessDeni username or password. javax.xml.vs.soap.SOAPFaultException: oracle.xdo.webservice.exception.AccessDeni edException: java lang.SecurityException:
Exception Summary Report Name Maturities Due Report Account/ Deposit Exceptions Matured Deposits with No Instructions	Report ID TD102 TDEXCP	Module Code TD TD TD TD	Error Code Time Of Last Up javax xml vs. soo oracle xdo webs java.lang.Securit invalid username Time Of Last Up javax.xml vs. soo oracle xdo.webs java.lang.Securit invalid username Time Of Last Up javax.xml vs. soo oracle xdo.webs java.lang.Securit	00:05:08 iate: 2015-06-02 14:38:11.411 p.SOAPFaultException: rvice exception AccessDeniedException: rvicesexeption Pailed to log into BI Publisher or password. tate: 2015-06-02 14:38:11.374 p.SOAPFaultException: rvice.exception AccessDeniedException: rvice.exception AccessDeniedException: rvice exception AccessDeniedException: rvice exception AccessDeniedException: rvice exception AccessDeniedException: rvice exception AccessDeniedException: rvice acception AccessDeni	Error Description javax.xml.ws.soap.SOAPFaultException: oracle.xdo.webservice.exception.AccessDeni edException: java lang.SecurityException: Failed to log into BI Publisher: invalid username or password. javax.xml.ws.soap.SOAPFaultException: oracle.xdo.webservice.exception.AccessDeni edException: java lang.SecurityException: javax.xml.ws.soap.SOAPFaultException: javax.xml.ws.soap.SOAPFaultException: javax.xml.ws.soap.SOAPFaultException: Failed to log into BI Publisher: invalid username or password. javax.xml.ws.soap.SOAPFaultException: Failed to log into BI Publisher: invalid edException: java lang.SecurityException: Failed to log into BI Publisher: invalid

Exception Log Table

The figure below provides the details of the exception log.

Figure 9–28 Exception Log Table

ERROR CODE	ERROR DESCRIPTION	SUMMARY
kException: An error occurred in batch process.862-8203-0444- 6360		
Time Of Last Update : 2013-09-11 11:28:51.438 Error reference Number :882-8182-2552-7227Error 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: An error occurred in batch process.862-8206-5767- 2044	com.ofss.fc.framework.batch.exception.BatchFrameworkException: An error occurred in batch process. at com.ofss.fc.framework.batch.process.BatchProcess.execute(BatchProcess.java:910) at com.ofss.fc.framework.batch.process.RecoverableBatchProcess.executeBatch(RecoverableB atchProcess.java:432) at com.ofss.fc.framework.batch.process.RecoverableBatchProcess.processBatch(RecoverableB atchProcess.java:432)	

9.2.3 Histogram of Shell Attribute Comparison

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





9.3 ODI Batch Handoff Monitoring

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

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

Figure 9–30 Input Parameters for Batch Handoff

	OPA <u>0</u> 03 ×													
Monit	or Batch Perform	nance												
										¢.	Print	✓ 0 <u>k</u>	👂 Clear	🛛 Exit
								Ref	fresh Tim	e 03-Jun-20	15 11:12:3	34 AM GM	T+05:30	<u>ල</u> ා ,
												Auto Refrest	Off	~
		Select Category	Analytics Batch D	*				Job Type	GROUP					
		Processing Date 1	5-Dec-2016	- 0 0				Job Code	BRN_G	RP_1 Q				
									⊿ Adh	loc Genera	te and V	iew		
											Genera	te Docume	vie nt Do	:W
														cument
⊿ Ba	atch Summary													
	Category Nar Stat	ne Analytics Batch I us ABORTED	Data Hand-off	Es	Start Time timated Completion Time	28 May 2015 16:11: 03 Jun 2015 11:27:3	19 4 *		Elaj	Wait Time (02:29:36 139:01:15			
	# of Abo	rts 12			Status	DELAYED BY 8356	mins							- 1
⊿ sr	nell Details													କ୍ର
Clear	All Filters													
View	Export To	Excel	Detach											
		~												
	Name of Shell	State	Trend	Duration	No of Aborts	Throughput	Total Records	Status		Expected Co	mpletion 1	ime		
•	Analytics Hand	Complete	Trend	00:00:00		-	-	0%	100'	-				
•	Analytics Data	Complete	Trend	00:01:07		-	-	0%	100'	-				
×.	Analytics epilog	Aborted	Trend	139:00:08	12	-	-			-				

Execution Unit

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

This table contains the following attributes:

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

Figure 9–31 Execution Unit

	ff Details							
Module Code	ום	Wa	it Time -			Pending Time -		
Number of Streams		No of	Aborts			commentCount 0		
Start Time	2015-05-28 16:11:19	Records Pro	cessed -					
Fed Time		5-1-4 D						
End lime	2015-05-28 16:12:26	Failed R	ecords -					
Analytics Data Hand-O	off Notes							
Add New Note								
- Add New Note								
Add New Note								
Add New Note	Start Time	End Time	No Of Aborts	Duration	Service Provider	Execution Status	Records Processed	
Add New Note ecution Unit KG_LN_CONTRACT_INTERF	Start Time ACES 28-May-2015 16.12.3	End Time 28-May-2015 16:13:34	No Of Aborts	Duration 00:01:07	Service Provider ODI_SERVICE_PROVIDER	Execution Status	Records Processed	
Add New Note ecution Unit KG_LN_CONTRACT_INTERF K0_ACCOUNT_RATE_TIERS	Start Time ACES 28-May-2015 16.12: 3 28-May-2015 16.12:	End Time 28-May-2015 16:13:34 28-May-2015 16:12:41	No Of Aborts 0	Duration 00:01:07 00:00:15	Service Provider ODL_SERVICE_PROVIDER ODL_SERVICE_PROVIDER	Execution Status C C	Records Processed	
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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.

Fiaure	9-32	Abort	Statistics

20	Monitor Batch P	erformance											
									🚔 Print	✓ O <u>k</u>	🤣 C <u>l</u> ear	🛛 E	xit
													*
	Execution Unit	Start Time	End Time	No Of Aborts	Duration	Service Provider	Execution Status	Records Processed					
	PKG_TD_INTE	28-May-2015 1	28-May-2015 1	1	02:21:54	ODI_SERVICE	С						•
	PKG_PM_INTE	28-May-2015 1	28-May-2015 1	0	00:00:19	ODI_SERVICE	С						
	PKG_PARTY_F	28-May-2015 1	28-May-2015 1	0	00:00:29	ODI_SERVICE	С						
	PKG_PI_INTER	28-May-2015 1	28-May-2015 1	0	00:00:43	ODI_SERVICE	С						
	PKG_OR_INTE	28-May-2015 1	28-May-2015 1	0	00:00:56	ODI_SERVICE	С						
	PKG_MITIGAN	28-May-2015 1	28-May-2015 1	0	00:00:49	ODI_SERVICE	С						
	PKG_LN_INTE	28-May-2015 1	28-May-2015 1	0	00:00:49	ODI_SERVICE	С						
•	PKG_GL_INTE	28-May-2015 1	28-May-2015 1	0	00:00:11	ODI_SERVICE	С						
	PKG_FACILITY	28-May-2015 1	28-May-2015 1	0	00:00:41	ODI_SERVICE	С						
	PKG_DDA_INT	28-May-2015 1	28-May-2015 1	1	01:54:50	ODI_SERVICE	С					-	
	View 🔻 🗐	Detach											1
	ErrorCode	ProcessResult	BranchCode	BranchGroupCode	RunCount	ErrorDesc	Su	nmaryText					
	2	2	1010	BRN_GRP_1	0	Failure at Int.STG	_TD_MAS PK	3_TD_INTERFACES					

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

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I	OPA203										
	Monitor Batch	Performance								i 📾 Print 🗸 Og	🕈 Clear 🖬 Exit
	PKG_OR_INTER	FACES	24-Jun-201-	1 24-Jun-2014	1 1	00.00.04	ODL_SERVICE_PROVIDER	A			
	PKG_MTIGANT_	INTERFACES	24-Jun-201-	1 24-Jun-2014	1 1	00.00.05	ODI_SERVICE_PROVIDER	A			
	PKG_UN_INTER	FACES	24-Jun-201-	1 24-Jun-2014	1 1	00.00.05	ODL_SERVICE_PROVIDER	A			
	PKG_GL_INTER	FACES	24-Jun-201-	1 24-Jun-2014	1 1	00:00:04	ODI_SERVICE_PROVIDER	A			
	PKG_FACILITY_	NTERFACES	24-Jun-201-	1 25-Jun-2014	0 2	13.43.42	ODI_SERVICE_PROVIDER	A			
	PKG_DOA_INTE	RFACES	24-Jun-201-	1 25-Jun-2014	0 2	13:43:39	ODL_SERVICE_PROVIDER	A			
	PKG_CUST_INT	ERFACES	24-Jun-201-	1 24-Jun-2014	1 1	00.00.15	ODI_SERVICE_PROVIDER	A			*
											•
	2 2 000000 BKR_GRO_1 0 Patro at INISTO_TD_MASTER. Check Operator logs at 2014-06-24 19 22 01 0 for further datais. ICK_GROME										
	Relative Perfo Compare Date	mance Summary 144eo-2017 (§) 9 DATE: 2014-00-23	hell Attribute Records	Processed •) Modul	•	Company	F=152110/COMPARIENT	DATA # (SERVER		VICE NAME *

10 Application Monitoring Using EM Plugin

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

10.1 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.

10.1.1 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
▲	Indicates warnings
ได้	Indicates metric collection error
~	Indicates healthy status

Table 10–1 Notations in EM

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

Figure 10–1 Oracle Enterprise Manager

	ager Cloud Control 13	с							4	Enterp	orise	▼ ⊚ <u>T</u> argets ▼ ★ <u>F</u> avorites ▼ ()	History •	Setup 🔻	(SMO	KEPROD261_L	USER 🔻 🚥
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				5	0	F	Perfor	man	ı U	sage	•		Status		Incid	ents	Key Tests Status Monitoring Beacons 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1		
					•	•	3	1	8		*		510105	•	8	4	•	Status	Beacons
OBP_SMOKEPROD261_SOA_Service	Generic Service	+	Tests	-	-			-	-	-	-	/SMOKEPROD261_SOA_mum00aba_in_oracle_c /base_domain/soa_server1/soa-infra	n/a	0	0	0	0	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	-	-	-		-	-	-	-	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
OBP_SMOKEPROD261_OID_Service	Generic Service	+	Tests	-		-		-	-	-	-	/SMOKEPROD261_OID_ofss3121155_in_oracle /IDMDomain	n/a	0	0	0	0	1	1
OBP_SMOKEPROD261_View	Aggregate Service	+	Sub	-	-			-	-	-	-	n/a	4 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 BIP, IPM, Documaker, ATM and POS channels are also part of the environment view.

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

10.1.2 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

		ise Manager Clou	d Control 13c						nterprise 🔻	<u> </u>		vorites •	History	- Ø	<u>S</u> etup ▼	0	SYS	SMAN 🔻 🚥
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	. 30		~						~				~	F	JMS Serv	er Metrics		~

Figure 10–2 UI Cluster in EM

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

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

The following figure displays the WebLogic domain for UI.

Figure 10–3 WebLogic Domain for UI

	e Ma	anager Cloud Control 13c	Interprise ▼ (◎) Interprise ▼ (▲) Interprise ▼ (▲) SySMAN ▼
ui_domain 🚯			ets310524 in oracle com
🗧 😸 WebLogic Domain 👻	•	Startup Shutdown	D Page Refreshed Nov 3, 2017 4:21:28 AM GNT 🕥
Summary		General	
Administration Server Administration Server Nov 2, 2017 10:55:32 AM GMT WebLogic Domain Refreshed	Þ	Administration Server Administration Server Host Listen Port SSL Listen Port WebLogic Domain Refreshed Version	AdmiServer ofs310524 in oracle.com 7001 7002 Nov 2, 2017 10:55:32 AM GMT 12:21:2.0
2 up	•	Domain Home JRF Monitoring and Diagnostics	/scratch/ap/product/fmw/user_projects/domains/ui_domain Full
Clusters	•	Incidents Descendant Target Incidents Configuration Changes	0 0 34
Deployments		Diagnostic Findings Support Workbench Problems	s 0 s ⊗2
~			

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

The following figure displays the metrics chart.

Figure 10–4 Metrics Chart



10.1.3 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 10–5 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 10–6 Host Target in EM

OF		Enterp	orise N	Manager Cloud Control 13c			Enterprise V	() <u>T</u> argets ▼	★ <u>F</u> avorites ▼	B History ▼	Setu	0	.	SYSMAN ¥
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t		>>	►	Startup »						0	Page Refre	shed No	v 3, 2017	5:59:34 AM GMT 🖒
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	1	AdminServe	er	Administration S	erver	AdminServer								
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1		2 up	₽	Domain I	lome	/scratch/app/product/fmw/user_projects/domains/host_domain								
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The following figure displays the metric charts.

Figure 10–7 Metrics Chart

JRACLE Enterprise Manager Cloud Control 13c	👔 Enterprise 🔻 🎯 Targets 🔻 🍸 Escontes 🔻 🕒 History 🔻 🍄 Setup 👻 🔍 🎩 SYSMAN 🖲
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/ Memory	
6000	×
£ 200	Heep Usage (MB)
0	

10.1.4 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 10–8 Viewing Process List

ORACLE Enterprise Manager Cloud Control 13c	Enterprise V	<u>_</u>	rgets 🔻	Eavorites	• 🕒	Hist <u>o</u> ry ▼	Ø <u>S</u> e	tup 🔻 🔍		SYSMAN 🔻 🔹
🕇 soa-infra (soa_server1) 🚯									📕 ofssi	8121918.in.oracle.co
🗄 👯 SOA Infrastructure 🔻 🕨 Startup 🔳 Shutdown 🌿 Create Blackout 🕓 End Black						(Page Refreshed I	lov 3, 2017 6	05:10 AM GMT 🖒
Home Deployed Composites Dehydration Store Performance Faults and Rejected Messages Error H										
Composite Table List of SOA Composites deployed on the SOA Infra. To trace a instance, select a Composite and dick 'Trace in Search Show Deployment Details									Comp	osite Heat Map
						SOA Com	ponent Ro	llup		
Composite		Status	Messages (per minute)	Errors (per minute)	Error Rate (%)	System Faults	Business Faults	Recoverable Faults	WS Policy Violations	Composite Instances
et all a default/com.ofss.fc.approval.submissionfinancialspi_submitfinancialcapture [1.0]		1	0.00	0.00	0.00	0	0	0	0	0 ^
et default/com.ofss.fc.approval.oreditdecisionspi_waivecollateralvaluation [1.0]		1	0.00	0.00	0.00	0	0	0	0	0
No default/com.ofss.fc.workflow.process.CapturePartyFinancials [1.0]		1	0.00	0.00	0.00	0	0	0	0	0
et default/com.ofss.fc.workflow.process.ProcessLoanRollover [1.0]		1	0.00	0.00	0.00	0	0	0	0	0
et default/com.ofss.fc.workflow.process.StructureDepositSolution [1.0]		1	0.00	0.00	0.00	0	0	0	0	0
et default/com.ofss.fc.workflow.process.ProcessCreditCardApplication [1.0]		1	0.00	0.00	0.00	0	0	0	0	0
og default/com.ofss.fc.approval.hardshipreliefrequestspi_applyhardshiprelief [1.0]		+	0.00	0.00	0.00	0	0	0	0	0
et default/com.ofss.fc.workflow.process.ProvisionIdentity [1.0]		1	0.27	0.00	0.00	0	0	0	0	4
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10.1.5 Security Stack (OID and OAM)

OID and OAM are also deployed as WebLogic domain.

Figure 10–9 OID WebLogic Domain



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

These are not part of 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 BIP as well as documaker. From EM, we check whether that webservice is up and running or not, which gives the status of these components. The following figure displays the status from EM.

Figure 10–10 Document Generation Status

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

BIP is also deployed on WebLogic domain.

Figure 10–11 BIP Deployment

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~						ochio;	,

10.1.7 ATM and POS (Point Of Sales) Channels

ATM and POS work on socket listener mechanism.

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

The following figure displays the status from EM.

Figure 10–12 EM Monitoring



10.1.8 Outbound OFSAA call

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 10–13 Web Monitoring



10.1.9 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.

10.1.9.1 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.

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BP View 🔻							Pag	Refreshed Nov 4, 2017 1	11:19:4				
Summary	Application Services User Interface Origination User Integration Batch Monitoring												
Status	EOD F BRN_GRP_1 V												
Un Since Nov 2 2017 6:37 on IST	sheliName	duration	noOfAborts	throughput	totalRecord	s processedCo	startTime	endTime					
Availability % 100.0%	ac_action_relog_sh	00:00:00	0	0	0	0	03-nov-2017 10:16	03-nov-2017 10:16					
······	ac_bundle_exp_poller	00:00:00	0	0	0	0	03-nov-2017 16:47	03-nov-2017 16:47					
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	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 16:48	03-nov-2017 16:45					
	dd_eod_action2	00:00:00	0	0	0	0	03-nov-2017 16:46	03-nov-2017 16:46					
	dd_eod_action3	00:00:00	0	0	0	0	03-nov-2017 16:46	03-nov-2017 16:46					
	dd_eod_action4	00:00:00	0	332	2	2	03-nov-2017 16:46	03-nov-2017 16:46					
	dd_eod_action5	00:00:00	0	0	0	0	03-nov-2017 16:47	03-nov-2017 16:47					
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	Demand Deposit EC 1 1 194		193	193 15		193	obphost_server1	COBPB2					

Figure 10–14 Database Server Info

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

The following figure displays the status from EM.

Figure 10–15 Batch Monitoring Status

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Figure 10–16 Batch Configuration

	r Cloud Control 13c	orise 🔻 🤅	<u> <u> </u> </u>	★ <u>Favorites</u> ▼	History V	Setup V	् 🌲	SYSMAN ¥
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	Active Inreads High							
	Low							
	# DB ThroughPut							
Figure 10–17 WebLogic Service Info



10.1.9.2 Application Monitoring

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

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

10.1.9.2.1 Application Services

This section provides performance metrics for all application services executed on 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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Figure 10–18 Application Metrics of Application Services for all servers in cluster

Expand CLUSTER to get a list of all the servers.

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

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

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	Fetch Submission Summ	BRN	WL000	337.571428	498	168	7	false		168, 233, 3	UPWARDS	Transaction	obphost_se	Submission
	Fetch Parameters For Off	BRN	WL000	810.111111	13638	24	18	false		33, 24, 25,	NEUTRAL	Transaction	obphost_se	Submission
	Fetch Non Financial Instr	BRN	ACCT003	886	1156	616	2	false		1156, 616	DOWNWAR	Transaction	obphost_se	OperatingIr
	Fetch Accounts	BRN	WL000	106	178	34	2	false		178, 34	DOWNWAR	Transaction	obphost_se	Submission

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

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

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

Sr. No.	Column Name	Description
2	Channel	Channel through which the transaction occurred Valid Values: Branch, ATM, and POS.
3	Task Code	Task code of the 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

10.1.9.2.2 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 10–20 Application Metric for all UI servers in cluster

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



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Status	Show Cluster Details													
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The following table explains each column of the table present in the given snapshot:

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

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

Sr. No.	Column Name	Description
		Valid Values: Branch, ATM, and POS
3	Task Code	Task code of the 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

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

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

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

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	Basic BeforeStepExit	BRN	OR097	633	633	633	1	false		633		Transaction	obpui_serve	BasicStepH	e
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The following table explains each column of the table present in the given snapshot:

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

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

Sr. No.	Column Name	Description
2	Channel	Channel through which the transaction occurred Valid Values: Branch, ATM, and POS.
3	Task Code	Task code of the 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

10.1.9.2.4 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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Figure 10–24 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 10–25 Application Metrics of all outbound services called from selected server

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

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

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

Sr. No.	Column Name	Description
3	Task Code	Task code of the 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

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11 Configuration Export-Import Operations

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

11.1 Objective

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

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

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

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

11.2 Export

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

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

11.3 Import

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

11.4 Export All

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

Export Request

Export request xml is provided below:

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

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

Export Response

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

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

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

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

11.5 Import All

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

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

Import Request

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

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

Import Respose

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

11.6 Config Compare

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

such as it contains following information:

Present only in TO database (presently working environment)

Present only in FROM database (configurable DB environment)

Present in both, but data is different

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

11.7 Data Store Configuration

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

11.7.1 DB Data Store

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

1. In FLX_FW_CONFIG_ALL_B table, maintain DataSourceType=File

select *from flx_fw_config_all_b where category_id='DataSourceDestination' and prop_ id='DataSourceType'

Note

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

11.7.2 File Data Store

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

1. In FLX_FW_CONFIG_ALL_B table, maintain DataSourceType=FILE.

select * from flx_fw_config_all_b where category_id='DataSourceDestination' and prop_ id='DataSourceType'

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

Figure 11–1 File Data Store

📝 /scratch	/app/p	rodu	ct/fn	nw∕u	ser_p	oroje	ects/	doma	ains/	host	_don	nain/b	in/se	tDomainEr	nv.sh -	OCH_	HOST	_10.1	80.5.	23	-	
📠 🖩 💈		χ (Ē	×	a	кO	CI	<i>i</i> 4	pa A≯B	M.	•	•	1									
						_																_
Le=\${logE	rrors	[oCo	nsol	leFla	ag}	-Df	Ec.i	o.di	ir=/	scr	atch	/app	/pro	duct/fmw	/obpi	nsta	ll/ob	op/E	xpor	t_Im	port'	'

11.7.2.1 Configuration for Export

The configuration for export requires the following changes:

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

select * from flx_fw_config_all_b where category_id='DataSourceDestination' and prop_ id='ExportLoggingPath'.

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

11.7.2.2 Configuration for Import

The configuration for import requires the following changes:

1. Set **ImportLoggingPath** variable in **FLX_FW_CONFIG_ALL_B** to the directory from where the exported response has to imported.

select * from flx_fw_config_all_b where category_id='DataSourceDestination' and prop_ id='ImportLoggingPath'

/scratch/app/product/fmw/obpinstall/obp/Export_Import/runarea/DEMO_BANK/export will be set as **ImportLoggingPath** in our case.

11.8 How to Export Records

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

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

11.8.1 Exporting Single Record

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

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

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

The request parameters to this service are:

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

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

Sample request and response are as follows:

Export Single Request

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

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

Export Single Response

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- <actiondtoepapp:alertTemplate>

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

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

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

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

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

```
<dtocommondomainframework:version>1</dtocommondomainframework:vers
ion>
```

```
- <ruleactiondtoepapp:keyDTO>
```

```
<ruleactiondtoepapp:id>0</ruleactiondtoepapp:id>
```

```
</ruleactiondtoepapp:keyDTO>
```

```
- <ruleactiondtoepapp:rule>
```

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

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

```
<dtocommondomainframework:version>1</dtocommondomainframework:vers
ion>
```

```
<ruleactiondtoepapp:description>Invokes the default
rule</ruleactiondtoepapp:description>
<ruleactiondtoepapp:keyDTO />
<ruleactiondtoepapp:name>defaultRule</ruleactiondtoepapp:name>
```

```
<ruleactiondtoepapp:ruleClass>com.ofss.fc.domain.ep.service.action
.rule.DefaultRuleHandler</ruleactiondtoepapp:ruleClass>
```

```
<ruleactiondtoepapp:ruleEngine>INTERNAL</ruleactiondtoepapp:ruleEngine>
```

```
</ruleactiondtoepapp:rule>
```

```
</actiondtoepapp:decisionAgent>
```

```
- <actiondtoepapp:expiryDate>
```

<datatype:dateString>20991231000000</datatype:dateString>

```
</actiondtoepapp:expiryDate>
<actiondtoepapp:isConditional>false</actiondtoepapp:isConditional>
<actiondtoepapp:isRetryAllowed>true</actiondtoepapp:isRetryAllowed>
<actiondtoepapp:isTransactional>false</actiondtoepapp:isTransactio</pre>
nal>
- <actiondtoepapp:keyDTO>
<actiondtoepapp:actionId>A</actiondtoepapp:actionId>
<actiondtoepapp:activityId>com.ofss.fc.domain.lcm.batch.service.Ba
tchCovenantService.processNotificationForCompliance</actiondtoepap
p:activityId>
<actiondtoepapp:eventId>LM STATUS COV</actiondtoepapp:eventId>
</actiondtoepapp:keyDTO>
<actiondtoepapp:maxRetryCount>2</actiondtoepapp:maxRetryCount>
- <actiondtoepapp:recipientMessageTemplates>
<dtocommondomainframework:auditSequence>1</dtocommondomainframewor</pre>
k:auditSequence>
<dtocommondomainframework:generatedPackageId>false</dtocommondomai</pre>
nframework:generatedPackageId>
<dtocommondomainframework:version>1</dtocommondomainframework:vers</pre>
ion>
<subscriberactiondtoepapp:amount>0</subscriberactiondtoepapp:amoun
t >
<subscriberactiondtoepapp:bankerType>NA</subscriberactiondtoepapp:
bankerType>
<subscriberactiondtoepapp:conditional>false</subscriberactiondtoep
app:conditional>
- <subscriberactiondtoepapp:decisionAgent>
<dtocommondomainframework:auditSequence>1</dtocommondomainframewor</pre>
k:auditSequence>
<dtocommondomainframework:generatedPackageId>false</dtocommondomai</pre>
nframework:generatedPackageId>
<dtocommondomainframework:version>1</dtocommondomainframework:vers</pre>
ion>
- <ruleactiondtoepapp:keyDTO>
<ruleactiondtoepapp:id>0</ruleactiondtoepapp:id>
</ruleactiondtoepapp:keyDTO>
- <ruleactiondtoepapp:rule>
```

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

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

<dtocommondomainframework:version>1</dtocommondomainframework:vers
ion>
<ruleactiondtoepapp:description>Invokes the default
rule</ruleactiondtoepapp:description>
<ruleactiondtoepapp:keyDTO />
<ruleactiondtoepapp:name>defaultRule</ruleactiondtoepapp:name>

<ruleactiondtoepapp:ruleClass>com.ofss.fc.domain.ep.service.action .rule.DefaultRuleHandler</ruleactiondtoepapp:ruleClass>

<ruleactiondtoepapp:ruleEngine>INTERNAL</ruleactiondtoepapp:ruleEn gine> </ruleactiondtoepapp:rule>

</subscriberactiondtoepapp:decisionAgent>

- <subscriberactiondtoepapp:keyDTO>

<subscriberactiondtoepapp:actionId>A</subscriberactiondtoepapp:actionId>

```
<subscriberactiondtoepapp:activityId>com.ofss.fc.domain.lcm.batch.
service.BatchCovenantService.processNotificationForCompliance</sub
scriberactiondtoepapp:activityId>
```

<subscriberactiondtoepapp:destinationType>EMAIL</subscriberactiond toepapp:destinationType> <subscriberactiondtoepapp:eventId>LM_STATUS_ COV</subscriberactiondtoepapp:eventId> <subscriberactiondtoepapp:messageTemplateId>LCM_Covenant status is Complied</subscriberactiondtoepapp:messageTemplateId>

```
<subscriberactiondtoepapp:subscriberType>PARTY</subscriberactiondt
oepapp:subscriberType>
```

<subscriberactiondtoepapp:subscriberValue>CUSTOMER</subscriberacti ondtoepapp:subscriberValue> </subscriberactiondtoepapp:keyDTO>

```
<subscriberactiondtoepapp:recipientType>INTERNAL</subscriberaction
dtoepapp:recipientType>
</actiondtoepapp:recipientMessageTemplates>
</actiondtoepapp:activityEventActionDTO>
</ns14:return>
```

```
</nsl4:fetchActivityEventActionAndExportActivityEventActionRespons
e>
</S:Body>
</S:Envelope>
```

11.8.2 Exporting All Records

This operation is used to export all the entities of a given task code. The exported package can then be replicated into the target environment. All records of a Business configuration entity can be exported using the **FetchAllAndExport** method of **ExportImportApplicationService**.

The request parameters to this service are:

- SessionContext
- TaskCode

A 'configVersionNo' is returned in the response. This 'configVersionNo' will be used as an identifier to trigger an import into the target environment.

Sample request and response are as follows:

Export All Request

```
- <soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:exp="http://eximp.service.ops.app.fc.ofss.com/ExportImportAp
plicationService" xmlns:con="http://context.app.fc.ofss.com"
xmlns:exc="http://exception.infra.fc.ofss.com">
<soapenv:Header />
- <soapenv:Body>
- <exp:fetchAllAndExportExportImport>
- <!-- Optional:
-->
- <exp:sessionContext>
<con:bankCode>08</con:bankCode>
<con:businessUnit>OBP BU</con:businessUnit>
<con:channel>BRN</con:channel>
<con:marketEntity>SUN01</con:marketEntity>
<con:postingDateText>20130228000000</con:postingDateText>
<con:targetUnit>OBP BU</con:targetUnit>
<con:transactionBranch>089999</con:transactionBranch>
<con:userId>OFSSUser</con:userId>
</exp:sessionContext>
<exp:taskCode>AL04</exp:taskCode>
</exp:fetchAllAndExportExportImport>
</soapenv:Body>
</soapenv:Envelope>
```

Export All Response

- <S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
- <S:Header>

```
<work:WorkContext
xmlns:work="http://oracle.com/weblogic/soap/workarea/">r00ABXdWABx
3ZWJsb2dpYy5hcHAub2JwLXdlYnNlcnZpY2VzAAAA1gAAACN3ZWJsb2dpYy53b3JrY
XJlYS5TdHJpbmdXb3JrQ29udGV4dAAJMi4yLjAuMC4wAAA=</work:WorkContext>
</S:Header>
- <S:Body>
- <ns13:fetchAllAndExportExportImportResponse
xmlns:ns13="http://eximp.service.ops.app.fc.ofss.com/ExportImportA
pplicationService" xmlns:ns12="http://ops.enumeration.fc.ofss.com"
xmlns:ns11="http://fact.enumeration.fc.ofss.com"
xmlns:ns10="http://enumeration.fc.ofss.com"
xmlns:exceptioninfra="http://exception.infra.fc.ofss.com"
xmlns:validationdtoapp="http://validation.dto.app.fc.ofss.com"
xmlns:datatype="http://datatype.fc.ofss.com"
xmlns:contextapp="http://context.app.fc.ofss.com"
xmlns:dtocoreseedopsapp="http://dto.core.seed.ops.app.fc.ofss.com"
xmlns:dtocommondomainframework="http://dto.common.domain.framework
.fc.ofss.com"
xmlns:errorvalidationinfra="http://error.validation.infra.fc.ofss.
com" xmlns:opsapp="http://ops.app.fc.ofss.com"
xmlns:responseservice="http://response.service.fc.ofss.com">
- <ns13:return>
<responseservice:configVersionId>186</responseservice:configVersio
nId>
- <responseservice:status>
<responseservice:errorCode>0</responseservice:errorCode>
<responseservice:extendedReply />
<responseservice:internalReferenceNumber>2016305031622003</respons
eservice:internalReferenceNumber>
<responseservice:isOverriden>false</responseservice:isOverriden>
<responseservice:isServiceChargeApplied>false</responseservice:isS
erviceChargeApplied>
- <responseservice:postingDate>
<datatype:dateString>20130228000000</datatype:dateString>
</responseservice:postingDate>
<responseservice:replyCode>0</responseservice:replyCode>
<responseservice:replyText>Operation completed
successfully.</responseservice:replyText>
<responseservice:spReturnValue>0</responseservice:spReturnValue>
</responseservice:status>
</ns13:return>
</ns13:fetchAllAndExportExportImportResponse>
</S:Body>
</S:Envelope>
```

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

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Figure 11–2 Exported Data

Figure 11–3 Exported Files

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JaPa	ACCT013 ACCT013 428	6/30/2014 6:47 PM	File	1 KB	
Java	AL03_AL03_182	6/30/2014 5:44 PM	File	575 KB	
Junit	AL04_AL04_342	6/30/2014 6:04 PM	File	274 KB	
🔓 kanika	ATM001_ATM001_254	6/30/2014 5:46 PM	File	5 KB	
Links	ATM002_ATM002_414	6/30/2014 6:47 PM	File	4 KB	
logs	BR001_BR001_241	6/30/2014 5:46 PM	File	7 KB	
My Documents	BRM01_BRM01_403	6/30/2014 6:45 PM	File	12 KB	
New folder (2)	CAL01_CAL01_43	7/16/2014 3:45 PM	File	1 KB	
New_UI_Workspace	CAL02_CAL02_399	6/30/2014 6:45 PM	File	92 KB	
OCH Workrosco	CASA023_CASA023_117	7/10/2014 3:20 PM	File	8 KB	
-#(1212	CASA0403_CASA0403_460	7/2/2014 3:13 PM	File	77 KB	
005	CNM01_CNM01_187	6/30/2014 5:44 PM	File	24 KB	
OWASD ZAD	CNM03_CNM03_347	6/30/2014 6:05 PM	File	49 KB	
Program Eler (v86) OLD	CNM09_CNM09_21	7/16/2014 11:28 AM	File	7 KB	
Program Files() D	CNM11_CNM11_349	6/30/2014 6:06 PM	File	1 KB	
R2RSunnort	CS01_CS01_200	6/30/2014 5:45 PM	File	4 KB	
123	C\$03_C\$03_466	7/3/2014 12:23 PM	File	64 KB	
report	CS06_CS06_176	6/30/2014 5:44 PM	File	7 KB	
Ruby Clients	CS10_CS10_4261	7/3/2014 6:36 PM	File	147 KB	
Softwares	CS15_CS15_239	6/30/2014 5:46 PM	File	4 KB	
Study	CS16_CS16_364	6/30/2014 6:19 PM	File	27 KB	
Study Material	CS17_CS17_178	6/30/2014 5:44 PM	File	5 KB	
🚡 tempdir	CS21_CS21_4262	7/3/2014 7:10 PM	File	99 KB	
Irunarea	CS22_CS22_206	6/30/2014 5:45 PM	File	10 KB	
Expressions		7/3/2014 7:42 PM	File	22 KB	
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🕌 OBP_BU		6/30/2014 5:45 PM	File	5 KB	
🕌 export		6/30/2014 5:45 PM	rile	42 KB	
🎉 rules		6/30/2014 5:46 PM	File	8 KB	
	- CY03_CY03_208	6/30/2014 5:45 PM	hilé	19 KB	

11.9 How to Import Records

Import Operations can be performed using webservice clients. This operation can be used to import either a single record or multiple records based on the requirement.

11.9.1 Importing Single Record

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

11.9.1.1 Using API Client

A single record of a business configuration entity can be imported using the **ExportImportApplicationService**, which provides an '**importAll**' method.

The request parameters to this service are:

- SessionContext
- TaskCode
- configVersionNo (from Export Single Record response)

The steps to import single record using API client are same as importing all records. These are mentioned in the further section.

Sample request and response are as below:

Import All Request

```
- <soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:exp="http://eximp.service.ops.app.fc.ofss.com/ExportImportAp
plicationService" xmlns:con="http://context.app.fc.ofss.com"
xmlns:exc="http://exception.infra.fc.ofss.com">
<soapenv:Header />
- <soapenv:Body>
- <exp:importAllExportImport>
- <!-- Optional:
-->
- <exp:sessionContext>
<con:bankCode>08</con:bankCode>
<con:businessUnit>OBP BU</con:businessUnit>
<con:channel>BRN</con:channel>
<con:marketEntity>SUN01</con:marketEntity>
<con:postingDateText>20130228000000</con:postingDateText>
<con:targetUnit>OBP BU</con:targetUnit>
<con:transactionBranch>089999</con:transactionBranch>
<con:userId>OFSSUser</con:userId>
</exp:sessionContext>
<exp:taskCode>AL04</exp:taskCode>
<exp:versionNo>186</exp:versionNo>
</exp:importAllExportImport>
</soapenv:Body>
</soapenv:Envelope>
```

Import All Response

```
- <S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
- <S:Header>
```

<work:WorkContext

```
xmlns:work="http://oracle.com/weblogic/soap/workarea/">r00ABXdWABx
3ZWJsb2dpYy5hcHAub2JwLXdlYnNlcnZpY2VzAAAA1gAAACN3ZWJsb2dpYy53b3JrY
XJ1YS5TdHJpbmdXb3JrQ29udGV4dAAJMi4yLjAuMC4wAAA=</work:WorkContext>
</S:Header>
```

```
- <S:Body>
```

```
- <ns13:importAllExportImportResponse
xmlns:ns13="http://eximp.service.ops.app.fc.ofss.com/ExportImportA
pplicationService" xmlns:ns12="http://ops.enumeration.fc.ofss.com"
xmlns:ns11="http://fact.enumeration.fc.ofss.com"
xmlns:ns10="http://enumeration.fc.ofss.com"
xmlns:exceptioninfra="http://exception.infra.fc.ofss.com"
xmlns:validationdtoapp="http://validation.dto.app.fc.ofss.com"
xmlns:datatype="http://datatype.fc.ofss.com"
xmlns:contextapp="http://context.app.fc.ofss.com"
xmlns:dtocoreseedopsapp="http://dto.core.seed.ops.app.fc.ofss.com"
xmlns:dtocommondomainframework="http://dto.common.domain.framework
.fc.ofss.com"
```

```
xmlns:errorvalidationinfra="http://error.validation.infra.fc.ofss.
com" xmlns:opsapp="http://ops.app.fc.ofss.com"
xmlns:responseservice="http://response.service.fc.ofss.com">
- <ns13:return>
<responseservice:errorCode>0</responseservice:errorCode>
<responseservice:extendedReply />
<responseservice:internalReferenceNumber>2016305031622004</respons
eservice:internalReferenceNumber>
<responseservice:isOverriden>false</responseservice:isOverriden>
<responseservice:isServiceChargeApplied>false</responseservice:isS
erviceChargeApplied>
<responseservice:replyCode>0</responseservice:replyCode>
<responseservice:spReturnValue>0</responseservice:spReturnValue>
</ns13:return>
</ns13:importAllExportImportResponse>
</S:Body>
</S:Envelope>
```

11.9.2 Importing All Records

This operation is used to import the records belonging to the given 'TaskCode' and 'configVersionNo' into the target environment. This method fetches the exported records based on the 'configVersionNo' and 'TaskCode', and upserts the same into the target environment. All records of a Business configuration entity can be imported using the ImportAII method of ExportImportApplicationService.

The request parameters to this service are:

- TaskCode
- ConfigVersionNo

For performing the import operation, the '**Config Data Source**' needs to be configured in the target environment, this datasource points to the database of the reference environments.

Sample request and response are as below:

Import All Request

```
<con:channel>BRN</con:channel>
<con:marketEntity>SUN01</con:marketEntity>
<con:postingDateText>20130228000000</con:postingDateText>
<con:targetUnit>OBP_BU</con:targetUnit>
<con:transactionBranch>089999</con:transactionBranch>
<con:userId>OFSSUser</con:userId>
</exp:sessionContext>
<exp: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
XJlYS5TdHJpbmdXb3JrQ29udGV4dAAJMi4yLjAuMC4wAAA=</work:WorkContext>
</S:Header>
```

```
- <S:Body>
```

```
- <ns13:importAllExportImportResponse
```

```
xmlns:ns13="http://eximp.service.ops.app.fc.ofss.com/ExportImportA
pplicationService" xmlns:ns12="http://ops.enumeration.fc.ofss.com"
xmlns:ns11="http://fact.enumeration.fc.ofss.com"
xmlns:ns10="http://enumeration.fc.ofss.com"
xmlns:exceptioninfra="http://exception.infra.fc.ofss.com"
xmlns:validationdtoapp="http://validation.dto.app.fc.ofss.com"
xmlns:datatype="http://datatype.fc.ofss.com"
xmlns:contextapp="http://context.app.fc.ofss.com"
xmlns:dtocoreseedopsapp="http://dto.core.seed.ops.app.fc.ofss.com"
xmlns:dtocommondomainframework="http://dto.common.domain.framework
.fc.ofss.com"
xmlns:errorvalidationinfra="http://error.validation.infra.fc.ofss.
com" xmlns:opsapp="http://ops.app.fc.ofss.com"
xmlns:responseservice="http://response.service.fc.ofss.com">
- <ns13:return>
<responseservice:errorCode>0</responseservice:errorCode>
```

```
<responseservice:extendedReply />
```

```
<responseservice:internalReferenceNumber>2016305031622004</respons
eservice:internalReferenceNumber>
<responseservice:isOverriden>false</responseservice:isOverriden>
<responseservice:isServiceChargeApplied>false</responseservice:isS
erviceChargeApplied>
<responseservice:replyCode>0</responseservice:replyCode>
```

```
<responseservice:spReturnValue>0</responseservice:spReturnValue>
```

```
</ns13:return>
</ns13:importAllExportImportResponse>
</S:Body>
</S:Envelope>
```

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

Figure 11–4 Importing Data Using SOAP UI - Storing Response

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Recycle bin	sele	ct * from	flx_ops_	config_data_item	a where	e task_code='PM01	11' and c	cont	ig ver_no='104'	and operation	n type='Import'	
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- Ibraries	2	<blob></blob>		04-06-2013 11:31:54 /	AM ·	moort	- SUCCESS		104	PM011		··· 8a3485
Directories	3	<blob></blob>		04-06-2013 11:31:54/	AM - I	mport "	- SUCCESS	***	104	PM011		··· 8a348F
Tables	4	<blob></blob>		04-06-2013 11:31:54 /	AM ·	mport "	- SUCCESS		104	PM011		··· 8a3485
Hews	F	<blob></blob>		04-06-2013 11:31:54 /	AM -	mport -	- SUCCESS		104	PM011		··· 8a348F
Materialized views	E	<blob></blob>		04-06-2013 11:31:54 /	AM ·	moort	success		104	PM011		··· 8a3485
Gequences	7	<blob></blob>		04-06-2013 11:31:54 /	AM I	mport "	success		104	PM011		··· 8a3485
Users Define	8	<blob></blob>		04-06-2013 11:31:54/	AM ·	mport	·· SUCCESS		104	PM011		··· 8a3485
Roles	9	<blob></blob>		04-06-2013 11:31:54 /	AM I	mport "	success		104	PM011		··· 8a3485
R- Synoryms	10	<blob></blob>		04-06-2013 11:31:55/	AM I	mport "	success		104	PM011		··· 8a3485
Database links	11	<blob></blob>		04-06-2013 11:31:55/	AM I	mport "	success	***	104	PM011		··· 8a3485
Tablespaces	12	<blob></blob>		04-06-2013 11:31:55/	AM •	mport "	success		104	PM011		··· 8a3485
E Custers	13	<blob></blob>		04-06-2013 11:31:55/	AM I	mport "	success		104	PM011		··· 8a3485
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11.10 Configuration Comparison

This section describes the details of configuration comparison.

11.10.1 Compare Business Configuration (Fast Path: OPA005)

This page is used to compare two entities on basis of its content.

It provides facility to compare Domain Objects, with same key, for a given task code. It aims at comparing the entities from two database which are termed as **TO** and **FROM** database. The comparison is such as it contains following information:

- Present only in TO database (presently working environment).
- Present only in FROM database (configurable DB environment).

• Present in both, but data is different.

11.10.2 Usage

The comparison results among entities can be generated by performing the following steps:

1. Open the OPA005 page, which loads all the entities configured in the table **flx_ops_task_defn**.

Figure 11–5 Entity Comparison

	OPA005 ×								
	Compare Busine	ss Configuratio	ins						
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		PLS002	PLS002 - Produ						
		PLS001	PLS001 - GAAP						
		PM002	PM002 - Define						
		CNM09	CNM09 - Layou						
		ACCT010	ACCT010 - War						
		PM034	PM034 - Produ						*

2. Select the option under **Select** column to do the comparison of configuration/configurations which shows the matching % of data in the two environment.

Figure 11–6 Entity Comparison Results

OPA005 ×	1				
Compare Busine	ess Configuratio	ns			
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		1			^
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0			1	0	1
View - Expo	rt 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			
0	PLS001	PLS001 - GAAP Code Definition			
	PM002	PM002 - Define CASA Bank Policy			
	CNM09	CNM09 - Layout Resolution Policy			
	ACCT010	ACCT010 - Warning Indicators			
	PM034	PM034 - Product Group Role Mapping			
	PM037	PM037 - Domain Category Accounting Entry Template			
	PM032	PM032 - Product Group Accounting Entry Template			
	PM025	PM025 - Link offers for Principal Offset Facility			

Progress bar denoting that the compare operation has finished.

Figure 11–7 Progress Bar

	OPA005	×				
	Compare Bus	iness Configura	tions			
				C.	🚔 Print 🗸 Ols 🧪 Clear 🖪 E	dt
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Ę	Select	Task Code	Task Description	Matching Percentage	Exception	
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		PLS003	PLS003 - Produ	100		
		PLS002	PLS002 - Produ	100		
		PLS001	PLS001 - GAAP			
		PM002	PM002 - Define			
		CNM09	CNM09 - Layou			
		ACCT010	ACCT010 - War			
		PM034	PM034 - Produ			÷

3. Select the % match to launch a pop up which shows the comparison result with different keys associated to it.

Figure 11–8 Comparison Details

В		Posting Date	15-Mar-2017										i •	* 4 *	▼ OFSSUse	er 🔻
			Account 🔻	Back Office 🔻	CASA 🔻	Collection v	Credit Car	d 👻 Insuranc	LCM ¥	Loan 🔻	Origination v	Party 🔻	Payment And Collection 🔻	Term Deposit 🔻	Fast Path	•
		05 ×				Comparis	son Details				×					
	Compare B	usiness Configuratio	ns													
						Comp	arison Res	ult Keys						🚔 Print 🗸	🗸 O <u>k</u> 🛷 C <u>l</u> ear	🔳 Exit
				4		View -	ER Detad	1								^
				4		Entity Key	To	F	rom							
	0					DormFMD	#201	(ormFMD#20151	230000000						
						1#201601	0200	1	#201601020000	00						
	View 🔻	Export To Excel				1#201512	3000	1	#201512300000	00						
	Select	Task Code	Task Description	Matching	Exceptio	1#201601	0100 1#2	016010100								
F				Percentage		DormAuto	1#20 00	mAuto1#20				_				
		PM008	PM008 - Dorma	16.67												
		PLS003	PLS003 - Produ	. 100												
	2	PLS002	PLS002 - Produ	. 100												
		PLS001	PLS001 - GAAP	100												
		PM002	PM002 - Define													Þ
		CNM09	CNM09 - Layou													-
		ACCT010	ACCT010 - War			_	_	_	_	_	_					
	0	PM034	PM034 - Produ													-

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

Figure 11–9 Attributes Difference

C	DRACLE	Posting Date	15-Mar-2017	Comparison Details X					🖌 🔻 🔆 🍬 👻 OFSSUser 💌 🔔			
	12110		Account 👻 Back Office 👻 CASA	. Compar	rison Result Keys			n v	Party 🔻	Payment And Collection 👻	Term Deposit 👻	Fast Path 🔺
	OP4005			View v	View 🗸 📄 Detach							
				Entity Key	То	From						
	Compare Busin	ess Configurati	ions	ACT#AU	ACT#AU	ACT#AU						
				NT#AU	NT#AU	NT#AU					🖨 Print 🕔	/ Ok 🛷 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 - Exp	ort To Excel										
	Select	Task Code	Task Description									
		COR17	COR17 - State Code Summary	2		Field Key L	ist					
		PM008	PM008 - Dormancy Rule Configuration	d Compar	rison Results							
-	•	PLS003	PLS003 - Product Ledger - Branch Parameters	View •	Detach							
	0	PLS002	PLS002 - Product Ledger - Bank Parameters	Label Value	То	From	Field A V					
		PLS001	PLS001 - GAAP Code Definition	State Name	Australian Capital	Australian Capital Territ.	State.stateName					
	0	PM002	PM002 - Define CASA Bank Policy									
	0	CNM09	CNM09 - Layout Resolution Policy									
		ACCT010	ACCT010 - Warning Indicators									
	0	PM034	PM034 - Product Group Role Mapping									
		PM037	PM037 - Domain Category Accounting Entry Template									
		PM032	PM032 - Product Group Accounting Entry Template									
		PM025	PM025 - Link offers for Principal Offset Facility									

11.11 Application Configuration

This section describes the application configuration details.

11.11.1 Cache Configuration

Configuration cache is where we cache configuration information (stored in the configuration tables in database or some files) for every application on each server in the farm.

The entire application configuration to be cached is pre-defined in **Preferences.xml**.

Sample entries in Preferences.xml are as below:

Preferences.xml

```
<Preferences>
<Nodes>
<Preference name="jdbcpreference"
PreferencesProvider="com.ofss.fc.infra.config.impl.PropertiesFileC
onfigProvider" parent="" propertyFileName="jdbc.properties"
syncTimeInterval="600000" />
<Preference name="ConfigurationVariable"
PreferencesProvider="com.ofss.fc.infra.config.impl.DBBasedProperty
Provider" parent="jdbcpreference" propertyFileName="select prop_id,
prop_value from flx_fw_config_var_b" syncTimeInterval="600000" />
<Preference name="ChannelConstants"
PreferencesProvider="com.ofss.fc.infra.config.impl.JavaConstantsCo
nfigProvider" parent="jdbcpreference"
propertyFileName="com.ofss.fc.common.ChannelConstantsConfiguration"
syncTimeInterval="600000" />
```

Important parameters in preferences.xml are as follows:

- **PreferencesProvider**: DB based provider, File base provider or Java constant base provider.
- propertyFileName: Describes the configuration source. Either sql query, file name or fully qualified Java constant class name.
- syncTimeInterval: Refresh time
- name: Acts as configuration key in the cache
- parent: Enables building the dependency hierarchy
- overriddenBy: This parameter specifies the name of preference which will override the current one.

12 Batch Shells in OBDLOCS

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

12.1 Batch Shells Description

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

Table 12–1 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	dd_auto_ statuschange	DDA Auto status change shell	DD	The shell marks the accounts whose last activity date is breached and can be either auto closed or identified for manual closure. Similarly based on last activity date, the account can be auto unclaimed or identified for unclaim that could be unclaimed after taking an operational decision.
6	1	End of Day	ins_quote_ exp_eod	Expire Quote EOD Shell	LM	This shell processes all the Insurance quote's quote status to Expired on quote expiry date.
7	1	End of Day	je_susp_bal_ shell	Journal Entry Suspense Balancing EOD Shell	JE	This shell checks if each of the single entry batches are balanced, and if not it passes a suspense entry into the branch suspense GL under the same branch. It checks for the balancing Branch wise (Contingent/Real) or Period Code wise.

Sr. No.	Process Category	Category Description	Shell	Shell Description	Module Code	Detailed Description
8	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.
9	1	End of Day	pc_value_ date_eod_sh	Value Date EOD Shell	PC	This shell moves the funds from unclear to clear balance, where float of instrument is getting over at EOD. This is the 1st shell that runs post cut off. Value Date Clearing shell is run for 0 Day float items. Hence, it becomes mandatory to run it with the current process date even though cut off has been run. This is taken care of by the Value Date Clearing Shell. As the float realization is derived based on branch dates, the date is always set to the working day of the branch.
10	1	End of Day	pi_srv_ord_ sta_eod	Service Order Deactivation EOD Shell	PI	This shell handles de-activation of Service Orders based on Service Order end date. (US localization specific shell)
11	1	End of Day	py_bank_val_ date_eod	Bank Value Date EOD Shell	ΡY	This shell will intimate the respective account modules (CASA\Loans\TD) on a given Bank Value Date for any valid transaction posted successfully in Payments module. The respective account module will update the Bank Float Balance bucket for the respective accounts on this date which is taken further for interest calculations. The funds are still not available for the customer.
12	1	End of Day	py_regcc_ sch_gen	Reg CC Schedule Generation EOD Shell	PY	This shell will pick the valid transactions posted in Payments module and generate the schedule of fund availability for the respective account (Reg CC capable CASA accounts only) as per the rules defined in the system for Reg CC. (US localization specific shell)
13	1	End of Day	py_regcc_ sch_rel_eod	Reg CC Schedule Release EOD Shell	ΡΥ	This shell will process only the accounts which follow the RegCC contract in the US localization. This shell will make funds available to the customer as per the generated schedule from "Reg CC Schedule Generation EOD Shell". (US localization specific shell)
14	1	End of Day	dd_inst_ rearrg_sh	DD Instruction Rearrangement For Calender Change	DD	This shell rearranges instruction pickup dates after calendar change for SI and sweep outs.
15	1	End of Day	je_batch_ hist_shell	Journal Entry Batch History EOD Shell	JE	This shell performs the following activities:1. Moves the Journal Entries (Single and Multi) details into history.
Sr. No.	Process Category	Category Description	Shell	Shell Description	Module Code	Detailed Description
------------	---------------------	-------------------------	--------------------------	---	----------------	--
						2. 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.
16	1	End of Day	pl_onl_ledg_ bal_upd	Online Ledger Entries Update	AS	This shell updates the GL balance of all the online transactions in the day. If the GL balance is updated using MDB, then there is contention for huge number of entries and hence batch shell to update the GL balance ap_as_gl_bal_update_on
17	1	End of Day	pc_report_ shell	PC Reports	PC	This shell generates Payments and Clearing Reports.
18	1	End of Day	py_cust_val_ date_eod	Customer Value Date EOD Shell	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.
19	1	End of Day	eod_preval	EOD pre validation Shell	DD	Reprice Failed Accounts Verify. The shell is to cross check if there are still pending accounts, for which repricing was failed. EOD will not start if there are such pending accounts.
20	1	End of Day	pr_price_ changes_eod	Price change action log shell for account opened today	PR	This shell identifies the accounts (which are opened today) eligible for rate and fee changes and logs action for further processing in pr_reprice_acn_eod shell.
21	1	End of Day	pr_reprice_ acn_eod	Reprice Action shell for account opened today	PR	This shell processes accounts (which are opened today) for interest or fee changes happened in the system.
22	1	End of Day	dd_si_eod	DDA Standing Instruction EOD Shell	DD	This shell executes all Standing Instructions that need to be executed for the day, based on holiday processing parameter.
23	1	End of Day	dd_swp_eod_ default	DDA Sweepout Instruction EOD Shell Default Level	DD	Account may be set up to sweep the balance above a certain amount to other CASA or TD account. This is the primary shell where all accounts with priority 1 are executed. This is executed in EOD based on customers preference.

Sr. No.	Process Category	Category Description	Shell	Shell Description	Module Code	Detailed Description
24	1	End of Day	dd_swp_eod_ non_def	DDA Sweepout Instruction EOD Shell Non Default Level	DD	This shell behaves same as DDA Sweepout Instruction EOD Shell Default Level. But priority 2 and above sweep out instructions are executed. This is required to divide the priority 1 and priority 2 above to avoid conflicts among accounts.
25	1	End of Day	dd_swp_ hold_remove	SweepIn Hold Removal shell	DD	This shell removes the sweep hold marked during the day.
26	1	End of Day	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
27	1	End of Day	td_remove_ swpin_lien	TD Remove Sweep In Shell	TD	During sweep in process, when CASA is short of funds, funds will be taken from TD as provider account by marking lien to TD account. If CASA is not funded before EOD processing, system will remove the lien from TD account and debit TD account.
28	1	End of Day	td_eod_ action	Term Deposit EOD Shell	TD	 This shell logs the following actions: Lien Expiry - mark lien as inactive during EOD process. Back dated Interest computation - For Contract Modification OR Backdated rate Change. Balance Change - Balance change (at time of contact modification) due to Contract Modification, Part Redemption. Interest Capitalization - Interest capitalization to TD. TD statement generation - Generates TD statements. Account Closure - Close the TD account due for that day.
29	1	End of Day	td_eod_ report_shell	TD EOD Reports	TD	This shell generates TD related reports in EOD.

Sr. No.	Process Category	Category Description	Shell	Shell Description	Module Code	Detailed Description
30	1	End of Day	dd_prdc_fee_ shell	Demand Deposit Periodic Fee EOD Shell	DD	All periodic fees that applicable to CASA will be applied in EOD. For example, account keeping fees or debit card annual fees. Once SI is complete, the charges that need to be levied are available and this is then executed for all accounts, based on holiday processing parameter.
31	1	End of Day	dd_rev_swp_ eod	Processing of Reverse Sweep	DD	This shell reverses any extra funds available in CASA account which is fetched during online sweep-in.
32	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.
33	1	End of Day	dd_eod_ action1	Demand Deposit EOD Shell Non Alternate	DD	 Amortization of fees - Guided by holiday processing logic This shell runs actions of non-alternate and non-OD accounts and actions, except interest related, for non-alternate OD and non-OD accounts with alternate account. All transactions on alternate account are done before their EOD actions are performed. Interest related actions on OD accounts are performed in a separate shell as proportionate OD calculations are done after balance freeze (Proportionate OD calculation logic needs to be specified/doc linked). Following actions are performed as per holiday processing parameter: Execute any applicable rate changes (batch based) for the account. Holiday treatment: Next Working Day Based on the cheques under clearing if there are any advance under unclear funds that need update that function is executed. Holiday treatment: Next Working Day Computation of Minimum Average Balance. Holiday treatment: Next Working Day Balance Change Action: After making adjustments for balances, system executes an interest computation action (Done in Interest Module). These snapshot balances are used to compute interest and also form the basis for the future audits and rebuild of balances when the back dated transactions are done. This is done only for accounts which are not OD. Credit and Debit Interest Settlement - All cases where capitalization of

Sr. No.	Process Category	Category Description	Shell	Shell Description	Module Code	Detailed Description
						interest needs to be executed, are picked up and processed. Interest adjustment for back dated transactions happen. It is run for non-OD accounts. Holiday treatment: obtained from IRD.
						 Product based events log for alerts and outbound documentation. Holiday treatment: Next Working Day
						 Statement generation. Holiday treatment: Next Working Day
						 All status checks and updates are done such as inactivity, unclaimed, dormancy. Holiday treatment: Next Working Day
						 Reward Credit action is performed. Holiday treatment: Next Working Day
						 Offset linkage/expiry action is performed for both offset account and alternate account. Holiday treatment: Next Working Day
34	1	End of Day	dd_eod_ action2	Demand Deposit EOD Shell Alternate	DD	This shell is run for all actions of accounts which are alternates and all actions except interest related actions for accounts which are alternate with OD facility. It will run the same set of actions as the shell above, based on holiday processing parameter.
35	1	End of Day	dd_eod_in_ adjst	Demand Deposit Interest Adjustment shell	DD	This shell does Proportionate OD calculation and Offset balances calculation.
						This shell is run for interest related actions of alternate accounts which are OD. Following actions are performed based on holiday processing parameter:
36	1	End of Day	dd_eod_ action3	Demand Deposit EOD Shell Alternate OD	DD	 Proportionate OD action: Calculation and stamping of proportionate OD and OL utilization. This action is done on any balance change on accounts which share the same facility.
						 Offset interest benefit: calculation of total offset balance for a beneficiary account. This action will be done on balance change on any of the offset accounts.

Sr. No.	Process Category	Category Description	Shell	Shell Description	Module Code	Detailed Description
						 Intimate interest for computation: After the above two actions are executed, interest will be intimated for computation.
						 Credit and Debit Interest Settlement: All cases where capitalization of interest needs to be executed are picked up and processed. Interest adjustment for back dated transactions happens. This is run for accounts which are OD.
						 Statement generation
37	1	End of Day	dd_eod_ action4	Demand Deposit EOD Shell Non Alternate OD	DD	This shell is run for interest related actions for non-alternate accounts which have OD and for non-OD accounts that have alternate. It runs the set of actions as the above shell, based on holiday processing parameter.
38	1	End of Day	lm_market_ reval	Market Revaluation Shell	LM	This shell revaluates the Collaterals as per current market values.
39	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.
40	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.
41	1	End of Day	lm_batch_ eod_shell	Limits And Collaterals Batch	LM	Credit Facility Review: Credit Facility can be subjected to review based on the parameters set during the creation of the facility. On the review date, the facility is submitted to the rule engine for processing. The rule ID is maintained as part of the facility category. On successful completion the next review date, facility conduct is updated on the credit facility. Credit Facility Earmarking Expiry: LCM system provides an option to block/earmark the credit facility for a certain amount. This amount will not contribute towards the available amount of the facility. On the start date, the amount has to be moved into the earmarked amount column which will ensure that the amount will not be utilized. A reinstatement of the earmarked amount is to be done on the earmark expiry date. Credit Facility Transfer Expiry: LCM system provides option of transfer of the

Sr. No.	Process Category	Category Description	Shell	Shell Description	Module Code	Detailed Description
						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.
42	1	End of Day	dd_eod_ action5	Demand Deposit EOD Shell Linkage Expiry	DD	This shell handles offset expiry actions.
43	1	End of Day	ac_bundle_ exp_poller	Bundle Expiry Poller Shell	BN	This shell maintains Track Bundle expiry.
44	1	End of Day	dd_eod_ offset_int	Demand Deposit Offset Interest EOD Shell	DD	The shell calculates and credits interest, if eligible for offset saving accounts. Based on priority, if there are offset accounts whose balance is not used to offset loan or overdraft account, then the unused balance gets the credit interest.
45	1	End of Day	np_eod_acion	Asset Classification EOD action	NP	This shell processes all EOD actions of Asset Classification module using action framework.
46	1	End of Day	ch_eod_ report_shell	CASA EOD Reports	СН	This shell generates CASA related batch reports.
47	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

Sr. No.	Process Category	Category Description	Shell	Shell Description	Module Code	Detailed Description
						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 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.
48	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 code and actual classification code will be stamped as the expected classification code and actual classification code of the party. The same will be propagated as the expected classification code of all accounts under the party. For each account under the party. The same will be propagated as the expected classification code of 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.
48	1	End of Day	np_facility_ classify	Facility Level Asset Classification	NP	This shell runs immediately after account shell, if the asset classification applicability level is Facility. This process first determines the worst classification of the facility by comparing the expected code returned from the facility rule, the expected code of all accounts under the facility that have been classified today and actual code of the remaining accounts under the facility. Based on the classification code details, it will be arrived at whether the classification has to be Manual or Automatic. In case of Manual classification, the worst classification code will be

Sr. No.	Process Category	Category Description	Shell	Shell Description	Module Code	Detailed Description
						stamped as the expected classification code of 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. In case of Automatic classification, the worst classification code will be stamped as the expected classification code and actual classification code of the facility. The same is propagated as the expected classification code and actual classification code of all accounts under the facility. For each account under the facility, necessary accounting entries will be passed for Normal to Suspended or Suspended to Normal movements. The new classification code, classification status (Normal or Suspended) and clawback details (only in case of forward movement) will be sent to Loan/CASA/OD module. Customer alerts will be generated as required.
49	1	End of Day	eod_report_ shell	EOD Reports	AL	This shell generates reports in EOD.
50	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.
51	1	End of Day	eod_epilogue	EOD Epilogue	EO	This shell waits for all the reports to be generated and changes the Process date.
52	2	Beginning of Day	ac_bod_bn_ fee_shell	BOD Bundle Fee Shell	BN	This shell processes the subscription and maintenance fees.
53	2	Beginning of Day	as_untank_ adjustment	Untanking Adjustment Posting	AS	The shell is used to process Untanking Adjustment entries during the batch.
54	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.
55	2	Beginning of Day	lz_pi_child_ exmpt_sh	Exemption code BOD shell	PI	The shell is used to automatically update the Identification Type to TFN and Identification value to NO TFN of a party (onboarded as child) when the party turns 17 years. (Australia localization specific shell)
56	2	Beginning of Day	pc_business_ transfr	Business Transfer	PC	Business Transfer SI Execution Shell

Sr. No.	Process Category	Category Description	Shell	Shell Description	Module Code	Detailed Description
				Periodic Execution BOD Shell		
57	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.
58	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)
59	2	Beginning of Day	py_auto_ credit_bod	Payments Auto Credit Run BOD Shell	ΡY	This shell processes records for outward collection transactions and intimate the respective modules (CASA/LOANS) on customer value date configured in the Bank Float Definition. This shell is effective only if the Bank Float Definition is configured to not wait for network settlement in case of non-unclear balance method treatment.
60	2	Beginning of Day	py_cust_val_ date_bod	Customer Value Date BOD Shell	ΡY	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.
61	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)
62	2	Beginning of Day	as_untank_ bod_shell	Accounting Un- tanking Shell	AS	This shell is used to un-tank the accounting entries during batch process. Online Transactions during EOD do not process accounting entries but are tanked. This shell processes accounting of the tanked records.
63	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.
64	2	Beginning of Day	pc_activ_ date_shell	Activation Date BOD Shell	PC	This shell takes the data of those transacation which are getting activated for processing for that day. For e.g- transcation like Outward collection, flat extended

Sr. No.	Process Category	Category Description	Shell	Shell Description	Module Code	Detailed Description
						inward and outward clearing, future dated outgoing payments etc
65	2	Beginning of Day	lm_batch_ bod_shell	Limits Bod Batch	LM	Same as Limits And Collaterals Batch shell in EOD Category
						This shell logs the following actions:
						 Maturity Processing - Maturity proceeds till yesterday will be credited to chosen settlement mode.
66	2	Beginning of Day	td_bod_ action	Ferm Deposit BOD Shell	TD	 Future dated Redemption - Process the future dated redemption request due for that day.
						 Interest Payout - Interest payout to settlement mode.
						 Unclaim Processing - Movement of Unclaim TD to Unclaim GL.
67	2	Beginning of Day	td_bod_ report_shell	TD BOD Reports	TD	This shell generates TD related reports in BOD.
						This shell runs in BOD before other CASA shells in BOD. It handles the following actions:
68	2	Beginning of	dd_bod_	Demand Deposit BOD	DD	 Earmark expiry. Holiday treatment: Next Working Day
		Day	action	Shell		 OD linkage action. Holiday treatment: Next Working Day
						 Offset account linkage action. Holiday treatment: Next Working Day
69	2	Beginning of Day	dd_bod_in_ adjst	Demand Deposit BOD Interest Adjustment shell	DD	In case of OD, if facility is shared, the shell proportionates the utilized amount among all the stake holders.
70	2	Beginning of Day	dd_si_bod	DDA Standing Instruction BOD Shell	DD	This shell executes all Standing Instructions that need to be executed for the day - Based on holiday processing parameter
71	2	Beginning of Day	dd_swp_bod_ default	DDA Sweepout	DD	Account may be set up to sweep the balance above a certain amount to other CASA or TD account. This is the primary shell where all accounts with priority 1 are

Sr. No.	Process Category	Category Description	Shell	Shell Description	Module Code	Detailed Description
				Instruction BOD Shell Default Level		executed. This is executed in BOD based on customer's preference.
72	2	Beginning of Day	dd_swp_bod_ non_def	DDA Sweepout Instruction BOD Shell Non Default Level	DD	This shell behaves same as DDA Sweepout Instruction BOD Shell Default Level. But priority 2 and above sweep out instructions are executed. This is required to divide the priority 1 and priority 2 and above to avoid conflicts among accounts.
73	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.
74	2	Beginning of Day	ch_bod_ report_shell	CASA BOD Reports	СН	This shell generates CASA Reports in BOD.
75	2	Beginning of Day	bod_report_ shell	BOD Reports	AL	This shell generates reports.
76	2	Beginning of Day	bod_epilogue	BOD Epilogue	EO	This shell waits for all the reports to be generated.
77	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.)
78	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.
79	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.
80	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.
81	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
82	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.
83	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.
84	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.
85	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.
86	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.
87	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.
88	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.
89	16	Internal System EOD	interest_eod_ action	Interest Shell	IN	 This shell does following activities: 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			
90	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 Lo and LOC account. Delinquency, account status, arrears of an account are populated which is further extracted for reporting purposes.			
91	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.			
92	16	Internal System EOD	as_batch_ verify	Accounting batch Verification Shell	AS	 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: 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. 			
93	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.)			
94	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.			
95	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.
96	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 OBETDAS system, since the current/closing balance of the ledgers are used for this purpose.
97	16	Internal System EOD	as_verify_ prefinclsr	Accounting batch Pre Fin Closure Verify Shell	AS	Same as per accounting verification.
98	16	Internal System EOD	pl_fin_period_ shell	Balance FIN Period Creation Shell	AS	It creates the system period FIN whenever applicable.
99	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.
100	16	Internal System EOD	as_verify_ prerptglns	Accounting batch Pre Reporting Lines Verify Shell	AS	Same as per accounting verification
101	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.
102	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.				
103	16	Internal System EOD	pl_intr_eod_ rep_shel	PL Internal EOD Report Shell	PL	This shell generates Ledger related reports in EOD.				
104	16	Internal System EOD	pl_balance_ history	Periodic PL balance history	PL	This shell archives GL Period balances.				
105	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.				
106	16	Internal System EOD	int_eod_ report_shell	Internal EOD Reports	AL	This shell generates Reports during Internal system EOD.				
107	16	Internal System EOD	int_eod_ epilogue	Int EOD Epilogue	EO	This shell waits for all the reports to be generated.				
108	18	Clearing	pc_rej_ reproc_shell	Scan Reject Reprocess Shell	PC	This shell reprocesses Reject Items.				
109	18	Clearing	pc_scn_pas_ plr_shell	Scan Pass Poller Shell	PC	Honored Items Poller				
110	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
111	17	Sales Offer Handoff	pm_sales_ offer_hoff	Sales Offer Handoff Shell	РМ	
112	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.
113	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.
114	19	CMD Hand- off	cmd_ handoff_shell	CMD Hand-Off Shell	DI	This shell initiates ODI task for Datamart population for Credit Monitor Dashboard.
115	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.
116	23	Global Float	pc_glb_flt_ ext_shell	Global Float Extension Shell	PC	Global Float Extension
117	30	Scan Payment Queue Process	pc_scn_rej_ plr_shell	Scan Reject Poller Shell	PC	Rejected Items Poller
118	63	Business Transfer	pc_b_colln_ cdt_shell	Business Collection Credit Shell	PC	Business Collection Credit
119	63	Business Transfer	pc_b_pymt_ dbt_shell	Business Payment Debit Shell	PC	Business Payment Debit
120	63	Business Transfer	pc_b_colln_ dbt_shell	Business Collection Debit Shell	PC	Business Collection Debit
121	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
122	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
123	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.
124	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.
125	102	Analytics Result Upload	rslt_handoff_ shell	Analytics Result Upload Shell	DI	This shell initiates OFSAA LLFP result area data upload scenario execution.
126	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.
127	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.
128	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.
129	117	Housekeeping	ac_stl_alrt_ scdl	Procssing of Frequency based Alerts	DD	This shell executes the recurring alerts.
130	117	Housekeeping	acct_benefit_ shell	Account Benefit Shell	AC	This shell calculates amount benefited due to offset account.
131	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		
132	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.
133	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.
134	117	Housekeeping	da_event_h_ eod_shel	Accounting Event History Shell	AS	This shell archives accounting events and accounting entries into history table.
135	117	Housekeeping	dd_hsk_ actions	Processing of House Keeping shell	DD	This shell logs periodic alerts and maintain counters for CASA account.
136	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.
137	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.
138	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.
139	117	Housekeeping	move_drv_ table_data	Move driver table data to History table	DD	This shell moves Driver table data into History Table.
140	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		
141	117	Housekeeping	or_sub_exp_ shell	Submission EOD Expiry Shell	OR	This shell expires the submission IDs which have breached the defined submission period.
142	117	Housekeeping	pi_bod_shell	Party BOD Shell	PI	This shell is used to process the Party Due Diligence Expiry if it falls on a working day. This shell also updates the future party address getting active on this day. It updates such addresses to be current and marks the previous current address as past.
143	117	Housekeeping	td_stmt_gen_ shell	TD Statement Generation Shell	TD	This shell generates TD statements.
144	117	Housekeeping	dd_stmt_ gen_shell	CASA Statement Generation Shell	DD	This shell generates CASA statements.
145	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.
146	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.
147	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.
148	125	Adhoc Scheduler Online	dd_acct_ online	Adhoc action shell for CASA	DD	
149	125	Adhoc Scheduler Online	dd_si_online	DDA No Retry Standing Instruction Online Shell	DD	

Sr. No.	Process Category	Category Description	Shell	Shell Description	Module Code	Detailed Description
150	127	Human Task Action	wf_task_ resume_shell	Human Task Resume Shell	WF	
151	247	Reprice	pr_acrl_ batch_shell	Price Accrual Batch Shell	PR	This shell identifies accounts and performs fee accrual.
152	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.
153	247	Reprice	pr_reprice_ action	Reprice action online Shell	PR	This shell processes accounts (which are not opened today) for interest or fee changes happened in the system.

12.2 Batch Shells Execution Sequence

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

Table 12–2 Shell Execution Sequence

Sr. No.	Process Category	Category Description	Category Significance	Shell Execution Sequence	Shell	Shell Description	Module Code	Required Shells	Required Shell Description
1	0	Reports Health Check	Optional	1	reports_chk_ shell	Reports Health Check	FW		
2	1	End of Day	Mandatory	1	ac_action_ relog_sh	Relog actions on holiday	AC		
3	1	End of Day	Mandatory	1	ac_bundle_ fee_shell	Bundle Fee Shell	BN		
4	1	End of Day	Mandatory	1	bundle_ report_shell	Bundle Reports	BN		
5	1	End of Day	Mandatory	1	dd_auto_ statuschange	DDA Auto status change shell	DD		
6	1	End of Day	Mandatory	1	ins_quote_ exp_eod	Expire Quote EOD Shell	LM		

Sr. No.	Process Category	Category Description	Category Significance	Shell Execution Sequence	Shell	Shell Description	Module Code	Required Shells	Required Shell Description
7	1	End of Day	Mandatory	1	je_susp_bal_ shell	Journal Entry Suspense Balancing EOD Shell	JE		
8	1	End of Day	Mandatory	1	pc_blr_remit_ shell	Biller Remittance Shell	PC		
9	1	End of Day	Mandatory	1	pc_value_ date_eod_sh	Value Date EOD Shell	PC		
10	1	End of Day	Mandatory	1	pi_srv_ord_ sta_eod	Service Order Deactivation EOD Shell (US localization specific shell)	PI		
11	1	End of Day	Mandatory	1	py_bank_val_ date_eod	Bank Value Date EOD Shell	PY		
12	1	End of Day	Mandatory	1	py_regcc_ sch_gen	Reg CC Schedule Generation EOD Shell (US localization specific shell)	ΡY		
13	1	End of Day	Mandatory	1	py_regcc_ sch_rel_eod	Reg CC Schedule Release EOD Shell (US localization specific shell)	ΡY		
14	1	End of Day	Mandatory	2	dd_inst_ rearrg_sh	DD Instruction Rearrangement For Calender Change	DD	ac_action_ relog_sh	Relog actions on holiday
15	1	End of Day	Mandatory	2	je_batch_ hist_shell	Journal Entry Batch History EOD Shell	JE	je_susp_bal_ shell	Journal Entry Suspense Balancing EOD Shell
16	1	End of Day	Mandatory	2	pl_onl_ledg_ bal_upd	Online Ledger Entries Update	AS	je_susp_bal_ shell	Journal Entry Suspense Balancing EOD Shell
17	1	End of Day	Mandatory	2	pc_report_ shell	PC Reports	PC	pc_value_ date_eod_sh	Value Date EOD Shell

Sr. No.	Process Category	Category Description	Category Significance	Shell Execution Sequence	Shell	Shell Description	Module Code	Required Shells	Required Shell Description
18	1	End of Day	Mandatory	2	py_cust_val_ date_eod	Customer Value Date EOD Shell	PY	py_bank_ val_date_eod	Bank Value Date EOD Shell
19	1	End of Day	Mandatory	3	eod_preval	EOD pre validation Shell	DD	pc_report_ shell	PC Reports
20	1	End of Day	Mandatory	4	pr_price_ changes_eod	Price change action log shell for account opened today	PR	eod_preval	EOD pre validation Shell
21	1	End of Day	Mandatory	5	pr_reprice_ acn_eod	Reprice Action shell for account opened today	PR	pr_price_ changes_eod	Price change action log shell for account opened today
22	1	End of Day	Mandatory	6	dd_si_eod	DDA Standing Instruction EOD Shell	DD	ac_bundle_ fee_shell dd_auto_ statuschange pr_reprice_ acn_eod	Bundle Fee Shell DDA Auto status change shell Reprice Action shell for account opened today
23	1	End of Day	Mandatory	7	dd_swp_eod_ default	DDA Sweepout Instruction EOD Shell Default Level	DD	dd_si_eod	DDA Standing Instruction EOD Shell
24	1	End of Day	Mandatory	8	dd_swp_eod_ non_def	DDA Sweepout Instruction EOD Shell Non Default Level	DD	dd_swp_ eod_default	DDA Sweepout Instruction EOD Shell Default Level
25	1	End of Day	Mandatory	9	dd_swp_ hold_remove	SweepIn Hold Removal shell	DD	dd_swp_ eod_non_def	DDA Sweepout Instruction EOD Shell Non Default Level
26	1	End of Day	Mandatory	10	ac_stl_pyt_ eod_shell	Account Settlement Payout EOD Shell	AC	In_contri_ eod_shell	Loan Contribution EOD Shell
27	1	End of Day	Mandatory	10	td_remove_ swpin_lien	TD Remove Sweep In Shell	TD	dd_swp_ hold_remove	SweepIn Hold Removal shell
28	1	End of Day	Mandatory	11	td_eod_	Term Deposit EOD Shell	TD	td_remove_	TD Remove Sweep In

Sr. No.	Process Category	Category Description	Category Significance	Shell Execution Sequence	Shell	Shell Description	Module Code	Required Shells	Required Shell Description
					action			swpin_lien	Shell
29	1	End of Day	Mandatory	12	td_eod_ report_shell	TD EOD Reports	TD	td_eod_ action	Term Deposit EOD Shell
30	1	End of Day	Mandatory	14	dd_prdc_fee_ shell	Demand Deposit Periodic Fee EOD Shell	DD	ln_actn_ post_eod_sh	Loan Post Action Due EOD Shell
31	1	End of Day	Mandatory	15	dd_rev_swp_ eod	Processing of Reverse Sweep	DD	dd_prdc_fee_ shell	Demand Deposit Periodic Fee EOD Shell
32	1	End of Day	Mandatory	15	ins_eod_ action	Insurance EOD Shell	LM	In_report_ shell	Loan Reports
33	1	End of Day	Mandatory	16	dd_eod_ action1	Demand Deposit EOD Shell Non Alternate	DD	dd_rev_swp_ eod	Processing of Reverse Sweep
34	1	End of Day	Mandatory	17	dd_eod_ action2	Demand Deposit EOD Shell Alternate	DD	dd_eod_ action1	Demand Deposit EOD Shell Non Alternate
35	1	End of Day	Mandatory	18	dd_eod_in_ adjst	Demand Deposit Interest Adjustment shell	DD	dd_eod_ action2	Demand Deposit EOD Shell Alternate
36	1	End of Day	Mandatory	19	dd_eod_ action3	Demand Deposit EOD Shell Alternate OD	DD	dd_eod_in_ adjst	Demand Deposit Interest Adjustment shell
37	1	End of Day	Mandatory	20	dd_eod_ action4	Demand Deposit EOD Shell Non Alternate OD	DD	dd_eod_ action3	Demand Deposit EOD Shell Alternate OD
38	1	End of Day	Mandatory	21	lm_market_ reval	Market Revaluation Shell	LM	dd_eod_ action4	Demand Deposit EOD Shell Non Alternate OD
39	1	End of Day	Mandatory	22	lm_util_reval	Utilization Revaluation	LM	lm_market_ reval	Market Revaluation Shell
40	1	End of Day	Mandatory	23	lm_batch_p_ eod_shell	LCM EOD Pre Processor	LM	lm_util_reval	Utilization Revaluation
41	1	End of Day	Mandatory	24	Im_batch_	Limits And Collaterals	LM	lm_batch_p_	LCM EOD Pre

Sr. No.	Process Category	Category Description	Category Significance	Shell Execution Sequence	Shell	Shell Description	Module Code	Required Shells	Required Shell Description
					eod_shell	Batch		eod_shell	Processor
42	1	End of Day	Mandatory	25	dd_eod_ action5	Demand Deposit EOD Shell Linkage Expiry	DD	lm_batch_ eod_shell	Limits And Collaterals Batch
43	1	End of Day	Mandatory	27	ac_bundle_ exp_poller	Bundle Expiry Poller Shell	BN	In_intrst_ comp_shell	Loan Interest Computation EOD Shell
44	1	End of Day	Mandatory	27	dd_eod_ offset_int	Demand Deposit Offset Interest EOD Shell	DD	In_intrst_ comp_shell	Loan Interest Computation EOD Shell
45	1	End of Day	Mandatory	27	np_eod_acion	Asset Classification EOD action	NP	In_intrst_ comp_shell	Loan Interest Computation EOD Shell
46	1	End of Day	Mandatory	28	ch_eod_ report_shell	CASA EOD Reports	СН	dd_eod_ offset_int	Demand Deposit Offset Interest EOD Shell
47	1	End of Day	Mandatory	28	np_account_ classify	Account Level Asset Classification	NP	np_eod_ acion	Asset Classification EOD action
48	1	End of Day	Mandatory	29	np_party_ classify	Party Level Asset Classification	NP	np_account_ classify	Account Level Asset Classification
49	1	End of Day	Mandatory	30	np_facility_ classify	Facility Level Asset Classification	NP	np_party_ classify	Party Level Asset Classification
50	1	End of Day	Mandatory	31	eod_report_ shell	EOD Reports	AL	bundle_ report_shell ch_eod_ report_shell np_facility_ classify	Bundle Reports CASA EOD Reports Facility Level Asset Classification
51	1	End of Day	Mandatory	32	as_eod_ check	Accounting Verification	AS	eod_report_ shell td_eod_ report_shell ch_eod_ report_shell	EOD Reports TD EOD Reports CASA EOD Reports

Sr. No.	Process Category	Category Description	Category Significance	Shell Execution Sequence	Shell	Shell Description	Module Code	Required Shells	Required Shell Description
52	1	End of Day	Mandatory	33	eod_epilogue	EOD Epilogue	EO	as_eod_ check	Accounting Verification
53	2	Beginning of Day	Mandatory	1	ac_bod_bn_ fee_shell	BOD Bundle Fee Shell	BN		
54	2	Beginning of Day	Mandatory	1	as_untank_ adjustment	Untanking Adjustment Posting	AS		
55	2	Beginning of Day	Mandatory	1	ins_bod_ action	Insurance BOD Shell	LM		
56	2	Beginning of Day	Mandatory	1	lz_pi_child_ exmpt_sh	Exemption code BOD shell (Australia localization specific shell)	PI		
57	2	Beginning of Day	Mandatory	1	pc_business_ transfr	Business Transfer Periodic Execution BOD Shell	PC		
58	2	Beginning of Day	Mandatory	1	pc_value_ date_shell	Value Date BOD Shell	PC		
59	2	Beginning of Day	Mandatory	1	pi_srv_ord_ sta_bod	Service Order Activation BOD Shell (US localization specific shell)	PI		
60	2	Beginning of Day	Mandatory	1	py_auto_ credit_bod	Payments Auto Credit Run BOD Shell	PY		
61	2	Beginning of Day	Mandatory	1	py_cust_val_ date_bod	Customer Value Date BOD Shell	PY		
62	2	Beginning of Day	Mandatory	1	py_regcc_ sch_rel_bod	Reg CC Schedule Release BOD Shell (US localization specific shell)	ΡΥ		

Sr. No.	Process Category	Category Description	Category Significance	Shell Execution Sequence	Shell	Shell Description	Module Code	Required Shells	Required Shell Description
63	2	Beginning of Day	Mandatory	2	as_untank_ bod_shell	Accounting Un-tanking Shell	AS	as_untank_ adjustment	Untanking Adjustment Posting
64	2	Beginning of Day	Mandatory	2	lm_batch_p_ bod_shell	LCM BOD Pre Processor	LM	ins_bod_ action	Insurance BOD Shell
65	2	Beginning of Day	Mandatory	2	pc_activ_ date_shell	Activation Date BOD Shell	PC	pc_value_ date_shell	Value Date BOD Shell
66	2	Beginning of Day	Mandatory	3	lm_batch_ bod_shell	Limits Bod Batch	LM	lm_batch_p_ bod_shell	LCM BOD Pre Processor
67	2	Beginning of Day	Mandatory	3	td_bod_ action	Term Deposit BOD Shell	TD	pc_activ_ date_shell	Activation Date BOD Shell
68	2	Beginning of Day	Mandatory	4	td_bod_ report_shell	TD BOD Reports	TD	td_bod_ action	Term Deposit BOD Shell
69	2	Beginning of Day	Mandatory	6	dd_bod_ action	Demand Deposit BOD Shell	DD	ins_bod_ action Im_batch_ bod_shell In_contri_ bod_shell	Insurance BOD Shell Limits Bod Batch Loan Contribution BOD Shell
70	2	Beginning of Day	Mandatory	7	dd_bod_in_ adjst	Demand Deposit BOD Interest Adjustment shell	DD	dd_bod_ action	Demand Deposit BOD Shell
71	2	Beginning of Day	Mandatory	8	dd_si_bod	DDA Standing Instruction BOD Shell	DD	dd_bod_in_ adjst	Demand Deposit BOD Interest Adjustment shell
72	2	Beginning of Day	Mandatory	9	dd_swp_bod_ default	DDA Sweepout Instruction BOD Shell Default Level	DD	dd_si_bod	DDA Standing Instruction BOD Shell
73	2	Beginning of Day	Mandatory	10	dd_swp_bod_ non_def	DDA Sweepout Instruction BOD Shell Non Default Level	DD	dd_swp_ bod_default	DDA Sweepout Instruction BOD Shell Default Level

Sr. No.	Process Category	Category Description	Category Significance	Shell Execution Sequence	Shell	Shell Description	Module Code	Required Shells	Required Shell Description
74	2	Beginning of Day	Mandatory	11	ac_stl_pyt_ bod_shell	Account Settlement Payout BOD Shell	AC	dd_swp_ bod_non_def	DDA Sweepout Instruction BOD Shell Non Default Level
75	2	Beginning of Day	Mandatory	15	ch_bod_ report_shell	CASA BOD Reports	СН	ln_actn_ post_bod_sh	Loan Post Action due BOD shell
76	2	Beginning of Day	Mandatory	16	bod_report_ shell	BOD Reports	AL	ch_bod_ report_shell	CASA BOD Reports
77	2	Beginning of Day	Mandatory	17	bod_epilogue	BOD Epilogue	EO	bod_report_ shell In_actn_ post_bod_sh	BOD Reports Loan Post Action due BOD shell
78	3	Cut Off	Mandatory	1	co_cutoff_ prologue	Cutoff Prologue	со		
79	12	FSDF master data hand-off	Optional	1	handoff_ initialise	Analytics Hand-Off Initialisation Shell	DI	co_cutoff_ prologue	Cutoff Prologue
80	12	FSDF master data hand-off	Optional	2	handoff_shell	Analytics Hand-Off Shell	DI	handoff_ initialise	Analytics Hand-Off Initialisation Shell
81	12	FSDF master data hand-off	Optional	3	epilogue_ shell	Analytics epilogue Shell	DI	handoff_shell	Analytics Hand-Off Shell
82	13	FSDF EOD data hand-off	Optional	1	handoff_shell	Analytics Hand-Off Shell	DI		
83	13	FSDF EOD data hand-off	Optional	2	epilogue_ shell	Analytics epilogue Shell	DI	handoff_shell	Analytics Hand-Off Shell
84	14	FSDF Txn data Hand-off	Optional	1	handoff_shell	Analytics Hand-Off Shell	DI		
85	14	FSDF Txn data Hand-off	Optional	2	epilogue_ shell	Analytics epilogue Shell	DI	handoff_shell	Analytics Hand-Off Shell
86	15	Analytics	Optional	1	handoff_	Analytics Hand-Off	DI		

Sr. No.	Process Category	Category Description	Category Significance	Shell Execution Sequence	Shell	Shell Description	Module Code	Required Shells	Required Shell Description
		Batch Data Hand-off			initialise	Initialisation Shell			
87	15	Analytics Batch Data Hand-off	Optional	2	handoff_shell	Analytics Hand-Off Shell	DI	handoff_ initialise	Analytics Hand-Off Initialisation Shell
88	15	Analytics Batch Data Hand-off	Optional	3	epilogue_ shell	Analytics epilogue Shell	DI	handoff_shell	Analytics Hand-Off Shell
89	16	Internal System EOD	Mandatory	1	ac_actn_ ieod_shell	Account Action Internal EOD Shell	LN		
90	16	Internal System EOD	Mandatory	1	interest_eod_ action	Interest Shell	IN		
91	16	Internal System EOD	Mandatory	1	lending_acct_ stat	Lending Account Statistics Shell	AC		
92	16	Internal System EOD	Mandatory	1	pi_eod_shell	Party EOD Shell	PI		
93	16	Internal System EOD	Mandatory	2	as_batch_ verify	Accounting batch Verification Shell	AS	interest_eod_ action	Interest Shell
94	16	Internal System EOD	Mandatory	3	pl_ledg_bal_ upd	Deferred Ledger Balance Update	AS	as_batch_ verify	Accounting batch Verification Shell
95	16	Internal System EOD	Mandatory	4	pl_sdeadjmt_ eod_shel	SDE Adjustment Shell	AS	pl_ledg_bal_ upd	Deferred Ledger Balance Update
96	16	Internal System EOD	Mandatory	5	as_verify_ prereval	Accounting batch Pre Revaluatiom Verify Shell	AS	pl_sdeadjmt_ eod_shel	SDE Adjustment Shell
97	16	Internal System EOD	Mandatory	6	pl_reval_eod_ shell	Revaluation Shell	AS	as_verify_ prereval	Accounting batch Pre Revaluatiom Verify Shell
98	16	Internal	Mandatory	7	as_verify_	Accounting batch Pre Fin	AS	pl_reval_	Revaluation Shell

Sr. No.	Process Category	Category Description	Category Significance	Shell Execution Sequence	Shell	Shell Description	Module Code	Required Shells	Required Shell Description
		System EOD			prefinclsr	Closure Verify Shell		eod_shell	
99	16	Internal System EOD	Mandatory	8	pl_fin_period_ shell	Balance FIN Period Creation Shell	AS	as_verify_ prefinclsr	Accounting batch Pre Fin Closure Verify Shell
100	16	Internal System EOD	Mandatory	9	pl_finclose_ eod_shel	Financial Closure Shell	AS	pl_fin_ period_shell	Balance FIN Period Creation Shell
101	16	Internal System EOD	Mandatory	10	as_verify_ prerptglns	Accounting batch Pre Reporting Lines Verify Shell	AS	pl_finclose_ eod_shel	Financial Closure Shell
102	16	Internal System EOD	Mandatory	11	pl_rptglns_ eod_shell	ReportingLines Shell	AS	as_verify_ prerptglns	Accounting batch Pre Reporting Lines Verify Shell
103	16	Internal System EOD	Mandatory	12	as_verify_ prearchiv	Accounting batch Pre Archive Verify Shell	AS	pl_rptglns_ eod_shell	ReportingLines Shell
104	16	Internal System EOD	Mandatory	13	pl_intr_eod_ rep_shel	PL Internal EOD Report Shell	PL	as_verify_ prearchiv	Accounting batch Pre Archive Verify Shell
105	16	Internal System EOD	Mandatory	14	pl_balance_ history	Periodic PL balance history	PL	pl_intr_eod_ rep_shel	PL Internal EOD Report Shell
106	16	Internal System EOD	Mandatory	15	pl_period_ bod_shell	Balance Period Creation Shell	AS	pl_balance_ history	Periodic PL balance history
107	16	Internal System EOD	Mandatory	16	int_eod_ report_shell	Internal EOD Reports	AL	pl_period_ bod_shell	Balance Period Creation Shell
108	16	Internal System EOD	Mandatory	17	int_eod_ epilogue	Int EOD Epilogue	EO	int_eod_ report_shell	Internal EOD Reports
109	18	Clearing	Optional	1	pc_rej_ reproc_shell	Scan Reject Reprocess Shell	PC		
110	18	Clearing	Optional	1	pc_scn_pas_ plr_shell	Scan Pass Poller Shell	PC		

Sr. No.	Process Category	Category Description	Category Significance	Shell Execution Sequence	Shell	Shell Description	Module Code	Required Shells	Required Shell Description
111	18	Clearing	Optional	2	pc_oc_ return_shell	Outgoing Clearing Return Shell	PC	pc_rej_ reproc_shell	Scan Reject Reprocess Shell
112	17	Sales Offer Handoff	Optional	1	pm_sales_ offer_hoff	Sales Offer Handoff Shell	PM		
113	17	Sales Offer Handoff	Optional	2	handoff_shell	Analytics Hand-Off Shell	DI	pm_sales_ offer_hoff	Sales Offer Handoff Shell
114	17	Sales Offer Handoff	Optional	3	epilogue_ shell	Analytics epilogue Shell	DI	handoff_shell	Analytics Hand-Off Shell
115	19	CMD Hand-off	Optional	1	cmd_ handoff_shell	CMD Hand-Off Shell	DI		
116	19	CMD Hand-off	Optional	2	cmd_ epilogue_ shell	CMD epilogue Shell	DI	cmd_ handoff_shell	CMD Hand-Off Shell
117	23	Global Float	Optional	1	pc_glb_flt_ ext_shell	Global Float Extension Shell	PC		
118	30	Scan Payment Queue Process	Optional	1	pc_scn_rej_ plr_shell	Scan Reject Poller Shell	PC		
119	63	Business Transfer	Optional	1	pc_b_colln_ cdt_shell	Business Collection Credit Shell	PC		
120	63	Business Transfer	Optional	1	pc_b_pymt_ dbt_shell	Business Payment Debit Shell	PC		
121	63	Business Transfer	Optional	2	pc_b_colln_ dbt_shell	Business Collection Debit Shell	PC	pc_b_colln_ cdt_shell	Business Collection Credit Shell
122	63	Business Transfer	Optional	2	pc_b_pymt_ cdt_shell	Business Payment Credit Shell	PC	pc_b_pymt_ dbt_shell	Business Payment Debit Shell
123	69	mdm_Publish	Optional	1	mdm_ publish_shell	mdm Publish	IN		

Sr. No.	Process Category	Category Description	Category Significance	Shell Execution Sequence	Shell	Shell Description	Module Code	Required Shells	Required Shell Description
124	100	Health Check	Optional	1	health_chk_ shell	Health Checkup Shell	FW		
125	100	Health Check	Optional	1	excep_ pending_shell	Batch Exceptions Pending Check Shell	FW		
126	102	Analytics Result Upload	Optional	1	rslt_handoff_ shell	Analytics Result Upload Shell	DI		
127	102	Analytics Result Upload	Optional	2	rslt_epilogue_ shell	Analytics Result Upload Epilogue Shell	DI	rslt_handoff_ shell	Analytics Result Upload Shell
128	117	Housekeeping	Mandatory	1	ac_arrear_ history	Arrear history shell.	AC		
129	117	Housekeeping	Mandatory	1	ac_casa_ housekeeping	CASA housekeeping shell.	AC		
130	117	Housekeeping	Mandatory	1	ac_stl_alrt_ scdl	Procssing of Frequency based Alerts	DD		
131	117	Housekeeping	Mandatory	1	acct_benefit_ shell	Account Benefit Shell	AC		
132	117	Housekeeping	Mandatory	1	as_hist_log_ eod_shel	Accounting Transaction History Log Shell	AS		
133	117	Housekeeping	Mandatory	1	ba_purge_ shell_proc	Procedure based Purge shell to be run during Housekeeping	DD		
134	117	Housekeeping	Mandatory	1	bd_ unclaimed_ shell	Bank Darft unclaimed shell	PC		
135	117	Housekeeping	Mandatory	1	da_event_h_ eod_shel	Accounting Event History Shell	AS		
136	117	Housekeeping	Mandatory	1	dd_hsk_ actions	Processing of House Keeping shell	DD		

Sr. No.	Process Category	Category Description	Category Significance	Shell Execution Sequence	Shell	Shell Description	Module Code	Required Shells	Required Shell Description
137	117	Housekeeping	Mandatory	1	lm_auto_ closur_shell	Facility Auto Closure Shell	LM		
138	117	Housekeeping	Mandatory	1	lm_exp_ track_shell	Exposure Tracking Shell	LM		
139	117	Housekeeping	Mandatory	1	lm_insider_ exp	Insider Exposure Tracking Shell	LM		
140	117	Housekeeping	Mandatory	1	move_drv_ table_data	Move driver table data to History table	DD		
141	117	Housekeeping	Mandatory	1	np_prvsn_ updt_shell	Account Level Provision Update	NP		
142	117	Housekeeping	Mandatory	1	or_sub_exp_ shell	Submission EOD Expiry Shell	OR		
143	117	Housekeeping	Mandatory	1	pi_bod_shell	Party BOD Shell	PI		
144	117	Housekeeping	Mandatory	1	td_stmt_gen_ shell	TD Statement Generation Shell	TD		
145	117	Housekeeping	Mandatory	3	dd_stmt_ gen_shell	CASA Statement Generation Shell	DD	ln_stmt_gen_ shell	Loan Statement Generation EOD Shell
147	117	Housekeeping	Mandatory	4	ac_pop_ domain_ind	Domain index tables populate shell	AC	dd_stmt_ gen_shell	CASA Statement Generation Shell
148	120	Alert Generation	Optional	1	ep_ generation_ shell	Alert generation Shell	DI		
149	125	Adhoc Scheduler Online	Optional	1	as_online_ ledg_upd	Online Ledger Balance Update Shell	AS		
150	125	Adhoc Scheduler Online	Optional	1	dd_acct_ online	Adhoc action shell for CASA	DD		

Sr. No.	Process Category	Category Description	Category Significance	Shell Execution Sequence	Shell	Shell Description	Module Code	Required Shells	Required Shell Description
151	125	Adhoc Scheduler Online	Optional	1	dd_si_online	DDA No Retry Standing Instruction Online Shell	DD		
152	127	Human Task Action	Optional	1	wf_task_ resume_shell	Human Task Resume Shell	WF		
153	247	Reprice	Default	1	pr_acrl_ batch_shell	Price Accrual Batch Shell	PR		
154	247	Reprice	Default	1	pr_price_ changes	Price change log online shell	PR		
155	247	Reprice	Default	2	pr_reprice_ action	Reprice action online Shell	PR	pr_price_ changes	Price change log online shell

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

13.1 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 13–1 Values for ILM Configuration

13.2 Installation

This section explains the process of ILM installation.

13.2.1 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 (OBDLOCS Tables Worksheet)
- ILM Column (OBDLOCS Tables Worksheet)
- Partition Range Type (Lifecycle Pattern Worksheet)

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

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

13.2.2 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;

13.2.3 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 OBDLOCS 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 13–2 Utility Table Creation Script



13.2.4 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 OBDLOCS database as follows:
 - a. Connect to OBDLOCS Database.
 - b. Run partition creation script:

@ <Tablename>par.sql

For example:

@ /scratch/app/ILM PARTITION DIR/FLX DA ACCT EVENT H DEMOpar.sql

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

For example:

@ /scratch/app/ILM_ADO_DIR/FLX_DA_ACCT_EVENT_H_DEMOado.sql

13.2.6 Verify Registered ADO Policies

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

Figure 13–3 Verify ADO Policies

DRACLE	Enterprise I	Manager	Cloud Contro	ol 12c	Setup 👻 🕺 SYSMAN 🛪	
Enterprise 🔻 🧿	<u>T</u> argets 👻 🏫	Eavorites 🔻	🖌 🕑 Hist <u>o</u> ry 🔻			Search Target Name
NCONT65A	0					Logged in as 🕫 🔋 🗒 mum00aro.in.orad
Oracle Database	 Performance 	 Availab 	olity 🔻 Security	▼ Schema ▼ Admi	inistration 💌	Page Refreshed Dec 22, 2015 5:25:10 AM GMT
Information Li	ecycle Mana	agement	t			
Heat Map Policy						
Policy Summa	агу	Policy Ex	xecution Sum	mary for Last 24	Hours To	Action
Policies		Jobs			(
Compression Storage Objects	0 12	Compl F A	leted 0 Failed 0 Active 0			
With Policies Enabled 12		Policies				Compression
With Policies	With Policies Disabled 0 Co		leted 0			Storage Tiering Both
Evaluations		F	Failed 0			None
Completed	0	Objects	5			
	Evaluate	Comp	ressed 0 Moved 0			0.0%
Automatic Dat	a Optimizatio	n Policies	1			
60 Policy Details	6d Execution	History [Execute Polic	y		
Name	Action Ty	pe	Scope	Objects	Status	
P 163	STORAGE		SEGMENT		1 Enabled	
P 167	STORAGE		SEGMENT		1 Enabled	
P 169	STORAGE		SEGMENT		1 Enabled	
P162	STORAGE		SEGMENT		1 Enabled	
P166	STORAGE		SEGMENT		1 Enabled	
P172	STORAGE		SEGMENT		1 Enabled	
P165	STORAGE		SEGMENT		1 Enabled	
P170	STORAGE		SEGMENT		1 Enabled	
P161	STORAGE		SEGMENT		1 Enabled	
P 168	STORAGE		SEGMENT		1 Enabled	
P164	STORAGE		SEGMENT		1 Enabled	
P1/1	STORAGE	-	SEGMENT		1 Enabled	

13.3 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;
/
```

14 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.

14.1 Configuration

The following is the classification of information related to OBDLOCS. 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 14–1 TDE Configuration

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

14.2 Installation

This section explains the installation process.

14.2.1 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

14.2.2 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;

14.2.3 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/)
```

14.2.4 Run Created Alter Script

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

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15 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).

15.1 Configuration

The following is the classification of information related to OBDLOCS. 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 15–1 TDE Configuration

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

15.2 Installation

This section explains the installation process.

15.2.1 Prepare Scripts to Encrypt Sensitive Data

Database administrator needs to create 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

15.2.2 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.

15.2.3 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.

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16 Configure ODI for Inbound Document Upload

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

For document upload ODI execution, complete the following configurations:

- 1. Configuring the Input directory:
 - a. For example, if input directory is /scratch/odi/InboundDocument/Upload/lendingZone/
 - b. Update the configuration in the table using the following SQL:

update FLX_FW_ODI_SUB_INTERFACE_TYPE set IN_FILE_ PATH=/scratch/odi/InboundDocument/Upload/IendingZone/ ' where SUB_INTERFACE_ ID='9551';

- c. Note that the SUB_INTERFACE_ID='9551' should not be changed.
- 2. Configure the Schema directory:
 - a. Provide the directory where all the schemas are present.

Framework configuration:

update FLX_FW_ODI_SUB_INTERFACE_TYPE set SCHEMA_FILE_PATH = '/scratch/odi/InboundDocument/Upload/schema/' where SUB_INTERFACE_ID ='7002';

- b. Copy all the schema for ODI mediapack zip from directory schema to the new directory which is configured for framework.
- c. Provide schema file for Document Upload.

update FLX_FW_ODI_SUB_INTERFACE_TYPE set schema_file_ path='D:\work\odi\inDocUpload\InboundDocument\Upload\schema\scan_images_ request.0.1.XSD' where SUB_INTERFACE_ID='9551';

3. Configure Temporary directory:

update FLX_FW_ODI_SUB_INTERFACE_TYPE set temp_file_path= '/scratch/odi/InboundDocument/Upload /lendingZonetmp/' where SUB_INTERFACE_ID='9551';

4. Configure Archive directory:

update FLX_FW_ODI_SUB_INTERFACE_TYPE set archive_file_ path=/scratch/odi/InboundDocument/Upload/archieve/' where SUB_INTERFACE_ID='9551';

- 5. Create users in connector: Create two credential maps:
 - oracle.obp.credmap: This has two keys.
 - IPM_SERVICE: It has the username and password of IPM. It is used to upload the documents to IPM.
 - OBP_USER: It is required to make web service call to OBP.

- oracle.odi.credmap
 - SUPERVISOR: It has supervisor username and password.
 - odi_domain: It has domain username and password.

Figure 16–1 Credentials

A credentia	ntials al store is the repositor ential Store Provider	ry of security data tha	at certifies the a	authority of entitie	as used by Java SE, Java B	EE, and ADF application:	. Applications can use	the Credential Store, a single	e, consolidated service provider to	store and manage their	credentials securel
View +	+ Create Map	+ Create Key	🥒 Edit	X Delete	Credential Key Name		Detach				
Cred	ential									Туре	Description
- A (oracle.obp.credma	ap									
										Password	
	<pre> OBP_USER </pre>									Password	
- A (oracle.odi.credma	ip									
	SUPERVISOR									Password	
	<pre> odi_domain </pre>									Password	

6. Provide permission to the java project for fetching the user credentials. Provide read permission to Java binary com.ofss.fc.document.upload.ipm.jar from EM.

Figure 16–2 Example of premissions

Create Sys	stem Grant					
There are two dif system. Codebas	ferent types of system policies supported by application server: principal pol se can be either absolute path or relative path.	licy and codebase policy. Principal policy grants permissions and privileg	es to a list of users or roles. Codebase policy grants pe			
Grant To Codebase •						
* Codebase file:/scratch/app/product/fmw/obp/obp.odi.domain/com.ofss.fc.document.upload.ipm.jar						
Permissions						
View 💌 🗖	Add Zelit Z Delete 🛒 Detach					
Permissio	n Class	Resource Name	Permission Actions			
java.security	y.AllPermission	read	read			

- 7. Configuring IPM URL:
 - a. update FLX_FW_ODI_SUB_INTERFACE_TYPE set GEFU_IN_FILE_PATH='http://\${IPM-HOSTNAME}:\${IPM-PORT}/imaging/ws' where SUB_INTERFACE_ID='9551';
 - b. Replace \${IPM-HOSTNAME} with IPM Hostname or IP address.
 - c. Replace \${IPM-PORT} with IPM Server port number.
- Configure config/properties/OutboundWebserviceConfig.properties to provide OBP Host web service configuration.
 - a. Replace \${OBP-HOST-IP} with OBP Host IP address or hostname.
 - b. Replace \${OBP-HOST-PORT} with OBP Host managed server port.

9. Provide FJ Connection Details in ODI Topology data server ORACLE_HOST.

Figure 16–3 Connection details

Designer Topology ×		📀 Start Page 🛛 🔵 ORA	CLE_HOST ×			
62	<u> -</u>	Test Connection				
Physical Architecture OBP_FSDF OBP_OCH		Definition JDBC	JDBC Driver:	oracle.jdbc.OracleDriver		_
B ··· C OBP_PMU_S B ··· C OBP_PMU_T B ··· C OBP_SRC	RC ARGET	Datasources Version	JDBC URL:	Jupr: oracle: unit: @ 10, 100.0, 102: 1321/PD60102		
	a 🔘 Ist	Privileges Flexfields	Properties			
Data Types			Key		Value	

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17 Additional Recommendations

This chapter provides specific recommendations to be considered for implementation:

17.1 SOA Related

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

17.1.1 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 17–1 Auto Purge

ORACLE Enterprise Manager Fusion Middleware Control 12c	WebLogic Domain v weblogic v
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 alerts. It is strongly recommended to enable Auto Purge to ensure an optimal performance of your runtime environment.	100 M
Auto Purge Job SOA Flow Purge Job 1	Apply
Schedule	
Enter a valid calendaring expression.	
* Job Schedule freq-daily: byhour=0; bysecond=0	
Configuration	
* Purge Type SINGLE V	
Retain Data 5 🔹 days	
Data within this interval is HOT purged when the job runs	
Batch Size 20000 A V	
More Auto Purge Configuration Properties	

17.1.2 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 17–2 Lazy Loading Settings

ORACLE Enterprise Manager Fusion Middleware C	Control 12c		🔚 WebLogic Domain 🔻 weblogic 🔻 🚥			
t soa-infra o t SOA infrastructure → Svstem MBaan Browser				ि ▼ 🐼 ▼ Apr 19, 2018 7:57:07 PM GMT+05:30 🍤		
A Z oracle as soainfr	Application Defined MRean	e: SoalnfraConfigueoa infra		Analy Paula		
	Application Defined Moeans	s. Soannaconng.soa-nna				
Application Defined MBeans	The changes made on this mbean	are not managed by the configuration session. The chang	es will be	applied immediately. You cannot undo the changes from the Change Center.		
 ▲ Scalint config ▲ Scalint aConfig ■ scalint aConfig 	Show MBean Information Attributes Operations Notifications					
	Name	Description	Access	Value		
	1 AuditConfig	Audit Configuration	RW	javax.management.openmbean.CompositeDataSupport(compositeType=javax.management.openm		
	2 AuditLevel	Audit level. The possible values are Off, Production and Dev	RW	Production		
	3 AutodeployDir	The composite auto deployment directory.	RW			
	4 BulkRecoveryConfig	Configuration for bulk recovery of faults.	RW	javax.management.openmbean.CompositeDataSupport(compositeType=javax.management.openm		
	5 CacheConfig	Cache Configuration	RW	javax.management.openmbean.CompositeDataSupport(compositeType=javax.management.openm		
	6 CallbackServerURL	This URL is sent by the server as part of the asynchronous $\ensuremath{c}\xspace\ldots$	RW			
	7 CompositeLazyDeployment	Flag to indicate whether SOA composites will be lazily loaded	RW	false		
	8 CompositeLazyLoading	Flag to indicate whether SOA composites will be lazily loaded	RW	true		
	9 ConfigMBean	If true, it indicates that this MBean is a Config MBean.	R	true		
	10 CreateWSCallTrackingMBean	The flag that controls the creation of mbeans to track elapse	RW	false		
	11 DatasourceJndi	The JNDI name for the server datasource. This datasource	RW	Jdbc/SOALocalTxDataSource		

17.2 BPM Worklist Related

This section mentions certain recommendations on usage of BPM worklist.

17.2.1 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 17–3 Claim Action

ORACLE BPM Worklist								
My Tasks(24	i) 🔻 🕂 🥖 💥	Actions 🔻 🗷 🗵	🔍 🔻 Me & My Group All 🗸 Assigned 🗸 😭 🖿					
Status 🖻	title	Reassign						
Ē	Verify Application APP20	Escalate	mission SUB200620180014610					
	Structure Solution of Len	Suspend	80010612003 and Submission SUB200620180014610					
8	Overview of Credit Decis	Start Task	0180014610					
8-	Offer Letter Acceptance	Claim	0010763001 and Submission SUB200620180014764					
8	Overview of Credit Decis	Create To-Do Task	0180014764					
	Structure Solution of Len	any oppication of a 200020	80010761001 and Submission SUB200620180014758					

17.2.2 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 17–4 Enable External Window option

ORACLE: BPM Workli	ist					🔂 c	fssuser 1	•	
				Administration	Evidence Search	Approval Groups	Task Cor	nfiguration	1
Application Preferences	Application Preferences						<u>S</u> ave	Revert w	
		Default assignment filter	Me & My Group All					-	`
		Worklist Action Menu	Show Hide					- 1	
		File Types Allowed for Upload							
		Display task details in external window	Enable Disable					`	'