Oracle® Banking Enterprise Originations

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Preface

This guide describes how to administer the Oracle Banking Enterprise Originations application environment, including user administration, batch execution, DPA approvals, application monitoring, and bank and branch setup.

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

This preface contains the following topics:

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

Audience

This guide is intended for the administrators of Oracle Banking Enterprise Originations.

Documentation Accessibility

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

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Organization of the Guide

This document contains:

Chapter 1 User Administration with OIM

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

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 Application Monitoring Using Administration Application

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

Chapter 7 Application Monitoring Using EM Plugin

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

Chapter 8 Configuration Export-Import Operations

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

Chapter 9 Batch Shells in OBEO

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

Chapter 10 Information Lifecycle Management (ILM)

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

Chapter 11 Transparent Data Encryption (TDE)

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

Chapter 12 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 13 Configure ODI for Inbound Document Upload

This chapter provides the steps to configure ODI for uploading inbound documents.

Chapter 14 Additional Recommendations

This chapter provides specific recommendations to be considered for implementation.

Related Documents

For more information, see the following documentation:

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

Conventions

The following text conventions are used in this document:

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

1 User Administration with OIM

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

1.1 Creating Users in Oracle Identity Manager (OIM)

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

To create users in OIM:

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

Figure 1–1 Creating Users in OIM - Log in

10.180.87.225:14000/identity/faces/: ORACLE' Identity		=31079083504497618_afrWindowMode=08_afrWir	C	C Search Accessibility	☆ Help	About (Oracle -	 ⋒ :
		Sign in with your account User ID xelsysadm Password 						
Copyright © 2001, 2015, Oracle and/or its affi	lates. All rights reserv	ed						

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

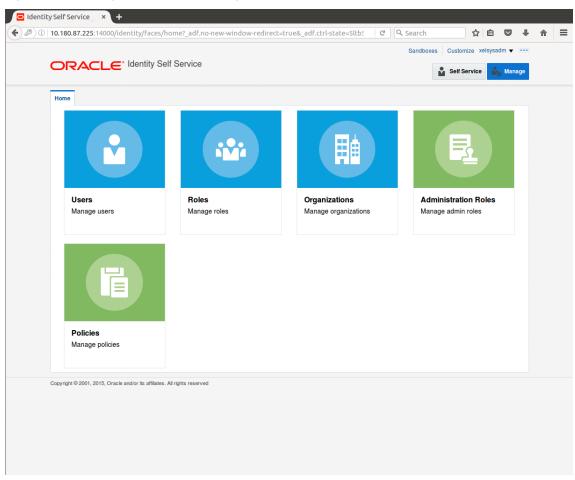


Figure 1–2 Creating Users in OIM - Manage Section

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

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

Figure 1–3 Creating Users in OIM - Click Create

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

ty Self Service ×	<u>(</u>							
10.180.87.225:1400	00/identity/faces/home?_adf.no-new-wind	ow-redirect=true&_adf.ct	rl-state=ry1k	C ^e Search	☆自℃	+	Â	
	- Identity Solf Service			Sandboxes	Customize xelsysadm •			
	€ [*] Identity Self Service			ů	Self Service Ma	nage		
Home Users x C	Create User ×							
Create User				Submit	Save As V Can	el:		
Request Info	ormation							
Effective Date	Ċ.							
Justification								
Basic Information	tion							
First Name Cla		Manager			0			
Middle Name			Xellerate Users		0			
* Last Name Ke	ent	* User Type	Other	-				
E-mail		Display Name		-				
Account Settin	ngs							
User Logir	n Clark							
Password	d	0						
* Confirm Password	d							
Account Effect	ctive Dates							
Start Date	Î							
End Date	٥							
🔺 Provisionina I	Dates							

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

,		ndow-redirect=true&_adf.ctrl-sta	te=ry1k 🗸 🤇 C Search	☆自て	. +
* Confirm Password					
Account Effective Date	15				
Start Date	Ú.				
End Date	D				
Provisioning Dates					
Provisioning Date	Ťœ				
Deprovisioning Date	Ť.				
Contact Information					
Telephone Number		Postal Address			
Home Phone		Postal Code			
Fax		PO Box			
Mobile		State			
Pager		Street			
Home Postal Address		Country			
▲ Preferences					
Locale	-				
Timezone	2				
A Other Attributes					
Common Name		Locality Name			
Department Number		Initials			
Employee Number		Title			
Generation Qualifier					
Hire Date	te				

Figure 1–5 Enter User Details (Continued)

6. Click Submit.

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

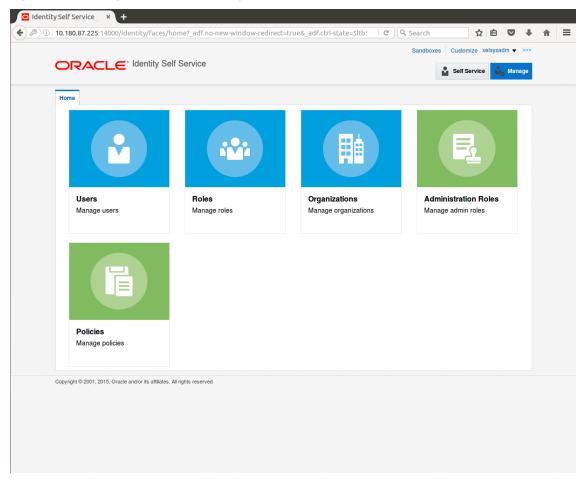
1.2 Creating Roles in Oracle Identity Manager (OIM)

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

To create roles in OIM:

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

Figure 1–6 Creating Roles in OIM - Manage Section



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

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

4. Fill the role details.

10.180.87.225:14000/identity/	faces/home?_adf.n	io-new-window-redire	cc=true&_adr.ctrl-s	state=5ltb! ~ C	. Search	☆ 自 ♥
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	ty Self Service				Se	elf Service 🏼 🎝 Mana
Home Roles x Create Role x]					[
Create Role						
This wizard walks you through the s	teps to create a Role.		-		-	
Back Attributes	Hierarchy	Access Policy	Members	Organizations	Summary	Cancel Next
* Display Name	TestFullAccess					
* Display Name Role E-mail Role Description	TestFullAccess					
Role E-mail Role Description * Owned By						
Role E-mail Role Description	TestFullAccess	Q				
Role E-mail Role Description * Owned By	TestFullAccess System Administrator					
Role E-mail Role Description * Owned By	TestFullAccess System Administrator Role					
Role E-mail Role Description * Owned By A Catalog Attributes * Category	TestFullAccess System Administrator					

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

5. Click Finish. The role is created successfully.

This role creates a group in OID.

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

					Sandboxes Cus	stomize xelsysadm 🔻 🗉
	ty Self Service				Se	elf Service 🎝 Manag
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Create Role This wizard walks you through the s	topa to graata a Rala					
Attributes	Hierarchy	Access Policy	Members	Organizations	Summary	Cancel Finish
Role Definition Summar Review the information entered so Attributes		create the role.				
Display Name	TestFullAccess					
Role E-mail						
	TestFullAccess					
Role Description						
Owned Ry	System Administrator					
Catalog Attributes	Gystern Administrator					
▶ Hierarchy						
Access Policy						
Members						
Organizations						

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

1.3 Assigning Roles to Users in OIM

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

To assign a role to a user:

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

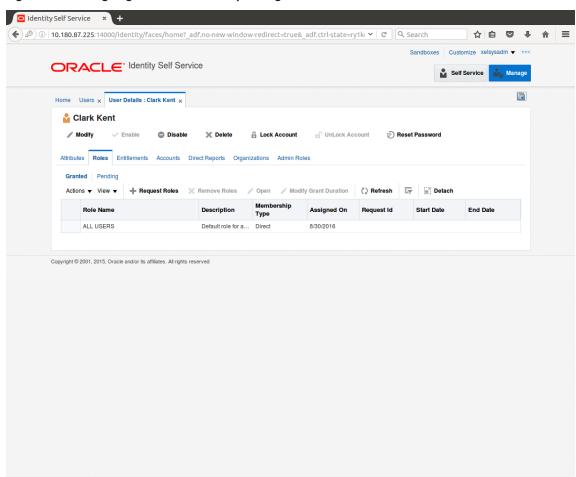


Figure 1–10 Assigning Roles in OIM - Requesting Roles

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

Home Users x User Details : Clark Kent x Role Access R	equest ×		l
Back Add Acce	ss Checkout	Cancel Next	Cart 🚍 Clark Kent 🎦
Search Keyword Search Categories Sort By Display Name		📲 Add Selected to Cart	
Select All TestFullAccess Role (1) TestFullAccess			ırt
opyright © 2001, 2015, Oracle and/or its atfliates. All rights reserved			

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

5. Click Checkout.

Home Users x User D	etails : Clark Kent 🗙	Role Access Request ×						(
	Back	Add Access	Checkout	Cancel Nex	t		Car l Clark Kent	} ₽
Search and select indivi	dual items from the Ca	atalog tab. Sets of pre-bur	ndled items commo	only used in your organiza	tion can be select	ed from the Requ	uest Profiles	tab.
Catalog Request Pro	lles							
Search Keyword								
	Search							
Categories Sor	t By Display Name	ŀ		- Add S	elected to Cart			
Select All	TestFullAcces			0	🕂 In Cart			
🔀 Role (1)	TestruinAccess	•						
Copyright © 2001, 2015, Oracle a	nd/or its affiliates. All rights	reserved						

Figure 1–12 Assigning Roles in OIM - Checkout Cart

6. In the Cart Details page, click Submit.

	00/identity/faces/hom	<u></u>			=ry1k: C	Search Sandboxes Custon	hize xelsysadm ▼	+ 1
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Home Users x	User Details : Clark Kent 🗙	Role Access Requ	uest ×				[
	Back	Add Access	Checkout	Cancel	Next		Clark Kent 船	
Cart Details						Submit	Save As ▼	
⊿ Request I	nformation							
Justification								
Cart Items								
Display Name	stFullAccess						X 0	
	s TestFullAccess						Update	
Grant	Duration							
	Grant will be effective	immediately upon r	equest completion					
	Start Date	Ċ	End Date					

Figure 1–13 Assigning Roles in OIM - Submit Cart

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

1.4 Locking Users in OIM

This section explains how to lock the user in OIM.

To lock a user:

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

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

3. Click Lock.

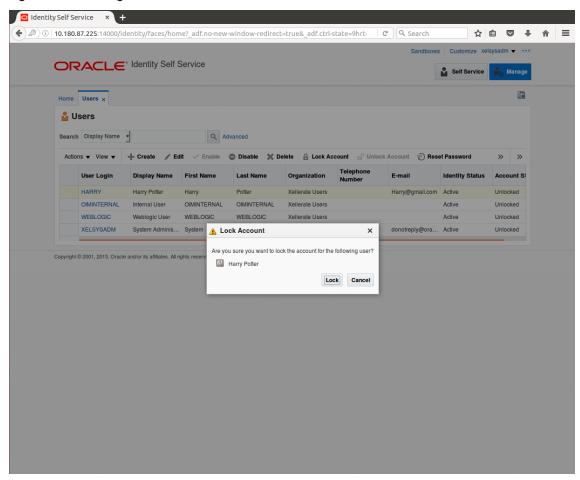


Figure 1–14 Locking Users in OIM

The user is locked successfully.

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ບ	sers								
		•	Q Ad	vanced					
		_							
Actio	ns ▼ View ▼	- Create / Ed		Disable X D		count 👩 Unloc		et Password	» »
	User Login	Display Name	First Name	Last Name	Organization	Number	E-mail	Identity Status	Account S
	HARRY	Harry Potter	Harry	Potter	Xellerate Users		Harry@gmail.com	Active	Locked
	OIMINTERNAL	Internal User	OIMINTERNAL	OIMINTERNAL	Xellerate Users			Active	Unlocked
	WEBLOGIC	Weblogic User	WEBLOGIC	WEBLOGIC	Xellerate Users			Active	Unlocked
	XELSYSADM	System Adminis	System	Administrator	Xellerate Users		donotreply@ora	Active	Unlocked

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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🔒 U	Isers								
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Search	h Display Name	<u> </u>	Q Ad	dvanced					
Actio	ons 🔻 View 🔻	+ Create 📝 Ed	it 🗸 Enable	Disable X D	elete 🔒 Lock Ad	ccount 👩 Unio	ck Account 💮 Res	et Password	» »
	User Login	Display Name	First Name	Last Name	Organization	Telephone Number	E-mail	Identity Status	Account S
	HARRY	Harry Potter	Harry	Potter	Xellerate Users		Harry@gmail.com	Active	Unlocked
	OIMINTERNAL	Internal User	OIMINTERNAL	OIMINTERNAL	Xellerate Users			Active	Unlocked
	WEBLOGIC	Weblogic User	WEBLOGIC	WEBLOGIC	Xellerate Users			Active	Unlocked
	XELSYSADM	System Adminis	System	Administrator	Xellerate Users		donotreply@ora	Active	Unlocked
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Copyright	© 2001, 2015, Oracle	andor its affiliates. Al ri	ghts reserved						

Figure 1–16 Unlocking Users in OIM

The user is unlocked successfully.

1.6 Resetting User Password in OIM

This section explains how to reset user password in OIM.

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

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	User Login	Display Name	First Name	Last Name	Organization	Telephone Number	E-mail	Identity Status	Account	t SI
	HARRY	Harry Potter	Harry	Potter	Xellerate Users		Harry@gmail.com	Active	Unlocked	i
	OIMINTERNAL	Internal User	OIMINTERNAL	OIMINTERNAL	Xellerate Users			Active	Unlocked	ł
					Vellerate Lleare			Active	Unlocked	
	WEBLOGIC	Weblogic User	WEBLOGIC	WEBLOGIC	Xellerate Users					ł
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Figure 1–17 Resetting User Password in OIM

The **Reset Password** dialog box appears.

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

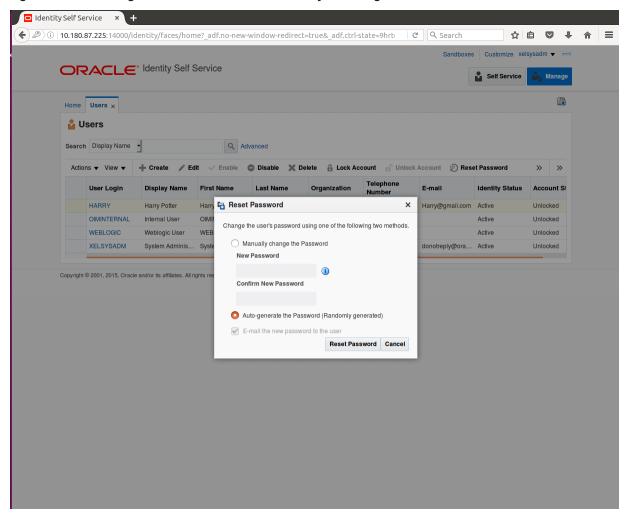


Figure 1–18 Resetting User Password in OIM - Manually or Auto-generate

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

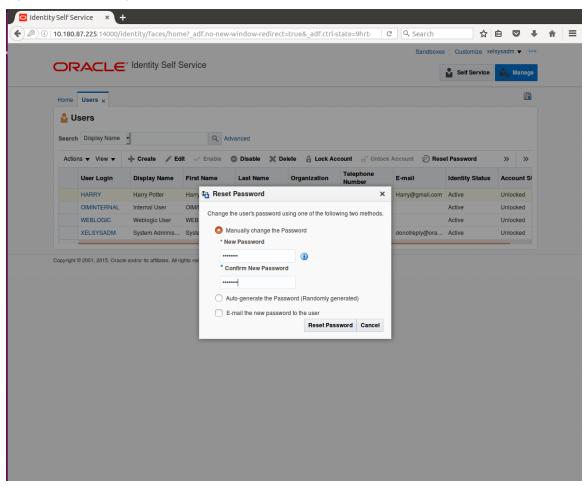


Figure 1–19 Resetting User Password in OIM - New Password

The user password is reset successfully.

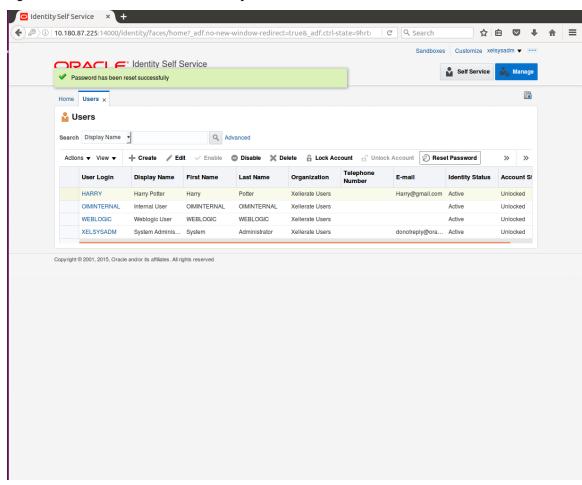


Figure 1–20 Password Reset Successfully

1.7 User Management Using the Admin Application

The User Management screen is a quick start UI, provided to create initial users and verify the OBEO 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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ser Manage	ment						Print of	∕∕ O <u>k</u>	<u> Cl</u> ear	×
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sername	Target Unit	Branch	Delete							
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User Deta		Prefer		_			Edit App	y change	Assig	gn Rol
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(User Deta	Username First Name Last Name Email Password Confirm password	For Last Logge	rred Language Accrediation Brand 2FA Status um Nick Name Party Id				Edit App	y change	as Assig	gn Rol

Figure 1–21 Adding a User

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

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

Figure 1–22 Enter Mandatory Details

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

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

Figure 1–23 Applying Changes

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

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		Harry@gmail.com		2FA Status								
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Figure 1–24 Adding User to a Group

The available and assigned roles appear.

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All Roles Role TestFullAccess	3	< >	Assigned R Role No data to dis														

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.

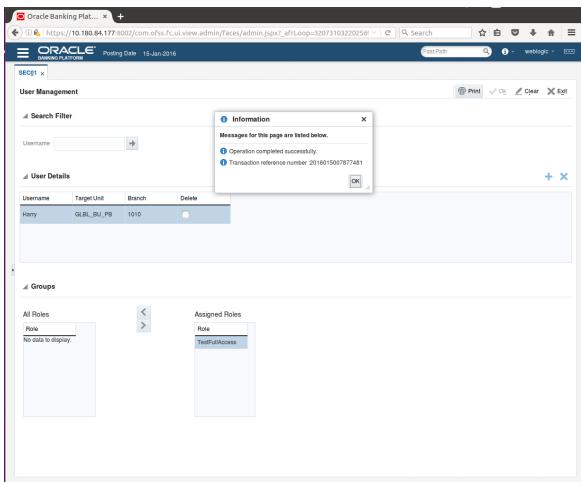


Figure 1–27 Save Changes

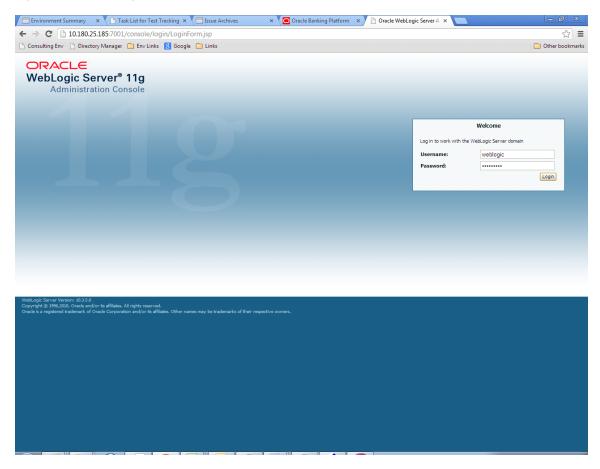
1.8 Unlocking Users in Oracle WebLogic Server (OWS) Administration Console

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

Figure 1–29 base_domain

10.180.25.185:7001/console/console_portal?_nfpb=true&_pageLabel=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

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

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

Environment Summary × Task	List for Test Tracking 🗙 🗡 🚍 Issue Archives 🛛 🗙 🗙 🔁 Ora	icle Banking Platform 🗙 🕒 Security - base_domain - 🗤 🗙 🔲 🗖 🔀
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Change Center	🔒 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: base_domain
View changes and restarts	Home >base_domain	
Click the Lock & Edit button to modify, add or delete items in this domain.	Settings for base_domain	
Lock & Edit	Configuration Monitoring Control Security Web Service Secur	ity Notes
Release Configuration	General Filter Unlock User Embedded LDAP Roles Policies	1
Domain Structure	Save	
Base_domain B⊡Environment B⊡Services B⊡Services	If a user unsuccessfully attempts to log into a WebLogic Server instance This page allows you to unlock a locked user so that they can log in again	more than the configured number of retry attempts, they are locked out of further access.
Interoperability Diagnostics	Unlock User: HardikA	Name of a specific user to unlock. More Info
	Save	
How do I		
Unlock user accounts		
Set user lockout attributes		
System Status		
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Failed (0) Critical (0) Overloaded (0) Warning (0) OK (2)		
WebLogic Server Version: 10.3.5.0 Copyright © 1996,2010, Oracle and/or its affiliates. All Oracle is a registered trademark of Oracle Corporation	ights 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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🗖 Environment Summary 🛛 🗙 🎦 Task	List for Test Trac	king 🗙 🔚	Issue Archives		×	🖸 Oracle	Banking Platfo	rm ×	🗈 Security - base_domain - 🛛 🗙 🦲	- 8	X
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Change Center View changes and restarts Click the Lock & Edit button to modify, add or delete items in this domain. Lock & Edit Lock & Edit button to modify, add or delete items in this domain. Domain Structure base_domain Deployments Descript Security Realms De Interoperability Diagnostics	Home >base, Messages	cessfully unlocke base_domain Monitoring ilter Unlock I	d. Control Sec Jser Embedd	ed LDAP	Roles gic Server	ice Security Policies	Notes	gured num	We iber of retry attempts, they are locked out of furthe	Scome, weblogic Connected to: base_	domain
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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	l rights reserved. n and/or its affiliates.	. Other names ma	y be trademarks o	f their res	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 OBEO

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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Copyright © 1996, 2016, Oracle and/or its affiliates. All rights reserved. /	Oracle is a registered trademark of Oracle Corpo	oration and/or its affiliates. Other names may be trademarks of their respecti	ive owners.	OF

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Figure 1–34 Click Application Roles

Figure 1–35 Select Administrators Role

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ew v 🕍 Create 🖹	Create Like / Edit X Delete		🖙 🖬 Deta
Role Name	Display Name	Description	
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OffineRole	OffineRole	OffineRole	
Individual-Broker	Individual-Broker	Individual-Broker	
Individual-Introducer	Individual-Introducer	Individual-Introducer	
Organisation-Broker	Organisation-Broker	Organisation-Broker	
Organisation-Introducer	Organisation-Introducer	Organization-Introducer	
ATM_Role	ATM_Role	ATM_Role	
POS_Role	POS_Role	POS_Role	
QualityAdministrator	QualityAdministrator	QualityAdministrator	
Developer SystemAdministrators	Developer SystemAdministrators	Developer SystemAdministrators	
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CinSupervisorCin	CinSupervisorCin	CinSupervisorCin	
CinSupervisorRecov	CinSupervisorRepov	CinSupervisorRecov	
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Figure 1–36 Add Principal

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Edit Application Role : A	dministrators									OK Cancel
Role (or Enterprise Role) is the group of	users designed at the enterprise level and typically used to	assign a privilege or permission. A role ca	an elso contein other roles es r	nembers.						
General										
Application Stripe	OBP									
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Display Name	Administrators		cify criteria to search and selec	t the application ro	es that you want to grant pe	rmissions to.				
Description	Administrators	4	Search				- 1			
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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	Loan account configuration (New or Amend)
2	CASA account configuration
3	Term deposit account configuration
4	Overdraft account configuration (New or Account)
5	Origination or Application processing Fees

Table 2–1 List of Functions for Fee Configuration

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

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

Table 2–2 List of Functions for UDM Configuration

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

2.1.1 Setup Details

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

2.1.1.1 Policy Setup in UI

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

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

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

Figure 2–1 Log in to UI to Configure Policies

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2. Enter SM502 in the fast path.

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Figure 2–2 Search for SM502 in Fast Path

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

Figure 2–3 Policy Management

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4. Enter the service for which policy needs to be defined.

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

For example,

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

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Figure 2–4 Enter Service for Policy Definition

5. Click the + sign if you need to add a new policy along with the Role for which the policy is to be enabled.

Figure 2–5 Effect of the Policy

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Figure 2–6 Action of the Policy

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

Figure 2–7 Conditions of the Policy

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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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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:

 ${\sf HT_LendingSpi_ConfirmStructureSolutionRules.rules}$

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Figure 2–9 Find the Rules for Service

Figure 2–10 Filter Rules

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

Figure 2–11 Searching Specific Process

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

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Figure 2–12 Creating the Rule

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

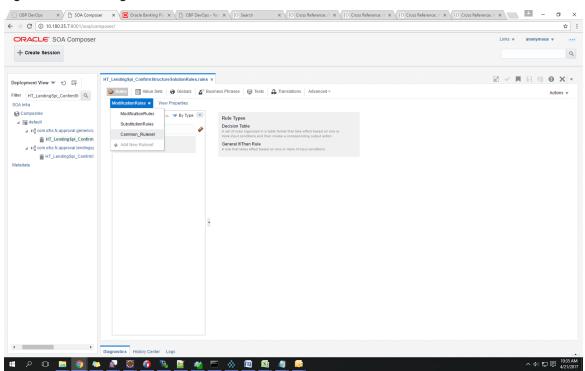


Figure 2–13 Selecting Rules File

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

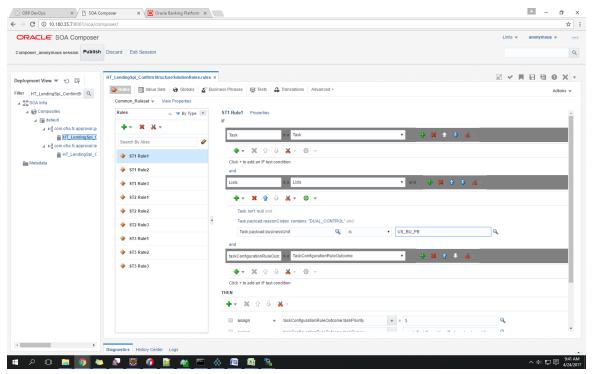
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The rule being created must be Active rule.

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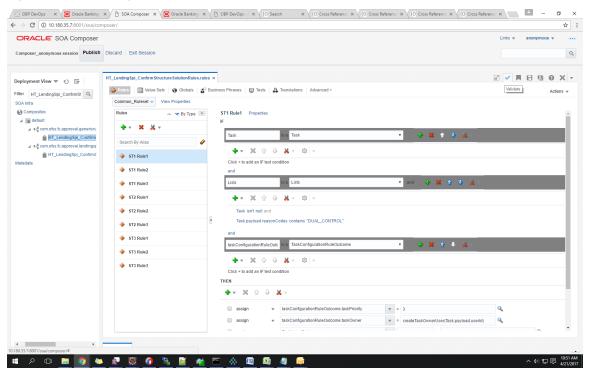
Figure 2–14 Adding Attributes to the Rule File

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

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- Click + to add an IF test condition	
THEN	
assign v taskConfigurationRuleOutcome taskPriority v = 3	
astConfigurationRuleOutcome taskOwner v = create Task.payload userid)	

2.1.1.3 SMS Setup

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

Note

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

The following procedure is performed during SMS setup:

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

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

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

Figure 2–19 Search for Service Using Entire Service Name

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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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com.ofss.fc.app: Pricing - EventPriceAppli Get Compute Fe Charge Date SERVICE	icationS ee On	com.ofss.fc.appx.loan Loan - LoanScheduleSimulati Simulate And Save Repayment Schedule SERVICE	com.ofss.fc.appx.co Collection - SupervisoryLogDtlAp Create SERVICE	Sms -	s.fc.appx.sms.s UserManagem 1 Users E	com.ofss.fc.appx.resou Resourceitem - ResourceitemLinkageA Delete Resource Item Linkage SERVICE	com.ofss.fc.appx.party Party - ImageApplicationServi Update Image SERVICE	com.ofss.fc.appx.loan.s Loan - LoanScheduleConfigur Get Current Stage For Loan Stage Configuration SERVICE	com.ofss.fc.appx.party Party - FatcaDetailsApplicatio Reopen Fatca Details SERVICE	com.ofss.fc.appx.td.ser Td - InvestmentSimulation Fetch Frequencies For Product SERVICE	com.ofss.fc.appx.ins.se Ins - InsuranceSimulationSu Fetch By Version SERVICE	com.ofss.fc.appx.dda.s Dda - SweepOutInstructionA Close Sweep Out Instruction SERVICE	com.ofss.fc.appx.origin Origination - LendingApplicationSer Confirm Structure Solution SERVICE
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2.1.2 Performing the Transaction

Following procedure explains how to perform a transaction:

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

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Figure 2–23 Fee Negotiation

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Fees									
View 👻 🔐 Detach									
Event Name	Base Price Name - ID	Derivation Clause	Fee Type	Base Price Type	Net Fee	Actions			
Fee charged for late bill payment	Bill Late Fee BILLLATEFEE		Online	Fixed	\$25.00 USD	e, i e,	^		
Bill Consolidation for bill paid through Checking and Savings	Bill Payment US Bill_Payment_Fees_US		Online	Fixed	\$0.20 USD		1.5		
Bill payment from Checking and Savings to Biller's GL	Bill Payment US - Bill_Payment_Fees_US		Online	Fixed	\$0.20 USD				
Bill payment from Checking and Savings to Biller's Checking and Savings	Bill_Payment_US - Bill_Payment_Fees_US		Online	Fixed	\$0.20 USD				
Cash Deposit - Checking and Savings	DEPOSIT FEE ONLINE EOP EOM CBBCA1 CS_CASH_DEPOSIT_4		Online	Fixed	\$6.50 AUD				
Negotiate Cheque Dep	osit US-ChqDep_Fees_	US Details							
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	* Negotiate Discou	int * \$1.00	USD						
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	Net Fee \$9.00 U	ISD (Initial \$10.00)							
	* Validity From Apr 5,		7 (m Apr 5, 2017)						
	• Reason Test		Apr 3, 2017						
	* Remarks ok								
	Document Uploa	d							

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

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ight © 2005, 2016, Oracle and/or its affiliates. All rights reserved.		ORACLE

Figure 2–24 Log in to Approval Worklist

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

Views Image: Constant Status 8 Title Number Creator Adigney Priority InDox Status 8 Title Number Creator Assigned Priority Indiated Tasks Indiated Tasks Structure Solution of Lending Application APP201020160002797 and Submission SUB201020160003564 20334 JS 2104/2017 540 PM 3 My Tasks Indiated Tasks Structure Solution of Lending Application APP201020160002797 and Submission SUB201020160003564 20334 JS 2104/2017 540 PM 3 My Tasks Indiated Tasks Structure Solution of Lending Application APP201020160002792 and Submission SUB201020160003564 20334 JS 2104/2017 540 PM 3 My Tasks Structure Solution of Lending Application APP201020160002792 and Submission SUB201020160003563 20334 JS 2104/2017 540 PM 3 My Tasks Structure Solution of Lending Application APP201020160002792 and Submission SUB201020160003563 20334 JS 2104/2017 151 PM 3 My Start Tasks Structure Solution of Lending Application APP201020160003792 and Submission SUB2010201600003563 20334 JS 2104/2017 151 PM 3 Administrative Tasks Structure Solution and Report. Nexthart Vala			Application Form × BPM Worklist integration/worklistapp/faces/home.ispx	×				×
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			 Purchase or Cost Additional Parameters Bank Fees 	\$585.60	▶ Facility	Escalate Renew Suspend		

Figure 2–25 Approve or Reject Work item

4. View the status of the work item.

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

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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 Approval	Required for the MCD Appro	vals
---	----------------------------	------

State
Business Unit
Currency
Personal Aggregate Application Amount

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

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

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

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

2.2.1 Setup Details

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

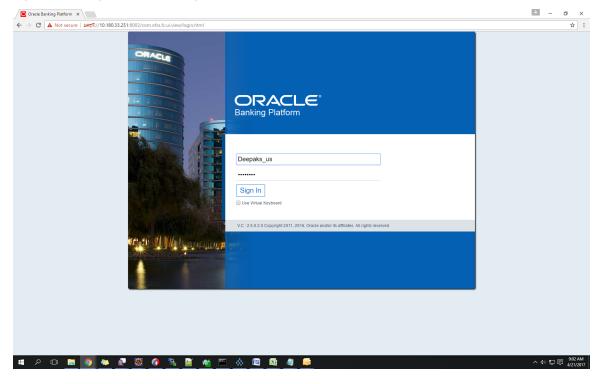
2.2.1.1 Policy Setup in UI

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

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

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

Figure 2–27 Log in to UI to Configure Policies



2. Enter SM502 in the fast path.

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C C A Not secure Det C/10.180.332.251:0002/com.ofs.sfc.uk.view/faces/main.jspx Det Compare Latroat C Costing Date Apr 5,2016	(sm502) 🔍 🏂 😽 - 🗙 🛈	☆ :
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Figure 2–28 Search for SM502 in Fast Path

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

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Figure 2–29 Policy Management

4. Enter the service for which policy needs to be defined.

For example,

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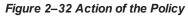
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Figure 2–30 Enter Service for Policy Definition

5. 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



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

Figure 2–33 Conditions of the Policy

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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:

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

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

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

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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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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.origination.service.lending.core.application.LendingApplicationServiceSpi.confirmStructur eSolution.

Step 2 Enable Dual Authorization or/and adding other severity

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

- 1. Log in to Oracle Banking Enterprise Originations.
- 2. Navigate to Artifact Dependency Map (Fast path: SM500) page.
- 3. In the Search Text field, enter the service-name.

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

4. 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)

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

Figure 2–41 Approval Checks tab - Add Approval Checks

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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 page Artifact Dependency Map (Fast path: SM500).

Follow the below steps to configure severity:

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

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Figure 2–42 Dual Control

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

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ANY			BR	N	1000		IGNORE						*	

Figure 2–43 Update 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.
Severity	 Override: Transaction will be sent for Authorization.
	 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 2.1.2 Performing the Transaction

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

Create Session	nposer
Deployment View	Image: String

Figure 3–2 SOA Composer – Selecting Rules Dictionary

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	VerifyApplicationHTRulesBase	
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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

+ Create Session	
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VerifyApplicationHTRulesBa: VerifyApplicationTaskConfi	Rulesets are on stack once (2)
adata	Tests v
	Initial Actions Inputs Outputs Rulesets,& Decision Functions
	assert v 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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a 🔐 default	FirstStageAssignmentRuleSet	IF	
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atadata		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(applicationSummaryDTD.header.initiatedBy)	
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Figure 3–5 shows what a ruleset looks like.

Figure 3–5 SOA Composer - Viewing a ruleset

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

3.2 Inputs to Decision Function

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

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

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

VerifyApplicationTaskConfigRules.rules ×											
🚳 Rules 📄 Value Sets 🚯 Glob	als 🛛 🗳 B	Business Phrases	ज्जू Tests	🔒 Translations	Advanced >	Q Explorer	II ∖ Facts	🏚 Dec	ision Properties	& Links	
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	🛃	applicationSun	imaryDTO		applicationS	ummaryDTO		1			
	🔄 customAttribute		35		customAttrib	customAttributes		4			

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

3.2.1 Custom Input Attributes

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

- CustomTextAttributeList
- CustomNumberAttributeList
- CustomDateAttributeList

Each of these members has a list of respective types,

- CustomTextAttribute
- CustomNumberAttribute
- CustomDateAttribute

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

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

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

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

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

Figure 3–7 shows example usage of custom attributes.

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

```
assign new 

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

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

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

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

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

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

3.3 Output from Decision Function

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

Figure 3–8 shows output definition of decision function.

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

Ver	ifyApplica	ationTaskConfigR	Rules.rules	×											
8	Rules	Value Sets	🚱 Glo	bals	🖌 Bus	siness Phrases	₩ Tests	👿 Tests 🖨 Translations Advanced > Q Explorer II\ Facts 🍫 Decision Properties & Links							
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						Description									
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			Rulesets are on stack once (2)												
						Tests	T								
				Initial Actions Inputs Outputs Rulesets_& Decision Functions											
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				🖻	taskConfigurat	ionRuleOuto	ome	taskConfigu	urationRuleOutco	me					

3.3.1 List of Configurable Attributes in Rule Outcome

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

1. Task Priority

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

2. Service Level Agreement (SLA)

SLA consists of taskExpirationDuration and taskDueDuration.

To set SLA for the human task:

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

For example:

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

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

P is a literal value that starts the expression

nY represents n years

nM represents n months

nD represents n days

T is a literal value that separates date and time

nH represents n hours

nM represents n minutes

nS represents n seconds

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

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

3. Task Owner

Task owner can be set via following steps:

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

For example:

assign taskConfigurationRuleOutcome.taskOwner = createTaskOwnerUser("user1")

4. Stage Participant

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

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

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

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

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

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



5. Custom Output Attributes

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

- addCustomTextAttribute
- addCustomNumberAttribute
- addCustomDateAttribute

Figure 3–10 shows example usage of custom attributes.

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

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

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

 addCustomTextAttribute(taskConfigurationRuleOutcome, "dummyCustomOutputText", dummyCustomInputText)

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

 assign < dummyCustomInputNumber = dummyCustomInputNumber + 7</td>

 addCustomNumberAttribute(taskConfigurationRuleOutcome, "dummyCustomOutputNumber", dummyCustomInputNumber)

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

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

 addCustomDateAttribute(taskConfigurationRuleOutcome, "dummyCustomOutputDate", dummyCustomInputDate)

3.3.2 List of Functions to Set Rule Outcome

Following functions are available to configure the TaskConfigurationRuleOutcome:

1. getTaskPrioriy(String priority): int

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

This method can be used when assigning the TaskConfigurationRuleOutcome.taskPriority

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

3. createParticipantFromUsers(String users): ParticipantSet

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

4. createParticipantFromGroups(String groups): ParticipantSet

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

10. addUserAttributeFilterCriteria (UserFilterCriteriauserFilterCriteria, UserAttributeFilterCriteria): UserFilterCriteria

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

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

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

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

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

12. addStageParticipant

(TaskConfigurationRuleOutcometaskConfigurationRuleOutcome, StageParticipant stageParticipant): TaskConfigurationRuleOutcome

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

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

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

13. createTaskOwnerUser(String ownerUser): ParticipantSet

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

14. createTaskOwnerGroup(String ownerGroup): ParticipantSet

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

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

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

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

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

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

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

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

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

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

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

18. addStageParticipantWithStageNam

(TaskConfigurationRuleOutcometaskConfigurationRuleOutcome,StageParticipant stageParticipant,StringstageName): TaskConfigurationRuleOutcome

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

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

4 Data Management

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

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

		Fast Path/Screen Name	Q
Teodi <u>o</u> ×			
End of Day			Print 🗷 Clear 🗙 E <u>x</u> it
Category Details			^
* Process Category		Category Status	
Job Type		Process Date	
Job Code	<u>I</u> ≈	Next Process Date	
Category Start Time		Category End Time	
Polling Interval		Last Refreshed Time	
✓ Process			G Restart Start Recover
✓ Shell Details			Q
Clear All Filters			
View + JI Export To Excel	ach		

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

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

≡ <	DRACLE®								Fast Path/Screen Name 9 🗮	★	Posting Da Jul 24, 201	te 7 t3010	-
* •													
End	of Day										Print	Z Clear	🔀 Egit
.⊿ Ca	tegory 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				
⊿ Pr	ocess									Ģ	Restart	Start	Recover
⊿ Sh	ell 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									
<													>

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

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

Figure 4–3 Cutoff Category - Start

							Fast Path/Screen Name	9	* -	Posting Da Jul 24, 20	ate 17 t3010	
# EOD1 <u>0</u> ×												
End of Day										Print	Z Clear	≫ Egit
✓ Category Details		0 Info	rmation			<						
Process Category Cutoff	~	The catego	ory has starte	d. Logging Level	- WARNING		Category Status Fresh Start	6				
* Job Type GROUP 🛩					ок		Process Date Jul 21, 2017	20				
• 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 11:57:59					
⊿ Process									G	Restart	Start	Recover
✓ Shell Details												G
Clear All Filters												
View 👻 🎵 Export To Excel 📴 🔛 Detach												
	~											
Name of Shell	Status Tren	d Duration	No of Aborts	Throughput	Total Records	Status	Expected Completion Time					
Cutoff Prologue	Not Started Tren	d 00:00:00										
https://mum00chi.ip.oracle.com:30162/com.ofss.fc.ui.view/faces/main.is												

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 13010 -	
# EOD10 ×									
End of Day								Print Z Clear 💥	Exit
✓ Category Details									
Process Category Cutoff	~							Category Status Completed	
• Job Type GROUP 🗸								Process Date Jul 21, 2017	
Job Code BRN_GRP_1 V								Next Process Date Jul 24, 2017	
Category Start Time 03-Apr-2018 11:58:	1							Category End Time 03-Apr-2018 11:58:11	
Polling Interval								Last Refreshed Time 03-Apr-2018 11:58:20	
✓ Process								A Restart Start Rec	cover
⊿ Shell Details									Ģ
Clear All Filters									
View * 💯 Export To Excel 📴 🖃 Detach									
	~								
Name of Shell	Status	Trend	Duration	No of Aborts	Throughput	Total Records	Status	Expected Completion Time	
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

							Fast Path/Screen Name Q	■ ★ Posting Date Jul 24, 2017 t3010 - □□
fodig ×								
End of Day								Print 🧷 Clear 🗙 Exit
✓ Category Details								^
Process Category End of Day	~						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 11:59:36	
A Process A Shell Details								C Restart Start Recover
Clear All Filters View * J Export To Excel								
View • 3° Export to Excer • * * * betach	~							
Name of Shell	Status Tren	d Duration	No of Aborts	Throughput	Total Records	Status	Expected Completion Time	
Reg CC Schedule Generation EOD Shell	Not Started Tren	d 00:00:00						^
Bundle Reports	Not Started Tren	d 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 t3	010 - 🚥
* EOD10 ×										
End of Day									Print Z Cle	ar 🗙 E <u>x</u> it
✓ Category Details		Infor	mation		:	×				^
* Process Category End of Day	~	The categor	ry has started	d. Logging Level	= WARNING		Category Status Fresh Start			
* Job Type GROUP 🗸					ок	4	Process Date Jul 21, 2017			
* Job Code BRN_GRP_1							Next Process Date Jul 24, 2017			
Category Start Time							Category End Time			
Polling Interval							Last Refreshed Time 03-Apr-2018 12:00:42			
Process A Shell Details								Q R	estart Start	
										Ģ
Clear All Filters View * F Export To Excel										
View + 3% Export to Excel	~									
Name of Shell	Status Trend	Duration	No of Aborts	Throughput	Total Records	Status	Expected Completion Time			
Submission EOD Expiry Shell	In Progress 😐	00:00:00		0	0	0%	03-Apr-2018 08:00:41			Ŷ
Value Date EOD Shell	Not Started 😐	00:00:00		0	0	0%				~
	spx#									

Figure 4–7 EOD Category - In Progress

								Fast Path/Screen Name Q	Po: Jul	sting Date 24, 2017	3010 -	
TEOD10 ×												
End of Day										Print 🗷 O	lear 🗙	E <u>x</u> it
✓ Category Details												^
* Process Category End of Day	~							Category Status In Progress				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 12:00:	40							Category End Time				Ш
Polling Interval								Last Refreshed Time 03-Apr-2018 12:01:08				11
^I ⊿ Process									C+ Rest	art Start	Recover	
✓ Shell Details											0	
Clear All Filters												
View * 🎟 Export To Excel												1
	~											
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%				^	ŝ.
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 Q	Posting Date Jul 24, 2017 t3010 -	
EOD10×										
End of Day									Print 🧷 Clear 🗙	Exit
✓ Category Details										^
* Process Category End of Da	y V							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-201	8 12:00:40							Category End Time 03-Apr-2018 12:01:30		
Polling Interval	\sim							Last Refreshed Time 03-Apr-2018 12:02:05		
✓ Process									Q Restart Start Recove	s
∡ Shell Details									c	5
Clear All Filters										
View 👻 🇊 Export To Excel 📴 📰 Detach										
	~									
Name of Shell	Status	Trend		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.

								Fast Path/Screen Name Q	🗏 🌟 - Posti Jul 24	g Date 2017 t301	0
# EODIQ ×											
End of Day									Pri	nt 🧷 Clear	🔀 E <u>x</u> it
✓ Category Details											^
Process Category Internal System E	od 🗸							Category Status Fresh Start			
* Job Type GROUP 💙								Process Date Jul 21, 2017			
* Job Code BRN_GRP_1								Next Process Date Jul 24, 2017			
Category Start Time								Category End Time			
Polling Interval								Last Refreshed Time 03-Apr-2018 12:03:09			
✓ Process									Q Restar	Start R	ecover
▲ Shell Details											Ģ
Clear All Filters											
View 👻 🎬 Export To Excel 😽 🗟 Detach							G	\$			
	~										
Name of Shell	Status	Trend	Duration	No of Aborts	Throughput	Total Records	Status	Expected Completion Time			
Lending Account Statistics Shell	Not Started	Trend	00:00:00								^
Account Action Internal EOD Shell	Not Started	Trend	00:00:00								
											~

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

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

Figure 4–10 Internal System EOD Category - Start

E ORACLE®								Fast Path/Screen Name Q	🗏 🚖 - Pos Jul 2	ing Date 14, 2017 t301	0
₩ EOD10×											<u> </u>
End of Day									Р	rint 🧷 C <u>l</u> ear	<mark>≫ E</mark> ⊻it
✓ Category Details			Infor	mation		;	<				^
* Process Category Internal System EOI	D ~		The category	y has starte	d. Logging Level	= WARNING		Category Status Fresh Start			
* Job Type GROUP 🗸						ок		Process Date Jul 21, 2017			
Job Code BRN_GRP_1								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 Resta	rt Start R	ecover
											Ģ
Clear All Filters View View											
View 👻 彈 Export To Excel 📴 🔛 Detach	~										_
Name of Shell	Status	Trend I	Duration	No of Aborts	Throughput	Total Records	Status	Expected Completion Time			
Party EOD Shell	In Progress	- (00:00:00		0	0	0%				^
► Interest Shell	In Progress	. (00:00:00		o	0	076				v
https://mum00cbi.in.oracle.com:30162/com.ofss.fc.ui.view/faces/main.js	ox#										

Figure 4–11 Internal System EOD Category - In Progress

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

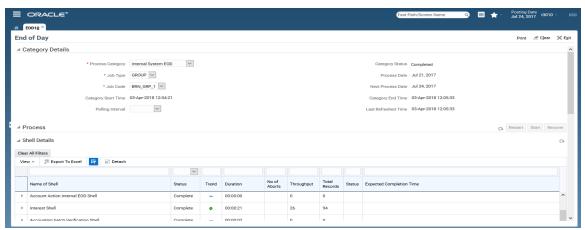


Figure 4–12 Internal System EOD Category - Complete

4.1.6 Beginning of Day (BOD) Category Execution

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

To execute the Beginning of Day category:

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

Process Category	Beginning of Day
Job Type	GROUP
Job Code	BRN_GRP_1

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

Here, the **Shell State** is *Not Started*. The **Category Status** is *Fresh Start*.

Figure 4–13 BOD Category - Not Started

≡	ORACLE®								Fast Path/Screen Name Q 🗮	Posting Dat Jul 24, 201	e t3010	
*	OD1 <u>0</u> ×											
End	of Day									Print	∉ Clea r	≫ E <u>x</u> it
.⊿ Ci	ategory Details											^
	* Process Category Beginn	ing of Day							Category Status Fresh Start			
	Job Type GROUP	~							Process Date Jul 24, 2017			
	Job Code BRN_G	RP_1 ~							Next Process Date Jul 27, 2017			
	Category Start Time								Category End Time			
	Polling Interval	~							Last Refreshed Time 03-Apr-2018 12:06:42			
Pi ⊯ Pi	ocess									G Restart S	art Rec	over
⊿ Sł	ell Details											0
Clear	All Filters											
View	v 👻 🍱 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	E 🛨 - Posting Date 13010 - 🚥
# EOD10 ×								
End of Day								Print 🧷 Cjear 💥 Exit
✓ Category Details			Information		>	¢		^
* Process Category Beginning of Day	~		The category has starte	ed. Logging Level	= WARNING		Category Status Fresh Start	
• Job Type GROUP 🗸					ок		Process Date Jul 24, 2017	
* Job Code BRN_GRP_1							Next Process Date Jul 27, 2017	
Category Start Time							Category End Time	
Polling Interval							Last Refreshed Time 03-Apr-2018 12:07:14	
✓ Process								Restart Start Recover
								Q
Clear All Filters								
View 👻 🇊 Export To Excel 📴 🐨 Detach								
	×							
Name of Shell	Status T	Frend Durati	ion No of Aborts	Throughput	Total Records	Status	Expected Completion Time	
Business Transfer Periodic Execution BOD Shell	In Progress	• 00:00	:00	0	0	0%		^
Payments Auto Credit Run BOD Shell	Not Started	• 00:00	:00	0	0	0%		~
https://mum00cbi.in.oracle.com:30162/com.ofss.fc.ui.view/faces/main.j	px#							



E ORACLE [®]								Fast Path/Screen Name Q	🛛 🌟 - 🖓 Ju	sting Date 24, 2017	3010 -	
TEOD10 ×												
End of Day										Print Z (ilear 🗙 B	Exit
✓ Category Details												^
Process Category Beginning of Day	~							Category Status In Progress				Ш
* Job Type GROUP 🗸								Process Date Jul 24, 2017				Ш
* Job Code BRN_GRP_1								Next Process Date Jul 27, 2017				Ш
Category Start Time 03-Apr-2018 12:07:	4							Category End Time				Ш
Polling Interval								Last Refreshed Time 03-Apr-2018 12:07:26				
✓ Process									C. Res	tart Start	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				
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

EOD10 ×									
nd of Day									Print 🖉 Clear
Category Details									
* Process Category	Beginning of Day							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 12:07:14							Category End Time 03-Apr-2018 12:07:35	
Polling Interval	~							Last Refreshed Time 03-Apr-2018 12:08:29	
Shell Details									
fiew 👻 💯 Export To Excel 📴 🖃 Detact		1							
	Status	Trend	Duration	No of Aborts	Throughput	Total Records	Status	Expected Completion Time	
Name of Shell					0	0			
	Complete	-	00:00:00						
Name of Shell Reg CC Schedule Release BOD Shell Customer Value Date BOD Shell	Complete	-	00:00:00		0	0			

4.1.7 Housekeeping Category Execution

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

To execute the Housekeeping category:

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

Process Category	Housekeeping
Job Type	GROUP
Job Code	BRN_GRP_1

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

Here, the Shell State is Not Started.

The Category Status is Fresh Start.

Figure 4–17 Housekeeping Category - Not Started

	ORACLE®								Fast Path/Screen Name Q) 🗉 ·	Posting Jul 24, 2	Date 1017 t3010	- 6	
<u>*</u> E	DD1Q×													
End	of Day										Print	Z Clear	× E <u>x</u> it	
⊿ Ca	itegory Details												-	^
	* Process Category	Housekeeping							Category Status Fresh Start					
	• Job Type	GROUP V							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					
⊿ Pr	ocess										Q Restart	Start Re	cover	
⊿ Sh	ell Details												0	
Clear	All Filters													
Viev	🗸 🔻 💯 Export To Excel 📴 🗟 Detach													
		~												
	Name of Shell	Status	Trend	Duration	No of Aborts	Throughput	Total Records	Status	Expected Completion Time	G		÷.	~	
-	Facility Auto Closure Shell	Not Started	Trend	00:00:00									^	
	Accounting Event History Shell	Not Started	Trend	00:00:00										
														1

- 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 Prog

							Fast Path/Screen Name Q 🗐 ★ - Posting Date Jul 24, 2017 + 3010 -	
# EOD19 ×								
End of Day							Print 🧷 Clear	🔀 Exit
✓ Category Details								^
* Process Category Housekeeping	~						Category Status In Progress	
* Job Type GROUP 🗸							Process Date Jul 24, 2017	
* Job Code BRN_GRP_1 V							Next Process Date Jul 27, 2017	
Category Start Time 03-Apr-2018 12:10:0	3						Category End Time	
Polling Interval							Last Refreshed Time 03-Apr-2018 12:10:16	
▲ Process							Restart Start Reco	ver
✓ Shell Details								0
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View 👻 📅 Export To Excel 📴 🔛 Detach								
	~							
Name of Shell	Status Tren	d Duration	No of Aborts	Throughput	Total Records	Status	Expected Completion Time	
Move driver table data to History table	Complete Tren	d 00:00:00			-	0%	-	^
Accounting Event History Shell	Complete Tren	d 00:00:00		-	-	0%	-	~

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

								Fast Path/Screen Name Q	目 ★・	Posting Da Jul 24, 201	te 7 t3010	-
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End of Day										Print	Z Clear	🔀 E <u>x</u> it
✓ Category Details												^
* Process Category Housekeeping	\sim	B						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:	3							Category End Time 03-Apr-2018 12:22:49				
Polling Interval								Last Refreshed Time 03-Apr-2018 12:22:49				
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Name of Shell	Status	Trend	Duration	No of Aborts	Throughput	Total Records	Status	Expected Completion Time				
Move driver table data to History table	Complete	-	00:00:00		0	0						^
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https://mum00cbi.in.oracle.com:30162/com.ofss.fc.ui.view/faces/main.j					-	-						~

Figure 4–19 Housekeeping Category - Completed

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

												Print	Æ Clear	3
* Process Category	Alert Generation	\sim							Category Status Fresh Start					
* Job Type	GROUP 🗸								Process Date Jan 1, 2016					
Job Code	BRN_GRP_1								Next Process Date Jan 4, 2016					
Category Start Time									Category End Time					
Polling Interval	\sim								Last Refreshed Time 03-Apr-2018 12:23:24					
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E7 🔐 Detach														
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		Status	Trend	Duration	No of Aborts	Throughput	Total Records	Status	Expected Completion Time					
		Not Started	Trend	00:00:00										
	* Job Type \$\$\screwtyle{3}\$ Job Code Category Start Time Polling Interval	Polling Interval	Job Type GROUP W GROUP W Group W Group Mart Time Polling Interval Status	dob Type GROUP W GROUP W Genegory Start Time Polling Interval Status Trend	dob Type GROUP W GROUP W Genegory Start Time Polling Interval W Status Trend Duration	dob Type GROUP V Group V BINLGRP.T V Category Start Tree Polling Interval	• Job Type GROUP W ↓• Job Code BBN_GBP_1) W Category Start Time Polling Interval W ✓	• Job Type GROUP IV • Job Type GROUP IV • Job Status Polling Interval	• Job Type GROUP ♥ ▶ * Job Code BRN_GBP_1 ♥ Category Start Time Polling Interval ♥ Detach ● Status Trend Duration No of Aborts Throughput Total Records Status	• ob Drye GROUP ♥ Process Date Jan 1, 2016 • ob Code BENLGEP ™ Next Process Date Jan 4, 2016 Category Start Time Category Start Time Category Start Time 03.4pr-2018 12.23.24 Polling Interval ♥ Last Refreshed Time 03.4pr-2018 12.23.24	• Odd Type GROUP iv Process Date Jan 1, 2016 • Odd Type BBK GRP_1 v Next Process Date Jan 4, 2016 Category Start Time Category Start Time Category End Time Polling Interval v Last Refreshed Time 03-Apr 2018 12:23:24	• ob Type GROUP Poccess Date Jan 1, 2016 Neet Process Date Jan 4, 2016 Neet Process Date Jan 4, 2016 Category End Time Category End Time Polling Interval Polling Interval Category End Time Category End Category End	* Process Category Metric Generation ✓ Category Status Freeh Start * Job Type GROUP ☑ ✓ Process Date Jan 1, 2016 ▲ Job Type GROUP ☑ ✓ Next Process Date Jan 1, 2016 ▲ Job Type GROUP ☑ ✓ Category Status Freeh Start ▲ Job Type GROUP ☑ ✓ Category Status Freeh Start ▲ Job Type Group ✓ ✓ Category Status Freeh Start ● Job Good Generation ✓ Category Status Freeh Start ● Poling Interval ✓ Category Status Freeh Start ● Diling Interval ✓ Category Status Freeh Start ● Category Status Freeh Start Category Status Freeh Start Category Status Freeh Start ● Category Status Freeh Start ● ● ● ● Category Status Freeh Start ● ● ● ● Category Status Freeh Start ● ● ● ● Category Status Freeh Stare ● ●	• obc Type GROUP IN Poccess Date Jan 1, 2016 • obc Tope BBH GREPT IN Nect Poccess Date Jan 4, 2016 Category Start Time Category End Time Category End Time One start Polling Interval Image: Category End Time Category End Time One start Start Restart Restart

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

E ORACLE [®]								Fast Path/Screen Name Q	🗏 ★ -	Posting Di Jul 24, 20	ate 17 t3010		
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End of Day										Print	∠ Clear	🔀 Egit	_
✓ Category Details												^	•
Process Category Alert Generation	~							Category Status In Progress					
* Job Type GROUP 💙								Process Date Jan 1, 2016					l
Job Code BRN_GRP_1								Next Process Date Jan 4, 2016					
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	~												11
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Alert generation Shell Shell Details												~	,

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

Figure 4–22 Alert Generation Category - Completed

								Fast Path/Screen Name 9	Jul 24, 2017 t3010	
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										^
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				
https://mum00cbi.in.oracle.com:30162/com.ofss.fc.ui.view/faces/main.j	;px#									*

4.1.9 Reprice Category Execution

This category identifies the eligible accounts and processes them for interest, fee or configuration changes happened in the system.

To execute the Reprice category:

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

Process Category	Reprice
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.

✓ Category Details							
Process Ci	ategory Reprice •				Cab	egory Status Fresh Start	
* Jo	ob Type GROUP •				P	rocess Date 15-Mar-2016	
ol. •	bb Code BRN_GRP_US ¥				Next P	rocess Date 31-Mar-2016	
Category Sta	art Time				Catego	ry End Time	
Polling	Interval 🔻				Last Ref	reshed Time 24-Apr-2017 12:52:28	
Process							Q Restart Start Recover
Shell Details Clear All Filters							Ģ
View 👻 🛒 Export To Excel 📴 🔛 Detach							
Name of Shell Status	s Trend	Duration No of Aborts	Throughput	Total Records	Status	Expected Completion Time	
Price change log online shell Not St	Trend Trend	00:00:00					
▶ Reprice action online Shell Not St	Itarted	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 4–24 Reprice Generation Category - In Progress

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End o	f Day									Print	J Clear	X EXI
.∉ Ca	tegory Details											- i
	• Proc	ess Category	Reprice •						Category Status In Progress			
		• Job Type	GROUP .						Process Date 15-Mar-2016			
		• Job Code	BRN_GRP_US *					Ne	xt Process Date 31-Mar-2016			
	Catego	ory Start Time	24-Apr-2017 12:53:12					Cat	egory End Time			
	P	olling Interval						Last	Refreshed Time 24-Apr-2017 12:53:12			
.⊿ Pro	ocess									Q₂ Restart	Start R	ecover
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	Name of Shell	Status	Trend	Duration	No of Aborts	Throughput	Total Records	Status	Expected Completion Time			
•	Price change log online shell	In Progress		00:00:00		0	0	0% 100%				

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

Figure 4–25 Reprice Generation Category - Completed

	of Day									Print Print	🖉 Clear	×
i C	ategory Details											
	* Proces	ess Category	Reprice •					с	tegory Status Fresh Start			
		• Job Type	GROUP *						Process Date 15-Mar-2016			
		• Job Code	BRN_GRP_US V					Next	Process Date 31-Mar-2016			
	Category	ry Start Time	4-Apr-2017 12:53:12					Cate	ory End Time			
	Pol	lling Interval	٣					Last R	freshed Time 24-Apr-2017 12:55:50			
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lea	r All Filters w 🔻 3 ⁷⁸ Export To Excel 📴 교한 Deta		Trend	Duration	No of Aborts	Throughput	Total Records	Status	Espected Completion Time			C
Clea Vie	r All Filters	٠	Trend	Duration 00:02:34	No of Aborts	Throughput 0	Total Records	Status	Especied Completion Time			G

4.1.10 MDM Publish Category Execution

To execute the MDM Publish category:

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

Process Category	MDM Publish
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 4–26 MDM Publish Generation Category - Not Started

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End of Day									Print	🖉 Clear	XE
✓ Category Details											
	* Process Category mdr	_Publish •					Cat	egory Status Fresh Start			
	* Job Type GRO	UP •					P	rocess Date 15-Mar-2016			
	Job Code BRM	LGRP_US *					Next P	rocess Date 31-Mar-2016			
	Category Start Time						Catego	ry End Time			
	Polling Interval	Ŧ					Last Ref	reshed Time 24-Apr-2017 12:57:58			
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View v J Export To Excel		Trend	Duration	No of Aborts	Throughput	Total Records	Status	Expected Completion Time			

- 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 4–27 MDM Publish Generation Category - In Progress

≡	ORACLE Banking Enterprise Collections	Posting Date 29-Feb-2	016							Fast Path	9	* * × 0 ·	testuse	er - 🚥
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End o	of Day											Print	🖉 Clear	🗙 Egit
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		 Process Category 	mdm_Publish •			•			Catego	ry Status In Progress				
		* Job Type	GROUP .			The category ha	as started. Logging Level =	INFO	Proc	ess Date 15-Mar-2016				
		* Job Code	BRN_GRP_US *				(ок	Next Proce	ess Date 31-Mar-2016				- 1
		Category Start Time						_	Category E	End Time				- 1
		Polling Interval							Last Refresh	red Time 24-Apr-2017 12:58:46				- 1
														- 1
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⊿ s	nell Details													Q
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Vie	v 👻 🌀 Export To Excel 📴	Detach												
	Name of Shell	Status	Trend	Duration	No of Aborts	Throughput	Total Records	Status	Đ	xpected Completion Time				
Þ	mdm Publish Shell	In Progress	Trend	00:00:00		-	-		-					

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

Figure 4–28 MDM Publish Generation Category - Completed

	Posting Date 29-Feb-20	016						Fast Path	9 * * X O	testuser 🗸 🧰
EOD10 ×										
End of Day									Print	🗾 Clear 🛛 🗙 Exit
	* Process Category	mdm_Publish •					Ca	ategory Status Fresh Start		
	 Job Type 	GROUP •						Process Date 15-Mar-2016		
	* Job Code	BRN_GRP_US *					Next	Process Date 31-Mar-2016		
	Category Start Time	24-Apr-2017 12:58:46					Categ	jory End Time		
	Polling Interval	•					Last Re	efreshed Time 24-Apr-2017 12:59:26		
A Process									Restart	Start Recover
▲ Shell Details										Ģ
Clear All Filters View + JII Export To Excel	📰 Detach									
Name of Shell	Status	Trend	Duration	No of Aborts	Throughput	Total Records	Status	Expected Completion Time		
▶ mdm Publish Shell	Complete	-	00:00:00		0	0				

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 application 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 Admin application.
- 2. 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 4–29 Exception Details

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Batch Except	ion Recovery												0	Piet 🥜 Cjear	
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	Catory EndedDay								ndi Cuda						
	Shell Limits And C								Module						
	Date Run 31-67-2028									2015-06-24 15:28	02				
Draph	on Summary The records	was not found for [C+INST	202618100028695						ror Code	2675					
Env	Rethumber 24091290	6-7950-0580-5796							Addust	PENDING					
	10							Summary	Of Record						

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 4–30 Exception Record Details

L-Musteriana	Date \$1-3er-2016												1.4	14.14	s -	OFSSUL	
	Acc	ut e Bat	office •	CABA •	Collection •	Credit Card •	Insurance •	LON .	Loan •	Organition •	Party +	Payment And Co	netter •	Term Depend	• *	rub.	
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Cengary B Strel A Data Run J Ecceptor Summary A Error Ral'Namber 37 10	nd of Day convert (aveal Accel Day 1-10-2016 cost classification rule o 11-6047-6421-6648-34 rupplentBumber1921	arkador bird d		nor Rahara	toe Gode (791-	4547-0421-854	6.0447	Laria Dennes	Module olde Time (rur Code Adea OfRecard	N# 2015-01-16-04.3 FC_34P_037 PDrCINO		ecomm	ende	dactic	onfo	rope	rat
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6. Check the Stack Trace and Comments. It is recommended that if the current action on an exception record is PENDING and there are no Comments, click Assign to create a task for business user to take appropriate corrective actions on the exception record. Also, look for the Recommended Action. By looking at the Stack Trace, if the support or operator users find a similar previous incident, they can capture the same in the Incident Number field as shown in the above figure.

Note

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

Business user acts on exception record using the Worklist Application.

To navigate to the Worklist page:

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

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Figure 4–31 Exception record in Worklist application

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

Note

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

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)
- Other Financial Institution Details (Fast path: CS07)
- Country Codes (Fast path: CS09)
- Financial Cycle (Fast path: CS10)
- Define Payment Calender Codes (Fast path: CS15)
- Reason Codes (Fast path: CS16)
- State Codes (Fast path: CS17)
- Verification Category (Fast path: CS21)
- Verification Type (Fast path: CS22)
- Verification Checklist Policy (Fast path: CS23)
- Purpose Codes (Fast path: CS24)
- Bank Policy (Fast path: CS26)
- Bank Policy Deviation Definition (Fast path: CS39)
- Risk Category Maintenance (Fast path: CS41)
- Risk Code Maintenance (Fast path: CS42)
- Mitigant Code Maintenance (Fast path: CS43)
- Transaction Code Maintenance (Fast path: CS44)
- Define Non-Financial Event Transaction Code Mapping (Fast path: CS45)

- Data Security Configuration (Fast path: CS50)
- Questionnaire Maintenance (Fast path: CS103)
- Section Maintenance (Fast path: 104)

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 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)

Note

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 Accounting Ledger (Fast path: AS009)
- Define Domain Category Accounting Template (Fast path: AS016)
- Define Domain Role Mapping (Fast path: AS019)

Note

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. The 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)
- Asset Classification (AC) Codes Maintenance (Fast path: NP003)
- Document Type Definition (Fast path: CNM01)
- Global Parameter (Fast path: LCM48)
- LTV Matrix (Fast path: LCM52)
- Facility Category (Fast path: LCMS53)

Day 0 Maintenances

The following Product Manufacturing maintenances must be completed as a part of bank and branch set up:

- Define CASA Bank Policy (Fast path: PM002)
- Define TD Bank Policy (Fast path: PM003)
- Define Loan Bank Policy (Fast path: PM004)
- Define Bundle Bank Policy (Fast path: PM005)
- Define Hardship Relief Policy (Fast path: PM006)
- Define Statement Policy (Fast Path: PM007)
- Define Dormancy Policy (Fast path: PM008)
- Define Credit Policy (Fast path: PM009)
- Define Product Group
- Define Interest Rule (Fast path: PM011)
- Define TD Interest Payout Plan (Fast path: PM012)
- Define CASA Product
- Define Loan Product
- Define TD Product
- Define Credit Card 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 Loan Offer
- Define Credit Card Offer
- 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)
- Link Product Group to Business Group (Fast path: PM028)
- Define Unclaimed Policy (Fast path: PM029)
- Define Domain Category Settlement Mode (Fast path: PM030)
- Define Product Settlement Mode (Fast path: PM031)
- Define Debit Card Feature (Fast path: PM039)
- Define Affinity (Fast path: PM042)
- Define Question Sets (Fast path: PM046)
- Define Investment Product
- Define Investment Offer
- Define Insurance Product
- Define Insurance Offer
- Installment Rule Details (Fast path: PM058)
- Loan Schedule Type (Fast path: PM059)

Note

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

6 Application Monitoring Using Administration Application

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

6.1 Dynamic Monitoring Service (DMS)

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

6.1.1 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 OBEO system. The configuration can be made either for available services or for new services.

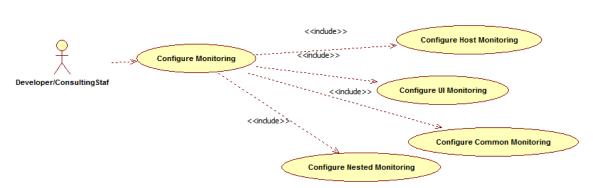
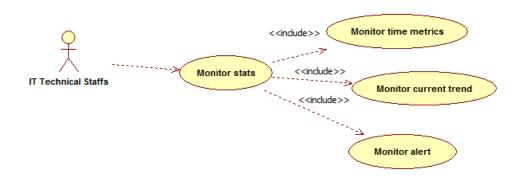


Figure 6–1 Developers

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 6–2 IT Technical Staff



6.1.2 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.

6.1.2.1 Monitoring Application Performance (Fast path: OPA001)

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

Figure 6–3 Monitoring Applicat	tion Performance
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																	🚔 Prir	* 🗳
í Mo	nitor App	plication Perfor	mance															
4 40	plication P	Performance Sum	mao/										0.	Dafaad		2015 11:40:12 AM		1
100	plication	enormance Sun	mary										Pa	ige keiresr	ied 27-May-	2015 11:40:12 AM	GMT+05:30	
						🕜 Bra	nch 🛛 🕄 ATM	Internet ()	Mobile									
Арі	plication P	Performance																
				AI Transactions	▼ For E	Branch												
		Event To Event	• • »		▼ For I	Branch												
View	• 🛛	Export To Excel	9 🛦 »		• For I	Branch												
View	• 9	Export To Excel	9 🛦 »		• For B	Branch												
View	•	Export To Excel	9 🛦 »		• For E	Branch					Time in n	nilliseconds		Transact	tion Count	Am	nount	
	• 😥 I	Export To Excel (❶ ▲ ≫ Layer		For I		Alert Event Time	Trend Reference Queue	Last Alert User	Average	Time in n Max	nilliseconds Min	Total	Transact		Am Debit		Cred
lert				Detach		Trend		Trend Reference Queue 4147, 5047, 3252, 3984,		Average 4,563								
	Channel	Module	Layer	C Detach	Task Code	Trend	27-May-2015 11:39:37		arun	-	Max	Min	36,501	Success	Failure			Cred
Vert	Channel Branch	Module	Layer Spi	Detach Transaction Perform Auto Decision	Task Code	Trend	27-May-2015 11:39:37 27-May-2015 10:46:53	4147, 5047, 3252, 3984,	arun	4,563	Max 6,463 19,078	Min 2,880	36,501 58,167	Success 8	Failure 0			
lert	Channel Branch Branch	Module ORIGINATION TD	Layer Spi Backing Bean	Detach Transaction Perform Auto Decision Mored Payin_UI	Task Code	Trend	27-May-2015 11:39:37 27-May-2015 10:46:53	4147, 5047, 3252, 3984, 881, 936, 2143, 2616, 6816 6739, 2380, 1740, 758, 1	arun	4,563 4,155	Max 6,463 19,078	Min 2,880 881	36,501 58,167 35,936	Success 8 14	Failure 0 0			
Jert	Channel Branch Branch Branch	Module ORIGINATION TD PARTY	Layer Spi Backing Bean Spi	Detach Transaction Perform Auto Decision Mied Payn _ UI Add Or Update Party Financial Profile	Task Code - TD002 -	Trend	27-May-2015 11:39:37 27-May-2015 10:46:53 27-May-2015 11:39:21 27-May-2015 10:39:16	4147, 5047, 3252, 3984, 881, 936, 2143, 2616, 6816 6739, 2380, 1740, 758, 1	arun - arun -	4,563 4,155 3,993	Max 6,463 19,078 11,972	Min 2,880 881 758	36,501 58,167 35,936 3,185	Success 8 14 9	Failure 0 0 0	Debit - - -		
lert	Channel Branch Branch Branch Branch	Module ORIGINATION TD PARTY CASA	Layer Spi Backing Bean Spi Backing Bean	Perform Auto Decision Perform Auto Decision Mend Payar, UI Add CU Update Aptr Pranacal Profile Add Scu Update Aptr Pranacal Profile Add Scu Update Accounts Save_UI	Task Code - TD002 - CASA037	Trend	27-May-2015 11:39:37 27-May-2015 10:46:53 27-May-2015 11:39:21 27-May-2015 10:39:16 27-May-2015 11:36:01	4147, 5047, 3252, 3984, 881, 936, 2143, 2616, 6816 6739, 2380, 1740, 758, 1 465, 2720	arun • arun • arun	4,563 4,155 3,993 1,593	Max 6,463 19,078 11,972 2,720	Min 2,880 881 758 465	36,501 58,167 35,936 3,185 56,535	Success 8 14 9 2	Failure 0 0 0 0 0 0	Debit - - -		

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

6.1.2.1.1 Application Performance Summary

This section gives the information about the different channels of OBEO 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 6–4 Application Performance Summary

⊿ Application Performance Summary	Page Refreshed	27-May-2015 11:40:12 AM GMT+05:30
	Granch () ATM () Internet () Mobile	

Following are the few notification about the channels:

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

6.1.2.1.2 Log Level

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

Figure 6–5 Log Level

J Log Level UI: Host:

6.1.2.1.3 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 6–6 Alert State

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

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

Sr. no.	Column Name	Description
1	Alert	Alert state of the transaction Valid Values: BLANK: No alert, Warning: Alert in past (default 5 minutes), Critical: Alerted Transaction
2	Channel	Channel through which the transaction occurred Valid Values: Branch, ATM, and POS.
3	Module	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 OBEO)

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

Figure 6–7 Select Task Code

AS PL	ATFORM	Posting Date	e st-Aug	-2016									i	▼ ×	14 X	▼ amrit	•
	Account 👻	Back Office	CA	SA 🗸 🤇	Collection 👻 C	redit Card 🔻	Insurance 👻 LCM	▼ Loa	n 🔻	Origination 🔻	Party	▼ Pa	yment And Collection 👻	Term Depos	it 🔻 Fas	st Path	
ŀ	OPA001 ×													_			
														×			
nito	or Applicati	ion Performanc	e	OR22	3												
														-		Print 🗎	🙁 Exit
				View 🔻	E 🗐 Det	ach											
				Channel	Module	Layer	Transaction	Average	Max	Min	Success	Failure	Trend Reference Queue				
ert	Channel	Module	Laver	Branch	ORIGINATION	Spi	Submit Create Offer	1,362	2,006	972	7	0	1025, 1271, 1170, 1288, 2		in milliseco	nds	
CIL	Channer	Wodule	Layer	Branch	ORIGINATION	Spi	Inquire Detailed Application	603	3,891	332	27	0	383, 343, 333, 618, 3891	e Max	Min	Total	S
2	Branch	ORIGINATION	Spi	Branch	ORIGINATION	Spi	Fetch Application	319	860	206	25	0	206, 375, 307, 320, 525	3,89	1 332	16,270	27 *
4	Branch	SMS	App Se				Approval Data							1,523	3 146	16,796	31
4	Branch	PRICING	Spi	Branch	ORIGINATION	Spi	Documents	148	701	39	27	0	63, 145, 169, 306, 701	893	140	1,033	2
4	Branch	ORIGINATION	Spi	Branch	ORIGINATION	Spi	Fetch Offer Expiry For Application	112	249	74	13	0	100, 96, 84, 81, 249	860	206	7,980	25
	Branch	WORKLIST	Spi	Branch	COMMON	Spi	Fetch State	45	256	23	137	0	157, 79, 243, 256, 106	711	59	7,974	36
•	Branch	WORKLIST	Spi	•								-		, 698	19	5,503	35
	Branch	ORIGINATION	Spi											562	51	1,215	8
Δ	Branch	ORIGINATION	Spi										OK Can	701	39	3,988	27
)	Branch	ORIGINATION	Spi										OK Can	587	64	1,175	8
4	Branch	ORIGINATION	Spi		Fetch Offer Expiry	For Application	OR223	27-1	May-2015	10:39:28 10	0, 96, 84, 81	1, 249	asavant 1	12 249	74	1,450	12 -

Detailed Transaction View

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

Figure 6–8 Selection of Desired Transaction

											🚔 Print	🛛 E)
Inquire Detailed Application (Spi Of	RIGINATION OR2	23)										
	erver Name	Tread	Trend Reference Queue	Last Alert User	Average	Max	Min	Active	Transac	tion Count		
	erver rvame	Trend	Trend Reference Quede	Last Alert User	Average	Max	Min	Threads	Success	Failure		
	ost_Server		383, 343, 333, 618, 3891	asavant	603	3,891	332	0	27	0		
◢ Transaction Details					.∡ Tra	nsaction Met	rics					
CI	annel BRN				Î			Average 60	3			Î
Task	Code OR223							Max 3,8	91			
S	ervice BaseApplic	ationServic	eSpi.inquireDetailedApplication	on				Min 33	2			- 1
Trans	action Inquire Deta	ailed Applic	ation					Success 27				Ţ
Alert and Trend Details					.∡ Fai	ure Events						
Last Ale	rt User asavant						Failure Secu	ity Event 0				Î
Alert Eve	t Time 27-May-20	15 10:39:2	6				2	FA Event 0				- 1
	Queue 383. 343.						Failure Databa					- 1

Figure 6–9 Transaction Details

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

Figure 6–10 Transaction Metrics

Transaction Metrics	
Average	603
Max	3,891
Min	332
Success	27
Success 27	
Failure 0	
Active Threads 0	
Max Active Threads 1	

Figure 6–11 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 6–12 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.

6.2 Batch Performance Monitoring

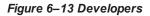
Most of the enterprise applications would require bulk processing of records to perform business operations in real time environments. These business operations include complex processing of large volumes of information that is most efficiently processed with minimal or no user interaction. Such operations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

6.2.1 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 OBEO 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 6–14 IT Technical Staff

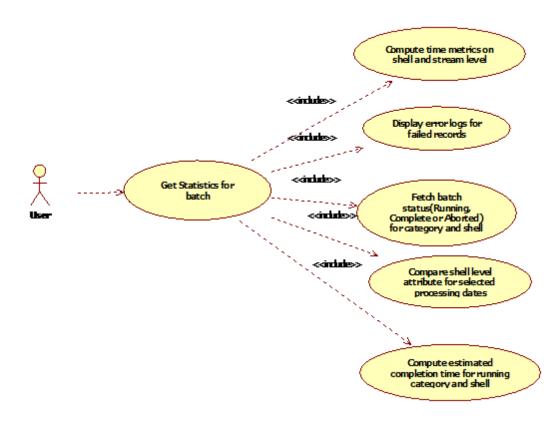


Figure 6–15 IT Technical Staff - Monitor Batch Stats



6.2.2 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.

6.2.2.1 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 6–16 Batch Performance Monitoring

OPA003 x							
Monitor Batch Performan	ce						
					🚔 Print 🧹	o <u>k</u> ∳ ci	lear 🖪 Exi
			Re	fresh Time 01-Jun	-2015 10:06:48	AM GMT+05 Auto	
S	elect Category Beginning of Day 🔻		Job Type	GROUP		Refresh	•
• Pr	ocessing Date 31-Mar-2017 📮 🗊		Job Code	BRN_GRP_1			
				🛋 Adhoc Gene	rate and View	v	
					Generate	Document	View Document
A Batch Summary							
Category Name	BEGINING OF DAY	Start Time 29 May 2015 14:05:37		Wait Time	00:20:20		
Status	COMPLETE	End Time 29 May 2015 14:44:06		Execution Time	00:18:09		
# of Aborts	2			Time Taken	00:38:29		

Figure 6–17 Batch Performance Monitoring - Shell Details

⊿ Sł	nell Details									ଜ
Cleai View	All Filters									
		•								
	Name of Shell	State	Trend	Duration	No of Aborts	Throughput	Total Records	Status	Expected Completion Time	
Þ	DDA Standing Instruction BOD Shell	Complete	-	00:00:04		0	0			
►	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	ø	00:00:20		7776	1			
Þ	Loan Action due BOD shell	Complete	Ģ	00:28:35	1	1180	508			
►	Loan Post Action due BOD shell	Complete	-	00:00:02		0	0			
Þ	CASA BOD Reports	Complete	_	00:00:00		0	0			

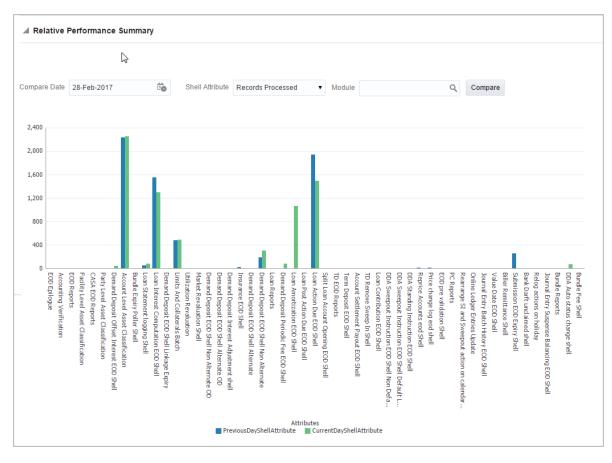


Figure 6–18 Batch Performance Monitoring - Relative Performance Summary

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 6–2 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 6–3 Shell Details

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

Figure 6–19 Shell Details

8
A

Figure 6–20 Shell Details - DDA Standing Instructions

JDA Standing Instruction BOD	A 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						
	> Shell Notes							
+ Add New Note								
No items to display								
▲ DDA Standing Instruction BOD	Shell Stream Details							
Clear All Fiters								
View 🔻 🗋 Export To Excel 📴	🔐 Detach		•					

Note

Note the following:

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

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



.⊿ SI	hell Details									Ę	<u>a</u> -
Clea View	r All Filters										
		•									
	Name of Shell	State	Trend	Duration	No of Aborts	Throughput	Total Records	Status		Expected Completion Time	
•	DDA Standing Instruction BOD Shell	Complete	-	00:00:03		0	0	0%	100%		^
÷	DDA Sweepout Instruction BOD Shell Default L	Complete	-	00:00:00		0	0	0%	100%		
÷	DDA Sweepout Instruction BOD Shell Non Defa	Complete	-	00:00:00		0	0	0%	100%		
+	Account Settlement Payout BOD Shell	Complete	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 6-	-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 6–22 Stream Based Shells

🛋 Loan Acti	ion due BOD shell	Notes								
+ Add New No	ote									
	С		im (USER) on 27/05/	2015 at 14:38:45					Subject patch applied	
			applied							
		Comment								
	Interna	il to Bank 🗸								
	-	Stage 2								
Reply 🕨 0	D									
📣 Loan Acti	ion due BOD shell	Stream Details								
🛋 Loan Acti	ion due BOD shell	Stream Details	;							
Loan Acti		Stream Details	5							
Clear All Filters	5	Stream Details								
Clear All Filters	5									
Clear All Filters	s gi Export To Excel			Duration	Status	Processed Count	Failed Count	Server Name		
Clear All Filters View 🔻 😰	s gi Export To Excel	🕞 🔐 Detac	h	Duration 1,681	Status COMPLETED	Processed Count 1,266	Failed Count	Server Name obphost_server1		
Clear All Filters View V 2	s Export To Excel or First Row	Contraction Contra	h Current Row							
Clear All Filters View V 2 Stream Number	S Export To Excel r First Row 1	Last Row	h Current Row		COMPLETED					
Clear All Filters View V 2 Stream Number	s Export To Excel or First Row	Last Row	h Current Row							
Clear All Filters View V 2 Stream Number	S Export To Excel r First Row 1	Last Row	h Current Row		COMPLETED					
Clear All Filters View View View Stream Number	s a Export To Excel r First Row 1 ion due BOD shell	Last Row	h Current Row	1,681	COMPLETED					
Clear All Filters View V R Stream Number 1 Loan Acti	s a) Export To Excel r r First Row 1 inn due BOD shell a a a a b a b a a b a b a b a b a b a	Last Row 1,269	Current Row 1270	1,681	COMPLETED	1,266	0			
Clear All Filters View V R Stream Number 1 Loan Activ ErrorCode	s b Export To Excel First Row First Row 1 indue BOD shell Constraints ProcessResult	Last Row 1,269 Error Desc BranchCode	h Current Row 1270 BranchGroupCot	1,681 de RunCount	COMPLETED	1,266 SummaryText	0			

Note

Shells are categorized into two types that is, Stream based shells and Report based shells. Figure 6–22 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 6–23 Exception Log

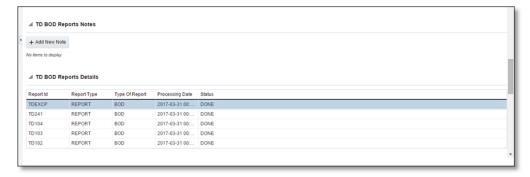
DRACLE'	Posting Date	28-Feb-2017											i	• × 4	*	bhakti	n 🔻 .
		Account 🔻	Back Office 🔻	CASA 🔻	Collection 🔻	Credit Card 🔻	Insurance 🔻	LCM 🔻	Loan 🔻	Origination v	Party 🔻	Payment And Colle	ction 🔻	Term Deposit	F	ast Path	
OPA <u>0</u> 03 ×																	
Monitor Batch Perf	ormance																
														🚔 Print	✓ O <u>k</u>	🤣 C <u>l</u> ear	🔀 Exit
ofs fc domain account ofs fc domain account ofs fc domain account ofs fc domain Joan acc ofs fc app Joan insurar m ofs fc app Joan insu ofs fc domain Joan acc ofs fc domain Joan acc	ting.da.service.A .service.da.Acco counting.service nce.LoanInsurai irance.LoanInsu tion.executor.Lo	AccountingTempla ountingEventAppli a.LoanAccounting nceApplication.up iranceApplication. anActionExecutor	ateFetcher.generate icationService.raise Service.raiseAccou odateAndRaiseAccou processChangeInli r.executeAction(Los	AccountingC AndProcessA ntingEvent(Le puntingForNer nsuranceAmo inActionExect	ontainerFromTem ccountingEventin banAccountingSer wPremium(LoanIr untOnReviewDate utor.java:228) at c	plate(Accounting Te BatchMode(Accoun vice.java:105) at co suranceApplication e(LoanInsuranceAp om.ofss.fc.domain.li	mplateFetcher.jav tingEventApplicat m.ofss.fc.app.loar 1.java:4043) at cor plication.java:434 pan.action.executo	a:34) at com ionService.ja i.insurance.L n.ofss.fc.app. 1) at com.ofs	ofss.fc.domai va:1709) at c paninsuranci oan.insuranci s.fc.app.loan.	in accounting da.s com ofss fc app ada eApplication raise/ ce.LoanInsurance/ account CCIRevie	apter.impl.loa Accounting(Lo Application.up wApplication	n.LoanAccountingAda oanInsuranceApplicati pdateInsuranceBalanc process(CCIReviewA	pter.raise/ on.java:91 esAndRai	AccountingEvent(L 19) at seAccounting(Loa	.oanAcc	ountingAdap	ter.java:6
Relative Perform	nance Summ	lary															
BUILD_DATE=2015-05-0 14. Host IP : 10.180.4.12	25	: PDBT14 = (DES are Limited. All ric		RESS = (PRO	TOCOL = TCP)(H	OST = OBPDB-RAC	-CLUSTER-SCAN	l.in.oracle.co	m)(PORT = 1	521)) (CONNECT	_DATA = (SE	RVER = DEDICATED)	(SERVICI	E_NAME = PDBT1	4))). DI	B Details : t14	lrd/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 6–24 Report Based Shells



The status of report based shell during batch run is shown in Figure 6-25:

Figure 6–25 Status of Report Based Shell

													-
Monitor Batch	Performance												
										🖨 Print	V 08	🤣 Cjear 🛛	8
						176	100						
BOD Rep	ports	Comp	slete Trend 00	00:00	· ·	0%	100						
> BOD Epi	loque	In Pr	ogress Trend 00	00-09									
4												_	ł
BOD Epilo	gue Shell Details												
	N	Iodule Code EO					Wait Time		Pending Time -				
	Number	of Streams -					No of Aborts		commentCount 0				
		Start Time 2015-0	6-02 14:38:10				Records Processed						
		End Time					Failed Records						
BOD Epilo	gue Shell Notes												
+ Add New No													
io items to atsplay	Y												
Report Id	Report Type	Type Of Report	Processing Date										_
CADVICE	REPORT	BOD	2017-04-15 00:	FAILED									
DEXCP 0241	REPORT	BOD BOD	2017-04-15 00:										
0241 0104	REPORT	800	2017-04-15 00:	FAILED									
D103	REPORT	BOD	2017-04-15 00:	FAILED									
D102	REPORT	BOD	2017-04-15 00:										
NS08	REPORT	BOD	2017-04-15 00:	FAILED									
4 BOD E 1	Error Day							R					
M BOD Epilo	gue Error Desc							63					
	CI Detech												-
View •	Detach												
ErrorCode	ProcessResult	BranchCode	BranchGroupCod		ErrorDesc	SummaryText	_						
4	4	1010	BRN_GRP_1	1	javax.xml.ws.soap.SOAPFaultE								
4	4	1010	BRN_GRP_1	1	javax.xml.ws.soap.SOAPFaultE								
-	4	1010	BRN_GRP_1 BRN_GRP_1	1	javax.xml.ws.soap.SOAPFaultE								
-	4	1010	BRN_GRP_1 BRN_GRP_1	1	javax.xm.ws.soap.SCAPFaultE								
		1010	DRV_ORP_1	1.1	javax.xiiix.ws.508p.SUAPFBUEE	10104							

Exception Report

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

Figure 6–26 Exception Report

↔ OPA <u>0</u> 03 ×					
	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	Ŧ

The different parameter monitored at shell level and exception logs for all aborted shells are part of exception report. Figure 6–27 displays sample report for a particular shell.

Figure 6–27 Sample Report

ank :10 EMERALD BU			BATCHEXC	CEPTION REPORT	Job Type : GROUF
					Jub Type . GROOT
ranch : 1010					Job Code: BRN_GRP_1
p. ID :					Report Date : 15-04-201
BOD Epilogue					
Start Time :	2-Jun-2015 9:	08 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	Res	art Time	1	Abort Duration	
Abort Time 2-Jun-2015 9:08 AM		tart Time 015 9:13 AM		Abort Duration 00:05:08	
2-Jun-2015 9:08 AM Exception Summary	2-Jun-2	015 9:13 AM			
2-Jun-2015 9:08 AM Exception Summary Report Name	2-Jun-2	015 9:13 AM Module Code	Error Code	00:05:08	Error Description
2-Jun-2015 9:08 AM Exception Summary Report Name Maturities Due Report	2-Jun-2	015 9:13 AM Module Code TD	Time Of Last Up javax.xml.ws.soa oracle.xdo.webse java.lang.Securit invalid username	00:05:08 date : 2015-06-02 14:38:11.411 ip.SOAPFaultException: ervice.exception.CoessDeniedException: yException: Failed to log into BI Publisher: or password.	javax.xml.ws.soap.SOAPFaultException: oracle.xdo.webservice.exception.AccessDeni edException: java.lang.SecurityException: Failed to log into BI Publisher: invalid username or password.
2-Jun-2015 9:08 AM Exception Summary Report Name	2-Jun-2	015 9:13 AM Module Code	Time Of Last Up javax.xml.ws.soa oracle.xdo.webss java.lang.Securit invalid username Time Of Last Up javax.xml.ws.soa oracle.xdo.webss java.lang.Securit invalid username	00:05:08 date : 2015-06-02 14:38:11.411 p.SOAPFaultException: ervice.exception.AccessDeniedException: yException: Failed to log into BI Publisher: or password. date : 2015-06-02 14:38:11.374 p.SOAPFaultException: ervice.exception.AccessDeniedException: yException: Failed to log into BI Publisher:	javax.xml.ws.soap.SOAPFaultException: oracle.xdo.webservice.exception.AccessDeni edException: java.lang.SecurityException: Failed to log into BI Publisher: invalid

Exception Log Table

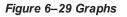
The figure below provides the details of the exception log.

Figure 6–28 Exception Log Table

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

6.2.3 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.





6.3 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 6–30 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 6–30 Input Parameters for Batch Handoff

	tor Batch Performance	e												
											🚔 Print	🗸 O <u>k</u> 🤞	Clear	🙁 E
								P	ofroch Tim	o 02 lup 2	015 11-12-	34 AM GMT	+05-20	G
								K	enesn min	e 03-3411-2	.015 11.12.	Auto Refresh		_
												Refresh	Off	•
	Sele	ect Category	Analytics Batch D	-				Job Type	GROUP					
	* Proc	cessing Date	15-Dec-2016	<u>1</u>				Job Code	BRN_G	RP_1 Q				
									🔺 Adh	loc Gener	ate and V	/iew		
													Vie	w
											Genera	ate Documer	nt Do	cument
⊿ B	atch Summary													
							4.40							
	Category Name	Analytics Batch	h Data Hand-off		Start Time	28 May 2015 16:1	1.19			Wait Time	02:29:36			
		Analytics Batch	h Data Hand-off		Start Time Estimated Completion Time					Wait Time osed Time				
		ABORTED	h Data Hand-off		Estimated Completion Time		7:34 *							
	Status A	ABORTED	h Data Hand-off		Estimated Completion Time	03 Jun 2015 11:27	7:34 *							
	Status A	ABORTED	h Data Hand-off		Estimated Completion Time	03 Jun 2015 11:27	7:34 *							6
5	Status A # of Aborts 1	ABORTED	n Data Hand-off		Estimated Completion Time	03 Jun 2015 11:27	7:34 *							ଜ
5	Status 4 # of Aborts 1 hell Details	ABORTED	n Data Hand-off		Estimated Completion Time	03 Jun 2015 11:27	7:34 *							ଜ
clea	Status 4 # of Aborts 1 hell Details	ABORTED 12 el 📑	Detach		Estimated Completion Time	03 Jun 2015 11:27	7:34 *							ଜ
clea	Status 4 # of Aborts 1 hell Details	ABORTED 12 el 📴	Detach	Duration	Estimated Completion Time	03 Jun 2015 11:27	7:34 *	Status	Elaj		139:01:15			জ
clea	Status A # of Aborts 1 hell Details r All Filters v ♥	ABORTED 12 el 📴	m ² Detach	Duration 00:00:00	Estimated Completion Time Status	03 Jun 2015 11:27 DELAYED BY 835	734 * 6 mins		Elaj	osed Time	139:01:15			ଜ
clea	Status # # of Aborts 1 hell Details r All Filters v	ABORTED 12 el E7	Detach		Estimated Completion Time Status	03 Jun 2015 11:27 DELAYED BY 835	734 * 6 mins	Status 0%	Elaj	osed Time	139:01:15			લ

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 6–31 Execution Unit

Analytics Data Hand-O	ff Details						
Module Code	DI	Wa	it Time -			Pending Time -	
Number of Streams		No of	Aborts			commentCount 0	
Start Time	2015-05-28 16:11:19	Records Pro	cessed -				
End Time of	2015-05-28 16:12:26	E-H-d D	ecords -				
End Time	2015-05-28 10:12:20	Falled R	ecorus -				
Analytics Data Hand-O	ff Notes						
Add New Note							
- Add New Note							
	Start Time	End Time	No Of Aborts	Duration	Service Provider	Execution Status	Records Processed
ecution Unit				Duration 00:01:07	Service Provider ODI_SERVICE_PROVIDER	Execution Status	Records Processed
ecution Unit	ACES 28-May-2015 16:12:27	28-May-2015 16:13:34	Aborts				Records Processed
ecution Unit KG_LN_CONTRACT_INTERF	ACES 28-May-2015 16:12:27	28-May-2015 16:13:34 28-May-2015 16:12:41	Aborts 0	00:01:07	ODI_SERVICE_PROVIDER	С	Records Processed
Contract_Interf Contract_Interf Contract_Interf Contract_Interf Contract_Interf Contract	ACES 28-May-2015 16:12:27 28-May-2015 16:12:26	28-May-2015 16:13:34 28-May-2015 16:12:41 28-May-2015 18:05:03	Aborts 0 0	00:01:07 00:00:15	ODI_SERVICE_PROVIDER ODI_SERVICE_PROVIDER	C C	Records Processed
ecution Unit KG_LN_CONTRACT_INTERF KG_ACCOUNT_RATE_TIERS KG_AS_ACCOUNT_ENTRY KG_TD_INTERFACES	ACES 28-May-2015 16:12:27 28-May-2015 16:12:26 28-May-2015 16:12:26	28-May-2015 16:13:34 28-May-2015 16:12:41 28-May-2015 18:05:03 28-May-2015 18:34:17	Aborts 0 0 1	00:01:07 00:00:15 01:52:37	ODI_SERVICE_PROVIDER ODI_SERVICE_PROVIDER ODI_SERVICE_PROVIDER	C C C	Records Processed
ecution Unit G_LN_CONTRACT_INTERF G_ACCOUNT_RATE_TIERS G_AS_ACCOUNT_ENTRY K0_TD_INTERFACES GQ_PM_INTERFACES	ACES 28-May-2015 16:12:27 28-May-2015 16:12:26 28-May-2015 16:12:26 28-May-2015 16:12:23 28-May-2015 16:12:13	28-May-2015 16:13:34 28-May-2015 16:12:41 28-May-2015 18:05:03 28-May-2015 18:34:17 28-May-2015 18:12:32	Aborts 0 0 1 1 1	00:01:07 00:00:15 01:52:37 02:21:54	ODI_SERVICE_PROVIDER ODI_SERVICE_PROVIDER ODI_SERVICE_PROVIDER ODI_SERVICE_PROVIDER	C C C	Records Processed
ecution Unit KG_LN_CONTRACT_INTERF (G_ASCOUNT_RATE_TIERS (G_TD_INTERFACES KG_PM_INTERFACES (G_PARTY_FIN_INTERFACE)	ACES 28-May-2015 16:12:27 28-May-2015 16:12:26 28-May-2015 16:12:26 28-May-2015 16:12:23 28-May-2015 16:12:13	28-May-2015 16:13:34 28-May-2015 16:12:41 28-May-2015 18:05:03 28-May-2015 18:34:17 28-May-2015 16:12:32 28-May-2015 16:12:27	Aborts 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00:01:07 00:00:15 01:52:37 02:21:54 00:00:19	ODI_SERVICE_PROVIDER ODI_SERVICE_PROVIDER ODI_SERVICE_PROVIDER ODI_SERVICE_PROVIDER ODI_SERVICE_PROVIDER	C C C C C C	Records Processed
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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.

Eiguro	6 22	Abort	Statistics
riyure	0-32	ADUIL	Statistics

								🔒 Print	✓ 0 <u>k</u> 🔌	C <u>l</u> ear E
xecution Unit S	Start Time	End Time	No Of Aborts	Duration	Service Provider	Execution Status	Records Processed			
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KG_PM_INTE 2	28-May-2015 1	28-May-2015 1	0	00:00:19	ODI_SERVICE	С				
KG_PARTY_F 2	28-May-2015 1	28-May-2015 1	0	00:00:29	ODI_SERVICE	С				
KG_PI_INTER 2	28-May-2015 1	28-May-2015 1	0	00:00:43	ODI_SERVICE	С				
KG_OR_INTE 2	28-May-2015 1	28-May-2015 1	0	00:00:56	ODI_SERVICE	С				
KG_MITIGAN 2	28-May-2015 1	28-May-2015 1	0	00:00:49	ODI_SERVICE	С				
KG_LN_INTE 2	28-May-2015 1	28-May-2015 1	0	00:00:49	ODI_SERVICE	С				_
KG_GL_INTE 2	28-May-2015 1	28-May-2015 1	0	00:00:11	ODI_SERVICE	С				
KG_FACILITY 2	28-May-2015 1	28-May-2015 1	0	00:00:41	ODI_SERVICE	С				
KG_DDA_INT 2	28-May-2015 1	28-May-2015 1	1	01:54:50	ODI_SERVICE	С				

On click of the error description table, the error description message appears as shown in Figure 6–33:

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

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

7.1 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.

7.1.1 Oracle Enterprise Manager (EM)

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

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

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

Some notations in EM are provided below:

•	Indicates component is down
•	Indicates component is up and running
8	Indicates alerts
۸	Indicates warnings
16	Indicates metric collection error
*	Indicates healthy status

Table 7–1 Notations in EM

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

Figure 7–1 Oracle Enterprise Manager

ORACLE [®] Enterprise Ma	nager Cloud Control 13	C							<u>E</u> nt	erpris	e • O <u>T</u> argets • ★ <u>Favorites</u> •	History •	<u>S</u> etup ▼	C	~	SMO	KEPROD261_	USER V
Services											Auto Re	fresh Off	~	Page	Refres	hed Nov	1, 2017 5:04	:31 PM IST 🕇
Type ALL V Name	%	🔍 Adva	nced Search															
View 👻 🎽 Create 👻 🗙 Rema	ove																	
Name	Туре	Status	s Availability	Agr	ervice evel eeme tatus		ı	ncide	ents		ystem	Key	Compo	nents			Key	Tests
						Pe	erfor	man	Usa	ge		Status		Incidents			Status	Monitorin
					۳	8	•	1	8			Status	•	8	Δ		Status	Beacons
OBP_SMOKEPROD261_SOA_Service	Generic Service	+	Tests	-	-		-	-		-	/SMOKEPROD261_SOA_mum00aba_in_oracle_c /base_domain/soa_server1/soa-infra	n/a	0	0	0	0	1 1	1
OBP_SMOKEPROD261_HOST_Service	Generic Service	+	Tests	-	-		-	-		-	/SMOKEPROD261_HOST_ofss3121179_in_oracle /host_domain	n/a	0	0	0	0	1 1	1
OBP_SMOKEPROD261_Monitoring_Se	Generic Service	+	System	-	-	• •	-	-		-	OBP_SMOKEPROD261_Monitoring_System	1	0	0	0	0	n/a	0
OBP_SMOKEPROD261_UL_Service	Generic Service	+	Tests	-	-		-	-		4	/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	1 5	0	0	0	0	n/a	0

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

Security Stacks components such as OAAM, OID, OES, outbound components such as Oracle Analytics Publisher (formerly known as Business Intelligence Publisher), IPM, Documaker, ATM and POS channels are also part of the environment view.

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

7.1.2 UI

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

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

Figure 7–2 UI Cluster in EM

ORACLE Enterprise Manager Cloud Control 13c	Targets V 🕲 Targets V 🛓 Eavorites V 🕑 History V 🍄 Setup V 🔍 🌲 SYSMAN V	••••
↑ obpui_cluster1 0	📱 ofs310524.in.oracle.c	xom
🔚 🛵 WebLogic Cluster 🗸 🕨 Startup 📑 Shutdown 🔆 Create Blackout 🕓 End Blackout	Page Refreshed Nov 3, 2017 4:17:26 AM GMT)
Server Performance	^ Metric Palette	
Past 2 hours	Dey 2 hours 15 minutes ▶ Sider 👸	
	View View View View View View View View View	
Chart Set Default 🗸 Save Chart Set View 🕶 Compare 🕶	Hide Metric Palette	
	Availability Clustered Application Deployment (2)	
02:20 AM 02:30 02:40 02:50 03:00 03:10 03:20 03:30 03:40 November 03, 2017	03:50 04:00 04:10	
10	×	
	Obpui_server1: Active Sessions Metrics L obpui_server1	
1.5	View 🔻 Search Q	
¥ 1.0 0 0.5	obpui_server1: CPU Jusage (%) Certificate Monitoring	^
0.0	Connection Pool Metrics By Server	
4,000	×	
₩ 2,000	Obpui server1: Heap Disage (MB) Heap Disage (MB)	
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November 03, 2017 150	EJB Transaction Metrics By Server	
2 100 E 100	Copul_server1: Request Processing Time (mi) JMS Destination Metrics Line (mi)	
50	Time (ms)	
: 30	V I JMS Server Metrics	¥

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

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

The following figure displays the WebLogic domain for UI.

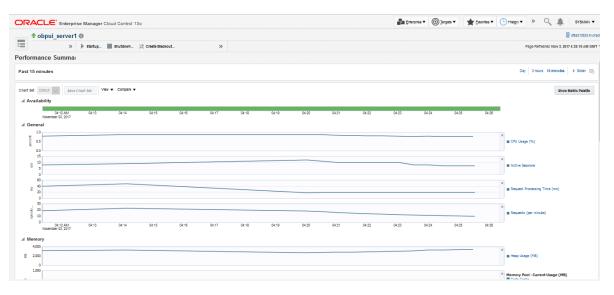
Figure 7–3 WebLogic Domain for UI

	e Manager Cloud Control 13c	🛃 Enterprise 🔻 🎯 Jargets 🔻 🌪 Eavorites 🔻 🕐 History 🔻 🐯 Setup 💌 🔍 🌲 SYSMAN 💌 🚥
ui_domain 🚯		🚽 ofs310524.in.orade.com
🔛 🦉 WebLogic Domain 👻	Startup Shutdown	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	Domain Home	ofss310524 in.oracle.com 7001 7002 Nev 2, 2017 10:55:32 AM GMT 12:2:1:2:0 /scratch/spp/product/fmw/user_projects/domains/ui_domain Full
Clusters	Incidents	
1 Up	Descendant Target Incidents Configuration Changes Diagnostic Finding Support Workbench Problem	34 \$ 0
Deployments		
*		

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 7–4 Metrics Chart

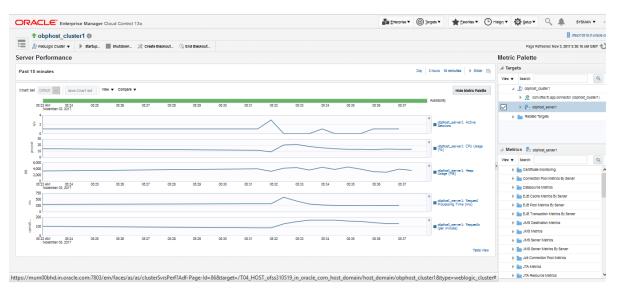


7.1.3 Host

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 7–5 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 7–6 Host Target in EM

	se Manager Cloud Control 13c		<u>E</u> nterprise ▼	<u> </u>	Eavorites	History V	O Setu	्र	SYSMAN V
host_domain 🚯								5	ofss310519.in.oracle.c
**************************************	Startup >>>					0	Page Refresh	red Nov 3, 2	017 5:59:34 AM GMT 🔦
Summary	General								
Admin Server	Administration Server								
Nov 2, 2017 10:57:42 AM GMT	Administration Server Host								
WebLogic Domain Refreshed	Listen Port								
	SSL Listen Port								
Servers		Nov 2, 2017 10:57:42 AM GMT							
		12.2.1.2.0							
2 up		/scratch/app/product/fmw/user_projects/domains/host_domain Full							
	Monitoring and Diagnostics	5							
Clusters	Incidents								
-	Descendant Target Incidents	•							
1 Up	Configuration Changes	48							
	Diagnostic Findings	s 0							
	Support Workbench Problems	5 0							
Deployments									
1 Down	•								
8 Up									
~									

The following figure displays the metric charts.

Figure 7–7 Metrics Chart

CLE Enterprise Manager Cloud Control 13c	🛃 Enterprise 🔻 🌀 Zargets 👻 🌟 Encrites 👻 🕒 History 👻 Setup 👻 🔍 🌲 SYSMAN
obphost_server1	📕 ofsa310519
📙 Weologic Server 👻 🗼 Startup 📓 Shutdown 🄆 Create Blackout 🚱 End Blackout	Page Refreshed Nov 3, 2017 5:19:57 AM
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Set Defail and Save Churt Set View Compare Variability	Show Metric Peets
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General	
75	× CPU Usage (%)
§ 25 00	
2	×
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a 400 200	Request Processing Time (ms)
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Nemory	
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4000	Heap Usage (MB)
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10 mum00bhd.in.oracle.com:7803/em/faces/as/as/serverPerf?Adf-Page-Id=83⌖=/T04_HOST_ofss310519_in_oracle_com_host_domain/ho	domain / ohnhort convert 8/type=weblogic i2 acronver# Karbage Collector - Invocations (per min)

7.1.4 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.

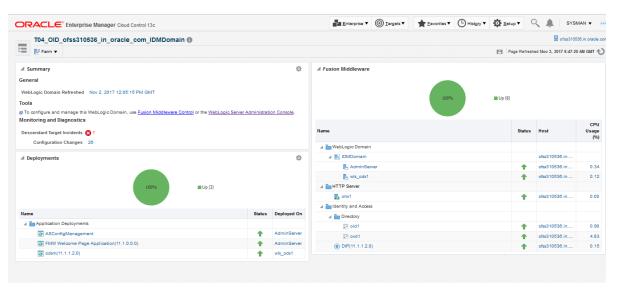
Figure 7–8 Viewing Process List

RACLE' Enterprise Manager Cloud Control 13c	Enterprise V	<u>_</u>	rgets 🔻	+ Eavorites	• 🕒	Hist <u>o</u> ry ▼	Ø <u>s</u>	tup 🔻 🔍	A :	SYSMAN V
↑ soa-infra (soa_server1) 0									💂 ofssi	3121918.in.ora
👫 SOA Infrastructure 🔻 🕨 Startup 📗 Shutdown 🔆 Create Blackout 🗠 End Blackout						(Page Refreshed I	Nov 3, 2017 6	:05:10 AM GM
Deployed Composites Dehydration Store Performance Faults and Rejected Messages Error Hospital										
Composite Table of SOA Composites deployed on the SOA Infra. To trace a instance, select a Composite and click 'Trace instance' arch Q polyment Details For Trace Instance Export Composite									Com	posite Heat N
						SOA Com	ponent Ro	llup		
Composite		Status	Messages (per minute)	Errors (per minute)	Error Rate (%)	System Faults	Business Faults	Recoverable Faults	WS Policy Violations	Instances
Composite		Status	(per	(per	Rate			Faults	Policy	Instances
-			(per minute)	(per minute)	Rate (%)	Faults	Faults 0	Faults 0	Policy Violations	Instances
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7.1.5 Security Stack (OID and OAM)

OID and OAM are also deployed as WebLogic domain.

Figure 7–9 OID WebLogic Domain



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

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

A webservice is invoked for generating the documents from the application with Oracle Analytics Publisher (formerly known as Business Intelligence Publisher (BIP)) as well as Documaker. From EM, we check whether that webservice is up and running or not, which gives the status of these components. The following figure displays the status from EM.

Figure 7–10 Document Generation Status

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

Oracle Analytics Publisher is also deployed on WebLogic domain.

Figure 7–11 Oracle Analytics Publisher Deployment

Startup Shutdown Deployments View • Search Q. Name			Page Refreshed			13.in.oracle. PM GMT 🎕
Deployments View • Search Q		(Page Refreshed	Nov 3, 2017 1	2:51:56	PM GMT 🦿
View View View View View View View View						
Name					Incide	nts
		Status	Deployed On	•	8	▲ 🏲
Application Deployments						
adminservice(11.1.1)				0	0	0 0
∡ Adminservice(11.1.1)		+	bi_cluster	0	0	0 0
adminservice(11.1.1)		+	bi_server1	0	0	0 0
🔺 🎆 analytics				0	0	0 0
🔺 🤮 analytics		+	bi_cluster	0	0	0 0
analytics		+	bi_server1	0	0	0 0
asyncadminservice(11.1.1)				0	0	0 0
asyncadminservice(11.1.1)		+	bi_cluster	0	0	0 0
asyncadminservice(11.1.1)		+	bi_server1	0	0	0 0
▲ Bi-actions				0	0	0 0
∡ Sections		+	bi_cluster	0	0	0 0
iii bi-actions		+	bi_server1	0	0	0 0
∡ K biadminservlet(11.1.1)				0	0	0 0
⊿ 🤮 biadminservlet(11.1.1)		+	bi_cluster	0	0	0 0
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7.1.7 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 7–12 EM Monitoring



7.1.8 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 7–13 Web Monitoring



7.1.9 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.

7.1.9.1 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.

RACLE' Enterprise Manager Cloud	I Control 13c				1	Enterprise v	<u> </u>	★ <u>F</u> avorites ▼	History • 🚯 Setup	• 🔍 🌲	SYSMAN .
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OBP View V									Pag	e Refreshed Nov 4, 20	17 11:19:42 AM I
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	ac_bundle_fee_shell			00:00:03	0	208	14	14	03-nov-2017 10:10	03-nov-2017 10:16	
	ac_stl_pyt_eod_shell			00:00:00	0	0	0	0	03-nov-2017 10:10	8 03-nov-2017 10:16	
	as_eod_check			00:00:00	0	0	0	0	03-nov-2017 16:4	7 03-nov-2017 16:47	•
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	dd_eod_action1			00:00:15	9	78	193	193	03-nov-2017 16:4	5 03-nov-2017 16:45	
	dd_eod_action2			00:00:00	0	0	0	0	03-nov-2017 16:44	03-nov-2017 16:46	
	dd_eod_action3			00:00:00	0	0	0	0	03-nov-2017 16:40	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 16:4	7 03-nov-2017 16:47	
					-		<u>^</u>	-	00 0047404		
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	Demand Deposit EC	1	1	194	193		15	193	obphost_server1	COBPB2	

Figure 7–14 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.

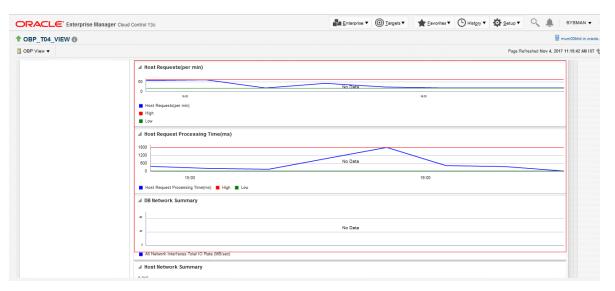
Figure 7–15 Batch Monitoring Status

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OBP View 🔻								P	age Refreshed Nov 4, 2017 11:19:42
	shellName	streamNumber	streamFirstRow 1	streamCurrentR	streamLastRow	duration	processedCount	serverName	dbinstanceName
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	d DB CPU Utilizat	ion(%)							<u> </u>
	80								
	47				No Data				
	DB CPU Utilization	n(%) 📕 High 🔳 Low							
	⊿ Host CPU Utiliz	ation(%)							
	12								
	0	15.03			NO Data	,	e.00		
	Host CPU Utilizati	on(%)							

Figure 7–16 Batch Configuration

ORACLE' Enterprise Manager Cloud Control 13c	<u>E</u> nterprise ▼	<u> </u>	★ <u>Favorites</u> ▼	□ History ▼	Setup V	् 🌲	SYSMAN ¥
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OBP View 🔻					Page Re	freshed Nov 4, 20	17 11:19:42 AM IST 👈
Old Heap Free After GC(%)							
✓ DB Active Sessions							
	No Data						
Active Sessions Using CPU							
M Host Open JDBC Connections							
4							-
2	No Data						-
15:00			16:00				
Open JDBC Connections High Low							
A Host Active Threads							
	No Data						
19.00			16:00				
Active Threads High							
Low							
A DB ThroughPut							

Figure 7–17 WebLogic Service Info



7.1.9.2 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.

7.1.9.2.1 Application Services

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

For cluster details, click the Show Cluster Details link.

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

DRACLE' Enterprise Manager Cl	loud Control 13c						<u>Enterpris</u>	• •	argets 🔻		• 🕒 Hist	ory 🔻 🔯	Setup V	्र 🌲	SYSMAN 🔻
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▲ Summary	Application Services	User Interface	Originatio	n User Interfa	e Integrati	on Batch	Monitoring								
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	Export To Excel														
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Figure 7–18 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 7–19 Application Metrics of Application Services for selected server

RACLE' Enterprise Manager Clou	d Control 13c						<u>Enterprise</u>	• @1	argets V	★ Eavorites	 Hist 	ery 🔻 🚺	<u>S</u> etup ▼ (्र 🌲	SYSMAN V
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	Fetch Associated Party	BRN	WL000	103	189	17	2	false		189, 17	DOWNWAR	Transaction	obphost_se	AssociatedF	
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The following table explains each column of the table present in the given snapshot:

Table 7–2 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

7.1.9.2.2 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 7–20 Application Metric for all UI servers in cluster

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	Name CollateralCategoryPreferanceMnt.update	BRN	LCM07	15937	15937	15937	1	false	Alert	15937	Tren	Transactio	obpui_ser	CollateralCa	-
	Name CollateralCategoryPreferanceMnt.update	BRN	LCM07	15937	15937	15937	1	false	Alert	15937	Tren	Transactio	obpui_ser	CollateralCa	
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Expand CLUSTER to get a list of all the servers. Each server can be further selected to get the details at the server level. On clicking the server, the application metrics are displayed in the table as shown in the following figure.

Figure 7–21 Application Metrics of UI components for selected server

	I Control 13c					Ente	arprise 🔻 (<u> Targets</u>	• 🔺	Eavorites v	Hist	av 🔹 🔯	<u>S</u> etup ▼	🔍 🌲 sys
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	Config Compare View _UI	BRN	OPA005	7	7	7	1	false		7		Transact	obpui_se	backing.Confi

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

Table 7–3 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

7.1.9.2.3 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.

DRACLE Enterprise Manager Clo	ud Control 13c						Enterpr	ise 🔻 🎯	Targets 🔻		• 🕒 Hist	ory 🔻 🔯	Setup v	्र	SYSMAN
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	Name Applicant StepExit Basic BeforeStepEntry Basic BeforeStepExit	BRN BRN BRN BRN	0R097 0	057.54545 33	11118 3 633	28 3 633	11 1 1	false false false	AlertU	33, 69, 28, 3 633		Transaction Transaction Transaction Transaction	obpui_servi obpui_servi obpui_servi	ApplicantS BasicStep BasicStep FinancialF	H. H.
	Applicant StepExit Basic BeforeStepEntry Basic BeforeStepExit FinancialProfileTrainFinl	BRN BRN BRN BRN BRN	0R097 0 0R097 8	057.54545 33	11118 3 633 0	28 3 633 0	11 1 1 1	false false false false	AlertU	33, 69, 28, 3 633 0		Transaction Transaction Transaction Transaction Transaction	obpui_servi obpui_servi obpui_servi obpui_servi	ApplicantS BasicStepl BasicStepl FinancialF StructureS	H. H. 90
	Name Applicant StepExit Basic BeforeStepEntry Basic BeforeStepExit FinancialProfileTrainFinl StructureSolution StepEx	BRN BRN BRN BRN BRN BRN	0R097 0 0R097 8	057.54545 33 00 211.5	11118 3 633 0 800	28 3 633 0 800	11 1 1 1 1	false false false false false	AlertU	33, 69, 28, 3 633 0 800	DOWNWAR	Transaction Transaction Transaction Transaction Transaction	obpui_servi obpui_servi obpui_servi obpui_servi obpui_servi obpui_servi	Applicants BasicStepi BasicStepi FinancialF StructureS FundingSt	4 4
	Name Applicant StepExit Basic BeforeStepExit Basic BeforeStepExit FinancialProfileTrainFinl StructureSolution StepExit Funding BeforeStepExit	BRN BRN BRN BRN BRN BRN	0R097 0 0R097 1	057.54545 33 00 211.5	11118 3 633 0 800 2176	28 3 633 0 800 247	11 1 1 1 1 2	false false false false false false	AlertU	33, 69, 28, 3 633 0 800 2176, 247	DOWNWAR	Transactior Transactior Transactior Transactior Transactior Transactior	obpui_servi obpui_servi obpui_servi obpui_servi obpui_servi obpui_servi	ApplicantS BasicStepl FinancialF StructureS FundingSt Instruction	H H H H H
	Name Applicant StepExit Basic BeforeStepExit FinancialProfileTrainFinl StructureSolution StepExit Funding BeforeStepExit Instructions BeforeStepExit	BRN BRN BRN BRN BRN BRN BRN	1 3 0R097 6 0R097 0 8 0R097 1 6 0 0 0 2	0057.54545 33 00 211.5 72	11118 3 633 0 800 2176 6	26 3 633 0 800 247 6	11 1 1 1 1 2 1	false false false false false false false	AlertU	33, 69, 28, 3 633 0 800 2176, 247 6	DOWNWAR	Transaction Transaction Transaction Transaction Transaction Transaction Transaction	obpui_serw obpui_serw obpui_serw obpui_serw obpui_serw obpui_serw obpui_serw	ApplicantS BasicStepl BasicStepl FinancialF StructureS FundingSt Instruction FeesStepl	
	Name Applicant StepExit Basic BeforeStepExit FinancialProfile TrainFinl StructureSolution StepEx Funding BeforeStepExt Instructions BeforeStepExt Fees StepEntry	BRN BRN BRN BRN BRN BRN BRN BRN BRN	1 3 0R097 6 0R097 0 8 0R097 1 6 0 0 0 2	057.54545 33 00 211.5	11118 3 633 0 800 2176 6 0	28 3 633 0 800 247 6 0	11 1 1 1 2 1 1	false false false false false false false false false	AlertU	33, 69, 28, 3 633 0 800 2176, 247 6 0	DOWNWAR	Transactior Transactior Transactior Transactior Transactior Transactior Transactior Transactior	obpui_servi obpui_servi obpui_servi obpui_servi obpui_servi obpui_servi obpui_servi	ApplicantS BasicStepl BasicStepl FinancialF StructureS FundingSt Instruction FeesStepl FundingSt	ni ni ni ni ni ni ni ni ni ni ni ni ni n
	Name Applicant StepExit Basic BeforeStepExit Basic BeforeStepExit FinancialProfileTrainFinit StructureSolution StepE Funding BeforeStepExit Instructions BeforeStepEx Fees StepEntry Funding StepEntry	BRN BRN BRN BRN BRN BRN BRN BRN BRN BRN	1 3 0R097 6 0R097 0 8 0R097 1 6 0 0 0 2	2057.54545 333 000 211.5 72 5.5	11118 3 633 0 800 2176 6 0 438	28 3 633 0 800 247 6 0 108	11 1 1 1 1 2 1 1 2 2	false false false false false false false false false false	AlertU	33, 69, 28, 3 633 0 800 2176, 247 6 0 438, 106	DOWNWAR DOWNWAR DOWNWAR DOWNWAR	Transactior Transactior Transactior Transactior Transactior Transactior Transactior Transactior Transactior	obpui_servi obpui_servi obpui_servi obpui_servi obpui_servi obpui_servi obpui_servi obpui_servi obpui_servi	ApplicantS BasicStepl BasicStepl FinancialF StructureS FundingSt Instruction FeesStepl FundingSt Individual	

Figure 7–22 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 7–23 Application Metrics of Origination UI components for selected server

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	Name Applicant StepExit Basic BeforeStepEntry Basic BeforeStepExit FinancialProfileTrainFin StructureSolution StepE	BRN BRN BRN BRN BRN BRN	OR097 6 OR097 6 OR097 6 OR097 6	1057.54545 3 633 0 800 876	111118 2 3 3 633 0 0 0 800 4 2176 2	28 1 3 1 333 1 50 1 800 1	11 1 1 1 1 1 3	false false false false false	AlertU	33, 69, 28, 3 633 0 800	DOWNWAR	Transaction Transaction Transaction Transaction Transaction	obpui_serw obpui_serw obpui_serw obpui_serw obpui_serw obpui_serw	ApplicantSt BasicStepHi BasicStepHi FinancialPn StructureSo	
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The following table explains each column of the table present in the given snapshot:

Table 7–4 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

7.1.9.2.4 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.

Figure 7–24 Application Metrics of all outbound se	ervices called from a	ıll host sei	rvers ir	า clust	er	
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Expand it to get a list of all the servers. Each server can be further selected to get the details at the server level. On clicking the server, the application metrics are displayed in the table as shown in the following figure.

Figure 7–25 Application Metrics of all outbound services called from selected server

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	CommonSecurityManage	BRN BRN		0	0 10267	0	0		rishika	4138, 7190	UPWARDS	Transaction Transaction	obphost_se	CommonSe Documaker
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	CommonSecurityManage Generate Set Of Docume	BRN BRN		0	0 10267	0 4127	0 14	true	rishika	4138, 7190	UPWARDS	Transaction Transaction	obphost_se	CommonSe Documaker
	CommonSecurityManage Generate Set Of Docume	BRN BRN		0	0 10267	0 4127	0 14	true	rishika	4138, 7190	UPWARDS	Transaction Transaction	obphost_se	CommonSe Documaker
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The following table explains each column of the table present in the given snapshot:

Table 7–5 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

8 Configuration Export-Import Operations

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

8.1 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.

8.2 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.

8.3 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.

8.4 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.

8.5 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>
```

8.6 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.

8.7 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.

8.7.1 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.

8.7.2 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 8–1 File Data Store

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

8.7.2.1 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.

8.7.2.2 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.

8.8 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 8.7 Data Store Configuration.

8.8.1 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>
```

8.8.2 Exporting All Records

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

The request parameters to this service are:

- SessionContext
- TaskCode

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

Sample request and response are as follows:

Export All Request

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

Export All Response

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

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

In case of DB Data Store, exported data is stored in **flx_ops_config_data_item** and for File Data Store, exported files are generated at the path specified for export configuration. For more information, see Chapter 8.7 Data Store Configuration.

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· 수 - 서 수 신 lobjects		š ?				1	
	SQL Output St						
objects 💌		atistics					
	select * from	m flx_ops_confi	<pre>j_data_item where task_co</pre>	de='PM011' and con	fig_ver_no=	'104' and operation_type='Ex	port'
- Recycle bin	anlast + from	- fly one confi	, data item where task or	der IDM0111 and con	fig ver nor	'104' and operation type='Im	DOTT 1
E Functions	Beleon . IIO	" TIX_0ps_contr	Jaca Item where cask_co	de- Pholi and con	iig_ver_no-		porc
Procedures							
Packages							
Package bodies							
Types							
Type bodies							
Triggers	(T)						
Java sources	🗄 - 🛞 +	- 🗸 🗟 🗄 1	M 🖉 🏠 🔻 🔒	<u>a n</u> .			_
Gueues	CHANNE	L SERIALIZED E	NTITY CREATION DATE	OPERATION TYPE	STATUS	CONFIG VER NO TASK CODE	EXCEPTIO
Queue tables	I BRN	<blob></blob>	··· 04-06-2013 11:16:59 AM	Export	··· success ···	104 PM011	
Lbraries	2 BRN	<blob></blob>	··· 04-06-2013 11:16:59 AM	Export	··· success ···	104 PM011	
Directories	3 BRN	<blob></blob>	··· 04-06-2013 11:16:59 AM	Export	success	104 PM011	
Tables	4 BRN	<blob></blob>	··· 04-06-2013 11:16:59 AM	Export	··· success ···	104 PM011	
Vews	5 BRN	<blob></blob>	··· 04-06-2013 11:16:59 AM	Export	··· success ···	104 PM011	
Materialized views	6 BRN	<blob></blob>	··· 04-06-2013 11:16:59 AM	Export	··· success ···	104 PM011	
Sequences	7 BRN	<blob></blob>	··· 04-06-2013 11:16:59 AM		··· success ···	104 PM011	
		01.00	··· 04-06-2013 11:16:59 AM	Export	··· success ···	104 PM011	
Disers	8 BRN						
Profiles	8 BRN 9 BRN	<blob></blob>	04-06-2013 11:16:59 AM		success	104 PM011	
Profiles Roles	9 BRN	<blob></blob>	··· 04-06-2013 11:16:59 AM	Export	SUCCESS	104 PM011 104 PM011	
Profiles	9 BRN 10 BRN	<blob> <blob></blob></blob>	··· 04-06-2013 11:16:59 AM	Export Export	··· success ···	104 PM011	
 Profiles Roles Synonyms Database links 	9 BRN 10 BRN 11 BRN	<blob> <blob> <blob></blob></blob></blob>	··· 04-06-2013 11:16:59 AM ··· 04-06-2013 11:16:59 AM	Export Export Export	success	104 PM011 104 PM011	
 Profiles Roles Synonyms 	9 BRN 10 BRN 11 BRN 12 BRN	<blob> <blob> <blob> <blob></blob></blob></blob></blob>	 04-06-2013 11:16:59 AM 04-06-2013 11:16:59 AM 04-06-2013 11:16:59 AM 04-06-2013 11:16:59 AM 	Export Export Export Export	success ···· success ···· success ···	104 PM011 104 PM011 104 PM011	
 Profiles Roles Synonyms Database links Tablespaces 	9 BRN 10 BRN 11 BRN	<blob> <blob> <blob></blob></blob></blob>	··· 04-06-2013 11:16:59 AM ··· 04-06-2013 11:16:59 AM	Export Export Export Export	success	104 PM011 104 PM011	

Figure 8–2 Exported Data

Figure 8–3 Exported Files

🖉 🗣 🎍 🕨 Computer 🕨 Data (D:) 🕨 tempdir 🕨 runarea 🕨 OBP_Bl	, , copert				- Search export		
e Edit View Tools Help							
ganize Include in library Share with Burn New	older)II •	
Host_Workspace ^ Nam	e	Date modified	Туре	Size			
HostWorkspace2014	ACCT010_ACCT010_130	6/30/2014 5:42 PM	File	44 KB			
🕌 JaPa	ACCT013_ACCT013_428	6/30/2014 6:47 PM	File	1 KB			
🌡 Java	AL03_AL03_182	6/30/2014 5:44 PM	File	575 KB			
🎍 Junit	AL04_AL04_342	6/30/2014 6:04 PM	File	274 KB			
🕌 kanika	ATM001_ATM001_254	6/30/2014 5:46 PM	File	5 KB			
🕌 Links	ATM002 ATM002 414	6/30/2014 6:47 PM	File	4 KB			
🎍 logs	3R001_BR001_241	6/30/2014 5:46 PM	File	7 KB			
My Documents	3RM01_BRM01_403	6/30/2014 6:45 PM	File	12 KB			
New folder (2)	CALO1 CALO1 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			
🎍 newlogs	CASA023_CASA023_117	7/10/2014 3:20 PM	File	8 KB			
OCH_Workspace	CASA0403_CASA0403_460	7/2/2014 3:13 PM	File	77 KB			
6 off-1.3.13	CNM01_CNM01_187	6/30/2014 5:44 PM	File	24 KB			
🎍 OPS 🔳 🔳 🗋	CNM03_CNM03_347	6/30/2014 6:05 PM	File	49 KB			
🔒 OWASP ZAP	CNM09_CNM09_21	7/16/2014 11:28 AM	File	7 KB			
Program Files (i86)_OLD	CNM11_CNM11_349	6/30/2014 6:06 PM	File	1 KB			
Program FilesOLD	CS01_CS01_200	6/30/2014 5:45 PM	File	4 KB			
R2BSupport	C\$03_C\$03_466	7/3/2014 12:23 PM	File	64 KB			
🤣 123	CS06_CS06_176	6/30/2014 5:44 PM	File	7 KB			
🕌 report	CS10_CS10_4261	7/3/2014 6:36 PM	File	147 KB			
Ruby Clients	CS15_CS15_239	6/30/2014 5:46 PM	File	4 KB			
Softwares	CS16_CS16_364	6/30/2014 6:19 PM	File	27 KB			
📕 Study	CS17_CS17_178	6/30/2014 5:44 PM	File	5 KB			
Ji Study Material	CS21_CS21_4262	7/3/2014 7:10 PM	File	99 KB			
🎍 tempdir	CS22_CS22_206	6/30/2014 5:45 PM	File	10 KB			
🎉 runarea	CS23_CS23_4264	7/3/2014 7:42 PM	File	22 KB			
Lipressions	CS24_CS24_202	6/30/2014 5:45 PM	File	39 KB			
🎍 lib	C\$26_C\$26_217	6/30/2014 5:45 PM	File	5 KB			
JE OBP_BU	CY01_CY01_201	6/30/2014 5:45 PM	File	42 KB			
🕌 export	CV02_CV02_235	6/30/2014 5:46 PM	File	8 KB			
UNCORP +	CV03_CV03_208	6/30/2014 5:45 PM	File	19 KB			

8.9 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.

8.9.1 Importing Single Record

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

8.9.1.1 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>
```

8.9.2 Importing All Records

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

The request parameters to this service are:

- TaskCode
- ConfigVersionNo

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

Sample request and response are as below:

Import All Request

```
<con:channel>BRN</con:channel>
<con:marketEntity>SUN01</con:marketEntity>
<con:postingDateText>20130228000000</con:postingDateText>
<con:targetUnit>OBP_BU</con:targetUnit>
<con:transactionBranch>089999</con:transactionBranch>
<con:userId>OFSSUser</con:userId>
</exp:sessionContext>
<exp:taskCode>AL04</exp:taskCode>
<exp:versionNo>186</exp:versionNo>
</exp:importAllExportImport>
</soapenv:Body>
</soapenv:Envelope>
```

Import All Response

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

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

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

```
- <ns13:importAllExportImportResponse
```

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

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

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

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

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

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

Figure 8–4 Importing Data Using SOAP UI - Storing Respon
--

File Project Edit Sessio	on Debug Tools Macro	Documents Reports Window Hel	P					- 8
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- 💩 🖌 💩 🌢	3 3 5 5	?						
	SQL Output Statistics]						
♦ – # 4 4								
objects	select * from fl	x ops config data item whe	re task code='PM01	11' and com	nfig ver no='104'	and operatio	n type='Export'	
Recent objects			-					
Recycle bin	select * from fl	x ops config data item whe	re task code='PM01	11' and cos	nfig ver no='104'	and operatio	n type='Import'	
Functions			-					
Procedures								
Packages								
Package bodies								
Types Type bodies								
Triggers								_
Java sources	⊞ - & + -	✓ ▼ Ξ Α 🖉 🏠 マ ⊿						
Jobs	∰ • ⊕ ÷ -	V V V PA V 40 V 2	-666 🔛 🔾 🖬 '	*				
Queues	SERIALIZED_E	ENTITY CREATION_DATE	OPERATION_TYPE _	STATUS_	CONFIG_VER_NO	TASK_CODE _	EXCEPTION_DESC	ID
Queue tables	1 <8L0B>	··· 04-06-2013 11:31:54 AM	Import .	· success ·	. 104	PM011		8a3
					104	D14011		0-0
	2 <8L0B>	··· 04-06-2013 11:31:54 AM	Import ·	··· SUCCESS ···		PM011		083
🗎 Lbraries	2 <blob> 3 <blob></blob></blob>	···· 04-06-2013 11:31:54 AM · ··· 04-06-2013 11:31:54 AM ·		success success		PM011 PM011		
Libraries Directories Tables			Import		104			· 8a3
 Libraries Directories Tables Views 	3 <blob></blob>	04-06-2013 11:31:54 AM	Import -	success		PM011		8a3
Libraries Directories Tables Views Materialized views	3 <8LOB> 4 <8LOB>	··· 04-06-2013 11:31:54 AM · ··· 04-06-2013 11:31:54 AM ·	Import Import Import	success success success	- 104 - 104 - 104	PM011 PM011	-	8a3 8a3 8a3
Libraries Libraries Directories Tables Vews Materialized views Sequences	3 <8LOB> 4 <8LOB> 5 <8LOB> 6 <8LOB>	 04-06-2013 11:31:54 AM 	Import Import Import Import	SUCCESS SUCCES	- 104 - 104 - 104 - 104	PM011 PM011 PM011 PM011	-	8a3 8a3 8a3 8a3
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Libraries Directories Tables Views Sequences Users Profiles Roles	3 <8L0B> 4 <8L0B> 5 <8L0B> 6 <8L0B> 7 <8L0B> 8 <8L0B> 9 <8L0B>	 04-06-2013 11:31:54 AM 	Import Import Import Import Import Import	SUCCESS SUCCES	- 104 - 104 - 104 - 104 - 104 - 104 - 104 - 104	PM011 PM011 PM011 PM011 PM011 PM011 PM011		8a3 8a3 8a3 8a3 8a3 8a3 8a3 8a3
Libraries Directories Tables Views Materialized views Sequences Users Profiles Roles Synoryms	3 <8LOB> 4 <8LOB> 5 <8LOB> 6 <8LOB> 7 <8LOB> 8 <8LOB> 9 <8LOB> 10 <8LOB>	 04-06-2013 11:31:54 AM 	Import Import Import Import Import Import Import Import	SUCCESS SUC	- 104 - 104 - 104 - 104 - 104 - 104 - 104 - 104 - 104 - 104	PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011	۵۵ ۵۰ ۵۰ ۵۰ ۵۰ ۵۰ ۵۰ ۵۰ ۵۰ ۵۰ ۵۰ ۵۰ ۵۰ ۵	8a3 8a3 8a3 8a3 8a3 8a3 8a3 8a3 8a3
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Libraries Directories Tables Vews Materialized views Sequences Usen Profiles Reise Snoryma Database links Tablespoces	3 <8LOB> 4 <8LOB> 5 <8LOB> 6 <8LOB> 7 <8LOB> 8 <8LOB> 9 <8LOB> 10 <8LOB> 11 <8LOB> 12 <8LOB> 12 <8LOB> 13 <8LOB> 13 <8LOB> 13 <8LOB> 13 <8LOB> 14 <8LOB> 15 <8LOB> 15 <8LOB> 16 <8LOB> 17 <8LOB> 17 <8LOB> 18 <8LOB> 19 <8LOB> 19 <8LOB> 10 <8LO	 04-06-2013 11:31:54 AM 04-06-2013 11:31:55 AM 	Import Import Import Import Import Import Import Import Import Import Import Import	SUCCESS SUC	- 104 - 104	PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011		8a3 8a3 8a3 8a3 8a3 8a3 8a3 8a3 8a3 8a3
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Libraries Directories Tables Vews Materialized views Sequences Usen Profiles Reise Snoryma Database links Tablespoces	3 <8LOB> 4 <8LOB> 5 <8LOB> 6 <8LOB> 8 <8LOB> 9 <8LOB> 9 <8LOB> 10 <8LOB> 11 <8LOB> 12 <8LOB> 13 <8LOB> 14 <8LO	 04-06-2013 11:31:54 AM 04-06-2013 11:31:55 AM 	Import Import Import Import Import Import Import Import Import Import Import Import	SUCCESS SUCCES	- 104 - 104	PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011 PM011		8a3 8a3 8a3 8a3 8a3 8a3 8a3 8a3

8.10 Configuration Comparison

This section describes the details of configuration comparison.

8.10.1 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.

8.10.2 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 8–5 Entity Comparison

Compare Bus	iness Configurat	tions			
					🚔 Print 🗸 Olg 🥜 Clear 👩 Exi
5		No d	ata to display	10	
View v E					
Select	Task Code	Task Description	Matching Percentage	Exception	
0	PM008	PM008 - Dorma			
	PLS003	PLS003 - Produ			
	PLS002	PLS002 - Produ			
	PLS001	PLS001 - GAAP			
	PM002	PM002 - Define			
	CNM09	CNM09 - Layou			
	ACCT010	ACCT010 - War			

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

Figure 8–6 Entity Comparison Results

				🗎 Print 🗸 Olij 🌽 Cijear 🍯
		1		
0			1	
View - E	Export To Excel			
Select	Task Code	Task Description	Matching Percentage	Exception
•	COR17	COR17 - State Code Summary	25	
	PM008	PM008 - Dormancy Rule Configuration		
	PLS003	PLS003 - Product Ledger - Branch Parameters		
	PLS002	PLS002 - Product Ledger - Bank Parameters		
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 8–7 Progress Bar

	siness Configurat				
			C₽	🚊 Print 🗸	O <u>k</u> 🤌 C <u>l</u> ear 🛛
			3		
			3		
0				4.0	
View 🔻 🛛	Export To Excel				
Select	Task Code	Task Description	Matching Percentage	Exception	
•	PM008	PM008 - Dorma	16.67		
•	PLS003	PLS003 - Produ	100		
		PLS002 - Produ	100		
2	PLS002	PL3002 - Pl000			
	PLS002 PLS001	PLS002 - F1000			
Z					
2	PLS001	PLS001 - GAAP			
v •	PLS001 PM002	PLS001 - GAAP PM002 - Define			

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

Figure 8–8 Comparison Details

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

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

Figure 8–9 Attributes Difference

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

8.11 Application Configuration

This section describes the application configuration details.

8.11.1 Cache Configuration

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

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

Sample entries in Preferences.xml are as below:

Preferences.xml

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

Important parameters in preferences.xml are as follows:

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

9 Batch Shells in OBEO

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

9.1 Batch Shells Description

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

Table 9–1 Shell Description

Sr. No.	Process Category	Category Description	Shell	Shell Description	Module Code	Detailed Description
1	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.
2	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.
3	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.
4	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.)
5	1	End of Day	ac_bundle_ fee_shell	Bundle Fee Shell	BN	This shell charges the bundle period fees defined while originating CASA.
6	1	End of Day	bundle_ report_shell	Bundle Reports	BN	This shell generates the various bundle offer related reports.
7	1	End of Day	or_sub_ exp_shell	Submission EOD Expiry Shell	OR	This shell expires the submission IDs which have breached the defined submission period.
8	1	End of Day	pr_price_ changes_	Price change action log shell	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.

Sr. No.	Process Category	Category Description	Shell	Shell Description	Module Code	Detailed Description
			eod	for account opened today		
9	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.
10	1	End of Day	ac_bundle_ exp_poller	Bundle Expiry Poller Shell	BN	This shell maintains Track Bundle expiry.
11	1	End of Day	eod_ report_shell	EOD Reports	AL	This shell generates reports in EOD.
12	1	End of Day	eod_ epilogue	EOD Epilogue	EO	This shell waits for all the reports to be generated and changes the Process date.
13	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.
14	2	Beginning of Day	ac_bod_ bn_fee_ shell	BOD Bundle Fee Shell	BN	This shell processes the subscription and maintenance fees.
15	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.
16	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.
17	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.
18	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.
19	247	Reprice	pr_price_	Price change log	PR	This shell identifies the accounts (which are not opened today) eligible for rate and

Sr. No.	Process Category	Category Description	Shell	Shell Description	Module Code	Detailed Description
			changes	online shell		fee changes and logs action for further processing in pr_reprice_action shell.
20	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.
21	69	mdm_Publish	mdm_ publish_ shell	Rmdm_publish_ shell	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
22	117	Housekeeping	or_pr_apr_ exp_shell	Submission Pricing Approval EOD Expiry Shell	OR	This shell is used to identify and insert records of the submissions for which Submission Pricing Approval is expired
23	10	Settlement Notification Processing	or_setl_ notif_rtv	Settlement Notification Retrieval	OR	This shell is used to notify Settlement Retrieval
24	10	Settlement Notification Processing	or_setl_ notif_prc	Settlement Notification Processing	OR	This shell is used to process Settlement Notification.
25	352	Account Reprocess	or_acc_ reprocess_ sh	Account Reprocess Shell	OR	

9.2 Batch Shells Execution Sequence

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

Table 9–2 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	100	Health Check	Optional	1	health_	Health Checkup Shell	FW		

Sr. No.	Process Category	Category Description	Category Significance	Shell Execution Sequence	Shell	Shell Description	Module Code	Required Shells	Required Shell Description
					chk_shell				
2	100	Health Check	Optional	1	excep_ pending_ shell	Batch Exceptions Pending Check Shell	FW		
3	0	Reports Health Check	Optional	1	reports_ chk_shell	Reports Health Check	FW		
4	3	Cut Off	Mandatory	1	co_cutoff_ prologue	Cutoff Prologue	со		
5	1	End of Day	Mandatory	1	ac_bundle_ fee_shell	Bundle Fee Shell	BN		
6	1	End of Day	Mandatory	1	bundle_ report_shell	Bundle Reports	BN		
7	1	End of Day	Mandatory	1	or_sub_ exp_shell	Submission EOD Expiry Shell	OR		
8	1	End of Day	Mandatory	1	pr_price_ changes_ eod	Price change action log shell for account opened today	PR		
9	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
10	1	End of Day	Mandatory	5	ac_bundle_ exp_poller	Bundle Expiry Poller Shell	BN	ac_ bundle_ fee_shell pr_ reprice_ acn_eod	Bundle Fee Shell Reprice Action shell for account opened today
11	1	End of Day	Mandatory	7	eod_ report_shell	EOD Reports	AL	bundle_ report_ shell	Bundle Reports Bundle Fee Shell Submission Expiry shell

Sr. No.	Process Category	Category Description	Category Significance	Shell Execution Sequence	Shell	Shell Description	Module Code	Required Shells	Required Shell Description
								ac_ bundle_ fee_shell or_sub_ exp_shell pr_ reprice_ acn_eod	Reprice Action shell for account opened today
12	1	End of Day	Mandatory	8	eod_ epilogue	EOD Epilogue	EO	eod_ report_ shell	EOD Reports
13	16	Internal System EOD	Mandatory	1	pi_eod_ shell	Party EOD Shell	PI		
14	2	Beginning of Day	Mandatory	1	ac_bod_ bn_fee_ shell	BOD Bundle Fee Shell	BN		
15	117	Housekeeping	Mandatory	1	lm_auto_ closur_ shell	Facility Auto Closure Shell	LM		
16	117	Housekeeping	Mandatory	1	pi_bod_ shell	Party BOD Shell	PI		
17	117	Housekeeping	Mandatory	1	ac_pop_ domain_ind	Domain index tables populate shell	AC		
18	120	Alert Generation	Optional	1	ep_ generation_ shell	Alert generation Shell	DI		
19	247	Reprice	Default	1	pr_price_ changes	Price change log online shell	PR		
20	247	Reprice	Default	2	pr_reprice_ action	Reprice action online Shell	PR	pr_price_ changes	Price change log online shell

Sr. No.	Process Category	Category Description	Category Significance	Shell Execution Sequence	Shell	Shell Description	Module Code	Required Shells	Required Shell Description
21	69	mdm_Publish	Optional	1	mdm_ publish_ shell	mdm Publish	IN		
22	117	Housekeeping	Mandatory	1	or_pr_apr_ exp_shell	Submission Pricing Approval EOD Expiry Shell	OR		
23	10	Settlement Notification Processing	Mandatory	1	or_setl_ notif_rtv	Settlement Notification Retrieval	OR		
24	10	Settlement Notification Processing	Mandatory	1	or_setl_ notif_prc	Settlement Notification Processing	OR		
25	352	Account Reprocess	Mandatory	1	or_acc_ reprocess_ sh	Account Reprocess Shell	OR		

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

10.1 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 10–1 Values for ILM Configuration

10.2 Installation

This section explains the process of ILM installation.

10.2.1 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 (OBEO Tables Worksheet)
- ILM Column (OBEO Tables Worksheet)
- Partition Range Type (Lifecycle Pattern Worksheet)

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

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

10.2.2 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;

10.2.3 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 OBEO Database.
- 2. Run the following SQL statement:

DECLARE PI TABLE NAME VARCHAR2(200);

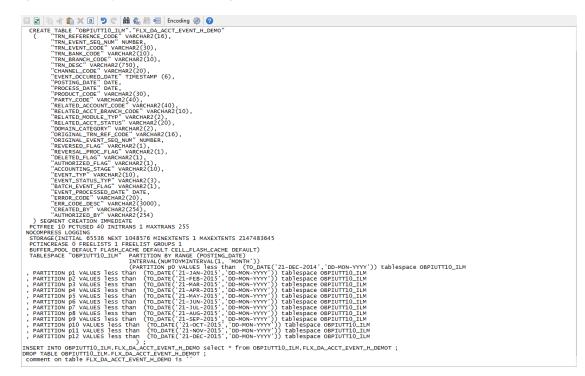
```
PARTITION COLUMN NAME VARCHAR2(200);
SRC SCHEMA NAME VARCHAR2(200);
PARTITION INTERVAL NUMBER;
PARTITION TYPE VARCHAR2(200);
DIRECTORY NAME VARCHAR2(200);
DURATION NUMBER;
DURATION TYPE VARCHAR2(200);
BEGIN
PI TABLE NAME := <ILM qualified table name>;
PARTITION COLUMN NAME := <ILM column name>;
SRC 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 10–2 Utility Table Creation Script



10.2.4 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 OBEO database as follows:
 - a. Connect to OBEO Database.
 - b. Run partition creation script:

@ <Tablename>par.sql

For example:

@ /scratch/app/ILM_PARTITION_DIR/FLX_DA_ACCT_EVENT_H_DEMOpar.sql

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

For example:

@ /scratch/app/ILM_ADO_DIR/FLX_DA_ACCT_EVENT_H_DEMOado.sql

10.2.6 Verify Registered ADO Policies

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

Figure 10–3 Verify ADO Policies

Enterprise 🔻 🧿	Targets 👻 🏫 Ea	avorites 🔻 🕝 Hist <u>o</u> ry 🔻			Sea	arch Target Name
NCONT65A	i					Logged in as 😽 👸 🗌 🛄 mum00aro.in.orade.c
Oracle Database	 Performance 	Availability 🔻 Security	 Schema	•		Page Refreshed Dec 22, 2015 5:25:10 AM GMT
formation Li	fecycle Manag	jement				
Policy Summ		Policy Execution Sum	mary for Last 24 Hours	Top Tablespaces By Policy Actio	on.	
Policies		Jobs	•	1		
Compressio	1 0	Completed 0				
Storag		Failed 0				
Objects		Active 0				
-	s Enabled 12	Policies			Compression	
	s Enabled 12 Disabled 0	Completed 0			Storage Tiering	
Evaluations	Usabled U	Failed 0			Both	
Evaluations					None	
Completed	0	Objects				
	Evaluate	Compressed 0		100.0%		
		Moved 0				
Automatic Dat	a Optimization	Policies				
60 Policy Detail	s 6d Execution H	istory 🖹 Execute Polic	y			
Name	Action Type	Scope	Objects St	atus		
P163	STORAGE	SEGMENT	1 En	abled		
P167	STORAGE	SEGMENT		abled		
P 169	STORAGE	SEGMENT		abled		
P162	STORAGE	SEGMENT		abled		
P166	STORAGE	SEGMENT		abled		
P172	STORAGE	SEGMENT		abled		
P165	STORAGE	SEGMENT		abled		
P170 P161	STORAGE	SEGMENT		abled		
	STORAGE	SEGMENT		abled		
		SEGMENT	I En	ableu		
P168 P164	STORAGE	SEGMENT	1 50	abled		

10.3 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;
/
```

11 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.

11.1 Configuration

The following is the classification of information related to OBEO. 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 11–1 TDE Configuration

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

11.2 Installation

This section explains the installation process.

11.2.1 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

11.2.2 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;

11.2.3 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/)
```

11.2.4 Run Created Alter Script

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

12 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).

12.1 Configuration

The following is the classification of information related to OBEO. 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.	ormation remains	
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 12–1 TDE Configuration

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

12.2 Installation

This section explains the installation process.

12.2.1 Prepare Scripts to Encrypt Sensitive Data

Database administrator needs to create 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

12.2.2 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.

12.2.3 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.

13 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 13–1 Credentials

w w	+ Create Map + Create Key 📝 Edit 🗙 Delete Credential Key Name	Detach	
Creder	ntial		Type Descripti
4 💼	oracle.obp.credmap		
	§ IPM_SERVICE		Password
	Ø OBP_USER		Password
4 👝	oracle.odi.credmap		
	§ SUPERVISOR		Password
			Password

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

Figure 13–2 Example of premissions

ipal policy and codebase policy. Principal policy gran	is permissions and privileges to a list of users or roles. Codebase policy grants pe						
Grant To Codebase 🔻							
ent.upload.ipm.jar							
Resource Name	Permission Actions						
read	read						
	ent upload ipm jar						

- 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 13–3 Connection details

Designer Topology ×		📀 Start Page 🛛 🔵 ORAG	CLE_HOST ×			
62	<u>-</u>	Test Connection				
Physical Architecture OBP_FSDF OBP_OCH OBP_PMU_SRC OBP_PMU_TARGET	4	Definition JDBC On Connect/Disconnect Datasources	JDBC Driver: JDBC URL:	oracle.jdbc.OradeDriver jdbc:orade:thin:@10.180.6.102:1521/PDB6102		=
OBP_SRC ORACLE_CSA ORACLE_HOST ORACLE_HOST OTACLE_HOST OTACLE_HOST OTACLE_HOST OTACLE_HOST	•	Version Privileges Flexfields	Properties		Value	

14 Additional Recommendations

This chapter provides specific recommendations to be considered for implementation:

14.1 SOA Related

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

14.1.1 Enable Auto Purge Job

- Oracle SOA Suite team strongly recommends periodic purging of composite instances. Purge instances as soon as they are available for purge.
- SOA suite 12c comes up with default purge job enabled with retention period of 7 days.
- It is recommended to keep this default job enabled in the production.

Figure 14–1 Auto Purge

ORACLE Enterprise Manager Fusion Middleware Control 12c	WebLogic Domain v weblogic v ····
the soat-infrate the soat infrate the soat infrate	Apr 19, 2018 7:52:11 PM GMT+05:30 🍤
Auto Purge Job SOA Flow Purge Job 1 🛛 Enabled 💟 Run Now	P Apply
Schedule Enter a valid calendaring expression. (a) * Job Schedule Teq=dally: byhour=0; byminute=0; bysecond=0	
Configuration	
* Purge Type SINGLE 🗸	
Retain Data 5 🔺 🗸 days	
Data within this interval is NOT purged when the job runs	
Batch Size 20000 A V	
More Auto Purge Configuration Properties	

14.1.2 Enable Lazy Loading

- 12c supports lazy loading of composites on deployment as well as server startup.
- CompositeLazyDeployment: Loads the composites lazily on deployment.
 - More useful for non-production environments where there is frequent deployment of all the composites.
- CompositeLazyLoading: Loads the composites lazily on server start up.
- It is recommended to keep the default settings unchanged, that is CompositeLazyDeployment as false and CompositeLazyLoading as true in production environment.

- This will reduce the SOA server startup time.
- To confirm the settings, in SOA EM console, go to soa-infra > SOA Administration > Common Properties. Click More SOA Infra Advanced Configuration Properties link.

Figure 14–2 Lazy Loading Settings

RACLE Enterprise Manager Fu	ision Middleware C	Control 1	2¢				ogic 🔻 🕒
🕇 soa-infra 🕦							• • 🖂 ·
SOA Infrastructure 🔻						Apr 19, 2018 7:57:07 PM	GMT+05:30 🕇
stem MBean Browser							
🝸 oracle.as.soainfr 🕒	4	Applie	cation Defined MBean	s: SoaInfraConfig:soa-infra		A	pply Rev
Application Defined MBeans		🚹 Info	ormation				6
🔺 🚞 oracle.as.soainfra.config		The	changes made on this mbear	are not managed by the configuration session. The chang	es will be	applied immediately. You cannot undo the changes from the Change Center.	
🔺 🛅 Server: soa_server1		▶ Sho	w MBean Information				
SoalnfraConfig		Attribu	ites Operations Notifications	5			
			Name	Description	Access	Value	
		1	AuditConfig	Audit Configuration	RW	javax.management.openmbean.CompositeDataSupport(compositeType=javax.management.openmbean.compositeDataSupport(compositeType=javax.management.openmbean.compositeDataSupport(compositeType=javax.management.openmbean.compositeDataSupport(compositeType=javax.management.openmbean.compositeDataSupport(compositeType=javax.management.openmbean.compositeDataSupport(compositeType=javax.management.openmbean.compositeDataSupport(compositeType=javax.management.openmbean.compositeDataSupport(compositeType=javax.management.openmbean.compositeDataSupport(compositeType=javax.management.openmbean.compositeDataSupport(compositeType=javax.management.openmbean.compositeDataSupport(compositeType=javax.management.openmbean.compositeDataSupport(compositeType=javax.management.openmbean	penm
		2	AuditLevel	Audit level. The possible values are Off, Production and Dev	RW	Production	
	r.	3	AutodeployDir	The composite auto deployment directory.	RW		
		4	BulkRecoveryConfig	Configuration for bulk recovery of faults.	RW	javax.management.openmbean.CompositeDataSupport(compositeType=javax.management.openmbean.compositeDataSupport(compositeType=javax.management.open	penm
		5	CacheConfig	Cache Configuration	RW	javax.management.openmbean.CompositeDataSupport(compositeType=javax.management.openmbean.CompositeDataSupport(compositeType=javax.management.openmbean.compositeDataSupport(compositeTyp	penm
		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	faise	~
		11	DatasourceJndi	The JNDI name for the server datasource. This datasource	RW	jdbc/SOALocalTxDataSource	

14.2 BPM Worklist Related

This section mentions certain recommendations on usage of BPM worklist.

14.2.1 Disable Claim Action from Task Details Page

- Always claim the task using worklist action menu.
- Claim option is disabled by default inside task details page.
- It can be enabled (configurable), if needed (but not recommended).
- Disabling this option helps to avoid loading of task details page twice, that is before claiming the task and after claiming the task.

Figure	14–3	Claim	Action
--------	------	-------	--------

OR	ACL	.E BPM Worklis	st	
Му Та	sks(24) 🔻 🕂 🥖 %	Actions 🔻 🛛 🖾	🔍 💌 Me & My Group All 🗸 Assigned 🗸 🔂 🗮 🖛
Status	¥	title	Reassign	
:		Verify Application APP20	Escalate	mission SUB200620180014610
		Structure Solution of Len	Suspend	80010612003 and Submission SUB200620180014610
=		Overview of Credit Decisi	Start Task	:0180014610
8-		Offer Letter Acceptance	Claim	0010763001 and Submission SUB200620180014764
8.		Overview of Credit Decisi	Create To-Do Task	0180014764
=		Structure Solution of Len	ang rippication / a 1 20002	- 180010761001 and Submission SUB200620180014758

14.2.2 Always Open Human Task Details in External Window

- BPM worklist supports two options to display the task details.
 - **Same Window**: Human task details are opened in the same browser window just below the worklist grid.
 - External Window: Human task details are opened in the new browser window (as a child popup).
- It is strongly recommended to make use of **External Window** option.
 - Human task details can be seen in full-screen mode.
 - Avoids unnecessary loading the task details page if user is browsing through the list of human tasks in worklist grid.
- This option can be enabled from worklist administration page.

Figure 14–4 Enable External Window option

ORACLE: BPM Worki	ist						fssuser		
				Administration	Evidence Search	Approval Groups	Task Co	nfiguration	•
Application Preferences	Application Preferences						<u>S</u> ave	Revert *	
		Default assignment filter	Me & My Group All					-	^
		Worklist Action Menu	Show Hide					_	
		File Types Allowed for Upload							
		Display task details in external window	Enable O Disable						~